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Foreword

On looking back over the year 2013 with regards to this annual research report, I have to again marvel at the exceptional achievements of our many Health Sciences researchers despite the arduous workloads, the onerous service delivery and the unsupportive administrative systems which underlie our activities. I pay tribute to each one of you! Yes, we can be more productive – but there is a need for the services and support structures in the Institution and in the Provincial Health Administration to be improved in order to provide researchers with a supportive foundation on which to undertake research.

A pleasant consequence of the outstanding research activity in the Faculty in 2013 is the huge increase in subsidy earning units which have resulted from accredited journal publications. Resounding congratulations to all our researchers for their ongoing and increasing productivity!

The Faculty’s Research Entities remain as important niches for research and for the training of future scientists and clinical researchers. These entities generate substantial outputs in the form of publications and postgraduates, contribute to community engagement and policy making and generate huge amounts of income for research. Their contributions are warmly acknowledged.

Slight increases have occurred in both publication units and postgraduate throughputs, although capturing of publications remaining a concern for the Faculty. While M.Med graduations remain low, there was most certainly a large improvement in 2013. We graduated our first cohort of Carnegie Ph.D Fellows (Academic Medicine Programme) and achieved the re-introduction of the Doctor of Medicine degree. Thus, strategies for increasing qualifications and supervisory capacity in the Faculty are slowly improving.

An injection of funds from the Carnegie Corporation of New York in late 2013 into our Alumni Diaspora Programme will allow this programme to bed down some of its substantial gains such as our Vanderbilt University collaboration. In addition, support for the Faculty’s initiative in Biomedical Informatics from Vanderbilt has allowed for the introduction of REDCap™ and the training of one of our clinicians.

HSRO research courses were well-attended and are important in the training and support of our staff and postgraduate students in their research. The HSRO wishes to acknowledge those staff who contribute to these courses, thus providing invaluable training for emergent researchers and postgraduates in the Faculty. Our annual writing retreats continue to be productive as was the introduction of financial support for open access online publication.

Ongoing and increasing research activity and an engaging and supportive environment are not possible without the input of many people and exceptionally hard, but fulfilling work. Thus, in conclusion I would like to thank those staff who have been responsible in supporting me in providing the large number of research and postgraduate activities during 2013: our Faculty researchers, staff of the HSRO, staff of the finance office, Mrs Mathoto Senamela and the postgraduate staff, the Chairs of all the FRC committees and their committees, and the many individuals in the Faculty who are called on from time to time to give advice, act in some capacity or simply “lend an ear”! Thank you all. I look forward to the outcomes of 2014 with great anticipation.

Professor Beverley Kramer
Assistant Dean: Research and Postgraduate Support
1. NOTABLE RESEARCH ACHIEVEMENTS AND ACTIVITIES IN 2013

The Faculty is extremely proud of the many awards and honours bestowed on its staff, particularly in the field of research. Listed below are some of the many distinguished awards/events of 2013. Others follow under the listing of Schools and Units (section 9)

Congratulations are extended to:

Professor Shabir Madhi received the MRC Lifetime Achievement Award (Platinum Medal) in recognition of the excellence of his research in the field of vaccinology and respiratory and meningeal pathogens and its impact on improving child health in South Africa and other developing countries.

Professor Shabir Madhi was also listed among the “Top 100 World Class South Africans”, which included among others former Presidents Nelson Mandela, Thabo Mbeki and many other luminaries in the inaugural edition of this listing by City Press.

Professor Keith Klugman received the Albert E. Levy Scientific Research Award for Senior Faculty at Emory University. Established to recognize the contributions of Emory Faculty members to the advancement of scientific knowledge. Each year, one senior faculty member is selected by the University Research Committee to recognize outstanding research publications.

Professor Keith Klugman also received the APUA 2013 Leadership Award of the Alliance for the Prudent Use of Antibiotics.

Professor Caroline Tiemessen School of Pathology and Professor John Eyles, School of Public Health, for being awarded SARChI Chairs in HIV Vaccine Translational Research and in Health Policy and Systems Research, respectively.

Professor Laetitia Rispel (Head of School of Public Health) on being inducted into the International Nurse Researcher Hall of Fame. This Hall of Fame recognizes nurse researchers who are Sigma Theta Tau International members and who have achieved long term, broad national and/or international recognition for their research which has impacted the profession and the people they serve.

Professor Laetitia Rispel for being awarded a grant of R1 million from the Democratic Nursing Organisation of South Africa (DENOSA) for the completion of a book that she is writing with a colleague in the Centre for Health Policy (CHP). This grant is the single largest grant from a trade union in recent years.

Professors Mario Altini and Dennis Daneman for being awarded the prestigious senior doctorate, the D.Sc (Medicine).

Professor Viness Pillay for being elected a Fellow of the African Academy of Science.

Dr Kebashni Thandrayen (Department of Paediatrics, Chris Hani Baragwanath) for being awarded the Young Investigators Award, based on having submitted the best abstract, to attend the International Conference on Children’s Bone Health in Rotterdam, Holland in June 2013.

Professor Glenda Gray (Director: Perinatal HIV Research Unit) for being selected as winner of the 2013 European & Developing Countries Clinical Trials Partnership (EDCTP) Award for an Outstanding African Scientist. This is awarded to senior researchers who have made outstanding achievements in their field and who are recognized research leaders in Africa working on HIV/AIDS, tuberculosis and malaria.
Professor Glenda Gray for receiving the prestigious Order of Mapungubwe: Silver, from President Jacob Zuma, at a ceremony which took place at the Presidential Guest House on 27 April 2013.

![Prof Glenda Gray receiving the Order of Mapungubwe: Silver, from President Jacob Zuma](image)

Professor John Pettifor for being announced as a finalist in the NSTF-BHP Billiton: Lifetime Achievement Award.

Professors Karen Hofman and Stephen Tollman both from the MRC/Wits Rural Public Health and Health Transitions Unit (Agincourt) for publishing a commentary in the Lancet Global Health in July 2013. The article is entitled “Population health in South Africa: a view from the salt mines”.

MRC/Wits Developmental Pathways for Health Research Unit (DPHRU) for establishing a Public-Private Partnership to combat Diabetes in Malaysia. The intervention will be implemented and evaluated to determine its impact on diabetes risk in the mother and her offspring.

Drs Susan Williams, Martin Brand, Nimmisha Govind and Nirti Maharaj for being the first cohort of Carnegie PhD Fellows to graduate.

Professor Lynn Morris for being second runner-up in the Women in Science award.

Professor Viness Pillay (Director: Wits Advanced Drug Delivery Platform) for being awarded the 2013 Vice-Chancellor’s Research Award.

Professor Judy Bruce (Head of School of Therapeutic Sciences) for being inducted as a Fellow of the Academy of Nursing in South Africa (ANSA) in recognition of her National and International contribution to nursing education and scholarship.

Professor Lynn Morris and her team for receiving funding for the MRC Flagship project.

Professor Paul Manger (School of Anatomical Sciences) for being elected as a Fellow of the Royal Society of South Africa.
2. FACULTY RESEARCH OFFICE

2.1. Remit of the Faculty Research Office (FRO)

The aim of the FRO is to operationalise the strategic goals of the Faculty. The strategic research and postgraduate goals centre around increased outputs of publications, increased quality of publications (ISI journals) increased throughputs of postgraduate students and support (financial where possible, strategic collaborations and courses) for all researchers.

2.2. HSRO Staff

Tenured positions

1. Prof B Kramer: Assistant Dean: Research and Postgraduate Support (70%) – from April 2008.
5. Associate Professor T. Chirwa: Faculty Biostatistician. This post was made permanent in 2011 and resides in the School of Public Health.

Contract positions

1. Mrs. Suretha Erasmus: Strategic Projects Assistant to the Dean and Assistant Dean: Research – from February 2013.
2. Dr Aceme Nyika: Faculty Research Co-ordinator – from April 2013
3. Associate Professor E. Libhaber: Research Co-coordinator, School of Clinical Medicine (Seconded to FRO).

We have shared our experiences by training NRF interns in research management and thus contributing to capacity development in this area. Over the period 2008-2013, we have trained four interns, two of whom were placed in research administrator’s posts immediately after their internship. The third has found employment as a laboratory technician.

2.3. Faculty Research Committee (FRC) and Task Groups

The FRC met every two months during 2012 under the Chairmanship of Professor B Kramer. Minutes of the meetings can be obtained on request from Mr Moraba Meela.

Reports from Task Groups

The Faculty Research Committee (FRC) Task Groups have once again had an exceedingly busy year. The Chairman of the FRC Committee extends her gratitude to the Chairmen of the Task Groups and their committee members for the hard work undertaken on behalf of the Faculty in 2013.

In 2013, the Task Groups and their Chairpersons were as follows:

Research Entities: Professor S Norris
Individual Research Grants: Professor J.M Pettifor
Conference Travel: Professor T Coetzer
2.3.1. Research Entity Task Group

2.3.1.1. Entity Annual Reports

The annual reports of all the Research Entities were received, and a meeting was held to review the reports. Many of the reviewed reports were exceptional with impressive research outputs. Letters of congratulations were sent to the entity leaders and four of these entities were honoured at the Research Awards dinner.

In order to facilitate communication between entities and their affiliated Departments and Schools, a series of meetings were initiated. Members of the Entity Task Group met with the respective Research Entity Directors and their Heads of Departments and Schools. These meetings were found to be most useful and constructive for all involved.

2.3.1.2. New Applications

Professor Viness Pillay submitted an application for a new research unit - Wits Advanced Drug Delivery Platform (WADDP). This application was approved by the FRC and will be considered by the URC in early 2014.

Professors Jerome Loveland and Ashraf Coovadia have both submitted preliminary applications for new research units. Feedback has been given on these applications and it is anticipated that the final applications will be received and reviewed by the Entity Task Group early in 2014.

2.3.1.3. Review of Entities

2.3.1.3.1. Soweto Cardiovascular Research Unit (SCRU) Quinquennial Review

This QQR of this entity was scheduled for 2013. The QQR report and motivation for the continuation of SCRU as a research programme was received. The URC will schedule the review early in 2014.

2.3.1.3.2. MRC/NHLS/Wits Respiratory and Meningeal Pathogens Research Unit (RMPRU) Quinquennial Review

This entity was reviewed in 2013 by the MRC. A glowing report was submitted by the MRC and RMPRU has been renewed for a further five years of funding.

2.3.1.3.3. Centre for Health Policy (CHP) Quinquennial Review (QQR)

This entity was reviewed by the MRC in 2013. We still await a report and final outcome of the QQR.
2.3.1.3.4. Wits Reproductive Health and HIV Institute (WRHI) Scientific Advisory Board meeting

On the 28th November 2013 the annual Scientific Advisory Board chaired by Professor Feldman convened. Professor Rees and colleagues of WRHI were congratulated for their outstanding work during 2013. The meeting succeeded in elucidating the complex nature of WRHI and challenges faced by the Institute; recommendations and possible solutions were discussed.

2.3.1.3.5. Wits Research Institute for Malaria (WRIM)

On the 28th November 2013 the Wits Research Institute for Malaria was launched and it’s first annual Scientific Advisory Board chaired by Professor Alan Rothberg was held on the 29th November 2013.

2.3.1.4. Administration of the Research Entities Documents

The FRC website was updated and all of the updated documentation pertaining to the research entities was placed on the web site. Following the review of the entity annual reports, these reports were placed on a sharepoint web-site so that all FRC members could have accessibility to the annual reports should they wish to read them.

2.3.1.5. Current FRC/URC/MRC approved Entities in the Faculty of Health Sciences

In 2013, there were 18 recognized Research Entities in the FHS. The Entities, their Directors, cycles and their level of recognition are depicted in Table 1.

<table>
<thead>
<tr>
<th>Research Entity</th>
<th>School/Dept</th>
<th>Status</th>
<th>Recognition Cycle</th>
<th>Director/Leader</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Antiviral Gene Therapy Research Unit</td>
<td>Pathology/ Molecular Medicine &amp; Haematology</td>
<td>FRC/URC Unit</td>
<td>2010 until 2014</td>
<td>Prof P. Arbuthnot <a href="mailto:Patrick.Arbuthnot@wits.ac.za">Patrick.Arbuthnot@wits.ac.za</a> 717 2365</td>
</tr>
<tr>
<td>2. Bone Research Laboratory Unit</td>
<td>Physiology</td>
<td>FRC/URC Unit</td>
<td>2013 until 2017</td>
<td>Prof U. Ripamonti <a href="mailto:Ugo.Ripamonti@wits.ac.za">Ugo.Ripamonti@wits.ac.za</a> 717 2300</td>
</tr>
<tr>
<td>3. Brain Function Research Group</td>
<td>Physiology</td>
<td>FRC/URC Group</td>
<td>2013 until 2017</td>
<td>Prof A. Fuller <a href="mailto:Andrea.Fuller@wits.ac.za">Andrea.Fuller@wits.ac.za</a> 717 2359</td>
</tr>
<tr>
<td>4. Carbohydrate &amp; Lipid Metabolism Research Unit</td>
<td>Clinical Medicine/Internal Medicine</td>
<td>FRC/URC Unit</td>
<td>2010 until 2014</td>
<td>Prof F Raal <a href="mailto:Frederick.Raal@wits.ac.za">Frederick.Raal@wits.ac.za</a> 488 3538</td>
</tr>
<tr>
<td>5. Cardiovascular Pathophysiology and Genomics Research Unit</td>
<td>Physiology</td>
<td>FRC/URC Unit</td>
<td>2010 until 2014</td>
<td>Prof G. Norton <a href="mailto:Gavin.Norton@wits.ac.za">Gavin.Norton@wits.ac.za</a> 717 2354</td>
</tr>
<tr>
<td>6. Clinical HIV Research Unit</td>
<td>Clinical Medicine/ Internal Medicine/WHC</td>
<td>FRC/URC Unit</td>
<td>2010 until 2014</td>
<td>Prof I. Sannen <a href="mailto:IIsanne@witshealth.co.za">IIsanne@witshealth.co.za</a> 276 8800/082 547 5225</td>
</tr>
<tr>
<td>7. Developmental Pathways for Health Research</td>
<td>Clinical Medicine/</td>
<td>MRC/URC Unit</td>
<td>2011 until 2015</td>
<td>Prof S. Norris <a href="mailto:Shane.Norris@wits.ac.za">Shane.Norris@wits.ac.za</a></td>
</tr>
<tr>
<td>Unit</td>
<td>Paediatrics</td>
<td>933 1122</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------</td>
<td>----------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Effective Care Research Unit</td>
<td>Clinical Medicine/ Obstetrics &amp; Gynaecology</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
|                                                                     | FRC/URC Unit                                                               | 2010 until 2014 | Prof G.J Hofmeyr
Justhof@gmail.com
083 280 9402 |
|                                                                     |                                                                           |          |
|                                                                     | MRC/URC Group                                                             | 2009 until 2013 | Dr J. Goudge
jane.goudge@gmail.com
717 3425/ 489 9931 |
|                                                                     |                                                                           |          |
| 10. Hepatitis Virus Diversity Research Programme                     | Clinical Medicine/ Internal Medicine                                      |          |
|                                                                     | FRC Programme                                                            | 2013 until 2017 | Prof A. Kramvis
Anna.Kramvis@wits.ac.za
488 3100 |
|                                                                     |                                                                           |          |
| 11. Perinatal HIV Research Unit                                      | Clinical Medicine/ Paediatrics                                           |          |
|                                                                     | FRC/ URC Unit                                                            | 2010 until 2014 | Prof G. Gray
gray@pixie.co.za
989 9700 |
|                                                                     |                                                                           |          |
| 12. Pulmonary Infection Research Unit                               | Clinical Medicine/Internal Medicine                                      |          |
|                                                                     | FRC/URC Unit                                                             | 2011 until 2015 | Prof C. Feldman
Charles.Feldman@wits.ac.za
488 3840 |
|                                                                     |                                                                           |          |
| 13. Respiratory & Meningeal Pathogens Research Unit                  | Pathology/ NICD                                                           |          |
|                                                                     | MRC/URC/NHLS Unit                                                        | 2009 until 2014 | Prof S. Madhi
ShabirM@nicd.ac.za
489 8723 |
|                                                                     |                                                                           |          |
| 14. Rural Public Health and Health Transitions Research Unit (Agingcourt)| Public Health                                                            |          |
|                                                                     | MRC/URC Unit                                                             | 2013 until 2017 | Prof S.P Tollman
Stephen.Tollman@wits.ac.za
717 2085 |
|                                                                     |                                                                           |          |
| 15. Soweto Cardiovascular Research Unit                             | Clinical Medicine/ Internal Medicine                                    |          |
|                                                                     | FRC/URC Unit                                                             | 2011 until 2013 | Prof K. Sliwa
Sliwa-hahnleka-mdh-africa.org
933 8197 |
|                                                                     |                                                                           |          |
| 16. Systematic Review Initiative for Evidence-based Minimum Intervention in Dentistry (SYSTEM)| Oral Health Sciences                                                  |          |
|                                                                     | FRC Programme                                                            | 2012 until 2016 | Prof V. Yengopal
Veerasingam.Yengopal@wits.ac.za
7172594 and
Dr S. Mickenautsch
neem@global.co.za
7172240 |
|                                                                     |                                                                           |          |
| 17. Wits Reproductive Health and HIV Institute (WRHI)               | Clinical Medicine                                                        |          |
|                                                                     | FRC/URC Institute                                                        | 2010 until 2014 | Prof H. Rees
hrees@wrhi.ac.za
933 1228 |
|                                                                     |                                                                           |          |
| 18. Wits Research Institute for Malaria (WRIM)                      | Pathology/ Therapeutic Sciences                                           |          |
|                                                                     | FRC/URC Institute                                                        | 2013 until 2017 | Prof M. Coetzee
Maureenc@nicd.ac.za
386 6480
Prof T. Coetzer
Theresa.Coetzer@nhls.ac.za
0117172419 |
Faculty of Health Sciences Research Entities 2013 Annual Report review

Seventeen of the eighteen Faculty entities submitted their 2013 Annual Reports for review. The Bone Research Laboratory is the only unit which failed to submit a report citing lack of funds which resulted in no administrative support as their reason for non-submittion. This matter was discussed at the FRC and the Head of School of Physiology, Professor David Gray, was requested to address this issue with Professor Ugo Ripamonti (Director: Bone Research Laboratory).

The overall reviews of the Annual Reports of the other seventeen entities were very positive with the entities showing improvement in their research outputs, most notably in publications and postgraduate student throughput. The FRC Entities Task Group was very encouraged that the seventeen entities have addressed many of the comments and recommendations of the previous reviews in their recent reports.

Detailed annual reports of each Entity are available from the HSRO on request.

2.3.2. Individual Research Grants Task Group

The purpose of the task group is to allocate research funds to individual applicants on behalf of the Faculty Research Committee on an annual basis. The funds that are allocated are derived from grants from the Faculty Research Committee and from a number of legacies and funds held for this purpose in the University Foundation. The latter include the Medical Faculty Research Endowment Fund and The Iris Ellen Hodges Cardiovascular and Stress Funds. For several years (2008-2011) specific funding were also been obtained annually from URC to assist MMed/MDent candidates with their research, and Funds from the FRC have been topped up by a grant from the dividends of the Wits Health Consortium.

<table>
<thead>
<tr>
<th>Funds</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRC</td>
<td>479 000</td>
<td>536 000</td>
<td>525 600</td>
<td>500 000</td>
<td>500 000</td>
<td>500 000</td>
</tr>
<tr>
<td>MFREF</td>
<td>357 679</td>
<td>342 700</td>
<td>424 000</td>
<td>362 513</td>
<td>335 024</td>
<td>333 763</td>
</tr>
<tr>
<td>I Hodges CVS</td>
<td>156 500</td>
<td>32 000</td>
<td></td>
<td>92 273</td>
<td>157 486</td>
<td>185 000</td>
</tr>
<tr>
<td>I Hodges Stress</td>
<td>73 250</td>
<td>140 000</td>
<td></td>
<td></td>
<td>200 000</td>
<td></td>
</tr>
<tr>
<td>MMed/MDent</td>
<td>336 100</td>
<td>375 230</td>
<td>391 400</td>
<td>200 000</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td>1 402 529</td>
<td>1 425 930</td>
<td>1 433 273</td>
<td>1 219 999</td>
<td>1 020 024</td>
<td>1 033 763</td>
</tr>
<tr>
<td>No of applicants</td>
<td>111</td>
<td>135</td>
<td>154 (Jan)</td>
<td>134 (Jan)</td>
<td>176</td>
<td>194</td>
</tr>
</tbody>
</table>

Applications are called for towards the end of the year preceding that for which the allocations are made. In several years, applications have also called for later in the year, so as to allow new staff members and registrars to make application in the middle of the year, however this has not been possible recently due to the large number of applicants at the beginning of the year and the small amount of funds available. The task group is made up of approximately 35-40 staff members drawn from as diverse a range of disciplines as possible, so as to be able to review applications from all disciplines. Each reviewer is likely to be asked to review approximately 15 applications as each application is reviewed by two primary reviewers. The Chairman of the Committee would like to take this opportunity to thank all the reviewers for their dedication and hard work in helping to ensure that the grants are distributed fairly.
New and junior researchers (postgraduate students) are primarily funded through the Medical Faculty Research Endowment Fund with amounts which vary between a maximum of R5000 for Masters projects and R8000 for PhD proposals. New members of staff (those who have not applied for funding for more than three years) or staff members starting a research career are support mainly from the FRC grant to a maximum of R12000.

2.3.3. Conference Travel Task Group

2013 BUDGET

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of applications received</td>
<td>73</td>
</tr>
<tr>
<td>Total funding requested by applicants</td>
<td>R 1 409 514</td>
</tr>
<tr>
<td>Total spent</td>
<td>R 537 500 (99.4% of total budget)</td>
</tr>
</tbody>
</table>

Total number of applicants funded

- Senior researchers: 19
- Emergent researchers: 32

Local conference: 17 (R 75 500)
Europe and Middle East: 16 (R 192 000)
North America, Asia, Australia: 18 (R 270 000)

Total number of applications rejected: 14

Rejection rate: 19%

Reasons:
- No publication from previously funded conference (4)
- Late applications (3), Deadline for submission is 6 weeks prior to the conference
- Abstract already published >3 months before conference (3)
- Not full time/50% part time Wits staff member (1)
- Ineligible since received funds for an international conference in 2012 (1)
- Not presenting at the conference (1)
- Incomplete application and outstanding information not submitted (1)

Total number of applications withdrawn / part of group application: 8 (11%)

Applications were reviewed on an ad hoc basis.
The electronic submission and committee review system continues to work very well.

No changes were made to the travel application guidelines and the application form that had been revised in November 2012.

I would like to thank the members of my task group, Profs Viness Pillay, Maureen Coetzee, Jerome Loveland and Dr Witness Mudzi for their time in reviewing the applications. I appreciate their input and wise council in making funding decisions. I would also like to extend my sincere thanks to Moraba Meela for his efficient administrative assistance and support.
2.3.4. Faculty Research Prize Task Group

Nine publications were received for consideration for the award. One was not eligible since it had not been published yet.

The Cleaton-Jones/Meyers parameters were applied to the remaining eight publications and scores were generated. The top publications were evaluated by all the committee members, except for Prof Lynn Morris, since she was co-author on one of the publications. A unanimous decision was reached by the remaining committee members.

The 2012 Faculty Research Award was presented to Dr Penny Moore from NICD for a publication in Nature Medicine entitled: “Evolution of an HIV glycan-dependant broadly neutralizing antibody epitope through immune escape”.

The Faculty’s Research Prize for 2013 was awarded to Mr Kurt Wibmer from the School of Pathology, for his publication entitled “Viral Escape from HIV-1 Neutralizing Antibodies Drives Increased Plasma Neutralization Breadth through Sequential Recognition of Multiple Epitopes and Immunotypes”, published in the PLOS Pathogens journal. Mr Wibmer’s research work was supervised by Dr Penny Moore who was the Faculty’s 2012 Research Prize winner!

I would like to thank my committee members (Profs John Pettifor and Saraladevi Naicker and Drs Aletta Esterhuysen and Witness Mudzi) for their input in evaluating the publications. I would also like to thank Moraba Meela for his efficient administrative assistance.

2.3.5. Research Day Task Group and Postgraduate Expo

There was no Research Day in 2013 as Research Day occurs biennially. The next Research Day will be on the 17th September 2014. Preparations for the 2014 Research Day are underway.

2.3.6. Task Group on Research Entity Productivity

The group was established to investigate and develop a productivity index that would assist in relating FRC allocation of personnel budgets to research entities and possibly utilize the information in future allocations and re-allocations. In this exercise it should be noted that:

- the index is not to be regarded as a direct indication of academic excellence of the entities
- the index is independent of the review processes routinely applied to entities and has no bearing on the outcome of such reviews
- at issue is the fundamental problem of salaries being increased annually at a rate that is higher than that of the URC allocation to the Faculty. This results in a progressive erosion of the amount available to the FRC for travel, grants and RINC allocations. The productivity exercise facilitates an assessment of current funding (FRC and other) vs. entity outputs. As a result we are able to initiate a conversation around cost/budget shifting and sharing

Please see previous annual reports for the breakdown of the weighting and application of the score. The intention of this exercise is to monitor productivity, maintain posts, admittedly work towards part of the funding burden being put onto the entities, but in return redistribute ‘savings’ back to the productive entities via enhanced publication and graduation Rands/unit.
2013 Rank vs. Capped funding 2011-13

The Table below shows the 2009-11 ranking of the entities and the capped salary contributions for the triennium. Particular note should be taken of the following:

- While productive, two entities receive funding that appears to be disproportionate to the overall picture
- HVDRU has made significant strides, and does not receive a salary contribution from the FRC
- BRU, which is currently under threat in terms of future funding, did not provide a return for 2009-2011

<table>
<thead>
<tr>
<th>ENTITY</th>
<th>2009-11 SCORE</th>
<th>2013 FRC FUNDING (Rand)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agincourt</td>
<td>660</td>
<td>338 189</td>
</tr>
<tr>
<td>BFRG</td>
<td>651</td>
<td>666 999</td>
</tr>
<tr>
<td>CPGRU</td>
<td>450</td>
<td>188 708</td>
</tr>
<tr>
<td>AGTRU</td>
<td>448</td>
<td>165 266</td>
</tr>
<tr>
<td>PIRU</td>
<td>335</td>
<td>150 000</td>
</tr>
<tr>
<td>HVDRU</td>
<td>303</td>
<td>-</td>
</tr>
<tr>
<td>CHP</td>
<td>278</td>
<td>389 509</td>
</tr>
<tr>
<td>CLMRU</td>
<td>261</td>
<td>334 368</td>
</tr>
<tr>
<td>MERU</td>
<td>189</td>
<td>-</td>
</tr>
<tr>
<td>B to 20/ DPHRU</td>
<td>186</td>
<td>684 631</td>
</tr>
<tr>
<td>CHRU</td>
<td>171</td>
<td>-</td>
</tr>
<tr>
<td>RHRU</td>
<td>166</td>
<td>-</td>
</tr>
<tr>
<td>RMPRU</td>
<td>151</td>
<td>352 500</td>
</tr>
<tr>
<td>ECRU</td>
<td>103</td>
<td>165 451</td>
</tr>
<tr>
<td>SCRU</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>BRU</td>
<td>-</td>
<td>162 758</td>
</tr>
</tbody>
</table>

Of note is that the process of capping salary resulted in >R800 000 per annum being available for redistribution to researchers (± 10% of annual FRC allocation)
**Task Team Proposals:**

Recognising that the funds under discussion are specifically motivated for and awarded for personnel (and in all instances specific posts/individuals) the recommendations are:

- On the basis of the 3-year history provided by research entities there continues to be a discrepancy between outputs and the levels of salary contributions.
- Poorly-funded but highly-productive entities or newly-established entities should be considered for funding. In this regard the HVDRU should be funded for the next triennium.
- As of 1 January 2014, allocations to existing entities should be capped at:
  - R550 – R600 000 for the top recipients
  - R350 000 for those in the midrange
  - R150-R200 000 for those at the lower levels
- The next cycle should also look at level of funding vs. ranking i.e. entities consistently at the lower level of productivity should not continue to receive higher levels of funding.
- The FRC should make a particular point of acknowledging the productivity of WHC entities that receive no salary support from the FRC.
- Each 3-year cycle will require a contract/agreement between the entities and the FRC accepting the personnel budget for the cycle and agreeing to it being revised for the subsequent cycle on the basis of the index.

**2.3.7. FRC Advisory Board**

The FRC advisory Board met as required. No major changes were initiated in 2013.

**2.3.8. Research Budget Task Group**

The FRC received a budget of **R9 863 231** from the URC in 2013. There was an increase of R804 165.00 from 2012.

The distribution of the FRC budget according to category is illustrated in Fig. 1. The following allocations were made:

1. FRC posts: R3 598 379.00 (36.5% cf 39.72% in 2012 and 41.6% in 2011)
2. RINC: R5 124 000.00 (51.95% cf 51.55% in 2012 and 46.8% in 2011)
3. Individual grants: R 500 000.00
4. Congress Travel R 500 000.00
5. HSRO: 100 000.00
6. Sundry: 40 852.00
Total R9 863 231.00
In addition, **Faculty Specific Grants** made by the URC included:

1. Centre of Excellence in TB: R230 000.00
2. COE TB – contribution to Director’s salary: R250 000.00
3. COE TB – match on MRC funds: R 50 000.00
4. Bone Research Unit: contribution to Director’s salary: R500 000.00

The RINC unit in 2013 was **R12 000**. This was an increase from R10 000 in 2012 and demonstrated the FRC Budget Committees commitment to provide increased funding to researchers. The distribution of RINC by School is indicated in Table 3 below.

**Table 3**: 2013 RINC distribution by School

<table>
<thead>
<tr>
<th>Schools</th>
<th>RINC Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomical Sciences</td>
<td>RINC distributed to individuals</td>
</tr>
<tr>
<td>Clinical Medicine</td>
<td>School top sliced RINC before distributing to individuals</td>
</tr>
<tr>
<td>Oral Health Sciences</td>
<td>School top sliced RINC then distributed to departments not individuals</td>
</tr>
<tr>
<td>Pathology</td>
<td>RINC distributed to individuals</td>
</tr>
<tr>
<td>Physiology</td>
<td>RINC distributed to individuals</td>
</tr>
<tr>
<td>Public Health</td>
<td>School top sliced RINC before distributing to individuals</td>
</tr>
<tr>
<td>Therapeutic Sciences</td>
<td>School top sliced RINC before distributing to individuals</td>
</tr>
</tbody>
</table>
“Capping” the amount of the FRC budget provided to Entities for posts has also contributed to the increase in RINC. In a detailed analysis undertaken by the HSRO for the DVC: Research in 2013 (a copy of this report is available on request) on the 11 posts supported by the FHS FRC, it was shown that the University secures a considerable multiplier effect in terms of the finances which these Entities raise from other sources to support their research and capacity development. In addition they make considerable contributions to policy and community engagement as well. In 2012 alone, it was shown that in contrast to the R3.6 million provided by the FRC to the 11 entity posts, approximately R123 162 926.00 had been raised by the 11 entities. This included funding from local and international funders.

Funding to the FRC from the URC is constrained as the URC budget from the Council remains at ~4.1% and not 6% as agreed by Council some years ago.

The WHC income on research alone was **R604 383 000.00**.

The WHC Dividend to the Faculty in 2013 was **R3.5 million** (see the final budget Table 5)

### 2.3.8.1. Faculty Research – Various Budgets

#### 2.3.8.1.1. Rollover

An amount of **R486 447.00** from the rollover account was provided to the HSRO in 2013. Table 3 below illustrates the distribution of the funds.

**Table 4: Distribution of the rollover funds 2013**

<table>
<thead>
<tr>
<th>Project</th>
<th>Strategic Value</th>
<th>Budgeted Amount</th>
<th>Total Spent</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRC Individual Grants</td>
<td>Large number of applications; limited funding available</td>
<td>100 000</td>
<td>100 000</td>
</tr>
<tr>
<td>Bioinformatics system</td>
<td>Setting up Medical Bioinformatics system for Faculty. No SPARC funding in 2013. Thus used rollover-software development (student assistance); REDCap security; Dr Klipin flight to Vanderbilt for training</td>
<td>130 000</td>
<td>109 144.52</td>
</tr>
<tr>
<td>Vanderbilt visits</td>
<td>Cementing collaborations with Vanderbilt. Contribution to visit of staff</td>
<td>40 000</td>
<td>40 000</td>
</tr>
<tr>
<td>Category</td>
<td>Type and strategic function</td>
<td>Budget</td>
<td>Spent</td>
</tr>
<tr>
<td>----------</td>
<td>-----------------------------</td>
<td>--------</td>
<td>-------</td>
</tr>
<tr>
<td><strong>Equipment</strong></td>
<td>Equipment (minor) Smaller pieces of research equipment which are still strategically important but often cannot be obtained off existing grants</td>
<td>1 240 000</td>
<td>1 212 941.08</td>
</tr>
<tr>
<td></td>
<td>Start-up funds for new staff (R30 000 x16) (competitive basis if there are more than 16 applicants) Supports new staff until they are able to apply for funding elsewhere</td>
<td>360 000</td>
<td>353 900</td>
</tr>
</tbody>
</table>

2.3.8.1.2. WHC Dividend 2013 – R3 500 000.00 was available to the Faculty in 2013.

Table 5: WHC Dividend Budget 2013
<table>
<thead>
<tr>
<th>see 1.3.1.8.2a: Research</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>New staff start-up funds</td>
<td>2013 list</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Enhancing throughput &amp; publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pages charges for High Impact factor journals and top-up for open access online journals</td>
</tr>
<tr>
<td>Improving quality of research by encouraging publication in top journals</td>
</tr>
<tr>
<td>95 948</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>STATA</td>
<td>110 676</td>
</tr>
<tr>
<td>Writing retreats for staff members (additional)</td>
<td>200 000</td>
</tr>
<tr>
<td>Increase number of publications in ISI journals</td>
<td>198 776</td>
</tr>
<tr>
<td>Writing dyads for postgraduate students</td>
<td>330 000</td>
</tr>
<tr>
<td>Increase throughputs and publications: Family Medicine and Psychiatry</td>
<td>330 602.00</td>
</tr>
<tr>
<td>Seed funding for projects (competitive basis) – R50 000 per project x 6</td>
<td>325 000</td>
</tr>
<tr>
<td>Excellent projects exist in Faculty which cannot be initiated without some funding</td>
<td>300 000</td>
</tr>
<tr>
<td>see 1.3.1.8.2b Research: seed funding 2013 list</td>
<td></td>
</tr>
<tr>
<td>Biostatistical assistance (one-on-one assistance in PG Hub for staff and students)</td>
<td>70 000</td>
</tr>
<tr>
<td>Increase throughputs and assists with output of publications</td>
<td>48 400</td>
</tr>
<tr>
<td>M.Med throughput – funding provided to three clusters to facilitate the writing up of M.Meds</td>
<td>240 000</td>
</tr>
<tr>
<td>Incentive for Postdocs on ISI published articles - R10 000 per paper - increase number of publications</td>
<td>240 000</td>
</tr>
<tr>
<td>Support and training for postdocs and emergent researchers in dealing with the media (Clive Simkins)</td>
<td>180 000</td>
</tr>
<tr>
<td>15 000</td>
<td></td>
</tr>
<tr>
<td>Research technician (50%) to assist at CH Baragwanath Hospital Faculty Research Lab</td>
<td>15 000</td>
</tr>
<tr>
<td>Support Postgraduates to Congresses - Increases visibility; encourages publication</td>
<td>95 000</td>
</tr>
<tr>
<td>Support staff to Congress (additional for Prof Coetzers committee)</td>
<td>95 000</td>
</tr>
<tr>
<td>Mini Postdocs (writing up of papers from</td>
<td>160 000</td>
</tr>
<tr>
<td>80 000</td>
<td>166 000</td>
</tr>
<tr>
<td>80 000</td>
<td></td>
</tr>
</tbody>
</table>
## 2.3.1.8.2a New Staff Support 2013 (see Table 5: WHC Dividend 2013)

The following new staff were supported from this budget: Ms T. Wainstein (Human Genetics), Ms W. van der Spuy, Ms T. Augustine, Ms E. Hutchins, Dr P. Quinney and Dr R. Ndou (Anatomical Sciences), Mr S. Thwale (Public Health), Ms Jay, Ms N. Comley-White, Ms N. Benjamin (Therapeutic Sciences), Dr S. Moena (Oral Health Sciences), Dr T. Pillay (Clinical Medicine). In addition, on special appeal, funding was also provided from this budget for project needs to the following: Professor L. Baldwin-Ragavan, Dr D. Kruger (Clinical Medicine), Dr E. Pitout and Dr M. Kaka (Oral Health Sciences), Dr H. Myezwa (Therapeutic Sciences), Dr A. Wadley (Physiology).

## 2.3.1.82b Seed Funding 2013 (see Table 5: WHC Dividend)

Five staff were provided with R50 000 each for projects which were submitted under this category of the WHC Dividend. The recipients of the seed funding are recorded in Table 5:

### Table 6: Seed funding to staff in 2013

<table>
<thead>
<tr>
<th>Name</th>
<th>School</th>
<th>Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr R.C. Marshall</td>
<td>Pathology</td>
<td>Determining the prevalence of Parvovirus B19 in South African blood donors</td>
</tr>
<tr>
<td>Dr C. Martins-Furness</td>
<td>Therapeutic Sciences</td>
<td>Plasmodium falciparum kinase (PfcGAK) and its possible use as a drug target in malaria therapy</td>
</tr>
<tr>
<td>Name</td>
<td>Department/School</td>
<td>Budget</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-------------------</td>
<td>----------</td>
</tr>
<tr>
<td>Ms C. Khupe</td>
<td>CHSE</td>
<td>R75 000</td>
</tr>
<tr>
<td>Ms J. Dietrich</td>
<td>Clinical Medicine</td>
<td>R75 000</td>
</tr>
<tr>
<td>Ms N. Cerutti</td>
<td>Pathology</td>
<td>R75 000</td>
</tr>
<tr>
<td>Mr O. Olaleye</td>
<td>School of Oral Health Sciences (Anatomical; Sciences)</td>
<td>R50 000</td>
</tr>
</tbody>
</table>

### 2.3.9. Research Major Equipment

Major equipment to the Faculty was funded jointly by the URC and the NRF National Equipment Programme (NEP) (Table 7) in 2013.

**Table 8:** Major Equipment - URC CAPEX 2013

<table>
<thead>
<tr>
<th>Name</th>
<th>School</th>
<th>Equipment</th>
<th>Award Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Ingrid Avidon</td>
<td>Physiology</td>
<td>DXA scanner</td>
<td>R 500 000</td>
</tr>
</tbody>
</table>
### 2.3.10. Research Minor Equipment

Minor equipment was funded from a number of sources to individuals across the Faculty in 2013 (Tables 8a and b)

**Table 9a: URC CAPEX Minor Equipment Call –matched funding from Faculty - 2013**

<table>
<thead>
<tr>
<th>NAME</th>
<th>SCHOOL</th>
<th>EQUIPMENT</th>
<th>COST</th>
<th>Funding from FRO (WHC Div) or Department</th>
<th>Funding from URC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Ans Baeyens</td>
<td>Clinical Medicine</td>
<td>Nanodrop 2000 UV/VIS spectrophotometer</td>
<td>R 125 952</td>
<td>Own funding as matched</td>
<td>R 63 000</td>
</tr>
<tr>
<td>Dr Jacqueline Brown</td>
<td>Pathology</td>
<td>QUBIT 2.0 Fluorometer</td>
<td>R 27 577</td>
<td>Own funding as matched</td>
<td>R 13 000</td>
</tr>
<tr>
<td>Professor Maureen Coetzee</td>
<td>Pathology</td>
<td>Qiagen TissueLyser II bead mill</td>
<td>R 125 013</td>
<td>Own funding as matched</td>
<td>R 63 000</td>
</tr>
<tr>
<td>Dr Raquel Duarte</td>
<td>Clinical Medicine</td>
<td>Thermo -50°C to-80°C chest freezer</td>
<td>R 265 828</td>
<td>R 75 000</td>
<td>R 75 000</td>
</tr>
<tr>
<td>Professor Andrea Fuller</td>
<td>Physiology</td>
<td>Hemox-Analyzer</td>
<td>R 272 000</td>
<td>R 50 000</td>
<td>R 136 000</td>
</tr>
<tr>
<td>Dr Guinevere Gordon</td>
<td>Pathology</td>
<td>Ultra low freezer</td>
<td>R 124 476</td>
<td>R 62 000</td>
<td>R 71 000</td>
</tr>
<tr>
<td>Dr Robyn Hetem</td>
<td>Physiology</td>
<td>Thermal conductance and radiant heat load measuring equipment</td>
<td>R 214 664</td>
<td>R 107 000</td>
<td>R 107 000</td>
</tr>
<tr>
<td>Professor Shabir Madhi</td>
<td>Pathology</td>
<td>Ultrapure water filtration unit</td>
<td>R 59 156</td>
<td>R 11 800</td>
<td>R 30 000</td>
</tr>
<tr>
<td>Dr Aletta Millen</td>
<td>Physiology</td>
<td>SphygmoCor device</td>
<td>R 295 260</td>
<td>R 97 600</td>
<td>R 148 000</td>
</tr>
<tr>
<td>Dr Julitha Molepo</td>
<td>Oral Health Sciences</td>
<td>Ultrapure water filtration unit</td>
<td>R 47 189</td>
<td>R 13 500</td>
<td>R 24 000</td>
</tr>
<tr>
<td>NAME</td>
<td>School</td>
<td>Equipment</td>
<td>Contribution</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-----------------------</td>
<td>----------------------------------------------------</td>
<td>----------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professor Maureen Coetzee</td>
<td>Pathology</td>
<td>MIR 154 - Panasonic cooled incubator - 123L</td>
<td>R 25 000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professor Thereza Coetzer</td>
<td>Pathology</td>
<td>Olympus DP72 camera</td>
<td>R 20 000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dr Carol Crowther</td>
<td>Pathology</td>
<td>Automated microplate washer</td>
<td>R 25 000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dr Mignon du Plissis</td>
<td>Pathology</td>
<td>Apple iMac computer</td>
<td>R 15 000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dr Colleen Flanagan</td>
<td>Physiology</td>
<td>PCR machine</td>
<td>R 48 500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professor Bavesh Kana</td>
<td>Pathology</td>
<td>Sonicator/homogenizer with sound proof box</td>
<td>R 42 950</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dr Richard McFaraland</td>
<td>Physiology</td>
<td>star-oddi micro-logging system</td>
<td>R 47 600</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dr Joanne McVeigh</td>
<td>Physiology</td>
<td>Respironics actical accelerometer</td>
<td>R 30 000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dr Colin</td>
<td>Clinical Medicine</td>
<td>Ice maker machine</td>
<td>R 39 500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dr Sharon Moeno</td>
<td>Oral Health Sciences</td>
<td>airstream horizontal laminar flow clean bench</td>
<td>R 42 000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 9 b: Faculty Minor Equipment (second tranche) – 2013 (WHC dividend)
<table>
<thead>
<tr>
<th>Dr Julitha Molepo</th>
<th>Oral Health Sciences</th>
<th>Sub-Cell Model 96 Cell and PowerPac Basic Power Supply</th>
<th>R 20 566</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Christopher Murray</td>
<td>Physiology</td>
<td>Hobo weather station</td>
<td>R 31 300</td>
</tr>
<tr>
<td>Professor Shane Norris</td>
<td>Clinical Medicine</td>
<td>UPS system</td>
<td>R 26 200</td>
</tr>
<tr>
<td>Professor Frederick Raal</td>
<td>Clinical Medicine</td>
<td>ELx800 microplate reader</td>
<td>R 55 000</td>
</tr>
<tr>
<td>Professor Mohamed Tikly</td>
<td>Clinical Medicine</td>
<td>Research equipment</td>
<td>R 83 000</td>
</tr>
<tr>
<td>Professor Angela Woodiwiss</td>
<td>Physiology</td>
<td>Small bench top centrifuge</td>
<td>R 19 419</td>
</tr>
</tbody>
</table>

**Total** | **R 571 035**

### 2.3.11. MRC Self-initiated Grants for new and renewals 2013

**Table 10**: MRC Self-initiated Grants for new and renewals 2013

<table>
<thead>
<tr>
<th>Title</th>
<th>Initials</th>
<th>Surname</th>
<th>Department/School</th>
<th>Start/ and End</th>
<th>Unit/Individual</th>
<th>Grants (R)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr</td>
<td>J</td>
<td>Goudge</td>
<td>Centre for Health Policy, Public Health</td>
<td>2013-2013</td>
<td>Unit</td>
<td>1 176.012</td>
</tr>
<tr>
<td>Prof</td>
<td>S</td>
<td>Madhi</td>
<td>Respiratory and Meningeal Pathogens Research Unit, Pathology</td>
<td>2013-2013</td>
<td>Unit</td>
<td>955.542</td>
</tr>
<tr>
<td>Prof</td>
<td>SA</td>
<td>Norris</td>
<td>Developmental Pathways for Health Research Unit, Clinical Medicine</td>
<td>2013-2013</td>
<td>Unit</td>
<td>1 028.79</td>
</tr>
<tr>
<td>Prof</td>
<td>SM</td>
<td>Tollman</td>
<td>Rural Public Health and Health Transitions Research Unit, Public Health</td>
<td>2013-2013</td>
<td>Unit</td>
<td>889.711</td>
</tr>
<tr>
<td>Prof</td>
<td>PB</td>
<td>Arbuthnot</td>
<td>Molecular Medicine and Haematology, Pathology</td>
<td>2013-2013</td>
<td>Individual</td>
<td>200 000</td>
</tr>
<tr>
<td>Dr</td>
<td>I</td>
<td>Avidon</td>
<td>Physiology</td>
<td>2011-2013</td>
<td>Individual</td>
<td>43 000</td>
</tr>
<tr>
<td>Dr</td>
<td>A</td>
<td>Baeyens</td>
<td>Radiation Sciences, Clinical Medicine</td>
<td>2012-2014</td>
<td>Individual</td>
<td>143 000</td>
</tr>
<tr>
<td>Dr</td>
<td>A</td>
<td>Capovilla</td>
<td>Molecular Medicine and Haematology, Pathology</td>
<td>2012-2014</td>
<td>Individual</td>
<td>122 900</td>
</tr>
<tr>
<td>Position</td>
<td>Name</td>
<td>Department</td>
<td>Period</td>
<td>Type</td>
<td>Units</td>
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<td></td>
</tr>
<tr>
<td>Prof</td>
<td>T Carmichael</td>
<td>Ophthalmology, Clinical Medicine</td>
<td>2012-2014</td>
<td>Individual</td>
<td>145 050</td>
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</tr>
<tr>
<td>Prof</td>
<td>NJ Crowther</td>
<td>Chemical Pathology, Pathology</td>
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<td>Individual</td>
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</tr>
<tr>
<td>Dr</td>
<td>P Durand</td>
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<td>Individual</td>
<td>69 200</td>
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<tr>
<td>Prof</td>
<td>M Hosie</td>
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<td>2011-2013</td>
<td>Individual</td>
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<td>P Kamerman</td>
<td>Physiology</td>
<td>2013-2013</td>
<td>Individual</td>
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<tr>
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<td>A Kramvis</td>
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<td>Individual</td>
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<tr>
<td>Prof</td>
<td>E Libhaber</td>
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<tr>
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<td>2011-2013</td>
<td>Individual</td>
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<tr>
<td>Dr</td>
<td>H Myezwa</td>
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<td>2012-2013</td>
<td>Individual</td>
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<tr>
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<td>S Naicker</td>
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<td>Individual</td>
<td>149 574</td>
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</tr>
<tr>
<td>Prof</td>
<td>G Norton</td>
<td>Physiology</td>
<td>2011-2013</td>
<td>Individual</td>
<td>65 000</td>
<td></td>
</tr>
<tr>
<td>Prof</td>
<td>V Pillay</td>
<td>Pharmacy, Therapeutic Sciences</td>
<td>2012-2014</td>
<td>Individual</td>
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</tr>
<tr>
<td>Prof</td>
<td>A Stewart</td>
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<td>2012-2014</td>
<td>Individual</td>
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<td></td>
</tr>
<tr>
<td>Dr</td>
<td>S Velaphi</td>
<td>Paediatrics, Clinical Medicine</td>
<td>2013-2015</td>
<td>Individual</td>
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<tr>
<td>Prof</td>
<td>AJ Woodiwiss</td>
<td>Physiology</td>
<td>2011-2013</td>
<td>Individual</td>
<td>75 000</td>
<td></td>
</tr>
</tbody>
</table>

3. RESEARCH OUTPUTS

3.1. Publication Units and additional data on publications
Reflected in Table 10 are the publication units awarded by the Department of Higher Education and Training (DoHET) to individual Schools in the Faculty for the period 2006 – 2013. The units for the Faculty for 2013, which are still to be formally confirmed, show a major increase of over 90 units since 2012. Congratulations are extended to all the researchers in the Faculty for this amazing increase! A special word of congratulations must go to the School of Therapeutic Sciences who have more than doubled their unit output in one year!
Table 11: Units awarded to the Faculty of Health Sciences by DoHET for publications submitted for subsidy (2006 – 2013).

<table>
<thead>
<tr>
<th>Schools</th>
<th>Years</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013 Unconfirmed</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOAS</td>
<td></td>
<td>18.06</td>
<td>18.1</td>
<td>19.46</td>
<td>7.37</td>
<td>10.31</td>
<td>14.89</td>
<td>9.71</td>
<td>13.57</td>
</tr>
<tr>
<td>CHSE</td>
<td></td>
<td>0</td>
<td>0</td>
<td>0.25</td>
<td>0.31</td>
<td>1.50</td>
<td>0</td>
<td>1.00</td>
<td>2.20</td>
</tr>
<tr>
<td>SOCM</td>
<td></td>
<td>81.13</td>
<td>109.69</td>
<td>112.44</td>
<td>107.04</td>
<td>89.30</td>
<td>121.76</td>
<td>113.87</td>
<td>140.36</td>
</tr>
<tr>
<td>SOralS</td>
<td></td>
<td>7.59</td>
<td>3.93</td>
<td>10.96</td>
<td>4.93</td>
<td>2.00</td>
<td>0.66</td>
<td>15.43</td>
<td>3</td>
</tr>
<tr>
<td>SOPath</td>
<td></td>
<td>39.58</td>
<td>46.8</td>
<td>56.70</td>
<td>53.34</td>
<td>38.35</td>
<td>62.20</td>
<td>54.92</td>
<td>69.96</td>
</tr>
<tr>
<td>SOPHY</td>
<td></td>
<td>14.02</td>
<td>24.2</td>
<td>17.95</td>
<td>23.63</td>
<td>14.84</td>
<td>24.62</td>
<td>28.78</td>
<td>34.41</td>
</tr>
<tr>
<td>SOPubH</td>
<td></td>
<td>24.68</td>
<td>33.99</td>
<td>19.14</td>
<td>24.07</td>
<td>22.49</td>
<td>33.01</td>
<td>45.88</td>
<td>65.84</td>
</tr>
<tr>
<td>SOThSc</td>
<td></td>
<td>17.68</td>
<td>18.75</td>
<td>22.55</td>
<td>24.36</td>
<td>22.59</td>
<td>25.89</td>
<td>21.74</td>
<td>56.40</td>
</tr>
<tr>
<td>Total DNE Units</td>
<td></td>
<td>202.9</td>
<td>255.46</td>
<td>259.45</td>
<td>245.05</td>
<td>199.96</td>
<td>283.03</td>
<td>291.33</td>
<td>385.74</td>
</tr>
</tbody>
</table>

In Table 12 below, both accredited publication numbers and their conversion into DoHET units is shown for the years 2009-2012.

Table 12: Publication numbers and DoHET units for the years 2009 -2012

<table>
<thead>
<tr>
<th>Publication Year</th>
<th>DoHET accredited (articles only)</th>
<th>DoHET units (articles only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>422</td>
<td>245.05</td>
</tr>
<tr>
<td>2010</td>
<td>352</td>
<td>200.08</td>
</tr>
<tr>
<td>2011</td>
<td>535</td>
<td>275.41</td>
</tr>
<tr>
<td>2012</td>
<td>507</td>
<td>291.33</td>
</tr>
</tbody>
</table>
The numbers of journal articles, chapters in books and books published in 2012 by Schools are reflected in Figures 2–4.

**Figure 2**: The number of journal articles produced by each School in 2012 (accredited by DoHET, not accredited by DoHET)

**Figure 3**: The number of chapters in books produced by each School in 2012 (accredited by DoHET; not accredited by DoHET)
Faculty Goal: The 2013 Faculty goal for publications was to increase the quantity of publications by 10%. While the number of publications recorded in 2013 has not yet been confirmed, units in the Faculty increased from 291.33 (507 accredited publications) to 385.74.

3.2. Most Prolific Authors and citation records in the FHS in 2012

The most prolific authors in the Faculty in 2012 are reflected in Table 13. The calculations were based on publications submitted to the University Research Office in 2012 (accredited by DoHET) plus searches in the following data bases: Scopus, ISI Web of Knowledge and Pubmed. Table limited to those authors with four or more publications.

Table 13: Most prolific authors in the FHS in 2012

<table>
<thead>
<tr>
<th>Author</th>
<th>School</th>
<th>No. of papers</th>
<th>Author</th>
<th>School</th>
<th>No. of papers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Madhi SA</td>
<td>Pathology</td>
<td>23</td>
<td>Rees HV</td>
<td>Clinical</td>
<td>Medicine</td>
</tr>
<tr>
<td>Stevens W</td>
<td>Pathology</td>
<td>23</td>
<td>Violari A</td>
<td>Clinical</td>
<td>Medicine</td>
</tr>
<tr>
<td>Klugman</td>
<td>Pathology</td>
<td>16</td>
<td>Arbuthnot PB</td>
<td>Pathology</td>
<td>5</td>
</tr>
<tr>
<td>Sanne IM</td>
<td>Clinical Medicine</td>
<td>13</td>
<td>Beksinska E</td>
<td>Clinical</td>
<td>Medicine</td>
</tr>
<tr>
<td>Hofmeyr GJ</td>
<td>Clinical Medicine</td>
<td>12</td>
<td>Blaauw DA</td>
<td>Public Health</td>
<td>5</td>
</tr>
<tr>
<td>Norris SA</td>
<td>Clinical Medicine</td>
<td>12</td>
<td>Buchmann EJ</td>
<td>Clinical</td>
<td>Medicine</td>
</tr>
<tr>
<td>Gray GE</td>
<td>Clinical Medicine</td>
<td>11</td>
<td>Coetzee M</td>
<td>Pathology</td>
<td>5</td>
</tr>
<tr>
<td>Kumar P</td>
<td>Therapeutic</td>
<td>11</td>
<td>Crowther NJ</td>
<td>Pathology</td>
<td>5</td>
</tr>
<tr>
<td>Name</td>
<td>Field</td>
<td>Year</td>
<td>Last Name</td>
<td>Field</td>
<td>Year</td>
</tr>
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<td>------------------------</td>
<td>------</td>
<td>-----------------</td>
<td>------------------------</td>
<td>------</td>
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<tr>
<td>Von Gottenberg AM</td>
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<td>11</td>
<td>Firnhaber C</td>
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<tr>
<td>Yengopal V</td>
<td>Public Health</td>
<td>11</td>
<td>Fuller AJ</td>
<td>Physiology</td>
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<tr>
<td>Andronikou S</td>
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<td>Kahn L</td>
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<tr>
<td>Choonara Y</td>
<td>Therapeutic Sciences</td>
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<td>Kamerman PR</td>
<td>Physiology</td>
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<tr>
<td>Du Toit LC</td>
<td>Therapeutic Sciences</td>
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<td>Keddy EH</td>
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<td>5</td>
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<tr>
<td>Pillay V</td>
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<td>McIntyre JA</td>
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<tr>
<td>Smit JA</td>
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<td>Mngomezulu V</td>
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</tr>
<tr>
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<td>Moultrie HS</td>
<td>Clinical Medicine</td>
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<tr>
<td>Tollman SM</td>
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<td>Papathanasopoulos M</td>
<td>Pathology</td>
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<tr>
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<tr>
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<td>Richard GA</td>
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<tr>
<td>Martinson N</td>
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<td>Pettifor JM</td>
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<tr>
<td>Lewis DA</td>
<td>Clinical Medicine</td>
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<td>Omar T</td>
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<td>Authors</td>
<td>Title</td>
<td>Year</td>
<td>Source title</td>
<td>Cited</td>
<td>Document Type</td>
</tr>
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<td>--------------------------------------------------</td>
<td>-------</td>
<td>---------------</td>
</tr>
</tbody>
</table>

3.3. Most cited publications in the Faculty recorded in 2013

Table 14: Most cited publications in the FHS based on the ISI Web of Knowledge and Scopus in a 10 year period (2003 – 2013).
<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
<th>Year</th>
<th>Journal/Media</th>
<th>Page(s)</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Madhi S.A., Klugman K.P.</td>
<td>A role for Streptococcus pneumoniae in virus-associated pneumonia</td>
<td>2004</td>
<td>Nature Medicine, 10 (8), pp.811-813</td>
<td>238</td>
<td></td>
</tr>
<tr>
<td>Pettifer A.E., Rees H.V., Kleinschmidt I., Steffenson A.E., MacPhail C., Hongwa-Madikizela L., Vermaak K., Padian N.S.</td>
<td>Young people's sexual health in South Africa: HIV prevalence and sexual behaviors from a nationally representative household survey</td>
<td>2005</td>
<td>AIDS, 19 (14), pp.1525-1534</td>
<td>218</td>
<td></td>
</tr>
<tr>
<td>Authors</td>
<td>Title</td>
<td>Journal</td>
<td>Year</td>
<td>Pages</td>
<td>Article Type</td>
</tr>
<tr>
<td>---------</td>
<td>-------</td>
<td>---------</td>
<td>------</td>
<td>-------</td>
<td>--------------</td>
</tr>
</tbody>
</table>
### 3.4. Faculty of Health Sciences (FHS) articles published in some of the highest impact factors journals in 2013

**Table 15:** FHS articles published in some of the highest impact factors journals in 2013. Information derived from ISI Web of Knowledge (with cutoff of IF 20 and above).

<table>
<thead>
<tr>
<th>Authors</th>
<th>Title</th>
<th>Year</th>
<th>Source title</th>
<th>Volume</th>
<th>Impact Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authors</td>
<td>Title</td>
<td>Year</td>
<td>Journal</td>
<td>Volume</td>
<td>Issue</td>
</tr>
<tr>
<td>---------</td>
<td>------------------------------------------------------------------------</td>
<td>------</td>
<td>--------------------------------</td>
<td>--------</td>
<td>-------</td>
</tr>
<tr>
<td>Fanucchi S., Shibayama Y., Burd S., Weinberg M.S., Mhlanga M.M.</td>
<td>Chromosomal contact permits transcription between coregulated genes</td>
<td>2013</td>
<td>Cell</td>
<td>vol.155, no.3, pp.606-620</td>
<td>31.957</td>
</tr>
</tbody>
</table>

**Note bene:** In order to assist the FRO in “tracking” publications and in order for the DoHET to accredit publications to the University, the FRO would once again like to appeal to all researchers to ensure that the description “Faculty of Health Sciences, University of the Witwatersrand” appears as part of their address on all publications.
3.5. International and national collaborations

Table 16: International and national collaborations of FHS authors on 2012 publications.

<table>
<thead>
<tr>
<th>Institution</th>
<th>No. of papers</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>London School of Hygiene and Tropical Medicine</td>
<td>22</td>
<td>UK</td>
</tr>
<tr>
<td>Aurum Institute</td>
<td>4</td>
<td>RSA</td>
</tr>
<tr>
<td>Baylor College of Medicine</td>
<td>4</td>
<td>USA</td>
</tr>
<tr>
<td>Beth Israel Medical Center</td>
<td>4</td>
<td>USA</td>
</tr>
<tr>
<td>Boston University</td>
<td>7</td>
<td>USA</td>
</tr>
<tr>
<td>Brigham and Women's Hospital</td>
<td>4</td>
<td>USA</td>
</tr>
<tr>
<td>Columbia University</td>
<td>5</td>
<td>USA</td>
</tr>
<tr>
<td>Duke University</td>
<td>5</td>
<td>USA</td>
</tr>
<tr>
<td>Emory University</td>
<td>11</td>
<td>USA</td>
</tr>
<tr>
<td>Erasmus University</td>
<td>4</td>
<td>Netherlands</td>
</tr>
<tr>
<td>Flinders University of South Australia</td>
<td>4</td>
<td>Australia</td>
</tr>
<tr>
<td>George Washington University</td>
<td>4</td>
<td>USA</td>
</tr>
<tr>
<td>Harvard University</td>
<td>5</td>
<td>USA</td>
</tr>
<tr>
<td>Imperial College London</td>
<td>7</td>
<td>UK</td>
</tr>
<tr>
<td>James Cook University</td>
<td>7</td>
<td>Australia</td>
</tr>
<tr>
<td>Johns Hopkins University</td>
<td>7</td>
<td>USA</td>
</tr>
<tr>
<td>Kenya Medical Research Institute</td>
<td>7</td>
<td>Kenya</td>
</tr>
<tr>
<td>Lagos State University Teaching Hospital</td>
<td>3</td>
<td>Nigeria</td>
</tr>
<tr>
<td>Makerere University</td>
<td>12</td>
<td>GHANA</td>
</tr>
<tr>
<td>Moi University</td>
<td>5</td>
<td>Kenya</td>
</tr>
<tr>
<td>Monash University</td>
<td>6</td>
<td>Australia</td>
</tr>
<tr>
<td>South African Medical Research Council</td>
<td>18</td>
<td>RSA</td>
</tr>
<tr>
<td>The University of British Columbia</td>
<td>3</td>
<td>Canada</td>
</tr>
<tr>
<td>The University of North Carolina</td>
<td>10</td>
<td>USA</td>
</tr>
<tr>
<td>Universität Tübingen</td>
<td>3</td>
<td>Germany</td>
</tr>
<tr>
<td>Universiteit Stellenbosch</td>
<td>29</td>
<td>RSA</td>
</tr>
<tr>
<td>University of Alabama at Birmingham</td>
<td>5</td>
<td>USA</td>
</tr>
<tr>
<td>University of Amsterdam</td>
<td>16</td>
<td>Netherlands</td>
</tr>
<tr>
<td>University of California</td>
<td>4</td>
<td>USA</td>
</tr>
<tr>
<td>University of Cape Town</td>
<td>61</td>
<td>RSA</td>
</tr>
<tr>
<td>University of KwaZulu-Natal</td>
<td>19</td>
<td>RSA</td>
</tr>
<tr>
<td>University of Limpopo</td>
<td>3</td>
<td>RSA</td>
</tr>
<tr>
<td>University of Liverpool</td>
<td>7</td>
<td>UK</td>
</tr>
<tr>
<td>University of Melbourne</td>
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<td>Australia</td>
</tr>
<tr>
<td>University of Nairobi</td>
<td>7</td>
<td>Kenya</td>
</tr>
<tr>
<td>University of New South Wales</td>
<td>6</td>
<td>Australia</td>
</tr>
<tr>
<td>University of Oklahoma</td>
<td>4</td>
<td>USA</td>
</tr>
<tr>
<td>University of Oxford</td>
<td>5</td>
<td>USA</td>
</tr>
<tr>
<td>University of Pennsylvania</td>
<td>3</td>
<td>USA</td>
</tr>
<tr>
<td>University of Pittsburgh</td>
<td>4</td>
<td>USA</td>
</tr>
<tr>
<td>University of Pretoria</td>
<td>21</td>
<td>RSA</td>
</tr>
<tr>
<td>University of Washington</td>
<td>3</td>
<td>USA</td>
</tr>
<tr>
<td>University of Washington Seattle</td>
<td>10</td>
<td>USA</td>
</tr>
</tbody>
</table>
The Faculty of Health Sciences had 58 NRF rated researchers in 2013. The number of NRF-rated researchers in the Faculty of Health Sciences from 2008 – 2013 is depicted in Figure 5. (see Figure 5) (compared with 60 in 2010 and 56 in 2012). Nine of these 58 NRF rated researchers were new ratings (Table 17). Four of the new rated researchers had been rated for the first time. Five applied for and received a re-rating. There were six A-Rated scientists in the Faculty in 2013.

**Figure 5:** The number of NRF-rated researchers in the Faculty of Health Sciences from 2008 to 2013

**Table 17:** Faculty of Health Sciences NRF Ratings effective from the 1st January 2013

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>School</th>
<th>Rating</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adrian, PV</td>
<td>Dr</td>
<td>Pathology</td>
<td>C2</td>
<td>Rerated</td>
</tr>
<tr>
<td>Arbuthnot, PB</td>
<td>Prof</td>
<td>Pathology</td>
<td>B3</td>
<td>Rerated</td>
</tr>
<tr>
<td>Choonara, Y</td>
<td>Prof</td>
<td>Therapeutic</td>
<td>Y1</td>
<td>First time</td>
</tr>
<tr>
<td>Coetzee, M (JS)</td>
<td>Prof</td>
<td>Pathology</td>
<td>B1</td>
<td>Rerated</td>
</tr>
<tr>
<td>Firnhaber, CS</td>
<td>Dr</td>
<td>Clinical Medicine</td>
<td>C2</td>
<td>First time</td>
</tr>
</tbody>
</table>
Faculty Goal: A Faculty goal was to increase the number of NRF ratings in 2013. While the number increased slightly, it has not regained 2010 levels. The decrease in 2013 could be due to the loss of ratings by researchers who chose not to apply for re-rating.

### 4. DST/NRF South African Chairs Initiative

The Faculty proudly hosts five DST/NRF South African Chairs. These are:

- **Professor Viness Pillay**: Chair in Pharmaceutical Biomaterials and Polymer-Engineered Drug Delivery Technologies, School of Therapeutic Sciences: Cycle 2008-2012; renewed for a further 5 years - 2013-2017.
- **Professor Shabir Madhi**: Chair in Vaccine Preventable Diseases, School of Pathology: Cycle 2008-2012; renewed for a further 5 years - 2013-2017.
- **Professor M. Coetzee**: Chair in Medical Entymology and Vector Control, School of Pathology: Cycle 2008-2012; renewed for a further 5 years – 2013 – 2017.
- **Professor Caroline Tiemessen**: Chair in HIV Vaccine Translational Research, School of Pathology whose Chair will be entitled the DST/NRF Chair of HIV Vaccine Translational Research. Cycle 2013 – 2017.

Faculty Goal: A Faculty Goal in 2013 was to obtain a further DST/NRF SARCHI. This was exceeded through the appointment of two Chairs to Professors Tiemessen and Eyles respectively.

### 5. POSTDOCTORAL FELLOWS AND ACTIVITIES IN 2013

The number of Postdoctoral Fellows in the Faculty has increased from 26 in 2012 to **43 in 2013** (Table 18).

Faculty Goal: The Faculty Goal for 2013 was to increase the number of Postdoctoral Fellows by five. This target was exceeded. Further postdoctoral positions could easily be filled in the Faculty were positions available. Also, it is important to note that in order to attract clinical Postdoctoral Fellows the stipend needs to be increased markedly.

The HSRO continues to host a Postdoctoral Forum on a quarterly basis and a Postdoctoral Symposium every two years.
<table>
<thead>
<tr>
<th>Postdoctoral Research Fellow</th>
<th>School/Dept/Unit</th>
<th>Supported/Funded by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Dr adhil Bhagwandin</td>
<td>Anatomical Sciences</td>
<td>SPARC</td>
</tr>
<tr>
<td>2 Dr Alane Emiko Izu</td>
<td>Respiratory &amp; Meningeal Pathogens Research Unit</td>
<td>Respiratory &amp; Meningeal Pathogens Research Unit</td>
</tr>
<tr>
<td>3 Dr Anabela Picton</td>
<td>Cell Biology, Centre for HIV and STIs, NICD/ School of Pathology,</td>
<td>Claude Leon Foundation</td>
</tr>
<tr>
<td>4 Dr Ananyo Choudhury</td>
<td>Human Genetics</td>
<td>SPARC Postdoctoral fellowship</td>
</tr>
<tr>
<td>5 Dr Antonia Wadley</td>
<td>Physiology</td>
<td>Hillel Friedland Fellowship</td>
</tr>
<tr>
<td>6 Dr Arnaud Djami Tchatchou</td>
<td>CPGRU</td>
<td>Claude Leon foundation</td>
</tr>
<tr>
<td>7 Dr Aurelie Deroubaix</td>
<td>Hepatitis Virus Diversity Research Programme</td>
<td>Hillel Friedland Fellowship</td>
</tr>
<tr>
<td>8 Dr Benjamin Rey</td>
<td>Brain Function Research Group</td>
<td>Claude Leon Fundation</td>
</tr>
<tr>
<td>9 Dr Buhle Moyo</td>
<td>Antiviral gene therapy research unit</td>
<td>NRF</td>
</tr>
<tr>
<td>10 Dr Candice Lyons</td>
<td>Wits Research Institute for Malaria</td>
<td>SPARC Research Fellowship</td>
</tr>
<tr>
<td>11 Dr Carren Ginsburg</td>
<td>Agincourt</td>
<td>URC</td>
</tr>
<tr>
<td>12 Dr Celia Hsiao</td>
<td>Developmental Pathways for Health Research Unit</td>
<td>Wellcome Trust to Birth to Twenty study</td>
</tr>
<tr>
<td>13 Dr Charu Tyagi</td>
<td>Wits Advanced Drug Delivery Platform</td>
<td>NRF</td>
</tr>
<tr>
<td>14 Dr Christopher Ealand</td>
<td>Centre of Excellence for Biomedical TB Research</td>
<td>NRF Prestigious / Scarce Skills Fellowship</td>
</tr>
<tr>
<td>15 Dr Daniel Achinko</td>
<td>Pathology</td>
<td>NICD Training and leadership - Wits Health Consortium</td>
</tr>
<tr>
<td>16 Dr Deepak Gopalakrishnan</td>
<td>Hepatitis Virus Diversity Research Programme</td>
<td>NRF/URC</td>
</tr>
<tr>
<td>17 Dr Divya Rani</td>
<td>Wits Advanced Drug Delivery Platform</td>
<td>Prestigious SPARC</td>
</tr>
<tr>
<td>18 Dr Givemore Muhenga</td>
<td>Wits Research Institute for Malaria</td>
<td>NRF Freestanding Postdoctoral Fellowship</td>
</tr>
<tr>
<td>19 Dr Hilary Lease</td>
<td>Brain Function Research Group</td>
<td>NRF</td>
</tr>
<tr>
<td>20 Dr Ian Murray</td>
<td>Brain Function Research Group</td>
<td>Wits URC fellowship,</td>
</tr>
<tr>
<td>21 Dr Kim Lamont</td>
<td>SACRU</td>
<td>NIH Wits/Non-Communicable Diseases Leadership Program 2012</td>
</tr>
<tr>
<td></td>
<td>Name</td>
<td>Institution</td>
</tr>
<tr>
<td>---</td>
<td>-----------------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>22</td>
<td>Dr KwangShik Choi</td>
<td>Wits Research Institute for Malaria</td>
</tr>
<tr>
<td>23</td>
<td>Dr Lomas Kumar Tomar</td>
<td>Wits Advanced Drug Delivery Platform</td>
</tr>
<tr>
<td>24</td>
<td>Dr Luisa Nardini</td>
<td>Wits Research Institute for Malaria</td>
</tr>
<tr>
<td>25</td>
<td>Dr Manette Marais</td>
<td>School of Physiology</td>
</tr>
<tr>
<td>26</td>
<td>Dr Marta Nunes</td>
<td>Respiratory &amp; Meningeal Pathogens Research Unit</td>
</tr>
<tr>
<td>27</td>
<td>Dr Moji Musa</td>
<td>Developmental Pathways for Health Research Unit</td>
</tr>
<tr>
<td>28</td>
<td>Dr Nadia Carstens</td>
<td>Human Genetics</td>
</tr>
<tr>
<td>29</td>
<td>Dr Nicole Catherine Angotti</td>
<td>Institute of Behavioral Science, University of Colorado, Boulder (USA) Demography and Population Studies, University of the Witwatersrand (South Africa) MRC/Wits Rural Public Health and Health Transitions Research Unit (Agincourt)</td>
</tr>
<tr>
<td>30</td>
<td>Dr Nina Patzke</td>
<td>Neuroanatomy</td>
</tr>
<tr>
<td>31</td>
<td>Dr Oluwatoyin Adeleke</td>
<td>Wits Advanced Drug Delivery Platform</td>
</tr>
<tr>
<td>32</td>
<td>Dr Rajdeep Choudhury</td>
<td>Molecular Medicine and Haematology: Evolutionary Medicine Unit</td>
</tr>
<tr>
<td>33</td>
<td>Dr Richard McFarland</td>
<td>Brain Function Research Group</td>
</tr>
<tr>
<td>34</td>
<td>Dr Rihlat Mohamed</td>
<td>Developmental Pathways for Health Research Unit</td>
</tr>
<tr>
<td>35</td>
<td>Dr Sabelle Jallow</td>
<td>Respiratory Meningeal Pathogens Research Unit</td>
</tr>
<tr>
<td>36</td>
<td>Dr Samuel Antobam</td>
<td>Agincourt &amp; Demography and Population Studies</td>
</tr>
<tr>
<td>No.</td>
<td>Name</td>
<td>Unit / Program</td>
</tr>
<tr>
<td>-----</td>
<td>--------------------------</td>
<td>--------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>37</td>
<td>Dr Samantha Anne Nicholson</td>
<td>Antiviral Gene Therapy Research Unit</td>
</tr>
<tr>
<td>38</td>
<td>Dr Santosh Sathe</td>
<td>Molecular Medicine and Haematology: Evolutionary Medicine Unit</td>
</tr>
<tr>
<td>39</td>
<td>Dr Sonja Lauterbach</td>
<td>Wits Research Institute for Malaria</td>
</tr>
<tr>
<td>40</td>
<td>Dr Thandeka Khoza</td>
<td>School of Pathology</td>
</tr>
<tr>
<td>41</td>
<td>Dr Trevor Bell</td>
<td>Hepatitis Virus Diversity Research Programme</td>
</tr>
<tr>
<td>42</td>
<td>Dr Yael Dahan</td>
<td>Malaria Entomology Research Unit</td>
</tr>
<tr>
<td>43</td>
<td>Dr Zena Kimaro</td>
<td>Respiratory Meningeal Pathogens Research Unit</td>
</tr>
</tbody>
</table>

The Faculty **Postdoctoral Forum** is held once a quarter and is open to all postdoctoral Fellows and their hosts. Chaired in 2013 by Professor B. Kramer, the Forum acted as an opportunity to discuss items of mutual interest and explore avenues for improving the postdoctoral culture and activities of the Faculty. A Postdoctoral brochure was designed and is now available to all new and current Postdocs in the Faculty of Health Sciences.

The HSRO once again hosted the biennial **Postdoctoral Symposium** in 2013 which was sponsored by **Roche** at their wonderful new facility in Randburg. Organised and run by the postdocs themselves with assistance from the HSRO, the Symposium was a smorgasbord of research which was attended by the Fellows and their hosts as well as some of our Carnegie Fellows as well. A number of oral presentations and posters highlighted key aspects from hepatitis B viral research to thermal physiology of wild animals. Posters were presented on electronic screens. The two guest speakers, **Professor Debbie Glencross** of the Department of Molecular Medicine and Haematology and **Mr Clive Simkins**, an external consultant and coach, delighted the audience with their presentations. The day’s events closed with a cocktail party. Abstracts from the Symposium are available from the HSRO.
6. EXTERNAL RESEARCH GRANTS and POSTGRADUATE SUPPORT

External funding for the support of staff and postgraduate students who are directly associated with the HSRO are:


The Connective Tissue Research Fund continues to support high quality research in the area of Rheumatic Diseases. In spite of the relatively small grants to 2 students, the funding has directly or indirectly resulted in a PhD and several peer-reviewed publications in 2013:

Higher degree

- Dr Nimmisha Govind – PhD for her thesis entitled “Genetics of Rheumatoid Arthritis in South Africans” (graduated December 2013).

Ongoing research activities include

PhD:

- Ms Jackie Frost. Her PhD is focusing on the Wnt pathway in the pathogenesis of systemic sclerosis and she is currently spending 6 months at the CRG Barcelona to complete her lab work.
• Ms Alessandra Prioreschi. Her work is looking habitual physical activity in rheumatoid arthritis measured by the Actical accelerometer and an exercise interventional study. She has had 2 papers accepted and is currently writing two other manuscripts.

MMed

• Dr D Haasbroek. Her work is on full blood count correlates with disease activity in rheumatoid arthritis.
• Dr D Ramdass. His research is on Inflammmtory myopathies in South Africans.

MMed and other non-degrees projects include:

• FCgamma receptor IIB polymorphisms in systemic lupus erythematosus (J Frost).
• Prospective study of admisssions of patients with systemic lupus erythematosus at Chris Hani Hospital (Dr S Karolia).
• Epigenetic changes in systemic lupus erythematosus and systemic sclerosis (Dr P Matatiele).
• Oxidative DNA damage in systemic sclerosis (Ms Xolani Masuko).
• A randomised controlled study of treating to target in rheumatoid comparing two methods of assessing global disease activity (Dr B Hodkinson). This study was funded by Carnegie Corporation and the study is now complete with manuscript in draft stage.

Publications:

• PMID: 21900283.
- Ickinger C, Musenge E, Tikly M. Patterns and predictors of joint damage as assessed by the rheumatoid arthritis articular damage (RAAD) score in South Africans with established rheumatoid arthritis. Clin Rheumatol. 2013;32:1711-7. PMID: 24005837

Nine papers were presented at African Rheumatology Congress in Durban in April 2013. Dr Govind was joint winner of the best oral presentation and Ms Jackie Frost received the best poster award.

Other awards:

- B Hodkinson: Tom Bothwell award for the best PhD thesis in the Department of Internal Medicine.
- M A Makda: Best MMed research report in the Department of Internal Medicine.

6.2. The H.E. Griffin Trust - the Colorectal Research Cancer (CRC) Group. Dr G Candy

The Colorectal Research Cancer (CRC) Working Group is committed to studying aspects of the aggressive colorectal cancer which affects young patients of African ancestry.

Sample collection. As in 2012, there have been few colorectal samples. We have obtained samples from patients at Charlotte Maxeke Hospital (Professor Bizos’s group), CH-Baragwanath Hospital where Mr Kiss has again assisted in obtaining samples and we obtained samples from Leratong Hospital through Mr Tun.

Research. Dr Willems group has published a paper on GIST tumors and Dr Penny has had two conference proceedings published. Dr Marietha Nel in Surgery, from collected specimens, isolated tumor cells uncontaminated by bacteria from patients. However, these remained alive for several weeks and then died. The cells appear to have finite life span or the media may need further optimization. The approach of growing these cells in nude mice needs to be attempted. However the Central Animal Services facility lacks areas suitable for raising these mice.

Management. CRC applications were advertised and scientists applied for funding. Three applications were awarded funding. Due to the success of this approach, funding will be advertised around September 2014 and awarded appropriately.

Publications:


Ms Milner was awarded the Wirsam Scientific prize for the most exceptional oral presentation at the Microscopy Society Meeting.

Finances. The finances of the Group remain very sound.
6.3. Belgian Technical Corporation Masters Fellowship

The Belgian Technical Cooperation (BTC) Masters Fellowship is a postgraduate fellowship from the Belgian Technical Cooperation Agency which is the administrator and coordinator for scholarships awarded by the Belgian Directorate-General for Development Cooperation. Since 2004, the Fellowships have been awarded to four postgraduate students who have obtained admission in one of the Schools in the Faculty of Health Sciences in order to study towards an MSc (Med), MSc (Dent) or MPH degree. The awardees of Fellowships in 2013 are recorded in Table 19. The thesis, dissertation or research report must be in the field of HIV/AIDS, Tuberculosis or Malaria. Each fellowship covers tuition fees, accommodation, allowance, research consumables and conference travel for a period of two years.

Table 19: Awardees of BTC Fellowships for 2013

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>School</th>
<th>Supervisor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shamillah Holland</td>
<td>MSc (Med)</td>
<td>Therapeutic Sciences</td>
<td>Professor R van Zyl</td>
</tr>
<tr>
<td>Ken Harris Limwame</td>
<td>MPH</td>
<td>Public Health</td>
<td>Nicola Christofides</td>
</tr>
<tr>
<td>Thulani Jonas Mahlangu</td>
<td>MSc</td>
<td>Therapeutic Sciences</td>
<td>Professor R van Zyl</td>
</tr>
<tr>
<td>Kirsten Redman</td>
<td>MSc</td>
<td>Physiology</td>
<td>Dr Karine Scheuermaier &amp; Dr Alan Karstaedt</td>
</tr>
</tbody>
</table>

Each recipient receives a total of R120 316.04 to be spent over the period of two years (2013-2014).

7. HSRO RESEARCH SHORT COURSES

7.1 SHORT COURSES

As part of efforts to enhance research throughput and overall productivity in the Faculty of Health Sciences (FHS), the Research Office continues to run short courses, tutorials and seminars targeted at postgraduate students and staff members. The training covers research methodologies, scientific writing skills and postgraduate supervisory skills. Having realized that some postgraduate students such as registrars and supernumerary appointees may not be able to attend courses run over a number of consecutive days, some courses were run on staggered days at Chris Hani Barangwanath Hospital as well as at the Medical School. However, attendance at Chris Hani Barangwanath Hospital fluctuated with the overall total number of attendees being relatively low for the year 2013; it constitutes about 15% of the overall attendance as shown in Table 20.
Table 20: Numbers of candidates who attended courses, tutorials and seminars held in 2013

<table>
<thead>
<tr>
<th>Course/Tutorial/Seminar</th>
<th>Number of attendees</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Medical School</td>
</tr>
<tr>
<td></td>
<td>Postgraduate Students</td>
</tr>
<tr>
<td>Research Methodology and Techniques Course</td>
<td>25</td>
</tr>
<tr>
<td>FAHS1595-Research Techniques Course</td>
<td>32</td>
</tr>
<tr>
<td>Scientific Writing Course</td>
<td>16</td>
</tr>
<tr>
<td>EXPD7000-Research Techniques Course</td>
<td>29</td>
</tr>
<tr>
<td>Supervisors Course</td>
<td>9</td>
</tr>
<tr>
<td>Qualitative Research in Medical Contexts Course</td>
<td>16</td>
</tr>
<tr>
<td>PhD Thesis Formats Tutorial</td>
<td>21</td>
</tr>
<tr>
<td>M.Dent/ M.Med Research Report Formats Tutorial</td>
<td>19</td>
</tr>
<tr>
<td>Writing an Abstract</td>
<td>16</td>
</tr>
<tr>
<td>Writing Introduction and Literature Review</td>
<td>33</td>
</tr>
<tr>
<td>Writing Methods &amp; Results</td>
<td>19</td>
</tr>
<tr>
<td>Writing Discussion &amp; Conclusion</td>
<td>15</td>
</tr>
<tr>
<td>Research Methodology Course</td>
<td>23</td>
</tr>
<tr>
<td>Introduction to Research Electronic Data (REDCap)</td>
<td>20</td>
</tr>
<tr>
<td>Writing Tips</td>
<td>9</td>
</tr>
<tr>
<td>Introduction to Research &amp; Proposal Writing</td>
<td></td>
</tr>
<tr>
<td>Outcome Measures- validity &amp; reliability</td>
<td></td>
</tr>
<tr>
<td>Accredited Journals &amp; Predatory Open Access Journals</td>
<td>9</td>
</tr>
<tr>
<td>How to read a scientific paper</td>
<td>17</td>
</tr>
<tr>
<td>One-on-one scientific writing consultations</td>
<td>38</td>
</tr>
<tr>
<td><strong>Sub-Total</strong></td>
<td><strong>366</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>564</strong></td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>665</strong></td>
</tr>
</tbody>
</table>

As expected, the table shows that more students (a total of 564) than staff members (a total of 101) attended the courses, although the number may actually be higher since attendees who registered as staff members may also be registered as postgraduate students. Regarding the one-on-one consultations on scientific writing, the response rate was satisfactory in the first month and then declined to such low levels that the activity had to be suspended. One possible contributing factor to the decline could be the fact that most of the candidates, especially those without prior exposure to research environment, lacked fundamental knowledge in terms of research methodology techniques and scientific writing skills. Consequently, the Research Office submitted a proposal to make 3 fundamental courses mandatory to the FHS Graduate Studies Committee (GSC). The proposed courses to be made mandatory are (i) research methodology course, (ii) scientific writing skills course, and (iii) basic data collection and analysis course. The GSC approved the proposal in principle.
and a Task Force team comprised of representatives of all the Schools in the FHS was set up to work out modalities of implementation.

Lack of advance planning on the part of prospective attendees could also negatively affect attendance of short courses, tutorials and seminars offered in the FHS. Hence the HSRO has developed a timetable for 2014 which has been circulated among facilitators for their inputs and confirmation of their availability. The timetable will be widely disseminated in the FHS as soon as it has been finalized. It is hoped that these efforts will go a long way in maximizing utilization of the support mechanisms that have been put in place in the FHS, which could contribute towards increasing publications and facilitating timely completion of postgraduate studies in the Faculty.

7.1.1. Research Methodology and Techniques 2013
These courses were offered on two occasions at Medical School:

- 9, 16, 23, 30 January and 6 February,
- 21, 28 February and 7, 14 March.

The students had to have a draft protocol by the end of the course. Research Methodology lectures were also provided to MMed students at the Department of Pediatrics at CH Baragwanath Academic Hospital (twice a year).

7.1.2. Scientific Writing workshop by Professor D Mitchell
This course included three modules:

- Module 1: Writing a review (19 August)
- Module 2: Writing a thesis, (02 September)
- Module 3: Writing a Scientific paper (03 September)

The workshops took place at Medical School and were attended by 35 participants (PhDs, MMED/MSc and staff members).

7.2. STATISTICAL SUPPORT

7.2.1. Introduction

The Faculty of Health Sciences established postgraduate research support to improve postgraduate throughput and the quality of the research output. One of such support is to provide staff and students with biostatistical skills required for research. Such skills are imparted at various levels as outlined below.

7.2.2. Activities Conducted

7.2.2.1. Statistics Workshops

These hands-on courses are offered on an annual basis to support Faculty staff and postgraduate students. We have seen an increased uptake of these courses, especially from supervisors interested in strengthening their quantitative supervisory skills. This led to establishment of a statistics workshop specifically tailored for supervisors. The uptake of afternoon statistics sessions presented at Chris Hani Baragwanath Academic
Hospital was quite remarkable, with participants from other faculties. Statistics postgraduate students were used as tutors for computer practical sessions. The class sizes ranged from 15-30 participants.

Table 21: Statistics workshops offered in the academic year 2013

<table>
<thead>
<tr>
<th>No.</th>
<th>Name of Workshop</th>
<th>Dates of Workshop</th>
<th>Total attendants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Applied Statistical Methods using Statistica</td>
<td>04-08 February</td>
<td>22</td>
</tr>
<tr>
<td>2</td>
<td>Advanced Statistics with STATA</td>
<td>04-11-18 March</td>
<td>20</td>
</tr>
<tr>
<td>3</td>
<td>Sample Size Calculation</td>
<td>13-20-27 May</td>
<td>22</td>
</tr>
<tr>
<td>4</td>
<td>Applied Statistical Methods using Statistica (Supervisors)</td>
<td>24 June, 01-08-15-22 July</td>
<td>21</td>
</tr>
<tr>
<td>5</td>
<td>Applied Statistical Methods using Statistica*</td>
<td>26 June, 03-10-17-24 July</td>
<td>15</td>
</tr>
<tr>
<td>6</td>
<td>Data Entry and Manipulation (EPI INFO)</td>
<td>26 August, 02-09 September</td>
<td>25</td>
</tr>
<tr>
<td>7</td>
<td>Applied Statistical Methods (STATA)</td>
<td>28-29-30-31 October, 01 November</td>
<td>31</td>
</tr>
</tbody>
</table>

*This workshop took place at Chris Hani Baragwanath Academic Hospital

Statistical workshops for GEMP3 students were provided by Associate Professors Elena Libhaber and Tobias Chirwa

7.3.2.2. Statistical consultations

The walk-in statistical consultations (3 days a week) offer face to face statistical guidance. The number of statistical consultations has been consistent at an average of four students in a session. Such consultations have been supported by 3 biostatistics postgraduate students. These consultations are being effective as we see few staff members and postgraduate students being referred from tutors for further statistical support.

7.3.2.3. Research methodology and statistical consultations by Associate Professors Elena Libhaber and Tobias Chirwa

During 2013 more than 100 one-on-one consultations were carried out at Medical School and at CH Baragwanath Academic Hospital. Research protocol development (study design, sample size calculations, etc) and statistical analysis (data entry, data coding, appropriate statistical tests and results interpretation) support provided. The majority of the consultees were medical doctors or health sciences students requesting advice
towards degrees: MMEDs, Masters and PhD while staff (for non-degree purposes constituted approx 15% of the consultations.

7.3.3. Acknowledgements

We would like to acknowledge the support of the School of Clinical Medicine and School of Public Health and the statistics tutors for facilitating sessions on the short courses and helping out with the statistical consultations.

Faculty Goal: A 2013 Faculty Goal was to continue to expand Faculty courses and workshops. This goal was achieved. Courses were run at two sites, Medical School and CH Baragwanath Hospital, thus catering particularly for MMed students as well. Additional short workshops were introduced to enable staff and students to attend and upskill in various topics without taking too much time from their work.

8. OTHER RESEARCH MATTERS

8.1. Research Thrust

8.1.1. Molecular Biosciences Research Thrust

The MBRT was established in 2009 to bring together researchers and postgraduate students who share common research interests and work using molecular bioscience techniques. It provides an opportunity to identify suitable collaborations and collaborators within the University and partner institutions, which is a hallmark of effective modern science. It aims to stimulate research and other academic activities in the broad area of molecular biosciences and to create a vibrant atmosphere in which scientists and students within the Faculties of Science, Health Sciences, and Engineering and the Built Environment can realise their full research potential. The MBRT includes researchers working on any aspect of science, using molecular techniques. The MBRT is championed by Prof Chrissie Rey (Molecular and Cell Biology, Faculty of Science) and Prof Michele Ramsay (Human Genetics, Faculty of Health Sciences; SBIMB and NHLS). In 2013 it was decided that an Executive would be voted in to assist with the running of the MBRT. Professor Stefan Weiss from the School of Molecular and Cell Biology was voted in.

We currently have 131 members of the MBRT from across the Faculties of Science, Health Sciences, and Engineering and the Built Environment. This is comprised of postgraduate students, postdoctoral fellows, staff and joint staff. Members can access the latest information about MBRT events through regular communications sent out from the MBRT Secretariat via the email distribution list, or alternatively by viewing the MBRT website: www.wits.ac.za/research/mbrt

The MBRT runs its activities through administration provided by Ms Caryn McNamara at the the Sydney Brenner Institute for Molecular Bioscience (SBIMB) due to the synergies of the molecular bioscience research taking place between the two entities. However, it is important to note that the two entities have not merged. The MBRT continues to support all researchers working in the broader molecular biology field whilst the SBIMB focusses on molecular research in the health arena.

8.1.1.1. MBRT Annual Research Day

The MBRT hosted the annual MBRT Research Day on 5 December 2012 for all those members working on molecular bioscience research. The day was facilitated by Dr Demetra Mavri-Damelin from the School of Molecular and Cell Biology in the Faculty of Science and by Dr Clem Penny from the Faculty of Health Sciences. Ms Caryn McNamara at the SBIMB provided logistical and administrative support to the organizers
in putting this event together. Prof Susan Kidson, IIDMM at UCT and Acting Dean of the Faculty of Health Sciences at UCT, was the guest speaker. We had 43 presenting delegates of which 10 gave talks and 33 posters. There were 20 additional delegates in attendance, and 5 companies exhibited or donated student/postdoc prizes for the event. The Faculty Research Committees from Science and Health Sciences each committed R15,000 in 2012 to the MBRT Research Day. These funds were also supplemented by generous donations from our industry partners (BioRad Laboratories, Inqaba Biotec, Life Technologies, and Separations).

The second MBRT Research Day was held on 4 December 2013. There were 32 presenting delegates (10 talks and 22 posters). The MBRT 2013 Research Day has been organised by Drs Natalya Nikitina (Molecular and Cell Biology, Faculty of Science) and Betty Mowa (Molecular Medicine and Haematology, Faculty of Health Sciences). The guest speaker this year will be Dr. Paula Sommer from the University of KwaZulu-Natal. She will report on “Epigenetic silencing and Small Cell Lung Cancer”, a hot topic in the cancer field.
8.1.1.2. MBRT New initiatives

Academic staff who are members of the Molecular Biosciences Research Thrust are working together on a collaborative project to put together a new one-year cross-faculty MSc in Molecular Bioscience (Course work and Research Report). The course is currently under development under the leadership of Prof Stefan Weiss (Molecular and Cell Biology, Faculty of Science) in consultation with the Faculty Deans and is being taken through the appropriate committees and approval processes for implementation in 2015.

8.1.1.3. Events

This year we hosted one guest speaker under the banner of the MBRT:

- **Prof Heini Dirr**, the DST/NRF SARChI Chair in Protein Biochemistry and Structural Biology, gave a seminar on 4 March 2013 at Medical School to all clinical researchers and postgraduate students, entitled: “Can structural biology add value to your research with proteins?”. It is hoped that a one week course in protein expression and/or structural biology will follow in due course for members of the MBRT to attend.

8.2. Vice-Chancellor’s Call for A-rated scientist

Under the new leadership of Professor Adam Habib (Vice-Chancellor), Wits is re-energising and augmenting its research character. To fully realise this agenda, Wits has been attempting to recruit 30 additional leading scholars (NRF A-rated or equivalent). The following scholars were appointed in the Faculty of Health Sciences:

- Prof Lenore Manderson (School of Public Health)
- Prof Ngianga-Bakwin Kandala (School of Public Health)

8.3. HSRO Initiatives

8.3.1. Wits Research Institute for Malaria (WRIM) Launch

The Faculty of Health Sciences launched the **Wits Research Institute for Malaria (WRIM)** on 28 November 2013. WRIM will provide an environment to enhance the ground-breaking research already taking place at Wits on one of Africa’s deadliest diseases, Malaria. The new Institute will fulfill not only the mission of Wits University, but also that of global players such as the World Health Organization and the Global Fund.

Professor Maureen Coetzee, Research Professor of Medical Entomology in the School of Pathology and Professor Thérèsa Coetzer, Head of the Plasmodium Molecular Research Unit and Head of the Red Cell Membrane Research Unit in the Department of Molecular Medicine and Haematology in the Wits School of Pathology and the National Health Laboratory Service, will jointly head the new Institute. The vision of the Institute is to strengthen malaria research in the existing fields as well as in the fields of epidemiology and clinical medicine.

Wits currently has three leading research groups which work on malaria vectors, parasites and pharmacology. The University and the Faculty have supported the combination of these groups into an Institute. The Institute was formally constituted in March 2013 and celebrated at the launch in November 2013 in the Adler Museum. The launch was attended by Mrs Yvonne Mhinga (Chaka Chaka) who is the Unicef/WHO/RBM Goodwill Ambassador for Malaria and a great supporter and patron of the Wits initiative.
8.3.2. Writing Retreats

In 2013, the HSRO was able to offer two rounds of writing retreats, funded from the WHC Dividend. These were short (2 to 3 day) or “spaced- day” writing retreats for academics to complete research paper/s that are currently in progress. They are not method workshops but writing periods that allow for the completion of a paper or conversion of a conference presentation into an actual paper. These retreats could be facilitated by mentors of suitable calibre and background. Each delegate attending the retreat was required to produce a paper to be submitted to a journal on the DoHET list.

The writing retreats resulted in 119 (see Tables 22 and 23) publications being accepted/submitted/ in preparation. While we cannot presume that these publications would not have been produced without the WHC Dividend funding, we believe the outcome to be substantial for the amount invested.

<table>
<thead>
<tr>
<th>Table 22: Summary of writing retreat outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feedback received from 13 of the 14 groups which were awarded funding.</td>
</tr>
<tr>
<td>Money spent</td>
</tr>
<tr>
<td>Articles published / accepted</td>
</tr>
<tr>
<td>Articles submitted</td>
</tr>
<tr>
<td>Articles in preparation</td>
</tr>
<tr>
<td>TOTAL</td>
</tr>
</tbody>
</table>

<p>| Table 23: Writing retreat results - breakdown per Department/School/Group |
|---------------------------------|---------------------------------|------------------|</p>
<table>
<thead>
<tr>
<th>Department/School/Group</th>
<th>Writing Retreat (Publications accepted/ submitted/ in preparation)</th>
<th>Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Molecular Medicine and Haematology</td>
<td>11</td>
</tr>
<tr>
<td>2</td>
<td>Perinatal HIV Research Unit (PHRU) (Round 1 and 2 retreats)</td>
<td>15</td>
</tr>
<tr>
<td>3</td>
<td>Therapeutic Sciences</td>
<td>9</td>
</tr>
<tr>
<td>4</td>
<td>Human Genetics (Round 1 and 2 retreats)</td>
<td>16</td>
</tr>
</tbody>
</table>
A list of authors and titles of papers is available from the HSRO on request.

8.3.3. Writing dyads for postgraduate students

The HSRO again offered writing dyads for postgraduate students (Masters and Ph.Ds) in 2013 to improve postgraduate throughput and graduation rates. The aim of these dyads is to enable writing, reading and fast-tracking of feedback on dissertations or theses through the pairing of supervisors and postgraduates at a retreat. Each group should consist of a minimum of 7-8 Postgraduate students and their supervisor/s. The amount per dyad group did not exceed **R25 000**. Preference was given to those supervisors and their students who were close to submission.

Funding was awarded to two groups of supervisors / postgraduate students from the Department of Family Medicine (Professor Laurel Baldwin-Ragavan) and the Department of Psychiatry (Professor Bernard Janse van Rensburg). Family Medicine was awarded R17,000.00 and Psychiatry R35,000.00 (for two dyads).

8.3.4. FORUM FOR EMERGENT RESEARCHERS

The Emergent researchers group, chaired by **Dr Penny Moore**, continued to meet four – six times annually, to attend presentations covering various topics of interest to the group. In 2013, these included a presentation by Dr Bavesh Kana, entitled “Define your own real estate - Succeeding with research”. In July, Mr Clive Simpkins, journalist and expert in media training and communications presented a group Media Communications Workshop. This was followed in October by a more focused, small group workshop focused on media skills coaching. The final meeting of 2013 was presented by Ms Melissa Badenhorst (Marketing Manager: Worldwide Information Services). Melissa led a hands-on computer based training session on the Thomson Reuters Research platform, which is available through the WITS library services. This session focused on assessment of research outputs and on advanced literature search platforms.

8.3.5. POSTGRADUATE DEGREES AWARDS

Each year, the Faculty Research Office calls for the nomination of students who have excelled in their postgraduate studies. Awards are presented at the Faculty’s Annual Prize Giving Ceremony, which usually takes place in March/ April. There are three categories of award:
• Doctorate
• Masters degrees by dissertation only
• Masters degrees by coursework and research report

In each category, the student judged to have completed a degree of particular excellence will receive a medal and certificate for the most prestigious degree in that category. If none of the submissions are judged to be of sufficient quality, no award will be made. The 2012 and 2013 Postgraduate Degrees Awards winners are shown in Table 22 and 23 below.

**Table 24: Postgraduate Degrees Awards Winners 2012**

<table>
<thead>
<tr>
<th>PhD Category</th>
<th>Category</th>
<th>Names</th>
<th>Title of dissertation</th>
<th>School</th>
<th>Supervisor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD</td>
<td>Dr Gill Nelson</td>
<td>Living in the shadow of a dust cloud: Occupational respiratory diseases in the South African mining industry, 1975 to 2009</td>
<td>Public Health Surgery</td>
<td>Professor Jill Murray, Professor Geoffrey Candy</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Masters Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Masters of Science by Research</td>
</tr>
<tr>
<td>MMed/MDent</td>
</tr>
</tbody>
</table>

| Masters by coursework and research report: 50% research | Not awarded |
| Masters by coursework and research report: 30% research | Not awarded |

**Table 25: Postgraduate Degrees Award winners 2013**

<table>
<thead>
<tr>
<th>PhD Category</th>
<th>Category</th>
<th>Names</th>
<th>Title of dissertation</th>
<th>School</th>
<th>Supervisor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD</td>
<td>Dr Anne Von Gottberg</td>
<td>Studies on bacterial respiratory pathogens causing bacteraemia and meningitis in South Africa</td>
<td>Clinical Medicine</td>
<td>Professor Charles Feldman, Professor Keith Klugman</td>
<td></td>
</tr>
<tr>
<td>Masters Category</td>
<td>Masters of Science by Research</td>
<td>Ms Rivka Lilian</td>
<td>Identifying interventions to improve outcomes of the South African prevention of mother-to-child transmission programme</td>
<td>Pathology</td>
<td>Professor Gayle Sherman</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>--------------------------------</td>
<td>-----------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
<td>--------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Professor Elena Libhaber</td>
<td></td>
</tr>
<tr>
<td>Masters by course work and research report: 50% research</td>
<td>Ms Helen Savva</td>
<td>Factors associated with the utilization of health services by female sex workers in South Africa</td>
<td>Public Health</td>
<td>Dr Nicola Christofides</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Dr Marlise Richter</td>
<td></td>
</tr>
</tbody>
</table>

There were no applications from MMed or MDent students in 2013.

8.3.6. PRESTIGIOUS RESEARCH LECTURE SERIES

In 2013, the HSRO hosted two highly successful Prestigious Research Lectures (PRL). The first lecture for the year, the 8th in the PRL series, was held in May and was entitled ‘Eliminating TB!’ The lecture was presented by Associate Professor Bavesh Kana (Head of the Wits University node of the DST/DRF Centre of Excellence for Biomedical TB Research, School of Pathology) and Professor Gavin Churchyard (CEO of the Aurum Institute for Health Research and Honorary Professor in the School of Public Health). Professor Bill Bishai, an internationally-renowned TB researcher and Director of the KwaZulu-Natal Research Institute for Tuberculosis and HIV (K-RITH) was the expert commentator on the evening.

The presenters highlighted the complexity of the TB epidemic and the urgent steps required in South Africa if we hope to achieve the World Health Organisation’s ‘Stop TB’ goal of stabilising and ultimately eliminating this disease by 2050. They further highlighted some of the problems faced with TB management in South Africa which includes adherence to the treatment regimen, the diagnosis of TB which takes too long, the increase of multi-drug resistant (MDR) and extensively drug resistant TB which are resistant to first and second line antibiotics. The country’s TB epidemic is also fuelled by the large, mature and unabated HIV epidemic.

Photographs (left) - Professor Bill Bishai, Dr Bavesh Kana, Professor Gavin Churchyard and Professor Beverley Kramer, (right) - Dr Bavesh Kana, Professor Bill Bishai and Professor Gavin Churchyard responding to questions from the audience.
In November, the HSRO hosted the 9\textsuperscript{th} PRL Series ahead of World AIDS Day on the 1\textsuperscript{st} of December. The lecture entitled ‘Antibody Based HIV Vaccines – are we any closer?’ was presented by Dr Penny Moore (Senior Scientist in the Centre for HIV and STIs, NICD/NHLS, Research Associate, Centre for the AIDS Programme of Research in South Africa (CAPRISA) and Senior Researcher in the School of Pathology) and Professor Maria Papathanasopoulos (Co-Director of the HIV Pathogenesis Research Laboratory and the Genotyping Laboratory, Department of Molecular Medicine and Haematology, School of Pathology). Dr Gwynn Stevens, Senior Director at the International AIDS Vaccine Initiative (IAVI) acted as expert commentator. Dr Frew Benson, Chief Director of Communicable Diseases, National Department of Health, South Africa concluded the evening by commenting on infectious diseases in South Africa.

The lecture focused on the hurdles faced and lessons learned from research conducted both locally and internationally on the immune responses of HIV infected people, the identification of viable vaccine targets and previous vaccine trials and how these observations are now being translated into designing and testing novel HIV vaccine candidates. Results from a recent clinical trial that provided protection from HIV infection have provided hope that a vaccine against HIV is in fact possible. Scientists are now looking for a preventative vaccine with the ability to elicit broadly neutralizing antibodies, which target the HIV envelope glycoprotein and are able to neutralise the wide range of global HIV strains. Dr Moore and Prof Papathanasopoulos showed with this lecture that they are certainly at the forefront of the cutting edge research on broadly neutralizing antibodies.
8.3.7. RESEARCH AWARDS DINNER

The fifth annual Faculty Awards Dinner was held in July 2013 at the Country Club Johannesburg, Auckland Park to honour outstanding achievements by researchers within the Faculty over the last year. An award certificate was presented by the former Dean, Professor Ahmed Wadee, to researchers who had received recognition in the previous 12 months.

These were:
Professor Emeritus Duncan Mitchell, Professors Patrick Arbuthnot, Wendy Stevens, Helen Rees, Justus Hofmeyr, Karen Sliwa, Lizette Koekemoer, John Pettifor, Laetitia Rispel, Maureen Coetzee, Glenda Gray, Sharon Fonn, Shabir Madhi, Viness Pillay, Himla Soodyall. Associate Professors Caroline Tiemessen, Cindy Firnhaber, Lesley Scott, Bavi Shabir Madhi, Karen Hofman, Lynne Schepartz, Stephen Tollman, Kathy Kahn, Peter Kamerman, Yahya Choonara, Honorary Professors Mario Altini, Osman Sankoh, Honorary Associate Professor Jill Murray, Drs Alisha Wade, Neil Martinson, Penny Moore, Peter Adrian, Robyn Hetem and Ms Erin Hutchinson.

The following research units were recognised for their outstanding and consistent research productivity: Brain Function Research Group, Carbohydrate and Metabolism Research Unit, Developmental Pathways for Health Research Unit, Pulmonary Infection Research Unit and the Centre for Health Policy.

Professor Maryna Steyn, Forensic/Physical Anthropologist and Head of the Forensic Anthropology Research Centre (FARC), University of Pretoria, was invited to deliver the after-dinner talk. She gave everyone a glimpse of her fascinating and adventurous career as a forensic anthropologist.
8.3.8. CARNEGIE ACADEMIC MEDICINE PROGRAMME

Director: Professor J. Pettifor

As part of the Programme to build the next generation of African scientists, the Clinician Scientist Fellowship Programme within the Faculty of Health Sciences aims to provide academic clinicians with the opportunity to spend two years in fulltime research obtaining their PhD, attending relevant courses in research methodology and ethics, in curriculum design and teaching, and in scientific writing, and to support them in their first postdoctoral year developing their research further.

The Programme has been generously supported by the Carnegie Corporation of New York since 2010, and the grant has just been renewed for a further 3 years. It has had a most successful start with all four of the first cohort of Fellows, who joined the programme in March 2011, graduating with their PhDs in December this year. The second cohort of four fellows, who joined in August 2012, are all making exceptional progress in their research and we are optimistic that they will achieve similar success. A call for applications for a further four fellows has just closed and will be appointed in January 2014.

The continued support of the Carnegie Corporation of New York in renewing the grant for a further three years will allow us to train a further eight academic clinicians, whom we hope will with the original cohort of eight form a nucleus of academic clinicians showing a renewed interest in clinical research at Wits and in South Africa and who will support, mentor and foster research among more junior members of the clinical staff.

Faculty Goal: This Programme is hugely important in producing “Clinician Scientists” for South Africa and Africa and was initiated in response to a recommendation by the Academy of Science of South Africa. This programme fits into the Faculty plan for increasing PhDs. Funding may become an impediment as we only have funding from the Carnegie Organisation for a further two years.
8.3.9. RESEARCH ENTITY FORUM

In 2013 the Research Entity Forum continued to bring together Directors of Research Entities in the Faculty, informed them of issues and engaged with them on research matters in the Faculty. The Forum became an official sub-committee of the FRC in 2012.

In 2013, four meetings of the Forum were held. Key items discussed were:

- Short term posts
- Part-time supervision of external students
- Institutional Identity/branding in powerpoint presentations and posters presented in conferences
- Open access publishing
- Mangled emails, National Health Laboratory Service (NHLS) staff using NHLS email addresses reported that emails they receive from Wits staff are mangled emails
- University Cost Recovery process (CORY)
- RINC for 2014

8.3.10. Health Sciences Alumni Diaspora Programme – 2013

The Health Sciences Alumni Diaspora Programme has proven to be successful in bringing ‘home’ Alumni researchers to Wits for short periods of time. Previous visits have resulted in research collaborations, student and staff exchanges, co-applications on grants and supervision of postgraduate students. While the Faculty Goal was to increase Diaspora visitors to eight in number in 2013 this was not possible as the HSRO could only host two visitors as we no longer received SPARC funding for this programme. These researchers are listed in the table below. However, in 2013 the Carnegie Corporation of New York requested that a concept document be submitted to them for the funding of this programme. The application was successful and the programme, now the Carnegie-Wits Alumni Diaspora Programme has received funding for a further 3 years. Funding awarded includes a salary provision for a part-time projects assistant, six Alumni visits to Wits and three visits by Wits staff to international institutions annually.

<table>
<thead>
<tr>
<th>Name</th>
<th>Current institution</th>
<th>Area of expertise</th>
<th>Wits School/Department</th>
<th>Wits host researcher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Steven Soldin</td>
<td>Department of Laboratory Medicine, National Institutes of Health (NIH) and the Department of Medicine, Georgetown University</td>
<td>Endocrinology (steroid hormone, thyroid hormone, active peptides), oncology, clinical pathology (chemistry) and pharmacology</td>
<td>Department of Chemical Pathology</td>
<td>Dr Jaya George, Professor Nigel Crowther.</td>
</tr>
<tr>
<td>Professor Roy Zent (Vice Chair of Research of Medicine, Vanderbilt University) and Ambra Pozzi</td>
<td>Vanderbilt Medical Centre, Vanderbilt University, Nashville, USA</td>
<td>Grant writing and review. Paper writing and review.</td>
<td>HSRO</td>
<td>Professor Beverley Kramer</td>
</tr>
</tbody>
</table>
Professor Steven Soldin visited the Faculty for a week in August during which he had numerous meetings with senior researchers in the Faculty and also presented three talks. The titles of the talks presented are: “The role of analyte specificity in improving diagnosis and treatment of disease”, “Children are not little adults” and an informal talk on clinical toxicology with the Chemical Pathology team. Dr Soldin is interested in setting up a Translational Clinical Research Laboratory in the Faculty of Health Sciences, Wits as he is of the opinion that “translational research is a natural growth point for every top class University and could enable a doubling of excellent papers in diverse areas of clinical research.”

Professors Roy Zent and Ambra Pozzi returned to the Faculty for a third consecutive year to present lectures and workshops on scientific paper and grant writing. They also met with the Hillel Friedland Postdoctoral Fellows and senior researchers in the Faculty to discuss possible collaborations. The grant and paper writing workshops have been well attended and the feedback received have been overwhelmingly positive. Some of the comments received are: “I have attended a number of this type of lecture and can say that this was the most directly relevant and useful one I have attended”, “it was great to have objective, experienced grant writers and reviewers present their perspective” and “Thank you - overall found the sessions very relevant and useful. Feedback provided was very useful.” All the participants have indicated that they would recommend the sessions to their colleagues.
8.3.11. VANDERBILT COLLABORATION

In 2013 a group of Wits Staff once again visited Vanderbilt Medical School in order to pursue strategic initiatives. The staff included Professor M. Lukhele, Head: School of Clinical Medicine; Professor M. Smith, Head: Department of Surgery; Professor M. Hale, Head: Department of Anatomical Pathology; Professor J. Bruce, Head: School of Therapeutic Sciences; Professor D. Constantinou, Director Centre for Sports Science and Professor B. Kramer, Assistant Dean: Research and Postgraduate Support.

The visit to Vanderbilt Medical School was brief (three days April/May 2013)) and was arranged by Bev Kramer with Roy Zent (Vanderbilt) in order for the Heads of the School of Clinical Medicine and of Therapeutic Sciences in particular, to examine the scope and depth of the possibilities of collaboration at training and research level with Vanderbilt. Thus, unlike the first visit, where all Wits staff attended all meetings, on this visit our programmes diverged and then anastomosed as the need arose. Thus each Wits staff member was able to meet with and see very specific individuals/departments.

The visit covered all spheres of academia, ie training research and even administration, as well as bioinformatics.

Once again, all Vanderbilt staff were exceptionally warm, welcoming and engaging. They were keen to listen and learn about Wits and almost everyone reiterated their wish to collaborate or enquired about collaboration. Vanderbilt staff acknowledged that they could benefit from a Wits collaboration in relation to the diverse disease/pathology profiles of patients associated with Wits.

It was my impression that all the Wits staff viewed the visit as beneficial and returned with a considerable list of “action points” which they hope to take forward in the near future. I am pleased that they could be exposed to a culture at Vanderbilt that speaks to collegiality and collaboration. The ongoing exchange of staff is critical for this collaboration to continue and grow. A full report is available from the HSRO.

In addition a number of collaborative projects are already in existence with Vanderbilt (obtainable from HSRO and visit the Wits–Vanderbilt Website at http://www.wits.ac.za/health/research/vanderbilt-wits/18702/vanderbiltwits.html). New items of note are the joint funding obtained by Professor Maureen Coetzee of our Malaria Institute and Dr Larry Zwiebel of Vanderbilt, and a joint Gates grant between Professor Shabir Madhi and Dr David Atronoff (Vanderbilt). In addition, the continued support from the Biomedical Informatics Unit at Vanderbilt for the Wits initiative resulted in a three month visit by Dr Michael Klipin to Vanderbilt to undergo training.

8.3.12. MEDICAL BIOINFORMATICS SYSTEM

a) Overall Perspective

The Faculty of Health Sciences Biomedical Informatics Initiative for research, training and patient care is an essential building block for high quality, sustainable health care in South Africa and Africa.

The initiative was originated by Professor Martin Veller. There has been ongoing support and input from Professor Veller and Professor Beverley Kramer. Professor Mac Lukhele, Head of the School of Clinical Medicine has been a strong supporter of the initiative. Acknowledgement is made of the Acting Dean, Professor Sharon Fonn.
b) REDCap

As at December 2013 there were over 150 active users and over 300 projects created of which approximately 100 have been moved to production. The hands on training workshops hosted by the REDCap administrator, Irma Mare have been central to the increased numbers of users.

The development team led by Ashley Gritzmann and several software engineers has created two defined user interfaces for REDCap.

i) A method of creating user defined printouts called ReportMyWay

ii) A data transfer interface to allow Professor Ballot to communicate directly between her database and the Vermont Oxford Network (VON) as part of ongoing collaborative research.

In addition, the Donald Gordon Medical Centre has a Research office headed by Dr June Sinclair. REDCap is being used by several groups there for clinical data capture.

Wits has the capacity to act as a support node amongst the REDCap consortium partners in the SAST time zone. With the help and participation of Paul Harris, Associate Professor of Biomedical Informatics, and Director, Office of Research Informatics, Vanderbilt University and Prof Scott Hazelhurst, Associate Professor in the School of Electrical and Information Engineering we have agreed in principle to start hosting the Consortium meetings in March 2014.

In the next year we hope to identify a critical mass of personnel to ensure sustainable delivery and maintenance of REDCap.

c) Visit by Dr M. Klipn to Vanderbilt

With the assistance of the HSRO of the Faculty of Health Sciences and the Department of Surgery Miller Fellowship, Dr Mike Klipin (Wits) was hosted by Dr Kevin Johnson, Professor and Chair of Biomedical Informatics, for three months, from August to November 2013, in the Department of Biomedical Informatics at Vanderbilt University. This enabled a general overview and understanding of the field and participation in the “Introduction to Biomedical Informatics” course offered in the master's program in Biomedical Informatics. The opportunity to spend time with world leaders in the field of biomedical informatics was invaluable.

Major insights from the visit to Vanderbilt are:

- Biomedical Informatics attempts to use information from a molecular level to a population level to improve patient care
- Healthcare institutions have unique complexities that require unique tools, and biomedical informatics systems
- Adding technology to a dysfunctional process will doom any project to failure
- The implementation of new technology into the healthcare domain is a study in itself
- Inter-operability between systems is key to a functional repository of data
- Technology implementation has both a financial and productivity cost, but the payback is data
- Data is King (or Queen)
- The possible benefits are almost infinite in terms of research, patient care, disease management and healthcare planning

Wits has the necessary people with the insight to develop a strategy that will suit our needs.

d) The future

Continue to support and develop REDCap as a data management instrument within the Faculty, with a focus on sustainability.
Introduce and maintain the Wits REDCap consortium support meetings
Explore the need for the integration of present databases within the Faculty into a central repository
Create the capacity for all patients discharged from a Wits-associated hospital to have an electronic discharge summary.

Mrs Irma Mare and colleagues (Dr Michael Klipin and Professor Scott Hazelhurst) received the Best Poster Award at the 5th African Conference on Digital Scholarship and Curation in 2013. The poster was entitled “Wits Faculty of Health Sciences Medical Informatics Database”.

8.3.13. SPARC Open Access online journal page charges

As the University has signed the Berlin Declaration on Open Access and as Open Access is said to lead to efficiency benefits to researchers which allows easy and faster access to research and knowledge, the HSRO applied to SPARC and was supported with a grant of R400 000.00 to test whether open access would lead to faster publishing of papers and increased or earlier citations. Open access is important for the rapid dissemination of cutting edge knowledge and increased citation rates could assist with increased rankings of institutions.

Researchers in the Faculty were notified of the initiative and applied for page charges on submission of the paper to an accredited open access journal. In general, the costs for open access publication were in the range R13 000 - R18 000 per publication. Funding was provided according to the number of Faculty staff members on a publication. A total of 36 publications were supported. A list of submissions/publications is attached (some are in the process of publication). Turn-around time for publication (from submission to publication) varied between one to three months. This is much faster than the traditional journals which in some instances can take between 8-12 months or more.

Citation counts are interesting. Some of the publications already have citations, but these are only 1 or 2 citations per article at this stage. However, one should consider that this is extremely fast, as in order to be noted as a citation on a citation index, the article which is citing the paper has had to be published as well. It is our intention to do a follow-up analysis of citations at a later stage.

On the basis of the 2013 subsidy formula, each publication should be awarded R120 000 by the DoHET, which would leverage ~R4.3 million in subsidy. Although many of the publications were authored by FHS staff alone, some were co-authored with researchers from other institutions. Thus, even if we calculate the DoHET subsidy on half the number of FHS authors on these papers, the initial investment of R400 000 would have raised R2.15 million in subsidy.

8.3.14. POSTGRADUATE HUBS

The entries to the hubs at both the Medical School and C H Baragwanath Academic Hospital are controlled by an ICAM system, with 24 hours access to Postgraduate Students. The numbers of entries to the Hubs in 2013 is illustrated in Table 26.
Table 26: Entry numbers at the Medical School and Chris Hani Baragwanath Academic Hospital (CHBAH) Postgraduate Hubs in 2013.

<table>
<thead>
<tr>
<th></th>
<th>Medical School</th>
<th>CHBAH</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>20,264</td>
<td>1366</td>
</tr>
</tbody>
</table>

Monthly PG lunchtime seminars, particularly at the Medical School, continue to be a source of interest. A Biostatistical Service (one-on-one consultations) is available in the Medical School Hub on Tuesday, Wednesday & Thursdays between 13h00 to 17h00. The HSRO wishes to thank Ms Nosipho Ludick at CH Baragwanath Learning Centre for assistance with matters relating to that Hub.

8.3.15. SEMINAR AT ONE – A SEMINAR SERIES FOR POSTGRADUATE STUDENTS IN THE FACULTY OF HEALTH SCIENCES

Since 2010, the HSRO has been offering a successful series of monthly lunchtime talks for postgraduate students at the Postgraduate Hub in Medical School and in Chris Hani Baragwanath Academic Hospital. Access to leading researches from different fields was made available to students by creating opportunities for dialogue and learning.

Seminars were presented by the following:

- “Professionalism and Ethics related to presentations at conferences and symposia” by Dr Kevin Behrens-Steve Biko Institute.
- “Nutrition Research at C H Baragwanath Academic Hospital: Challenges and Achievements” by Dr Alison Feeley - DPHRU, School of Clinical Medicine.
- “Does Research Involvement improve teaching skills?” by Mrs. Juliana Freeme- School of Therapeutic Sciences.
- ”Publishing in Nature Medicine- luck or chutzpah” by Dr. Penny Moore- NICD, School of Pathology.
- “Maternal Physical Activity: Influence on maternal and delivery outcomes” by Mrs Estelle Watson-Centre for Exercise and Sports Medicine, School of Therapeutic Sciences.
- “The Complexities of Clinical Supervision” by Professor Patricia De Witt - School of Therapeutic Sciences.
- “Glucose Metabolism and Pregnancy in South African Women” by Mrs. Shelley Macaulay- DPHRU, School of Clinical Medicine.
- “Experiences of a Postgraduate journey from an MSc and Mdent perspective” by Dr Catherine Nqobo- School of Oral Sciences.
- “Tips and Tools for Detecting Plagiarism” by Dr Kevin Behrens,-Steve Biko Institute.
- “Mismanaging Time Inadvertently” by Dr. Aceme Nyika- HSFRO.
- “Why we need more female Post doctoral fellows” by Dr. Kim Lamont- SORUCR, Postdoctoral Fellow at the Wits/ NIH (USA) Non- Communicable Diseases Leadership Programme.

8.3.16. MEDIA LECTURE AND WORKSHOPS by Mr Clive Simpkins

In 2013, the HSRO approached Mr Clive Simpkins, Media and Communications Expert to present an interactive workshop to Emerging Researchers in the Faculty. The workshop was held in July with the purpose of giving concise but practical insight into how researchers should respond to print media, radio, TV or social media
interviews, or when asked for comment. The workshop assisted with improving their competence and confidence when engaging with the media and provided them with an understanding of the media’s usefulness in publicising their work. Mr Simpkins presented this two hour workshop and provided each participant with a copy of his book, *Media Appearance Secrets* free of charge.

Interested individuals were then invited to participate in a more intensive media workshop in a small group setting. The workshop on media engagement and public speaking involved a combination of one-on-one interaction with Mr Simpkins, on various aspects of presenting information to the media and also the general public. Mr. Simpkins discussed the basic rules about the presentation of information during television and radio interviews. He also discussed nuanced approaches to unpacking complex information and the use of real-life comparisons to make the data more accessible. For public speaking and seminars, the appropriate use of presentation aids and slides were dealt with in detail. Mr. Simpkins then conducted live mock interviews with a video camera and played back the interviews to point out key details of the interview process. The workshop covered extensive background on how to prepare for interviews and how to enjoy the media experience. Overall, the workshop was creatively compiled and executed with enthusiasm and a great deal of energy. The participants reported that it was a very useful experience.

8.3.17. Contributions to PedMed

The editor of PedMed, has offered the Faculty a page in every issue of this magazine to showcase interesting paediatric research, opinions, contentions, or any important and clinically-relevant information. PedMed is a Media24 print publication which is distributed with the Medical Chronicle on a national level. The editor of the magazine feels that there is a gap in the market for a paediatric publication which fulfils multiple needs (providing information that is clinical, contemporary and interesting, while simultaneously being an easier and more entertaining read than a purely scientific medical journal). The HSRO felt that this was a good opportunity for the public exposure it will bring the Faculty and its researchers.

In 2013, the Faculty submitted three articles to PedMed for publication:

- ‘The diabetic pregnancy: A bitter-sweet state’ by Ms Shelley Macaulay and Professor Shane Norris, Developmental Pathways for Health Research Unit (DPHRU)
- ‘Maternal nutrition and exercise in Pregnancy’ by Ms Estelle Watson, DPHRU
- ‘Millennium Development Goal 4 – How are we doing?’ by Professor Peter Cooper, Head of the Department of Paediatrics.

8.3.18. Diamonds and Pearls: Insights into the management of Cardiovascular Disease in Women

The HSRO hosted the second seminar on 'Diamonds & Pearls: insights into the management of Cardiovascular Disease in Women' in 2013. The event was organized by Prof Elena Libhaber and Dr Naomi Rapeport and took place on the 21st November in the Marie Curie Theatre at Wits Medical School. In 2012 the symposium covered the guidelines on prevention of cardiovascular diseases, on Dyslipidemia, depression and also Hypertension, Valvular Heart diseases in pregnancy and peripartum cardiomyopathy. This year additional topics enriched our scientific knowledge such as: Current Chemotherapy in breast cancer, Cardiac Complications of chemotherapy in breast cancer, Cardiac Nuclear imaging in women, Screening for Thrombophilia in women and Atrial Fibrillation in women. The speakers were distinguished Wits Faculty and alumni: Dr Daniel Vorobiof, Dr Eric Klug, Prof Carlos Libhaber, Dr Emma Wypkema, and Dr Naomi Rapeport. The Assistant Dean: Research and Postgraduate Support, Prof Beverley Kramer opened the seminar and Dr Colin Shamroth moderated the discussion. The contents of the symposium have been placed on the Wits Health Sciences Research Office
web page by request. Prof Beverley Kramer expressed her wish that the meeting should be an annual event on the FHS calendar!

8.3.19. POSTGRADUATE SOCIAL

The HSRO once again hosted a postgraduate social to encourage social interaction amongst postgraduate students within the Faculty. Dr. Larry Benjamin, who runs social quiz events, was the Master of Ceremony. Postgraduates from a variety of disciplines teamed up in groups of six and dressed up to enjoy the pub-quizz presented by Dr Larry Benjamin. Three rounds of questions taxed the postgrads (and some of the staff!) to the limit and allowed for a hilarious, fun-filled evening! Thank you to the Faculty Postgraduate Committee for assisting with the organization of the event!

Spot prizes were awarded for the loudest team mate, the most eccentric hairstyle, the best team name, the most motivated team and for the best team mascot.

Photographs: A great time was had by all!!!

8.4. HSRO ONGOING COMMUNICATION WITH FACULTY AND EXTERNAL COMMUNICATION

8.4.1. FACULTY RESEARCH NEWSLETTER

In 2013, the Faculty Newsletter which was initiated in 2009, continued to profile researchers, explore research being undertaken in the Faculty, highlight outstanding research and report on prestigious awards and achievements. Suretha Erasmus and Nomfundo Sibiya changed the design and layout of the Newsletter. Nomfundo Sibiya was responsible for gathering and collating the information. Professor Beverley Kramer, Associate Professor Andrea Fuller and Mrs Suretha Erasmus serve as editors. The HSRO receives many compliments about the Newsletter, one of which was sent by the Dean of a sister Faculty of Health Sciences and which read “I am always bedazzled by your newsletter. Sets the standard.” The Newsletter is emailed to members of the Faculty, members of the wider University community (including SET), Health Sciences alumni, and other interested external parties (including potential donors). Efforts to increase the distribution list are ongoing.

8.4.2. HEALTH SCIENCES RESEARCH OFFICE BULLETIN

The Research Bulletin continued to assist with emphasizing notifications regarding courses, workshops, events and funding opportunities (both internal and external). It is generally sent on the 1st of each month, and lists all
notices/application closures relevant to the month ahead. Links to webpages with further information or documents are included when necessary.

Ms Nomfundo Sibiya is responsible for collating and editing the content of the Bulletin, with Mrs Suretha Erasmus and Professor Beverley Kramer acting as supervising editors.

8.4.3. POSTGRADUATE BROCHURE

As part of continuous efforts aimed at providing postgraduate students with information about the academic and social environment in the Faculty of Health Sciences in particular and the University of the Witwatersrand in general, the Office of the Assistant Dean: Research and Postgraduate Support provides an information brochure for postgraduate students which is updated annually. As usual, the updated brochure will be handed out to postgraduate students in January 2014 during registration. A process to expand the brochure in order to cover the full postgraduate cycle from the point of admission to graduation has been ongoing. Compilation of all relevant information into the new comprehensive brochure has been completed except for the online admission and registration processes as well as samples of pertinent updated forms which have to be finalized before they can be incorporated. The new, comprehensive brochure will become available in 2014.

8.4.4. POSTGRADUATE HERALD (NEWSLETTER)

The Faculty of Health Sciences Postgraduate Herald continued to serve the Postgraduate Student Community. Each issue consists of helpful hints and tips on various topics written by three HSRO staff members (Faculty Research Coordinator, Research Methodology Coordinator and the Faculty Biostatistician). Submissions by Postgraduate students are also included. Students funded through the Postgraduate Conference Travel were requested to write a report on the conference which they attended and these reports were included in the Herald throughout the year in 2013.

Ms Nomfundo Sibiya is responsible for the quarterly publication, as well as its distribution to Postgraduate students, with Mrs Suretha Erasmus and Professor Beverley Kramer acting as supervising editors.

8.4.5. RESEARCH AND POSTGRADUATE OFFICE WEBPAGE

In 2013, the HSRO webpages have been restructured to adhere to the website guidelines set by the Marketing Department, Wits for a uniform Wits website. News and Events pages have been created to reflect the latest achievements and activities in the Faculty. The HSRO publications, including the Biennial Research Review, Monthly Research Newsletter, Funding Information Booklet, Postgraduate Herald and lists of Research Publications in the Faculty are now available online. The Postgraduate Seminar Series or ‘lunch time talks’ held at Medical School and the Learning Centre, Chris Hani Baragwanath Hospital were made available online for those individuals who could not attend the talks. All the pages are continuously updated by Mrs Suretha Erasmus and Ms Nomfundo Sibiya. Mr Jonathan Taylor at Wits Marketing continued to be a source of invaluable assistance.

8.4.6. POSTGRADUATE FACEBOOK PAGE

The HSRO Postgraduate Facebook Page was created a year ago in November of 2012. Information such as workshops and courses, funding, other important dates, news or exciting events are advertised. This creates
awareness amongst Postgraduate students to enhance their learning experience. The page is still continuing to receive growing attention from students.

8.4.7 EXTERNAL MEDIA LIAISON

In 2013, the Faculty contracted an external company to assist with communication and public relations to the community. The aims of this contract were to further establish and build on the University of the Witwatersrand Faculty of Health Science’s reputation for teaching and research excellence among the national, international and academic community; to strengthen this reputation to attract high calibre staff; to raise the public profile of the Faculty in the minds of the public and health professionals locally and internationally, including alumni; to increase the awareness of the Faculty’s reputation among the non-academic community in South Africa in order to attract the best candidates for undergraduate and postgraduate courses as the competition between South Africa’s top medical schools is fierce.; to embrace the media in an information-based, proactive liaison programme to enhance relationships and encourage engagement with the Faculty and its professionals, on an ongoing basis and via the media, ensure public recognition of work undertaken by the Faculty.

This programme worked extremely well with numerous articles about the Faculty being aired on radio or in the press. A full report on these activities is available from the HSRO.

Unfortunately we have not been allowed to continue with this contract as the University feels that these functions should be controlled centrally. This has in 2014 already led to a major drop in features on the Faculty in the press.
9. This section of the HSRO Annual Report includes “Notable Research Activities and Achievements by School”

9.1. SCHOOL OF ANATOMICAL SCIENCES

Appointments
- Mr Brendan Billings was appointed Council member of Royal Society of South Africa.

Awards and recognition
- Professor Lynne Schepartz received an NRF B3 rating.

Substantial research grants
- Professor Lynne Schepartz received Project team member. Wenner-Gren Foundation for Anthropological Research International Collaboration Grant: The Diros Project: Greek-American Collaborative Archaeological Research & Training at Neolithic Alepotrypa Cave. $35,000 (through Hellenic Ministry of Culture and Millsaps College).
- Desiré Brits received NRF Thuthuku PhD track Grant (R122000.00) and NRF Institutional matched funds (R184 000.00).

Significant local collaborations
- Erin F. Hutchinson collaborated with Nuclear Energy Corporation of South Africa.

Significant international collaborations
- Professor Lynne Schepartz:
  - Co-director of Biological Anthropology study with Anastasia Papathanasiou (Ephoreia of Palaeoanthropology-Speleology of Southern Greece): The Diros Project: Greek-American Collaborative Multi-Disciplinary Research on the Mani Peninsula, Southern Greece.
  - Wu Xiujie, Liu Wu and Xing Song (Institute of Vertebrate Paleontology and Paleoanthropology, Chinese Academy of Sciences, Beijing), Erik Trinkaus (Washington University St. Louis, USA), Maria Martín-Torres (CIENH, Burgos, Spain) and Sari Miller-Antonio (California State University, Stanislaus, CA USA): Research on Chinese fossil hominins.
  - Wang Minghui (Institute of Archaeology, Chinese Academy of Sciences, Beijing): Burial status and health in Bronze Age Chinese populations.
  - Anastasia Papathanasiou (Ephoreia of Palaeoanthropology-Speleology of Southern Greece): Skeletal biology field research on Neolithic-Iron Age populations of Kea island, Greece.
  - Sari Miller-Antonio (California State University Stanislaus, CA USA) and Fang Hui (Shandong University, China): Skeletal biology field research on Bronze Age Shang burials from Daxinzhuang, Shandong, China.
  - Britney Kyle McIlvaine (University of Northern Colorado, USA), Clark S. Larsen and Paul W. Sciulli (Ohio State University, OH USA): Skeletal biology research on Albania and Greek populations.
  - Jack L. Davis and Sharon Stocker (University of Cincinnati, OH, USA), Sari Miller-Antonio (California State University Stanislaus, CA USA) and Anastasia Papathanasiou (Ephoreia of Palaeoanthropology-Speleology of Southern Greece): Skeletal biology and mortuary analysis of Greek Mycenaeans from Pylos.
  - John Papadopoulos and Sarah Morris (UCLA Cotsen Institute of Archaeology, CA, USA), Lorenç Bejko (Institute of Archaeology Albania): The prehistoric tumulus of Lofkënd, Albania.
- Erin F. Hutchinson collaborated with Sir John Walsh Research Institute, Faculty of Dentistry, University of Otago, New Zealand
- Professor Amadi Ihunwo collaborated with the University of Ibadan, Ibadan, Nigeria.

Staff and student participation in congresses
- Desiré Brits: 41st Annual Conference of the Anatomical Society of Southern Africa, University of KwaZulu Natal,
Durban, South Africa (20 – 24 April 2013).

- **Desiré Brits**: 9th Annual Meeting of the Balkan Academy of Forensic Sciences, Istanbul, Turkey (12 – 15 June 2013).
- **Robert Ndou and Lynne Schepartz**: The 1st Imaging with Radiation Conference (IMRAD1) and Workshop, 23 – 27 September 2013, Pelindaba, South Africa.
- **Robert Ndou and Lynne Schepartz**: The 2nd International Conference on Forensic Research & Technology” (Forensic Research – 2013) during October 7-9, 2013 - Las Vegas, USA.
- **Brendon Billings**: Poster for German-South African School on Comparative Neuroscience Group winners (Best Oral Presentation).
- **Brendon Billings**: Poster for 13th Sona International Conference and School on “Drug addiction and the brain” (Morocco). Best poster presentations (Lab group winners).
- **Erin F. Hutchinson, B. Kramer, J.A Kieser**: Forensic Biology Symposium, Sir John Walsh Research Institute, Faculty of Dentistry, University of Otago, New Zealand. Oral Presentation: Developmental changes associated with the immature and mature mandible.
- **Erin F. Hutchinson, B. Kramer, J.A Kieser**: International Association of Dental Research (General Session: Seattle, Washington, USA) Poster Presentation: Morphometric changes in the early and late human mandible.
- **Erin F. Hutchinson, J.A Kieser, B. Kramer**: American Association of Physical Anthropologists (General Session: Knoxville, Tennessee, USA. Poster Presentation: An assessment of the growth and development of the paediatric tongue and mandible within a South African population.
- **Kolkenbeck-Ruh, C. Hartmann, Erin F. Hutchinson**: University of the Witwatersrand Interfaculty Postgraduate Symposium (Johannesburg, South Africa). Oral Presentation: Anatomical Variations in the superior thyroid artery within the South African population.
- **Professor Amadi Ihunwo** participated in the following congresses:

Hosting of a Congress/Research Day/Research Workshop

**Professor Amadi Ihunwo** facilitated the following workshops:

- 6th Teaching Tools in Neuroscience Workshop, Rabat, Morocco. 7 – 13 June 2013.
- IBRO/ISN Neuroscience School, University of Ibadan, Nigeria. 02 – 07 December 2013.

Publications

Visitors

Professor Anthony Turner from University of Leeds, Britain visited the School of Anatomical Sciences and presented a most interesting lecture entitled *Biology of neurodegeneration: progress towards mechanisms and therapies* on 29 October 2013.

From left: Professor Anthony Turner, Dr Natalia Nalivaeva, Professor Amadi Ihunwo, Brendon Billings and Tanya Augustine.

9.2. SCHOOL OF CLINICAL MEDICINE

CARBOHYDRATE AND LIPID METABOLISM RESEARCH UNIT – DEPARTMENT OF INTERNAL MEDICINE

Director: Professor Frederick Raal

Awards/Recognition

- **Professor FJ Raal** is a member of the European Atherosclerosis Society Consensus Panel which is developing new guidelines on the management of familial hypercholesterolaemia for Europe.
- **Professor Raal** was awarded a Faculty of Health Sciences Research Award in July 2013.
- The Unit received the 2013 AstraZeneca LASSA award for the best publication in the field of Lipidology in South Africa published in the preceding two years.
- **Professor Raal** is an ongoing active member of the Endocrine Society in recognition of achievements in clinical practice, research and education in the field of Endocrinology.

Significant Publications:

Participation in Congresses

- The Unit presented two posters and gave two oral presentations at the SEMDSA/LASSA Congress held in Johannesburg from 18-21 April 2013.
- Professor Raal was an invited speaker at the 81st Congress of the European Atherosclerosis Society (EAS), and delivered a plenary lecture.
- Professor Raal was an invited speaker at the European Society of Cardiology (ESC) meeting held in Amsterdam from 31 August – 4 September 2013. He gave an oral presentation and two poster presentations.

Prestigious research visitors

- Dr Michael Irwig, Assistant Professor of Medicine, George Washington University, Pennsylvania visited our Unit in February 2013 and gave an interesting lecture on “The use and abuse of anabolic steroids”.
- Professor Ian Campbell, Emeritus Professor of Medicine, University of St Andrews, Scotland visited the Unit in July 2013 and gave a talk on “The importance of blood glucose monitoring for improved glycaemic control”.
- Professor Gordon Francis, Professor of Endocrinology & Metabolism, University of British Columbia, Vancouver, Canada visited our Unit in August 2013 and is keen to collaborate in Lipid research.
- Professor Steven Soldin visited the Unit as part of the Wits Alumni Diaspora Program in August 2013 and delivered an interesting talk on “Anylate specificity in improving diagnosis and treatment of endocrine conditions”

CLINICAL HIV RESEARCH UNIT – DEPARTMENT OF INTERNAL MEDICINE

Director: Professor Iann Sanne

Awards/Recognition

- Professor Cindy Firnhaber received the Faculty of Health Sciences research award in July 2013.
- Professor Ian Sanne also received the Faculty of Health Sciences research award in July 2013.
- Alana Brenan - 20th Annual Conference on Retroviruses and Opportunistic Infections (CROI) 2013, Atlanta, GA. Awarded a Young Investigators Award for “Viremia Copy-years as a Measure of Viral Load Burden and Associated Mortality Risk among Antiretroviral Therapy Patients in Johannesburg, South Africa” and “The Effect of 30 vs. 40mg of Stavudine vs. Tenofovir on Treatment Outcomes amongst HIV-positive Patients in Johannesburg, South Africa”.

Substantial Research Grants/ Funding

- 2 UM1 AI069463-08 (Rees / Sanne) 15 Mar 2007- 31 Jan 2021. Clinical Trials Units for NIAID Networks (UM1) 2013 funding - $4,686,848
  The major goals of this project is that the HIV/AIDS Clinical Trials Networks and their CTU/CRS will pursue clinical trials to address the highest priorities in HIV/AIDS research, including: 1) Adult HIV therapeutic strategies, including HIV cure, noninfectious comorbidities, and the infectious comorbidities of hepatitis and tuberculosis; 2) strategies to address HIV and HIV-associated infections in pediatric and maternal populations; 3) integrated HIV prevention strategies; 4) microbicide strategies to prevent HIV infections; 5) vaccines to prevent HIV infections; and 6) strategies to address antibacterial resistance.
- 2 UM1 AI068635-08 (Kuritzkes) 01 Jun 2012 – 31 Dec 2021. NIAID 2013 funding $187,230
  ACTG LEADERSHIP # 108079 (AIDS Clinical Trials Group Network).
  The major goal of this project is for the ACTG Leadership to oversee the overall administrative, scientific, and laboratory management of the ACTG and provides guidance to and coordinates the activities of the Leadership and Operations Center, the Network Coordinating Center, and the Statistical and Data Management Center.
- AID-674-A-12-00029 (Long) 01 Oct 2012 – 30 Sept 2017. USAID $5,000,000
  HIV Innovations for Improved Patient Outcomes for Priority (INROADS)
  The major aim of this project: INROADS is a program of operations research, economic evaluation and policy analysis aimed at assisting the South African Government to achieve the goals of its National Strategic Plan on HIV, STIs, and TB 2012-2016 (NSP). This includes a set of activities for strengthening South African capacity to generate policy-relevant information and use it to improve program implementation.
- 5UM1 AI068636-07 (Kuritzkes) 01 Jun 2012–31 Dec 2014. NIAID / DAIDS 2013 funding $381,180 HPTN 052
A Randomized Trial to Evaluate the Effectiveness of Antiretroviral Therapy plus HIV Primary Care versus HIV Primary Care Alone to Prevent the Sexual Transmission of HIV-1 in Serodiscordant Couples

- **STREAM** (Nunn A) 01 Jul 2012–Jun 2015. USAID / IUATLD $1,213,537
  The Evaluation of a Standardized Treatment Regimen of Anti-Tuberculosis Drugs for Patients with MDR-TB. The major aim of this study is to assess whether the proportion of patients with a favorable efficacy outcome on the study regimen is not inferior to that on the control (WHO approved MDR-TB) regimen, and to compare the proportion of patients who experience grade 3 or greater adverse events, during treatment and follow-up, in the study regimen as compared to the control regimen.

- **START** Wood, R (PI) 01 Sept 2011–31 Aug 2016. University of Cape Town $1,214,537
  Strategic Timing of Antiretroviral Treatment
  The goal of this research is to establish whether earlier ART would prevent morbidity and mortality in HIV

  International epidemiologic Databases to Evaluate AIDS (IeDEA) Southern Africa. The continued commitment of the Clinical HIV Research Unit (CHRU) to contribute clinical data to IeDEA-SA annually and we that these data can be used for regional, multiregional and consortium-wide analyses.

  A multiple arm, multiple stage (MAMS), phase 2, open label, randomized, controlled clinical trial to evaluate four treatment regimens including SQ109, two increased doses of rifampicin, and moxifloxacin in adult subjects with newly diagnosed, smear-positive pulmonary tuberculosis

**Significant local collaborations**

<table>
<thead>
<tr>
<th>Names of main collaborators</th>
<th>Institution &amp; Department name</th>
<th>Brief activity description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kurt Firnhaber</td>
<td>Right To Care</td>
<td>Technical Assistance</td>
</tr>
<tr>
<td>Wendy Stevens</td>
<td>NHLS</td>
<td>Technical Assistance - Laboratory</td>
</tr>
<tr>
<td>Jessica Trusler</td>
<td>BARC SA</td>
<td>Technical Assistance – Research Laboratory Requirements</td>
</tr>
<tr>
<td>Gavin Churchyard</td>
<td>Aurum Institute</td>
<td>TB Policy</td>
</tr>
<tr>
<td>Andreas Diacon</td>
<td>Stellenbosch</td>
<td>TB Expert / Technical Assistance</td>
</tr>
<tr>
<td>Robin Wood</td>
<td>UCT</td>
<td>HIV</td>
</tr>
<tr>
<td>Provincial Department of Health, TB Alliance</td>
<td>City of Joburg</td>
<td>Annual Event – World TB Day Volunteer community and social workers join forces with provincial nurses: VCT/HCT in poor resource communities at soup kitchens, churches and taxi ranks. A TB Imbizo is also held.</td>
</tr>
<tr>
<td>Community Witkoppen &amp; Westdene</td>
<td>Community Advisory Board (CAB)</td>
<td>Education campaign in poor resource settings to reduce stigmatization of HIV/AIDS &amp; TB</td>
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**Significant international collaborations**

<table>
<thead>
<tr>
<th>Names of main collaborators</th>
<th>Institution &amp; Department name</th>
<th>Brief activity description</th>
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<tbody>
<tr>
<td>Prof Sydney Rosen</td>
<td>Center for Global Health and</td>
<td>These collaborators worked on</td>
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</table>
Prof Matthew Fox
Prof Bruce Larson
Prof William Macleod
Prof Gesine Meyer Rath  
Development, Boston University, Boston, MA, USA.  
all economic and epidemiology projects led by the Health Economics and Epidemiology Research Office

National Institutes of Health  
NIH funded network collaborations with the HIV Prevention Trial Network and the AIDS Clinical Trials Group  
Various grant applications for individuals in poor resource settings

Prof Myron Cohen
Prof Charles van der Horst
Prof Annelies van Rie
Prof Jennifer Smith  
University of North Carolina School of Public Health  
Various USAID and NIH grants in HIV prevention and treatment of HIV and TB

Prof Luis Montaner  
Wistar Institute Philadelphia Pennsylvania  
Multiple studies evaluating the immunology in HIV patients and TB and HPV coinfected HIV patients

Prof Daniel Westreich  
Duke University  
Much of this work, including his dissertation and postdoctoral work, and the ongoing R00, has been done in close collaboration with colleagues at the Clinical HIV Research Unit at the University of the Witwatersrand, including Prof Ian Sanne and Drs Mhairi Maskew, Cindy Finnhaber, and Denise Evans. Their collaboration on analyses of data from the Themba Lethu Clinic in Johannesburg South Africa, has been absolutely invaluable to his work. There is future work planned with numerous CHRU personnel, as well.

International Funding Agency  
USAID  
Patient Care projects at the CHRU Clinic

Participation in Congresses/ Workshops

**ORAL PRESENTATIONS – 2013**

- Manu O. Platt, Philip M. Keegan, Clement Penny, and **Denise Evans**. A novel, multiplex cathepsin zymography assay to monitor adherence to antiretroviral therapy in resource limited settings. 17th ICASA Conference 2013. Cape Town, South Africa. 7 – 11 December 2013. (oral presentation)

- **Moyo F**, Chasela C.C and **Evans D**. Comparison of treatment outcomes of patients starting antiretroviral therapy in a private or public HIV clinic in Johannesburg, South Africa. 9th Public Health Association of South Africa (PHASA) Conference in collaboration with the African Federation of Public Health Associations (AFPHA), 26-27 September, Cape Town, South Africa.


- **Fox M**, Shearer K. Current CD4 count, more than baseline, predicts loss to follow-up from care. 18-21 June 2013, ICC Durban, South Africa
• Evans D, McNamara L, Maskew M, Selbas K, van Amsterdam D, Baines N, Webster T and Sanne I. Impact of nutritional supplementation on immune response, body mass index and bioimpedance in HIV-positive patients starting antiretroviral therapy. 18-21 June 2013, ICC Durban, South Africa
• Berhanu R, Naidoo S, Evans D, Jong E, and Mellet K. Drug induced liver injury (DILI) in TB co-infected HIV-positive patients attending a hospital-based TB clinic in Johannesburg, South Africa. 18-21 June 2013, ICC Durban, South Africa
• Takvu S, Maskew M, Evans D, Sanne I, MacPhail P and Fox M. Impact of varying CD4 count levels on the prognostic value of baseline and last haemoglobin measurement on death among patients on antiretroviral therapy. 18-21 June 2013, ICC Durban, South Africa
• Takvu S, Maskew M, Evans D, Sanne I, MacPhail P and Fox M. Anemia is a strong risk factor for death regardless of CD4 count among patients on anti retroviral therapy. 6th SA AIDS Conference, 18-21 June 2013, ICC, Durban.

POSTER/ABSTRACT PRESENTATIONS – 2013
• Nnambalirwa M, Evans D, McNamara L and Nyasulu P. Markers of poor adherence among HIV-positive adults on antiretroviral therapy at Thembalethu Clinic, Johannesburg, South Africa. 17th ICASA Conference 2013. Cape Town, South Africa. 7 – 11 December 2013. (poster presentation)
• F Moyo, Chasela C.S, and Evans D. Comparison of treatment outcomes of patients starting antiretroviral therapy in a private or public HIV clinic in Johannesburg, South Africa. 9th Public Health Association of South Africa (PHASA) Conference in collaboration with the African Federation of Public Health Associations (AFPHA), 26 – 27 September 2013, Cape Town, South Africa
• Mohamed K, Evans D, Sauls C, Richter K, Smith J and Firnhaber C. Human papilloma virus (HPV) testing on self-collected specimens: perceptions among HIV positive women attending rural and urban clinics in South Africa. SA AIDS, Durban 18th – 21st June, 2013
• McNamara L, Takuva S and MacPhail P. Variation in common Vitamin D receptor polymorphisms by racial group and HIV serostatus in Johannesburg, South Africa. SA AIDS, Durban 18th – 21st June, 2013
• Mahomed K, Evans D, Sauls C, Richter K, Smith J, Firnhaber C. Human Papillomavirus (HPV) testing on self-collected specimens: Perceptions among HIV Positive women attending rural and urban clinics in South Africa. 6th SA AIDS Conference, 18-21 June 2013, ICC Durban, South Africa
• Isherwood L, Kushner N, Conradie F, Fallows D, Louw R, Veldsman C, Axcell A, Diniso P, Nkosi Y, Duse A. Sequencing of Drug Resistant Mycobacterium tuberculosi Samples from a Cohort of Patients in a TB Hospital in
Gauteng, South Africa. 20th Conference on Retroviruses and Opportunistic Infections, Atlanta, USA. 3-6 March 2013. Session 147 – Poster Abstract Paper #844


- Brennan A, Maskew M, Sanne I and Fox M. The Effect of 30 vs 40 mg of Stavudine vs Tenofovir on Treatment Outcomes amongst HIV infected Patients in Johannesburg, South Africa. 20th Conference on Retroviruses and Opportunistic Infections, Atlanta, USA. 3-6 March 2013. Session 197 – Poster Abstracts Paper #1098


Hosting of a Congress/Research Day/Research Workshop

- Journal Club – CHRU
  The Clinical HIV Research Unit has hosted 16 Journal Club Meetings throughout 2013. Various topics were discussed mainly HIV, TB and Infectious Diseases. These Journal Club meetings have been attended by various researchers, investigators and students as well as internal staff from CHRU and Right To Care. In total there were 135 attendees during 2013. 1 CPD point per hour has been accredited for Journal Club.

- HE2RO’s 10th Anniversary
  On 4th December 2013, HE2RO and Boston University’s Center for Global Health and Development (BU-CGHD) held a celebratory meeting at the Adler Museum at Wits Medical School. The meeting was to celebrate 10 years of collaboration, research and training in the fields of health economics and epidemiology in South Africa. Presentations were given that showcased the research carried out on topics including but not limited to costs and outcomes of ART, models of ART delivery, patient economic outcomes & the benefits of HIV treatment, epidemiological outcomes of HIV treatment rollout, costs and outcomes of treating MDR-TB, loss to initiation of HIV treatment & linkage to care, and the role of cost modeling in changing the South African HIV & TB guidelines.

- HE2RO Short courses
  - Workshop on Research Application to Policy. 14 -16 August 2013. Johannesburg. 20 participants. Boston University (BU) instructor
  - Introductory Short course in Epidemiology. 24 – 28 June 2013. Johannesburg. 18 participants. HE2RO instructor
Significant Publications


DEVELOPMENTAL PATHWAYS FOR HEALTH RESEARCH UNIT – DEPARTMENT OF PAEDIATRICS

Director – Professor Shane Norris

Appointments

● Linda Adair (University of North Carolina) and David Dunger (University of Cambridge) appointed as Honorary Professors at DPHRU.

Awards/Recognition

● Professor Shane Norris appointed as Chair of the Organising Committee for the 9th World Congress of the Developmental Origins of Health and Disease.

● Professor Norris is a member of the Chronic Diseases Initiative for Africa.
Significant international research collaborations

- Collaboration with Rollins School of Public Health at Emory University around capacity development in epidemiology and grant funding from NIH, and nesting of Emory summer programme students in DPHRU.

Postdoctoral Fellows

- Dr Celia Hsiao
- Dr Moji Musa
- Dr Rihlat Said Mohamed
- Dr Carren Ginsburg (moved to Agincourt)
- Dr Emily Mendenhall

EFFECTIVE CARE RESEARCH UNIT (ECRU) – DEPARTMENT OF OBSTERICS AND GYNAECOLOGY

Director: Professor Justus Hofmeyr

Substantial research grants

- Calcium and Pre-eclampsia (CAP) study – Funding: A sub-grant from the University of British Columbia, a grantee of the Bill & Melinda Gates Foundation. Sub-grant amount: USD 1.7 million over 5 years: Nov 2010 to October 2015.

Significant Local Collaborations

- Calcium and Pre-eclampsia (CAP) study. Collaborating sites in Southern Africa: University of Cape Town, University of Zimbabwe, University of Stellenbosch. Co-ordination and overall Principal Investigator: Effective Care Research Unit.
- PROMISE PEP study, University of the Western Cape.

Significant International Collaborations

- Calcium and Pre-eclampsia (CAP) study. World Health Organization RHR, Geneva, Instituto de Efectividad Clinica y Sanitaria (IECS), Argentina.
- PROMISE PEP study, University of Montpellier, France.
- Feasibility and Safety Study of a new device (Odon Device) for assisted vaginal deliveries, World Health Organization.

Participation in Congresses/Workshops


Significant Publications

New Research Initiatives

- The ECHO study (evidence for Contraceptive options and HIV Outcomes). Joined international consortium including World Health Organization, Geneva; FHI 360, Durham, North Carolina, USA; Washington University and Wits Reproductive Health Research Institute, to develop a protocol for a major international trial of the effect of hormonal contraception on HIV acquisition.
- The GAP (Gentle Assisted Pushing) Study. Protocol approved by Wits HREC and funding approved by World Health Organization.
- Feasibility and Safety Study of a new device (Odon Device) for assisted vaginal deliveries. Protocol approve by Wits HREC.

Visitors

- Prof Jim Roberts, University of Philadelphia. Annual Steering Committee meeting of the CAP study
PERINATAL HIV RESEARCH UNIT (PHRU) – DEPARTMENT OF PAEDIATRICS

Director: Professor Glenda Gray

Appointments

- Dr Neil Martinson was appointed Adjunct Associate Professor at Johns Hopkins School of Medicine and Faculty member for the Open University of Catalunya, Barcelona for online TB course.

Awards and recognition

- Professor Glenda Gray was honoured by President Jacob Zuma with the National Order of Mapungubwe for her research on the mother-to-child transmission of HIV.
- Professor Glenda Gray received Outstanding African Scientist award from the European & Developing Countries Clinical Trials Partnership (EDCTP).
- Dr. Neil Martinson was awarded the Faculty of Health Sciences Research award and Sanofi Aventis Advisory Board on Rifapentine.
- Ms Janan Dietrich received Harvard CFAR Meeting Award, 6 – 7 December 2013, Cape Town and Time off Grant from Faculty of Health Sciences, University of the Witwatersrand, Johannesburg.

Substantial research grants

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<th>Principal Investigator</th>
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<td>Prof. James McIntyre</td>
<td>ANOVA Health</td>
<td>Pediatric Treatment trials</td>
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<td>Prof. Mark Cotton</td>
<td>University of Stellenbosch</td>
<td>Pediatric treatment trials</td>
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<td>&amp; Tygerberg Hospital</td>
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<td>Prof. Gavin Churchyard</td>
<td>Aurum Institute</td>
<td>HIV Vaccines trials network</td>
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<tr>
<td>Prof. Ian Sanne</td>
<td>Clinical HIV Research Unit (CHRU)</td>
<td>AIDS Clinical Trials Group (ACTG)</td>
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<td>Prof. Helen Rees</td>
<td>Wits Reproductive Health and HIV Institute</td>
<td>Microbicides Research</td>
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<tr>
<td>Prof Shabir Madhi</td>
<td>National Institute for Communicable Diseases (NICD)</td>
<td>Pediatric treatment trials</td>
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<td>Dr Barbara Laughton</td>
<td>University of Stellenbosch</td>
<td>Pediatrics Development</td>
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<td>Prof Anneke Hesseling</td>
<td>University of Stellenbosch</td>
<td>Pediatric TB Research</td>
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<td>&amp; Desmond Tutu TB Research Center</td>
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<td>Larry Corey</td>
<td>Fred Hutchinson Cancer Research Center, USA</td>
<td>HIV Vaccines trials network</td>
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<tr>
<td>Prof. David Adler</td>
<td>University of Rochester, USA</td>
<td>Control &amp; prevention of infectious diseases</td>
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<tr>
<td>Prof. Richard Chaisson</td>
<td>Johns Hopkins University (Multiple), Baltimore, USA</td>
<td>TB research</td>
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<tr>
<td>Prof. Sharon Nachman</td>
<td>Stony Brook University, USA</td>
<td>Pediatric Infectious Diseases</td>
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<td>Paul Palumbo</td>
<td>Dartmouth Hitchcock Medical Center, USA</td>
<td>Pediatric HIV Research</td>
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<tr>
<td>Prof. Diana Gibb</td>
<td>Clinical Trials Unit MRC, London, UK</td>
<td>Epidemiology &amp; Pediatrics</td>
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<td>Prof Abdel Babiker</td>
<td>Clinical Trials Unit MRC, London, UK</td>
<td>Epidemiology and Medical Statistics</td>
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<td>Prof. Michael Boivin</td>
<td>Michigan University, USA</td>
<td>Neurology</td>
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<tr>
<td>Prof Louise Kuhn</td>
<td>Columbia University, USA</td>
<td>Epidemiology</td>
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<td>Prof. Louis Montaner</td>
<td>Wistar Institute, Philadelphia, USA</td>
<td>HIV-1 Immunopathogenesis</td>
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<tr>
<td>Dr Livio Azzoni</td>
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<td>Pediatrics &amp; Immunology</td>
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<td>Dr Emmanouil Papasavvas</td>
<td>Wistar Institute, Philadelphia, USA</td>
<td>Virology – HIV drug resistance</td>
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<td>Professor Nigel Klein</td>
<td>University College London and Oxford University, UK</td>
<td>Infectious Diseases &amp; Immunology</td>
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<td>Dr Helen Payne</td>
<td>University College London and Oxford University, UK</td>
<td>Psychotherapy</td>
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<tr>
<td>Prof. Deenan Pillay</td>
<td>University College London, UK</td>
<td>Virology – HIV drug resistance</td>
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<td>Prof David Cooper</td>
<td>The Kirby Institute for infection and immunity in society, Australia</td>
<td>Antiretroviral therapy research</td>
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<td>Dr Robert Siliciano</td>
<td>Johns Hopkins University, USA</td>
<td>Immunology</td>
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<tr>
<td>Drs. Andrea Ciaramello, Elena Losina, Carolina Rusu and Julie Levison</td>
<td>Harvard school of Public Health / Massachusetts General Hospital</td>
<td>Antiretroviral therapy research, Orthopedics and Arthritis and Epidemiology</td>
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**Significant International Collaborations**

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<tr>
<th>Names of main collaborators</th>
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<tr>
<td>Dr Helena Rabie</td>
<td>University of Stellenbosch &amp; Tygerberg Hospital</td>
<td>Pediatric Infectious Diseases</td>
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<tr>
<td>Dr Marvin Hsiao</td>
<td>University of Cape Town</td>
<td>Pediatric Infectious Diseases and Immunology</td>
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<tr>
<td>Dr Alex Welte</td>
<td>the South African Centre for Epidemiological Modelling and Analysis at Stellenbosch University</td>
<td>Epidemiological Research</td>
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<tr>
<td>Drs. Bhavesh Khana, Tanvier Omar, Caroline Tiemessen</td>
<td>National Institute of Communicable Disease (NICD) / National Health Laboratory Services (NHLS )</td>
<td>TB research</td>
</tr>
<tr>
<td>Prof. Linda-Gail Bekker, Dr. Robin Wood</td>
<td>Desmond Tutu TB Centre, University of Cape Town</td>
<td>TB research</td>
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**Other International Collaborations**

North Carolina University
Staff and Student participation in Congress

Conference / session chairing
- Dr. Neil Martinson was a Co-Chair of the 2013 TRAC-B ICASA Conference, 7-11 December 2013, Cape Town, South Africa.
- Dr Lerato Mohapi was a Co-chair ‘First Line Treatment in Africa’ session at the 17th ICASA Conference, 7 – 11 December 2013, Cape Town, South Africa.

Oral Presentations
- Martinson N A. Household contact tracing for TB and HIV. Symposium on Contact investigation: Operational research to increase case detection and improve the safety of shared air. 44 Union Conference on Lung Health, 3 November 2013, Paris, France.
- Martinson N A. TB Epidemiology, PhD Lecture, Witwatersrand University, Johannesburg, South Africa, 17 July 2013.
- Violari A. Treating children with HIV, when to start and with what? Residential Course Programme. 12-13 June 2013, Eastern Cape, South Africa.
Lafer F, Hornschuh S, Makongoza M, Dietrich J. A qualitative study of antiretroviral treatment adherence amongst adolescents and young adults in Soweto, South Africa. 7th SAHARA Conference, Dakar, Senegal 07-10 October 2013.


Poster presentations


Hosting of a Congress/Research Day/Research Workshop

PHRU Community Advisory Board (CAB) hosted a conference on ‘strengthening community engagement in medical research’ on 03 – 05 December 2013 in Johannesburg. During the conference, training was provided to CAB members to develop/enhance their skills in basic statistics and understanding research reports and publications.

Significant Publications


Tuberculosis research and HIV prevention interventions

- Optimising the Response of Prevention HIV Efficacy in Africa (ORPHEA)
The project is designed to look at cost effectiveness of HIV prevention methods namely; medical male circumcision (MMC), HIV counselling and testing (HCT), pre-mother to-child transmission (PMTCT) in 5 African countries. In South Africa 70 state clinics in KwaZulu Natal, Free State, Gauteng and Mpumalanga have been assessed. Data regarding how these health services are offered and associated costs was collected from health professionals through interviews. Currently data collection has been completed and research team currently doing analysis.

- **Study on Prepex - new device for medical male circumcision**
  - This is a phase d, multisite and non-randomised study assessing the safety, acceptability, and the training requirements of the Prepex Device for Voluntary Medical Male Circumcision in South Africa. The overall objective of the study is to obtain data to inform the possible implementation of the Prepex male circumcision device to assist the scale up of medical male circumcision in South Africa. The project started in August 2013 and is currently ongoing in three sites; Emalahleni in Mpumalanga, Tsakane and Zuzimpilo in Gauteng. A total of 182 participants have been enrolled across these three sites.

- **Studies on new TB Diagnostic tools**
  - Two studies designed to test the effectiveness of the new automated smear reader for improvement of TB diagnosis were initiated in Klerksdorp site in the reporting period;
  - **BL study** – Early Treatment Response in Smear -positive and Smear Negative/GeneXpert Positive Adult TB Patients with HIV Co-infection
  - **BD study** - Operational Assessment of a Novel Automated Acid Fast Bacilli Detection Process and Procurement of Sputum Specimens for Resuscitation promoting Factor Study.
  - Investigators are currently collecting samples in both studies.

**Socio-behavioural HIV Research**

- **Sex workers project**
  - Launched in October 2013, the Soweto Sex Worker Programme is geared to reducing new incidence of HIV through ensuring human rights based access to healthcare and legal services. Using a strong peer education model, the project provides peer outreach, health and human rights education, violence and risk reduction workshops, community capacity building initiatives, as well as HIV counselling and testing services. The programme aims to cumulatively test 80% of the sex worker reached over a 30 month period. Further to this, the project is preparing to conduct an efficacy and adherence to Pre-Exposure Prophylaxis (PrEP) for reducing new incidents of HIV amongst sex workers in Soweto. This multiphase, concurrent mixed-methodology project aims to assess: 1) whether adherence to daily oral Pre-Exposure Prophylaxis (PrEP) can be optimized through an intervention, 2) correlate adherence to PrEP with efficacy of PrEP in preventing new HIV incidents 3), mechanisms to optimizing adherence, and 4) differences in adherence between this and other PrEP studies. In developing a tailoring intervention, the study will be informed by a preliminary Needs Assessment of Soweto Sex Workers. Our PrEP study will form the basis of a feasibility study for a larger PrEP intervention.

**Vaccines research**

- **HIV Vaccine Research - Pox/protein licensure research**
  - Post the success of RV144 vaccine, the PHRU has collaborated with the HVTN to test and further develop the AIDS VAX/ALVAC regimen. The research team is designing and implementing a series of studies to understand whether the regimen that was successful in Thailand will also be successful in SA.

- **Expanded serotype vaccine research for HPV in young adults**
  - V501 is a nonavalent HPV vaccine that aims to improve coverage for cervical cancer and warts prevention beyond Gardacil which is the current best licenced vaccine product. The study is currently enrolling.

- **Flu vaccine study**
  - This study is comparing the effectiveness of the two registered Flu vaccines, Agrippal and Fluvirm in geriatrics. Though these study products are licenced but they have never been tested in geriatrics. The study is currently at the close-out phase.

**Paediatrics research**

- **Tb vaccines for children**
  - In collaboration with AERAS (AERAS 404/P1113), the paediatrics research group started the IMPAACT P1113 / AERAS C-015-404 Phase I/II, study assessing the Safety and Immunogenicity of a Recombinant Protein Tuberculosis Vaccine (Aeras-404) in BCG-Primed Infants. The study is currently at enrollment.
In collaboration with the University of Columbia the pediatrics research team also started the project designed to study chronic effects of HIV and Antiretroviral therapy on growth, co-morbidities, and mitochondrial dysfunction and DNA methylation patterns. The study is currently open for enrollment.

Community outreach activities – Public promotion of research

PHRU research work is supported by long-standing Community Advisory Board that serves as the partner to PHRU. With the support of the CAB the unit remains a leader in community engagement and participation in research. In collaboration with the board the unit continuously creates awareness and educates the community about HIV/AIDS and TB. Investigators use this platform to provide research updates and to promote ongoing research. Outreach activities conducted in the current year includes but not limited to:

- **STI / Condom Week: second week of February** – this outreach is aimed at creating STI awareness and promoting condom usage, exploring the relationship between STIs & HIV. Department of Health and local STI clinics also take part in this activity.

- **World TB Day: 24 March** - In Soweto and in Klerksdorp where our Tb research centres are based platforms were created where communities were educated about signs & symptoms, services available for Tb, how to control an infection. The community was also encouraged to seek help as early as possible as well as importance of completing treatment.

- **International HIV Vaccines Day: May 18** - This event is a good platform to give the community an update of HIV Vaccines research as well as to acknowledge and appreciate volunteers who dedicate their time and effort to be trial participants.

- **S.A National Youth Day: June 16** – With a theme “Young People Taking HIV back to 1976” meaning that if young people fought apartheid in 1976 they can end the HIV epidemic in the present day.

- **S.A National Women’s Day: August 9** - An acknowledgement that women are at the centre of the epidemic and vulnerable in different ways. We acknowledge women trial participants for their commitment and dedication.

- **World AIDS Day, 01 December** - in remembrance of those who have succumbed to the disease and giving hope to those who are infected and affected by the pandemic.

Other initiatives in the reporting period

- **HVTN Site expansion Plan**
  - PHRU members of staff (Fatima Mayat, Tebogo Magopane and Anusha Nana) assisted the HIV Vaccines Trial Network (HVTN) representatives with their Site Expansion Plan in the Sub Saharan Africa region. Prof. Gray is spearheading this program. As a well-established HVTN site, we are offering our expertise and making recommendations to assist the newer sites in developing necessary capacity to conduct HIV vaccines research.

- **PHRU – Wits School of Pharmacy experiential learning program**
  - This initiative commenced in April 2013 between PHRU and Wits Pharmacy School. The aim of this initiative is to expose and up skill the student pharmacists with the knowledge and expertise in clinical research pharmacy, especially related to prevention and treatment of HIV and its associated diseases. PHRU hoped to send a strong message enticing young professionals to remain in the service of their communities especially with the challenges faced in South Africa related to HIV as well as shortages of pharmacists nationwide. During the 4 month rotation of experiential learning, four groups of six fourth year pharmacy students spent 4 sessions each at PHRU over a 2 week period. They were provided a theoretical background and then allowed to job shadow through different areas of the PHRU clinic. Also covered was the clinical trial processes, historic events which has led to the inception of the stringent guidelines and the numerous approval processes that must be followed, sending the message that as a health care professional, serving the community, patient and participant safety and care is the most important goal. We have embarked on training these students to highlight the vital role of a clinical research pharmacist and adherence to good clinical and good pharmacy practice. We hope that the ethical and stringent processes that we have exposed them to, will have left a mark and will lay the foundation for well-rounded professionals entering the workplace and that this experience and on-going support from PHRU will create a strong pharmacist network within clinical research pharmacy.

- **Medical Male Circumcision**
  - PHRU has and continues to play a big role in scaling up MMC, in the reporting period new MMC sites were opened in; Tshepong and Potchefstroom in North West, Pelonomi Hospital and Botshabelo in Free State (Picture no.6 & 7).
Visitors

- Gates Foundation visited Zuzimpilo clinic to observe the PREPEX, Gate Foundation is the funder of this project.
- TB Alliance representatives visited Klerksdorp site for TB day activities with CAB.
- Drs. Richard Chaisson, Dr Jonathan Goloub and Dawdy NM from Johns Hopkins University visited our TB research site.
- Dr. Thomas Evans, the AERAS CEO visited our vaccines research site.
- Mitchel Warren, Executive Director of full name (AVAC) visited vaccines research site.
- Dr. Vicky Cardenas, Director of Epidemiology & Site Feasibility & Utilization. AERAS visited vaccines research site.
- Dr. John Parapatt Director: Strategy & Commercial Excellence visited vaccines research site.
- Dr Zhongkai Shi, Director Clinical Development – AERAS, visited vaccines research site.
- HVTN representatives leading the HVTN site expansion in sub-Saharan Africa visited PHRU – PHRU to leads this site expansion.

PULMONARY INFECTION RESEARCH UNIT – DEPARTMENT INTERNAL MEDICINE

Director: Professor Charles Feldman

Appointments

- **Professor Charles Feldman** was re-appointed on to the Board of the Medical Research Council (SA) for a second term from November 2013 for a period of three years.

Substantial research grants

The following grants were received in 2013:

- Wits Health Sciences Faculty Research Committee (FRC) – R150, 000.
- National Research Foundation – R100, 000.

Significant Local collaborations

- Professor Ronald Anderson, PhD – Emeritus Professor, Medical Research Council Unit for Inflammation and Immunity, Department of Immunology.
- Dr Helen Steel, PhD – Research Scientist in Professor Anderson’s Unit.
- Professor Annette Theron, PhD - Associate Professor in Professor Anderson’s Unit.
- Professor Riana Cockeran, PhD – Professor of Immunology, Department of Immunology, University of Pretoria and Tshwane Academic Division of the National Health Laboratory Services, Pretoria.
- Professor Gregory Tintinger MB BCh, PhD – Professor of Internal Medicine, Steve Biko Academic Hospital and University of Pretoria, Pretoria.

Significant International collaborations

- Professor Tim Mitchell PhD – Division of Infection and Immunity, Institute of Biological and Life Sciences, University of Glasgow, Scotland. This collaboration is related to the work on the pneumococcus, with particular relevance to the studies on the pneumococcus (including genetic studies), pneumolysin, the macrolides, and cigarette smoke condensate.
- Dr Victor Yu – University of Pittsburgh, Pittsburgh, USA. This was a multicentre international collaboration with investigators across the world investigating various aspects of pneumococcal bacteraemia, pneumococcal meningitis and cryptococcal infection. The former project is completed and the latter two still have to be written up.
- Dr Julio Ramirez – Louisville, Kentucky, USA. This is an ongoing multicentre international collaboration with investigators across the world. It has a web (internet)-based case report form and aims at recruiting and investigating various aspects of the management of patients with community-acquired pneumonia across the world.
- Professor Grant Waterer – Perth, Australia and Dr Richard Wunderink, USA. This is a multicentre international collaboration including Australia, South Africa, Argentina and Spain and is investigating genetic factors predisposing to community-acquired pneumonia.
The ICON Group – This is a group of investigators outside of Europe and North America, brought together under an educational grant from Glaxo-Smith Kline. The current Chairperson of this group is Grant Waterer. This study group is involved in the investigation of various aspects of COPD. The first project was completed and published in 2012. The second project under the auspices of ICON is currently underway.

Participation in Congresses/workshops

Professor Charles Feldman was active at the American Thoracic Society Congress, Philadelphia, USA, 17 – 22 May 2013, having both invited and abstract presentations, at the South African Thoracic Society (SATS) Combined Congress, Sun City, South Africa, 5 – 9 June, 2013, with invited and abstract presentations and at the World Federation of Societies of Intensive and Critical Care Medicine Congress, Durban, South Africa, 28 August – 1 September, 2013, with invited presentations. His submitted abstract presentation at SATS on the effect of cigarette smoke condensate on pneumococcal biofilm formation and was awarded the “Best Congress Presentation Award” by the South African Thoracic Society.

Significant Publications


SOWETO CARDIOVASCULAR RESEARCH UNIT – DEPARTMENT OF INTERNAL MEDICINE

Director: Professor Karen Sliwa

Substantial research grants/ funding


Participation in Congresses/Workshops

- Professor Karen Sliwa gave three invited lectures:
  - Contemporary epidemiology of the heart;
  - Managing advanced cardiovascular disease in pregnancy at Groote Schuur Hospital
  - A general lecture on peripartum cardiomyopathy

- Writing Retreat held on 9 and 10 September 2013
Dr Kim Lamont and Mrs Sandra Pretorius attended a Wits Writing Retreat held at Whispering Pines outside Magaliesburg. The retreat was led by Prof Shane Norris from the Developmental Pathways for Health Research Unit (DPHRU). Prof Nigel Crowther, Prof John Pettifor and Dr Lisa Micklefield were also present, as mentors for the group, as well as postgraduate students from Prof Norris’s unit. The purpose of the retreat was to assist each person attending to produce a publication towards October 2013.
Publications

- Sliwa K, Mayosi BM. Recent advances in the epidemiology, pathogenesis and prognosis of acute heart failure and cardiomyopathy in Africa. Heart Online. First, published on May 16, 2013 as 10.1136/heartjnl-2013-303592.

DIVISION OF RADIOLOGY – DEPARTMENT OF INTERNAL MEDICINE

Awards/Recognition

- Professor Savvas Andronikou: Honorary membership to the Society for Paediatric Radiology (North America) 2013.
- Professor Savvas Andronikou: Board Member World Federation of Paediatric Imaging 2013.
- Professor Savvas Andronikou Chairman Outreach World Federation of Paediatric Imaging.
- Professor Savvas Andronikou: ISR International Committee of Radiology Education – TB imaging.
- Professor Savvas Andronikou President of the African Society of Paediatric Imaging 2013.
- Professor Savvas Andronikou: President of the College of Radiologists of South Africa 2012 – 2015.
- Professor Savvas Andronikou: member of ISR 2014 congress committee 2013.
- Professor Savvas Andronikou was also a visiting Professor at the following Institutions:
  - Stanford; Lucile Packard Children’s Hospital USA May 2013.
  - Toronto Hospital for Sick Children May 2013.
  - Columbia Medical Centre New York May 2013.
  - Kansas / Missouri University December 2013.
- Professor Victor Mngomezulu: member of the delegation representing the RSSA at the European Congress of Radiology March 2013.
- Professor Victor Mngomezulu: Senator of the College of Radiologists of South Africa.
- Dr Jaishree Naidoo: Board Member WFPI representing South Africa.
- Dr Jaishree Naidoo: Chair of the South African Society of Paediatric Imaging (SASPI).
- Dr LT Hlabangana: Councillor of the College of Radiologists of South Africa.
- Dr LT Hlabangana: Communications Officer of African Society of Paediatric Imaging 2013.
- Dr LT Hlabangana: Chairperson of RSSA NHI subcommittee.
- Dr Nasreen Mahomed Member of the WHO Radiology Working Group and WHO certified in paediatric CXR readings for vaccine studies.
- Dr Nasreen Mahomed. (One of only 4 radiologists from the world on this 60 member PCV committee): Invited and attended the WHO Short and Long-term Pneumococcal Conjugate Vaccine (PCV) Impact Evaluation meeting in Geneva, September 2013.
- Professors Victor Mngomezulu, Savvas Andronikou, Dr LT Hlabangana and Dr G Rubin are examiners for College of Radiologists of South Africa.

Significant Local research collaborations

- Paediatric Pulmonology; University of Stellenbosch: Ongoing projects on children with lymphobronchial TB in collaboration with dr Pierre Goussard and Prof Robert Gie by Drs Susan Lucas, Ahmed Krim, Dawald Bester, Heleen Hanekom.
- Child Health UCT: Ongoing projects on children with TB in collaboration with Prof Heather Zar by Drs Leisha Rajkummar, Thandi Buthelezi and Gregory Baker.
- UCT Biomedical Engineering: Effects of Motion Corrupted Volumes on DTI Findings between HIV-Infected and Healthy Children. Muhammad G. Saleh, Alkathafi A. Alhamud, Christelle Ackermann, Savvas Andronikou, Barabara Laughton, Andre J.W. van der Kouwe, Ernesta M. Meintjes.
- Department of Child Health, UCT and Red Cross Children’s Hospital UCT. Limited Chest MRI for Detection of Intrathoracic Lymphadenopathy in Children with Suspected TB. Tanyia Pillay, Savvas Andronikou, Sabien Belard, Heather Zar.

Significant International research collaborations

- Children’s Hospital Philadelphia: Recognizing the ‘Nutmeg’ Lung on Fetal MRI - a sign of congenital pulmonary lymphangiectasia. T Victoria, S Andronikou.
- World Federation of Paediatric Imaging: Mediastinal Bedside Ultrasound as a Diagnostic Tool for Childhood Tuberculosis. Sabine Bélard, Washiefa Isaacs, Kara-Lee Pool, Savvas Andronikou, Heather Zar, Brian Garra, Dorothy Bulas, Maria Ines Boechat.
- World Federation of Paediatric Imaging International collaboration: Mini-symposium: WFPI activity offering paediatric imaging to the developing world - Co-ordinator: Savvas Andronikou.
- Karolinska University, Sweden, University of Cape Town: Comparison of three major hospital trauma-imaging referrals and findings: South Africa- Sweden collaboration. Souzana Bellou, Susan Lucas, Savvas Andronikou, Matts Beckman, Jeanine Owen, Steven Beningfield, Anders Sundin, Victor Mngomezulu.
- Derek Harwood-Nash International Fellowship in Paediatric Radiology at Boston Children’s Hospital (USA), affiliated with Harvard University – Dr Nasreen Mahomed, April - June 2013.
- The Second International Training Workshop on Ultrasound Therapy of Tumours: Prof Victor Mngomezulu and Dr Colin J van Rensburg; delegates sent by Gauteng Provincial Government and Wits University, July 2013.

Staff and student participation in congresses
- Assessment of the accuracy of magnetic resonance imaging (MRI) in predicting operability and tumour stage in Wilms’ tumours (Nephroblastomas), when correlated with surgical findings and histopathology – Dr T Pillay – ESPR Congress Budapest June 2013.
- HIV-related cerebrovascular disease: the South African experience – Professor V Mngomezulu European Congress of Radiology, March 2013, Vienna, Austria.
- Africa Health Congress 7 – 9 May 2013, Dr LT Hlabangana and Dr ML Kemp invited speakers–Wits boycotted the congress due to unlawful detention of Prof Karabus in UAE.
- Reading the CXR of the newborn, Professor Savvas Andronikou, Here Be Lungs, Lanzerac 16 – 17 February 2012 (Invited).
- Indications for chest CT and MR scans in neonates & infants, Professor Savvas Andronikou, Here Be Lungs, Lanzerac 16 – 17 February 2012 (Invited).
- Paediatric imaging guidelines, Professor S Andronikou, Update CSIR International Convention Centre, Pretoria, 9 – 11 March 2012 (Invited).
- Imaging in paediatric tuberculosis and HIV, Professor S Andronikou, Update CSIR International Convention Centre, Pretoria, 9 – 11 March 2012 (Invited).
- Beginners guide to imaging the pediatric brain, Professor Savvas Andronikou, 2nd Pan African Radiology Conference 3-6 April 2012, Biblioteca Alexandrina, Alexandria (Invited).
- CT in Abdominal Trauma: Radiation Dose Considerations, Professor S Andronikou, 7th Nordic Trauma Radiology Course, Biomedicum, Helsinki May 21- 24, 2012 (Invited).
- Special Considerations for Pediatric Skeletal Trauma, Professor S Andronikou, 7th Nordic Trauma Radiology Course, Biomedicum, Helsinki May 21- 24, 2012 (Invited).
- Registrar intervention for better after-hours interpretation of CT, Professor S Andronikou, 7th Nordic Trauma Radiology Course, Biomedicum, Helsinki May 21- 24, 2012 (Invited).
• Tuberculosis from Alpha to Omega, Professor S Andronikou, JESPeR lecture 35th Postgraduate Course, European Society of Paediatric Imaging, Athens, May 28 29, 2012 (Invited).


• Corpus callosum thickness on MRI as a surrogate marker of white matter volume in children with HIV and its correlation with developmental scores, Savvas Andronikou, Christelle Ackermann, Barbara Laughton, Els Dobbels, Steve Innes, Reghana Taliep, Ronald van Toorn, Mark Cotton, Bruce Spottiswoode, John Pettifor, 49th Annual Meeting of the European Society of Paediatric Radiology 30th May- 1st June 2012 (Invited).

• Adequacy of paediatric renal tract ultrasound requests and reports, Nishenthal Gavender, Savvas Andronikou, Matthew Goodier, 49th Annual Meeting of the European Society of Paediatric Radiology, Athens 30th May- 1st June 2012 (Invited).

• An Approach To Paediatric X-Rays For The Diagnosis Of TB, Prof Savvas Andronikou, The South African Paediatric Association (SAPA), Bana Pele, Polokwane, 22nd – 26th August 2012.

• What is new in chest imaging? Professor Savvas Andronikou, South African Thoracic Society of SA COPICON Congress, Sun City, 29 August – 2 September 2012.

• New MRI sequences- what they are and what they show, Professor Savvas Andronikou, CUT Radiography Seminar: Spring Clean for a Change, Japie van Lill Auditorium, CUT campus, Bloemfontein, 31 August – 1sr September 2012 (Invited).

• Task shifting / role extension of radiographers for reading paediatric CXR for TB in clinics, Prof. Savvas Andronikou, CUT Radiography Seminar: Spring Clean for a Change, Japie van Lill Auditorium, CUT campus, Bloemfontein, 31 August – 1st September 2012 (Invited).

• Optimising CT Dose in children, Professor Savvas Andronikou, RSSA / SASPI Paediatric Imaging Congress, Sandton 9-11 November 2012 (Invited).


• Assessment of the accuracy of magnetic resonance imaging (MRI) in predicting operability and tumour stage in Wilms’ tumours (Nephroblastomas), when correlated with surgical findings and histopathology – Dr T Pillay, RSSA / SASPI Paediatric Imaging Congress, Sandton 9-11 November 2012.


• Invited Speaker: Radiology society of Ethiopia CME course. Dec 8 2012 Savvas Andronikou,
  - Lectures to Radiology department: (Neonatal ICU interpretation; Paediatric Intracranial infections; Paediatric anatomy; HIV / TB co-infection).
  - Lectures for Radiology Society CME: (How to read an MRI of a child’s Brain; Dose reduction in fluoroscopy).


• Invited Speaker Radiological Society of North America ‘Resident and Fellows Interested in International Outreach Exchange’. Hosted by the ACR RFS International Outreach Subcommittee, December 4th 2013: Professor Andronikou.

• External Examiner for Ethiopian final radiology exit examinations 6th December 2012. Savvas Andronikou.

**Hosting of a Congress/Research Day/Research Workshop**

• RSSA / SASPI Paediatric Imaging Congress, Sandton 9-11 November 2012 (Savvas Andronikou - Organizing Committee, Dr Jaishree Naidoo – Scientific Committee Chair).

• Outreach paediatric imaging training: Tanyia Pillay; Jaishree Naidoo, Savvas Andronikou through SASPI.

Publications

- Andronikou. See Right Through Me. An imaging anatomy atlas: Springer Verlag. 2012 (Chief Editor).

New research initiatives

- A non-invasive and minimally invasive Medicine Research Unit is being planned in collaboration with Chongqing Medical University and HiFUS Corporation in China after Professor Victor Mngomezulu and Dr Colin J van Rensburg’s visit in July 2013.

Visitors

- Professor Kelvin Hong – Johns Hopkins (USA).
- Dr Souzanna Bellou - Karolinska (Sweden).
- Professor Kassa Darge - Children’s Hospital Philadelphia (USA).

DEPARTMENT OF INTERNAL MEDICINE

Substantial research grants


Publications


• Woodiwiss AJ, Libhaber CD, Libhaber E, Sareli P, Norton GR. Relationship between on-treatment decreases in inappropriate versus absolute or indexed left ventricular mass and increases in ejection fraction in hypertension. Hypertension 2012 Sep;60(3):810-7.


• Libhaber CD, Norton GR, Maseko MJ, Majane OH, Millen AM, Maunganidze F, Michel FS, Brocksbank R, Libhaber E, Sareli P, Woodiwiss AJ. Relationship between inappropriate left ventricular hypertrophy independent of absolute or indexed mass and ejection fraction at a community level. J Hypertens. 2013, Jan;31(1):169-76.


DEPARTMENT OF PAEDIATRICS

Substantial research grants

Professor Sithembiso Velaphi received the following grants:

- GDD Grant from CDC - $150 000, October 2012 – September 2013 (Year 1).
- $300 000, October 2013 – September 2014 (Year 2).

- MRC Grant – R150 000; March 2013 – February 2014.

Staff and student participation in congresses

- Professor Haroon Saloojee presented at the following conferences:
  - Getting back on track to meet the child Millennium Development Goals (MDGs) in Gauteng province, South Africa: achievable and at what cost? (poster). 28th International Pediatric Association conference, Melbourne, 24 August 2013.

- Professor Antoinette Cilliers presented at the 6th World Congress Paediatric Cardiology and Cardiac Surgery, 17 – 22 February 2013 in Cape Town.

- Dr Kbashnie Thandrayen received the “New Investigator Award” on the occasion of the 6th International Conference on Children’s Bone Health 22nd-25th June 2013 at Rotterdam, Netherlands for the abstract and oral presentation on “Fracture patterns and bone mass in South African adolescent-mother pairs: The Birth to Twenty cohort”.

- Professor Peter Cooper Chaired a Pre-Congress Workshop and Congress Symposium on “Transforming Health Education – Responding to the Lancet Commission on Health Professional Training for the 21st Century”.

Hosting of a Congress/Research Day/Research Workshop

- Professor Haroon Saloojee was the convener of the 4th South African Child Health Priorities Conference, University of the Witwatersrand, Johannesburg, 31 October – 2 November 2013.

DEPARTMENT OF PSYCHIATRY

Staff and student participation in congresses

- Professors Szabo, Subramaney, Janse van Rensburg, Drs Groenewald and Clark presented at the South African Society of Psychiatrists’ Biological Psychiatry Congress on 29 August – 1 September 2013.

Hosting of a Congress/Research Day/Research Workshop

- The Department of Psychiatry hosted its 25th Annual Research Day on the 12th June 2013.

STEVE BIKO CENTRE FOR BIOETHICS

Appointments

- Dr Kevin Behrens was promoted to Senior Lecturer.

Awards/Recognition

- **Professor Ames Dhai**
  - Member of the National Health Research Ethics Council.
  - President of the South African Medical Association (National) for the period 2013 – 2014.

- **Dr Kevin Behrens**
  - Member of the Faculty Graduate Studies Committee.
  - Member – Editorial Board of *Critical Essays: A Graduate Journal of Philosophy*.

- In December 2013, the **Steve Biko Centre for Bioethics** was awarded the title of World Medical Association (WMA) Co-operating Centre. The title, which is for 3 years, acknowledges the academic contributions that the Centre has made to the WMA, with particular regard to the current revision of the Declaration of Helsinki.

Significant international research collaborations

- The staff of the **Steve Biko Centre for Bioethics** were invited by Professor Carl Mitcham, editor of the *Ethics in Science, Technology and Engineering: An International Encyclopaedia* to contribute to 2nd Edition of the *Encyclopedia*. The revised edition is peer-reviewed and features updated and new material, interpretation of legislation since 2005 and new references. The book is expected to be published in 2014. The following contributions were made:
  - Dr A Egan. *Corruption, Science and Technology in Africa*
  - Dr A Egan. *Development of Science and Technology in Africa*
  - Dr A Egan. *Mining, Development and Ethics in Africa*
  - Dr K Behrens. *Digital Divide, African Perspective*
  - Dr K Behrens. Environmental Ethics, African Perspectives
  - Dr N Tsotsi. *Bioethics, African Perspectives*
  - Professor A Dhai. Participated in decisions on content, shape and form, and collaborations related to the 2nd Edition of the *Ethics in Science, Technology and Engineering: An International Encyclopaedia*. She reviewed and edited entries in her area of and commissioned content, and suggested additional entries. She also participated in the creation of the front and back matter (preface, bibliography and primary source documents).

- In October, the World Health Organisation published the *Report on the Use of Placebos in Vaccine Trials*. This report was an outcome of a meeting on the use of placebos in vaccine trials held in January 2013, at which Professor Ames Dhai served as an expert consultant to the WHO.

- In 2012, Professor Ames Dhai and Prof Eleanor Ross co-supervised the research report of Olga Zvonareva, an MSc Global Health candidate at Maastricht University. The report on the issue of payment of research participants
was accepted for publication in Developing World Bioethics, and published 2013. The published article was a collaborative effort between the Steve Biko Centre for Bioethics at Wits University and the Department of Health, Ethics and Society at Maastricht University.

- Professor A Dhai 2012 – 2013 participated in the World Medical Association’s (WMA) revision of the Declaration of Helsinki Working-Group meetings. The Declaration of Helsinki is the most widely recognised guideline on the ethical conduct of research involving human participants and the 2013 revision was adopted at a General Assembly of the (WMA) in October. Following the adoption of the revised Declaration of Helsinki, the WMA awarded the Centre the title of “World Medical Association Cooperating Centre” in recognition the academic contributions to the WMA.

**Participation in congresses**

- Dr Anthony Egan. *Conscience in Medicine*. Ethics Alive, Faculty of Health Sciences, University of the Witwatersrand.

**Hosting of a Congress/Research Day/Research Workshop**

- The Steve Biko Centre for Bioethics hosts the Faculty’s annual Ethics Alive week. Ethics Alive is a weeklong event that promotes professionalism and ethics in teaching, research and practice of the health sciences. This year the theme was *Healthcare Professionals and Social Conscience*.

**Publications**

New research initiatives

- Professor Ames Dhai, Adv. Yolande Guidozzi and Dr Norma Tsotsi are members of the University's Biobanks Ethics Committee (BEC) which was formed in August 2013. The BEC’s mandate is to:
  - Develop principles, policy and guidelines for the review and approval of applications for the establishment of biobanks;
  - To review all applications for the establishment of biobanks and to make recommendations to the HREC; and
  - To review all research using tissue samples and / or associated data from approved biobanks and make recommendations to the HREC.

Visitors

- 2013 Ethics Alive guest lecturer was Dr Jeff Blackmer, Executive Director, Office of Ethics, Professionalism and International Affairs, Canadian Medical Association, Ottawa, ON.

WITS REPRODUCTIVE HEALTH AND HIV INSTITUTE (WRHI) – DEPARTMENT OF CLINICAL MEDICINE

Director – Professor Helen Rees

Awards/Recognition

- Professor Rees was awarded the Faculty of Health Sciences Recognition of Dedication and Achievement in Research Award.
- Professor Rees was appointed Chairperson of the WHO’s African Regional Advisory Committee on Immunisation.
- Lawrence Mashimbye, Researcher, was featured in the Mail & Guardian’s 200 Young South Africans 2013.
- Dr Admire Chikandiwa, Programme Manager for HPV Research, was one of five researchers under 35 to be honoured by the Society for AIDS in Africa.

Significant research grants

- Wits RHI was awarded in excess of R712,897,135 in grants in 2013, of which R15,576,511 was for research, for varying study durations.

Significant international collaborations

- HARP – HPV African Partnership – a collaboration between LSHTM, University of Montpellier, University of the Witwatersrand and University of Ougadougou.
- D4T study – The d4T study is a Phase 3 pivotal study to assess the safety and efficacy of low-dose stavudine (d4T) relative to the current standard preferred therapy, Tenofovir. The aim is to see if lowering dosages will reduce common side effects of d4T and will allow this much cheaper ARV option to be more safely continued as part of the country’s ARV treatment regimens. The study will be implemented in three sites across South Africa, Uganda and India and is being led by Professor Francois Venter and co-ordinated by Wits RHI.
- STRIVE (formerly Pathways) – RPC to tackle structural drivers of HIV in partnership with LSHTM, MITU, Karnataka Health Promotion Trust, ICRW in India and Washington DC.
- Feasibility of Cash Transfer Interventions in Urban Populations (CHANGE) – collaborations with Johns Hopkins.
- mHealth – Wits RHI's research around mHealth has a number of foci including three PhD-level research projects. The first looks at the impact of maternal health text messages on new mothers’ behaviour, the second investigates mHealth impact on loss to follow-up compared with standard of care, and the third PhD project focuses on retention to care and adherence of an integrated mHealth support service. Additional mHealth research at Wits RHI includes formative studies to guide our new and ongoing projects, investigating pre- and post-ART adherence, testing the use of mHealth for prevention services by sending supportive information around testing by SMS, using mobile phones to encourage parent engagement in child HPV vaccinations, and other innovative mHealth services that will soon be provided to special/vulnerable populations. Additional research will be conducted around the impact of mHealth in rural settings.
- **ECHO** – A planning grant for a clinical trial: a three- or four-arm, multi-centre, randomised controlled trial to evaluate the relative risk of HIV acquisition in women using DMPA, NET-EN, or progestin implants vs. copper IUDs – collaboration with FHI 360.

- **IMPAACT** – The International Maternal Paediatric Adolescent AIDS Clinical Trials (IMPAACT) Group is a cooperative group of institutions, investigators, and other collaborators organised for the purpose of evaluating potential therapies for HIV infection and its sequelae in the infant, paediatric, adolescent and pregnant women populations. It is a collaborative effort between Contract Laboratory Services and Division of AIDS (DAIDS), National Institute of Allergy and Infectious Diseases (NIAID), National Institutes of Health (NIH) and the Eunice Kennedy Shriver National Institute of Child Health and Human Development (EKSNIHCD), NIH.

### Participation in Congresses/Workshops

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Conference Name</th>
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<th>Presentation type</th>
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<tbody>
<tr>
<td>Improving the quality of care in South African health facilities using the National Core Standards, with an emphasis on six priorities</td>
<td>Winnie Moleko; Carol-Anne Marshall (NDOH); Bafana Msibi (NDOH)</td>
<td>ISQua (Regional Meeting)</td>
<td>Accra Ghana</td>
<td>Oral Presentation</td>
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<tr>
<td>Hormonal contraception and risk of HIV: An analysis of data from the MDP301 trial</td>
<td>Crook A., Rees H., Ramjee G., Kamali A., Kapiga S., Chisembele M., Gafos M, Nunn A., Hayes R., &amp; McCoemack S.</td>
<td>CROI</td>
<td>Atlanta, Georgia</td>
<td>Oral Presentation</td>
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<tr>
<td>Characteristics and Management of HAART Failure among Perinatally HIV+ Children and Adolescents: US</td>
<td>Lee Fairlie, Brad Karalius, Kunjal Patel, Russell Van Dyke, George K Siberry, George R. Seage III, Allison Agwu, Hermann Mendez, Rohan Hazra, and Andrew Wiznia</td>
<td>CROI</td>
<td>Atlanta, Georgia</td>
<td>Poster</td>
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<tr>
<td>Preventing New HIV Infections Among Young African Women: Session Title: When Worlds Collide – Adolescents and HIV, in honour of Ed Handlesman</td>
<td>Sinead Delany-Moretlwe</td>
<td>CROI</td>
<td>Atlanta, Georgia</td>
<td>Oral Presentation at a symposium</td>
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<td>Subject</td>
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<tr>
<td>HIV prevention in young women in Sub-Saharan Africa: why is it so difficult</td>
<td>Delany-Moretlwe S.</td>
<td>CROI</td>
<td>Atlanta, Georgia</td>
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<tr>
<td>Factors Associated with Adherence to oral and topical (vaginal gel) PrEP in Johannesburg, South Africa</td>
<td>Jonathan Stadler, Arian van der Straten and VOICE C</td>
<td>8th International Conference on HIV Treatment and Prevention Adherence</td>
<td>Miami</td>
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<tr>
<td>Influences on visit retention in the MTN VOICE trial: an analysis of qualitative data from VOICE C</td>
<td>Jonathan Stadler, Busi Magazi and VOICE C</td>
<td>HANC Behavioural Science Working Group (BSWG)</td>
<td>Miami</td>
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<td>Experience of a targeted recruitment approach for the Microbicide Safety Biomarkers Study in Hillbrow, Johannesburg</td>
<td>Zodidi Kumase, Krishnaveni Reddy, Thesla Palanee, Maria Masalesa, Noxolo Mtabane, Vinodh Edward, Helen Rees, Sinead Delany-Moretlwe</td>
<td>Health District Conference 2013</td>
<td>Johannesburg</td>
<td>Poster</td>
</tr>
<tr>
<td>Strategies to Optimise Retention in the Microbicide Trial Networks VOICE Trial in Hillbrow, Johannesburg</td>
<td>Thesla Palanee, Godspower Akpomiemie, Mikey Guness, Sinead Delany-Moretlwe, Helen Rees</td>
<td>Health District Conference 2013</td>
<td>Johannesburg</td>
<td>Poster</td>
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<tr>
<td>Cutting the ties that bind: Participant Reactions to the Data and Safety Monitoring Board Recommendations for Early Exit from the VOICE trial at the Wits Reproductive Health and HIV Institute Site</td>
<td>Pranitha Ramchuran, Nonkululeko Mashabane, Charlene Govender, Thesla Palanee, Sinead Delany-Moretlwe; Helen Rees</td>
<td>Health District Conference 2013</td>
<td>Johannesburg</td>
<td>Poster</td>
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<tr>
<td>Findings from the patient file review at Daveyton Main Clinic, Ekurhuleni Metropolitan Municipality</td>
<td>Siphamandla Gumede, Ben Montoedi, Samanta Lalla-Edward</td>
<td>SAAIDS</td>
<td>Durban</td>
<td>Poster</td>
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<tr>
<td>Reasons for opting out: Lessons from an mHealth SMS intervention in Johannesburg’s inner city</td>
<td>Lindiwe Farlane, Petronella Goliath-Soyizwaphi, Mothepane Phatsoane, Jesse Coleman &amp; Lwazi Mdlopane</td>
<td>SAAIDS</td>
<td>Durban</td>
<td>Poster</td>
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<tr>
<td>Supporting clinicians in complex HIV/TB management: A short course delivering competency with a replicable assessment model</td>
<td>A J Edge</td>
<td>SAAIDS</td>
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<tr>
<td>Setting ART initiation targets: The importance of addressing both steady state and backlog</td>
<td>Catherine Martin, Nicolette Naidoo, Ambereen Jaffer, Francois Venter, Pierre Barker</td>
<td>SAAIDS</td>
<td>Durban</td>
<td>Poster</td>
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<tr>
<td>From pilot to scale-up: Implementing an mHealth HIV intervention in South Africa</td>
<td>Jesse Coleman, Nicolette Naidoo, Lwazi Mdlopane, Ambereen Jaffer</td>
<td>SAAIDS</td>
<td>Durban</td>
<td>Oral presentation</td>
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<tr>
<td>Impact of an mHealth intervention on CD4 result collection and retention-to-care outcomes</td>
<td>Nicolette Naidoo, Jesse Coleman, Marcha Neethling, Ambereen Jaffer</td>
<td>SAAIDS</td>
<td>Durban</td>
<td>Poster</td>
</tr>
<tr>
<td>Roll-out of the MAMA South Africa text messaging system</td>
<td>Jesse Coleman, Lindiwe Farlane, Petronella Goliath-Soyizwaphi, Ambereen Jaffer</td>
<td>SAAIDS</td>
<td>Durban</td>
<td>Poster</td>
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<tr>
<td>Time to ART initiation in TB/HIV co-infected patients: the impact of drug shortages on ART outcomes</td>
<td>Nicolette Naidoo and Phelly Matlapeng, Kerrigan McCarthy</td>
<td>SAAIDS</td>
<td>Durban</td>
<td>Poster</td>
</tr>
<tr>
<td>Effect of pregnancy on CD4 count among antiretroviral-naive HIV-1-infected women</td>
<td>Renee Heffron, Deborah Donnell, Nelly Mugo, Connie Celum, Helen Rees, Kenneth Ngure, Edwin Were, James Kiarie, and Jared Baeten for the Partners in Prevention HSV/HIV Transmission Study Team</td>
<td>STI &amp; AIDS World Congress (Joint meeting of the 20th ISSTDR &amp; 14th IUSTI)</td>
<td>Vienna</td>
<td>Poster</td>
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<tr>
<td>There is need for multipurpose prevention technologies targeting HIV and common reproductive tract infections: Data from the Microbicide Safety Biomarkers Study team</td>
<td>Mwaura M, Hardy L, Delany-Moretlwe S, Ndayisaba G, Mandaliya K, Verhelst R, Verstraelen H, van de Wijgert J, Crucitti T, Jespers V</td>
<td>20th ISSTDR</td>
<td>Vienna</td>
<td>Poster</td>
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<tr>
<td>Mayaud P on behalf of the HARP study group. HPV genotype distribution in HIV-positive African women and associations with high grade histological lesions, by CD4 count</td>
<td>Kelly H, Ngou J, Sawadogo B, Muzah B, Gilham C, Nagot N, Meda N, Delany S, Segondy M</td>
<td>20th ISSTDR</td>
<td>Vienna</td>
<td>Poster</td>
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<tr>
<td>There’s always hope even if I sacrifice: Communicating the experience of participating in a clinical trial through song</td>
<td>Jonathan Stadler, Sinead Delany-Moretlwe and Hayley McGregor</td>
<td>Medical Humanities Research Group at the Wits Institute for Social and Economical Research (WISER) Conference</td>
<td>Johannesburg</td>
<td>Oral presentation</td>
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<tr>
<td>Monitoring MAMA: Gauging the Impact of MAMA South Africa</td>
<td>Jesse Coleman</td>
<td>ICT4Health, Cape Town</td>
<td>Oral</td>
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<tr>
<td>Genetic Characteristics of HIV-1 Env in the Genital Tract of African Heterosexual Transmission Pairs</td>
<td>Mary S. Campbell, Rachel Payant, Airin Lam, Hong Zhao, Corey Williams, Hannah Huang, James I. Mullins, Anna Wald, Wendy Stevens, Glenda Gray, Carey Farquhar, Helen Rees, Connie Celum, Lisa M. Frenkel, Jairam R. Lingappa</td>
<td>AIDS Vaccine 2013, Barcelona</td>
<td>Poster</td>
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<tr>
<td>Regulation of Vaccines for Tuberculosis in Africa</td>
<td>Helen Ndagije, James Southern, Paul Tanui, Hennie Geldenhuys, Helen Rees, Jan Chappell and Michael J Brennan</td>
<td>First Biennial Scientific Conference on Medicines Regulation in Africa</td>
<td>Johannesburg</td>
<td>Abstract submitted</td>
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<tr>
<td>Designing HIV prevention biomedical research to address the realities of people's lives</td>
<td>Deborah Baron</td>
<td>The 3rd Structural Drivers Conference</td>
<td>Cape Town</td>
<td>Oral</td>
</tr>
<tr>
<td>High acceptability of a mHealth intervention for improving maternal and child health outcomes in the city of Johannesburg</td>
<td>M Phatsoane, L Farlane, P Goliath-Soyizwaphi, S Ncube, NP Naidoo, J Coleman</td>
<td>17th ICASA</td>
<td>Cape Town</td>
<td>Abstract submitted</td>
</tr>
<tr>
<td>Working towards Effective Monitoring and Evaluation of mHealth Interventions for HIV Diagnosis, Treatment and Support</td>
<td>S Ncube, M Phatsoane, M Nengwani, L Mdlopane, J Coleman, NP Naidoo</td>
<td>17th ICASA</td>
<td>Cape Town</td>
<td>Abstract submitted</td>
</tr>
<tr>
<td>The epidemiology of LR-HPV and AGW</td>
<td>Admire Chikandiwa</td>
<td>17th ICASA International Conference on AIDS and STIs in Africa</td>
<td>Cape Town</td>
<td>Oral</td>
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</tbody>
</table>

Hosting of a Congress/Research Day/Research Workshop

- WRHI hosted Civil Society Protocol Development Consultation for the ECHO study (hormonal contraception and ARV interaction).

Publications


• Lawal AO, Musekiwa A, Grobler L. Interferon after surgery for women with advanced (Stage II-IV) epithelial ovarian cancer. Cochrane Database of Systematic Reviews. 2013; 6. DOI: 10.1002/14651858.CD009620.pub2


• Ngou J, Magooa M, Gilham C, Djigma F, Didelot MN, Kelly H, Yonli A, Sawadogo B, Lewis D, Delany-Moretwe S, Mayaup D, Secody M. Comparison of the CareHPV Assay with the Hybrid Capture 2 (HC2) Assay for


**Visitors**

- Adam Habib, Vice-Chancellor, University of the Witwatersrand
- Dr Steven Smith, Health Attaché and HHS Regional Representative for Southern Africa, U.S. Department of Health and Human Services, Embassy of the United States of America
- Delegation of US Senators
- Prof Margi Sutherland, GIBS University
- Marie Louise Newell, Africa Centre
- Professor Tawana Kupe, Deputy Vice-Chancellor, Finance & Operations, University of the Witswatersrand
- Alan J. Magill, Director, Malaria, Global Health Program, Bill & Melinda Gates Foundation
- Connie Collingsworth, General Counsel and Secretary, Bill & Melinda Gates Foundation
- Dr Trevor Mundel, President of the Global Health Program, Bill & Melinda Gates Foundation
- Charlene Reynolds, USAID
- Gary L. Darmstadt, Director, Bill & Melinda Gates Foundation Family Health Division
- Koki Agarwal, Director, USAID Maternal and Child Health Integrated Program (MCHIP)
- Hugh Gosnell, Head of Department, Gauteng Department of Health
- Sarah Sandison, USAID (CHANGE study)
- Anita Sampson, USAID (CHANGE study)
- Jason Wolfe, USAID (CHANGE study)
- Dr Kristina Bishop, University of Arizona
- Dr Jared Baeten , University of Washington, Seattle, ASPIRE Protocol Chair
- Dr Sharon Hillier, University of Pittsburgh, MTN PI
- Dr Jeanna Piper, DAIDS Medical Officer
- Dr Lydia Soto Torres, DAID Medical Officer
- Prof Sharon Nachman, IMPAACT
9.3. SCHOOL OF ORAL HEALTH SCIENCES
DEPARTMENT OF COMMUNITY DENTISTRY

Appointments
- Professor V Yengopal appointed HOD of Dept. of Community Dentistry in September 2013.

Awards/Recognition
- Professor Yengopal appointed President of the International Association for Dental Research (IADR) – SA Division.

Substantial research grants
- The Ruth and Anita Wise Charitable and Educational Trust has awarded a donation in the amount of R100 000 to the University of Witwatersrand Community Oral Health Outreach Programme (COHOP) – facilitated by Professor M Rudolph, Department of Community Dentistry.

Significant local research collaborations
- Collaborating with Department of Health on Mother to child oral Health Project.
- Dr M Molete contributed to the health page of Urban Reality Magazine on behalf of Gauteng Oral Health Directorate.

Significant international research collaborations
- Collaboration with Chinese colleagues at University of Peking on Systematic reviews.

Staff and student participation in congresses
- Ms Z Joosab, Mr M Makabalo & Ms M Malebo presented at the 45th Scientific Congress of the IADR – SA Division, 2013.

New research initiatives
- Establishment of an outreach program for oral health for special needs groups such as Downs Syndrome & Autism.
- Establishment of an outreach program in Diepsloot for student undergraduate and postgraduate clinical training, service delivery and research.

Visitors
- Professor Elsbeth Kalenderian, Chair, Oral Health Policy and Epidemiology Chief of Quality, Harvard Dental Center Harvard School of Dental Medicine, USA.
- Professors T Ogunbede and Owotade from Obafemi Awolowo University in Ife, Nigeria.
SYSTEMATIC REVIEW INITIATIVE FOR EVIDENCE-BASED MINIMUM INTERVENTION IN DENTISTRY (SYSTEM) RESEARCH PROGRAMME – DEPARTMENT OF COMMUNITY DENTISTRY

Directors: Professor Yengopal and Dr S Mickenautsch

Significant Local and International Collaborations

- Department of Biostatistics, GSPH, University of Pittsburgh, Pittsburgh, PA, USA Dr Bo Fu; National Cancer Institute, National Institute of Health, Rockville, MD, USA.
- Center for Evidence-Based Dentistry, The Forsyth Institute, 245 First Street, Cambridge, MA 02142, USA.
- Department of Cariology and Endodontology, Peking University School and Hospital of Stomatology, 22 Zhongguancun South Street, Haidian District, Beijing, China.

Publications

- Mickenautsch S. Coherence of evidence from systematic reviews as a basis for evidence strength – a case study in support of an epistemological proposition. BMC Res Notes 2012; 5: 26.
- Mickenautsch S, Yengopal V. Validity of sealant retention as surrogate for caries prevention – a systematic review. PLOS One 2013; 8: e77103.
- Mickenautsch S, Yengopal V. Direct contra naïve-indirect comparison of clinical failure rates between high-viscosity GIC and conventional amalgam restorations. An empirical study. PLOS One 2013; accepted.

New research initiatives

- Focus of research will be on the dissemination of methodological aspects of clinical research related to disadvantages of using surrogate endpoints, naïve-indirect comparison and related to the validity tests for 2nd and 3rd order selection bias in randomised control trials. Additional focus will be given to the update of current systematic reviews.

DEPARTMENT OF ORAL PATHOLOGY

Awards/Recognition

\begin{itemize}
\item Ngwenya S P: Reviewer for \textit{Head and Face Medicine}.
\item Ngwenya S P: Reviewer for the \textit{South African Dental Journal}.
\item Meer S: Guest Editor for \textit{Head and Neck Pathology} [July 2011 until July 2014].
\item Meer S: Invited as Lead Guest Editor for Special Issue in \textit{International Journal of Dentistry} [2012/2013].
\item Dr R Carim received best poster presentation by postgraduate student at the School of Oral Health Sciences (SOHS) Research Day.
\end{itemize}

\textbf{Dr R Carim receiving best poster presentation by postgraduate student at the SOHS Research Day}

\textbf{Substantial research grants}
\begin{itemize}
\item NHLS Research Trust: R90 000: Patel K, Mahomed F, Meer S: A comparative immunohistochemical study of the “biphasic ductules” in adenoid cystic carcinoma, pleomorphic adenoma and epi-myoepithelial carcinoma.
\item NHLS Research Trust: R90 000: Meer S, Perner Y, Willem P: Assessments of MYC re-arrangements in extra-oral plasmablastic lymphomas.
\end{itemize}

\textbf{Significant local and international research collaborations}
\begin{itemize}
\item University of Limpopo, South Africa: Noffke CEE, Nzima N, Ngwenya SP, Erich Raubenheimer E, Rakgwale NB. Gigantiform cementoma in a child.
\item University of Limpopo, South Africa: Hangelbroek J, Raubenheimer EJ, Vorster RJ, Ngwenya SP. Collagen in odontogenic tumours: a histochemical- and immunohistochemical study of 19 cases.
\item University of Pretoria, South Africa: Pathologic Conference Case 1: Lesion Presenting as a Haemorrhagic Mass of the Alveolar Ridge. Ngwenya SP, Bunn B K.
\item University of Limpopo, University Witwatersrand, Department of Oral Medicine and Periodontology. Diffuse peripheral odontogenic fibroma with concomitant plasma cell gingivitis – a case report and literature review. Wood NH, Carim R, Ngwenya SP.
\item University of Vermont, USA: Paquette C, Meer S, Cooper K, Evans, M, Adamson, C, Rajendran V. HPV-31: a dominant genotype in black South African oropharyngeal carcinomas.
\item University of Limpopo, South Africa: Chandran R, Meer S, Feller L. Oral leukoplakia in a South African sample: a clinicopathological study”.
\item University of Limpopo, South Africa: Khammissa R, Meer S, Feller L. Oral squamous cell carcinoma in a South African sample: a clinicopathological study.
\end{itemize}

\textbf{Staff and student participation in congresses}
\begin{itemize}
\item Ngwenya SP. Clinicopathological conference: Undifferentiated

Ngwenya SP. Convener and Chair: Community Based Research in Dentistry Colgate Competition. XLV (45TH) Scientific Meeting of the IADR (SA DIVISION). Pretoria, South Africa, September 12, 2013.

Ngwenya SP. Convener: Best poster presentation in dental materials (Charles Valcke award) XLV (45TH) Scientific Meeting of the IADR (SA DIVISION). September 12, 2013.

Ngwenya SP. Judge: Postgraduate Competitions. XLV (45TH) Scientific Meeting of the IADR (SA DIVISION). September 12, 2013.


Kungoane T, Meer S, Mahomed F. Ki-67 expression in salivary gland neoplasms. XXIX Congress of the International Academy of Pathology, Cape Town, South Africa, 30 September – 5 October 2012.


Hosting of a Congress/Research Day/Research Workshop

Meer S: member of the Steering Committee for the Head and Neck Sub Committee of the 2012 IAP Congress. XXIX Congress of the International Academy of Pathology, Cape Town, South Africa, 30 September – 5 October 2012 [www.iapsouthafrica.co.za].

Publications


Dulabh S, Meer S. Cystic lymphoid hyperplasia: an orofacial lesion strongly associated with HIV and AIDS. Histopathology (in press).


### DEPARTMENT OF ORAL BIOLOGICAL SCIENCES

**Awards/Recognition**

- Dr Julitha Molepo: Reviewer for the South African Dental Journal.
- Dr Julitha Molepo: Chair – SOHS Research Day Committee and SOHS Assessor group meetings.

**Significant local research collaborations**

- University of Limpopo, Medunsa Campus: Ms E Sekati-Oral Pathology on Candida clades project.

**Significant international research collaborations**

- Collaboration with Dr Allan Pillay, CDC, Atlanta on oral treponemes project.

**Staff and student participation in congresses**

- **Ms R Ramoncha** poster presentations:
  - Microbial contamination and decontamination of toothbrushes from patients attending the Oral Hygiene clinic of the Wits Dental Hospital, SOHS Research Day, August 22, 2013.
  - Microbial contamination and decontamination of toothbrushes from patients attending the Oral Hygiene clinic of the Wits Dental Hospital, XLV (45TH) Scientific Meeting of the IADR (SA DIVISION). September 12, 2013.
  - Microbial contamination and decontamination of toothbrushes from patients attending the Oral Hygiene clinic of the Wits Dental Hospital, 5th FIDSSA conference, October, 2013.

- **Dr J Molepo** presented at the following conference:
  - Experimental induction and retention of antifungal resistance among *Candida albicans* clades. 5th FIDSSA conference, October, 2013.

- **M Molaudzi**: Effectiveness of chlorhexidine and microwave in disinfecting pacifiers and toothbrushes. IADR conference, XLV (45TH) Scientific Meeting of the IADR (SA Division). September 12, 2013.

**Hosting of a Congress/Research Day/Research Workshop**

- **Dr J Molepo** coordinated and organized Writing retreats for School of Oral Health Sciences also chaired SOHS Research Day committee.
- **Ms R M Ramoncha, Ms M Molaudzi, Ms M Sibeko, Dr S Moeno and Mr O Olaleye** also coordinated the SOHS Research Day.
Publications


New research initiatives

- The Department is working on new research projects on Nanomaterials use in Dental Research.

Visitors

- Dr Sue Boynton, Senior Dento-Legal Adviser, Dental protection, UK gave a lunch hour talk to SOHS: “Keeping out of trouble – ethics and professionalism”

DEPARTMENT OF ORAL REHABILITATION

Awards/Recognition

- **Professor C P Owen** was inaugurated as President of the International College of Prosthodontists, the World body for that specialty.
- **Adjunct Professor D G Howes** is Vice-President of the International Society of Maxillofacial Rehabilitation, and also serves on the Board of the International College of Prosthodontists.
- **Dr M Mothopi** was appointed by the Minister of Health to the South African Dental Technicians Council and is a member of the Executive committee, the Chair of the CPD committee, and a member of several task teams.
- **Dr K Bennie** and **Professor Owen** won a Poster Award at the 15th Biennial Conference of the International College of Prosthodontists in Turin, Italy.
- **Dr K Bennie** won the Postgraduate Award of the SA Division of the International Association for Dental Research. Dr Bennie also won Postgraduate Award at the School of Oral Health Science Research Day.
- The **BDS 4 student group** supervised by **Professors Owen** and **Yengopal** won the Undergraduate Award of the SA Division of the International Association for Dental Research.
- **Dr M Michael** won the best poster in implantology award at the School of Oral Health Science Research Day.

Significant international research collaborations

- Professor Owen is collaborating with Professor M MacEntee (University of British Columbia) and Professor N Creugers (University of Nijmegen, Netherlands) as joint editors of a book on dentistry for underserved communities.

Staff and student participation in congresses, workshops, etc.

**Professor C P Owen:**

- Was an invited focus session speaker at the 15th Biennial Conference of the International College of Prosthodontists in Turin, Italy.
- Presented a guest lecture on CAD/CAM to general dental practitioners at the invitation of Sirona, South Africa.
- Co-author of 6 posters presented at the 15th Biennial Conference of the International College of Prosthodontists in Turin, Italy.
- Co-author of a poster presented at the International Team for Implantology (ITI) international meeting in Midrand, SA.
- Invited speaker at the Limpopo branch of the SA Dental Association.
- Invited speaker at the Commonwealth Dental Association meeting, Johannesburg.
- Invited speaker at the annual scientific day of the Academy of Prosthodontics of South Africa, Johannesburg.

**Adj Professor D G Howes:**

- Was Primary Guest Speaker at the Cuban Maxillofacial Prosthetics meeting, Havana, Cuba, presenting Keynote series of five lectures.
- Co-author for two posters presented at the 15th Biennial Conference of the International College of Prosthodontists in Turin, Italy.
- Key Note and Invited Speaker at the Combined Meeting of the International Society for Maxillofacial Rehabilitation and the American Academy of Maxillofacial Prosthetics, New Mexico.
- Presented a series of lectures to the Durban ITI study group.
- Presented five local courses at the Brånemark on Implant Dentistry.
- Guest Speaker at the Dental Technicians Association of South Africa annual congress, Durban.
- Co-author of a poster presented at the International Team for Implantology (ITI) international meeting in Midrand, SA.

**Adj Professor E M Veres:**
- Presented a paper at the School of Oral Health Science Research Day

**Adj Professor J L Shackleton:**
- Co-author of two posters presented at the School of Oral Health Science Research Day

**Dr M M Mothopi:**
- Principal author of a poster presented at the 15th Biennial Conference of the International College of Prosthodontists in Turin, Italy.
- Principal author of a poster presented at the International Team for Implantology (ITI) international meeting in Midrand, SA.
- Invited speaker at the National Oral Health Month Congress, Kimberley, SA.

**Dr L M Naidoo:**
- Co-author for two posters presented at the 15th Biennial Conference of the International College of Prosthodontists in Turin, Italy.
- Attended an International advanced course in Endodontics in Ballaigues, Switzerland
- Attended the International Team for Implantology (ITI) international meeting in Midrand, SA.

**Dr V J Hoods-Moonsammy:**
- Co-author for two posters presented at the 15th Biennial Conference of the International College of Prosthodontists in Turin, Italy.

**Dr V Karic**
- Presented a paper at the School of Oral Health Science Research Day.
- Invited lecture to the public sector dental practitioners Central Region, Johannesburg.

**Dr S Tootla**
- Attended courses in CAD/CAM; Endodontic retreatment.

**Dr E Patel**
- Invited lecture to the public sector dental practitioners Central Region, Johannesburg.
- Invited lecture to private dentist group, Northcliff.

**Dr B Harilal:**
- Attended the International Team for Implantology (ITI) international meeting in Midrand, SA, and local ITI study club meetings.

**Dr V Daya-Roopa:**
- Attended the International Team for Implantology (ITI) international meeting in Midrand, SA, and local ITI study club meetings.

**Dr T Qwabe:**
- Attended South African Society of Endodontics and Aesthetic Dentistry (Nomads) international meeting, Johannesburg

**Dr MG Thokoane:**
- Invited speaker at the Graduate Students Treatment Planning session at the 15th Biennial Conference of the International College of Prosthodontists in Turin, Italy
- Principal author of a poster presented at the 15th Biennial Conference of the International College of Prosthodontists in Turin, Italy
- Principal author of a poster presented at the School of Oral Health Science Research Day

**Dr K Bennie:**
- Gave winning presentation at the School of Oral Health Science Research Day
- Gave winning presentation at the SA Division of the International Association for Dental Research
- Principal author of a winning poster at the 15th Biennial Conference of the International College of Prosthodontists in Turin, Italy

Dr M Michael:
- Principal author of a winning poster at the School of Oral Health Science Research Day.
- Principal author of a poster and co-author of another at the 15th Biennial Conference of the International College of Prosthodontists in Turin, Italy.
- Attended an Advanced Implant Dentistry Course at the P-I Brånemark Institute South Africa.
- Attended a Master Course in Modern Evidence Based Implant Dentistry Focusing on Surgical & Prosthetic Aspects during the 1st Emirates Education Week (Sharjah, UAE). This was the prize for the winning poster at the School of Oral Health Science Research Day.
- Attended the International Team for Implantology (ITI) international meeting in Midrand, SA.

Dr N Naidoo:
- Principal author of a poster and co-author of another at the 15th Biennial Conference of the International College of Prosthodontists in Turin, Italy.
- Attended course in Maxillary Molar Endodontics; CBCT and reporting; and presented a case at the Co-axis and Zygomatic implants course, P-I Brånemark Institute South Africa.
- Attended the International Team for Implantology (ITI) international meeting in Midrand, SA.
- Principal author of a poster presented at the School of Oral Health Science Research Day.

Dr M Slabbert:
- Attended the 15th Biennial Conference of the International College of Prosthodontists in Turin, Italy.

Dr M Michael receiving best poster implantology award at the SOHS Research Day

Dr K Bennie receiving the Best Oral Postgraduate Award at the SOHS Research Day
Publications


DEPARTMENT OF ORAL MICROBIOLOGY

Awards/Recognition

- Undergraduate: Best oral presentation on a research day was awarded to a final year student Mr N Dlamini.

Staff and student participation in congresses

- Gulube Z and Patel M. Antibacterial effect of Pomegranate against periodontal pathogens and the effect on the biofilm formation by S. mutans. 2ND International conference on clinical microbiology and microbial genomics 16 – 17th September 2013, Hampton Inn -LAS VEGAS, USA.

Publications


DIVISION OF ORAL HYGIENE

Awards/Recognition

- Ms Ralephenya was invited to be a reviewer for the International Journal of Dental Hygiene which is an international high impact journal for Oral Hygienists.
- Ms Vergotine has been appointed to be the Chairperson for the Oral Hygiene Educators Forum (OHEF).
- Ms Mbeje has been appointed as the media liaison on the Oral Hygiene Educators Forum (OHEF).

Significant local and international research collaborations

Local links:
- NHLS
- Special Olympics
- OHEF

African links:
- Faculty of Dentistry, Obafemi Awolowo University, Ile-Ife, Nigeria

Staff and student participation in congresses

- Tshakane Ralephenya
  - Oral presentation at the OHASA CPD workshop in April 2013 on the following topics: “Local Anesthetics and Ethics for Oral Hygienists.” and “Coronal polishing – an overview of the latest trends and products.”
  - Participated and attended the School of Oral Health Sciences Research Day (August 2013). Poster presentation: Title: “Dental caries and oral hygiene status of Special Olympics athletes in four Provinces of South Africa”. Co-Authors: Mokhine IMN, Shangase S.L, Thokoane M M G, Thekiso M.
  - Attended and participated in the XLV (45TH) SCIENTIFIC MEETING OF THE IADR (SA DIVISION) 2013 held in Pretoria (September 2013). Poster presentation Title: “Microbial Contamination and
Decontamination of Toothbrushes from Wits Dental Hospital." Co-Authors: Molepo J, Ramoncha R, Molaudzi M, Volchansky A, Shangase S.L.
- Attended and participated in the XLV (45TH) SCIENTIFIC MEETING OF THE IADR (SA DIVISION) 2013 held in Pretoria (September 2013). Poster presentation. Title: Oral Health status of Special Olympics Athletes in four provinces of South Africa. Co-Authors: Mokhine I.M.N, Shangase S.L.
- Organizing and coordinating the School of Oral Health Sciences Research Day and member of the committee.
- Oral presentation at the Gauteng Radiographers seminar in September 2013 on the following topic: “Ethics for Health Professionals”.
- Oral presentation at the OHASA CPD workshop in October 2013 on the following topic: “Ethics and ICD codes for Oral Hygienists”.

- Glynis Vergotine
  - Oral presentation at the School of Education PhD weekend for Masters by Dissertation. Title, Oral Hygiene Knowledge – data collection presentation. 19 October 2013.

- Patience Phakela
  - Participated in the International Symposium of Dental Hygiene (ISDH) (August 2013). Oral Presentation: “The effectiveness of health promotion activities undertaken by Oral Hygiene students at Wits University”.
  - Participated in the School of Oral Health Sciences Research Day (August 2013). Poster Presentation: “The effectiveness of health promotion activities undertaken by Oral Hygiene students at Wits University”.

- Tsholofelo Mokale

- Deborah Mbeje

- Shahrazaad Hassan
  - Participated in the 2013 19th International Symposium for Dental Hygienists (August 2013) and presented a poster – Title: Oral irrigators as an adjunct to tooth brushing for improved gingival health: A systematic review. Co-Authors: Vergotine G, Moolla A, Yengopal V.
Hosting of a Congress/Research Day/Research Workshop

<table>
<thead>
<tr>
<th>Course offered by</th>
<th>Type of course</th>
<th>Date</th>
<th>Venue</th>
<th>CPD points</th>
</tr>
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<tbody>
<tr>
<td>Colgate-Palmolive and Wits Oral Hygiene</td>
<td>Ethics update</td>
<td>25/01/2013</td>
<td>Wits Dental Hospital</td>
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<td>Wits Oral Hygiene</td>
<td>Dental assistants seminar</td>
<td>26/04/2013</td>
<td>Wits Dental Hospital</td>
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<td>Wits Oral Hygiene</td>
<td>Special needs seminar</td>
<td>11/05/2013</td>
<td>Marie Curie</td>
<td>7</td>
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<td>Wits Oral Hygiene sponsored by Colgate-Palmolive</td>
<td>Dental practice management skills update</td>
<td>22/06/2013</td>
<td>Marie Curie</td>
<td>7</td>
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<td>Wits Oral Hygiene</td>
<td>Cancer lecture</td>
<td>19/09/2013</td>
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</table>

New research initiatives

- Ms Phakela will conduct research for a study titled: “The oral health knowledge of nursing staff at ARV clinic in Johannesburg Metro district.” Protocol completed and ethics approval obtained.
- Mrs Ralephenya and Dr Ngcobo are preparing a protocol on the Oral-Health-Related Quality of Life (QoL) for children with special needs.
- Mrs Ralephenya, Dr Molepo, Ms Ramoncha and Ms Molaudzi are preparing a protocol for a study titled: “Evaluation of Microbial Contaminants on Bib Chains and Bib Clips at the Wits Dental Hospital”.

Visitors

- **Kimberly Benkert**, Topic: Oro-facial Myology and Muscular TMD: Emerging Roles and Opportunities for the Dental Hygienist. Past president of the American Dental Hygienist Association, former IAOM Board member and OM certification Examiner, and achieved Fellowship status (FAADH) in Oro-facial Myology and TMD with the AADH. She teaches OMD/TMD seminars and offers training courses nationally and internationally. Her clinical offices are located in suburban Chicago.

- **Sherry Priebe**, Topic: Oral Cancer and Superheroes: Understanding the Effects of Cultural Oral Habits. Received a Diploma of Dental Hygiene from the University of Alberta, Canada in 1978, her Bachelor Degree in Dental Science in Dental Hygiene in 2003 and a Masters in Science degree from the University of British Columbia in 2009. Published articles in the Vietnam Journal of Medicine at the University of Ho Chi Minh City, Vietnam, the Canadian Journal of Dental Hygiene, the International Journal of Dental Hygiene and the Dental Hygiene and Therapy Journal in the UK. Presented her master’s research on cultural oral habits in Asia and the risks of oral cancer in Scotland, Brazil, Vietnam, Dubai, USA and Canada. She has been honoured and awarded for her oral cancer study in Vietnam with the prestigious “World Dental Hygienist Award in Research” sponsored by the SUNSTAR Foundation for Oral Health Promotion in collaboration with the IFDH and the IJDH. Sherry is an independent contractor dental hygienist in Kelowna, BC.

DEPARTMENT OF PERIODONTOLOGY

Publications


**DEPARTMENT OF MAXILLO FACIAL AND ORAL SURGERY**

Significant international research collaborations
- Biomet (Walter Lorenz) USA.

Staff and student participation in congresses
- Professor Lurie. Bisphosphonate presented Induced Osteonecrosis at the annual congress of Oral & Maxillofacial Surgery at Magaliesburg 29 August – 01 September 2013.
- Drs Rikhotso, Vafaei, Bobat, Premvijasa, Suleman, Lawrence, Ferretti, Boyes - Varley, van der Linden, Munsamy and Nusrat attended Microvascular Flap Course.

Publications

**9.4. SCHOOL OF PATHOLOGY**

**ANTIVIRAL GENE THERAPY RESEARCH UNIT**

Director: Professor Patrick Arbuthnot

Staff and student participation in congresses
- Dr Kristie Bloom was invited an invited speaker at the German Gene Therapy Society Meeting, which was held in Hamburg in January of 2013. She presented her work on the use of TALENs (transcription activator-like effectors) to disable hepatitis B virus replication.

Postdoctoral Fellows
- Dr Samantha Nicholson
- Dr Buhle Moyo

Publications

**DEPARTMENT OF CLINICAL MICROBIOLOGY AND INFECTIOUS DISEASES**

Head: Professor Adriano Duse

Awards/Recognition
- Professor A G Duse was appointed WHO short-term consultant for the Infection Control Group for the Ebola haemorrhagic fever outbreak response team in Uganda, December 2012.

Significant international research collaborations
- Professor Duse was selected as a Southern African Chair for the Global Antibiotic Resistance Partnership (GARB). GARB is a project of the Centre for Diseases Dynamics, Economics & Policy (CDDEP) which works to
create greater awareness among policymakers in low-middle income countries about the growing threat of antibiotic resistance and to develop country-relevant issues.

- Professor Duse is a member of the Strategic Advisory Board of the Global HIV Vaccine Enterprise and the President's Emergency Plan for AIDS Relief sponsored by the CDC, United States of America.

**Participation in Congresses/Workshops**


**Hosting of a Congress/Research Day/Research Workshop**

- Professor Duse is a member of the organising committee for the International Society for Infectious Diseases meeting to be held in Cape Town in April 2014.

**Publications**


**DST/NRF CENTRE OF EXCELLENCE FOR BIOMEDICAL TB RESEARCH (CBTBR)**

**Head of Node: Dr Bavesh Kana**

**Appointments**

- In 2013, Bavesh Kana was promoted to the position of Reader.

**Awards/Recognition**

- In 2013, Professor Kana served as a judge on the Annual Discovery Health Journalism Awards. He reviewed health related journalism in different categories, including television, radio, print media and trade publications and provided feedback to journalists regarding reporting style and made recommendations to improve health reporting in these sectors. He was also invited to attend the awards function where presentations were made to the journalists with winning entries.

- Radio/television interviews
  - Professor Kana gave a 10 min radio interview for Classic FM to address the growing TB problem in the mines.
  - Professor Kana gave a 20 min television interview for Good Morning Africa wherein he addressed the TB problem in Africa and current efforts to control the pandemic.

**Substantial research grants**

- **Howard Hughes Medical Institute Early Career Scientist Award**
  1/01/2012 – 31/12/2016
  Grant number: HHMI000 (Total: R 6.5 Million, 2013 – R1.1 Million)
Awarded by: Howard Hughes Medical Institute (USA)  
Title: Mycobacterial Heterogeneity in TB infection

- **National Institutes of Health Supplementary Grant**  
  1/05/2012 – 30/04/2013  
  Grant number: U01 AI 69453-05 (Total: R 4.5 Million, 2013 – R 2 Million)  
  Awarded by: National Institutes of Health, USA, as a supplementary grant to the Perinatal HIV Research Unit  
  Title: Determining the role of resuscitation promoting factors in TB disease

- **DST/NRF Centre of Excellence for Biomedical TB Research**  
  1/01/2011 – 31/12/2019  
  Grant Number: DCOE000 (Total to date: R 4 Million, 2013 – R 2.2 Million)  
  Awarded by: South African Department of Science and Technology – National Research Foundation  
  This program grant supports various research activities around the identification and validation of new drug targets for TB.

- **Bill and Melinda Gates Foundation Accelerator Grant**  
  1/11/2013 – 31/07/2017  
  Grant Number: Not yet assigned (Total 2013 allocation – R 5 Million)  
  Awarded by: The Bill and Melinda Gates Foundation.  
  Title: Detection, quantification and characterization of differentially culturable tubercle bacteria in human TB disease

- **Strategic Health Innovation Partnerships**  
  1/10/2013 – 31/12/2015  
  Grant number: MIC000 (Total 2013 allocation – R 900 000)  
  Awarded by: South African Medical Research Council  
  Title: Development of counter-screening models for tuberculosis drug development

- **Swiss-South Africa Joint Research Grant**  
  1/11/2013 – 31/12/2016  
  Grant Number: Funding not assigned (Total 2013 – 2014 allocation R300 000)  
  Program research grant  
  Swizz Partner: Neeraj Dhar, EPFL.

- **National Research Foundation Incentive Funding for Rated Researchers**  
  1/01/2009 – 31/12/2014  
  Grant number: BKAN01 (Total to date: R 120 000, 2013 – R 40 000)  
  Awarded by: National Research Foundation  
  Title: Incentive Funding for Rated Researchers (various ongoing projects)

**Significant local research collaborations**

- **The South African TB Research and Innovation Initiative (SATRII)**  
  Dr. Bhavna Gordhan from the Wits node of the CBTBR is involved in a TB drug discovery project funded by the MRC. The biological components of the research will be carried out in the CBTBR and forms part of a larger collaborative venture that involves Professor Kelly Chibale (H-3D Drug Discovery Centre, UCT) and leading TB drug discovery experts from the US National Institutes of Health, including Wits graduate, Dr Helena Boshoff. This grant represents the culmination of local and international expertise which will be brought to bear on the TB problem. In 2013, due to changes in the MRC, the SATRII project was terminated in October and the work package for the Wits note was re-scoped to form a new project under the Strategic Health Innovations Partnership (SHIP) program of the MRC. This project will be led by Professor Kana and Dr. Gordhan.

- **Isolation of new anti-TB compounds from deep sea corals**  
  This project involves collaboration with Professor Debra Meyer from the University of Pretoria. The aim of the research program is to identify new compounds for further development as potential TB drugs. To date, novel metallo-compounds have been identified and tested in the CBTBR laboratories for activity against *M. tuberculosis*. Professor Kana is currently co-supervising a student (Ms. Sidhika Hariparsad) at the University of Pretoria who is working on isolating new compounds from three distinct soft-coral species.

**Significant international research collaborations**

- **Dr. Neeraj Dhar – Faculte Des Sciences De La Vie, Global Health Institute. Ecole Polytechnique Federale De Lausanne, Lausanne, Switzerland**
Dr. Dhar and his colleagues in Lausanne have developed new approaches to study bacterial growth at a single cell level, which allow for real-time visualization of bacteria (approximately 1 micron in length). The experiments can also be conducted with antibiotic treatment which then allows for a visual assessment of how bacteria will respond to treatment. The CBTBR is currently collaborating with Dr. Dhar to study the growth of tubercle bacteria and through this collaboration is in the process of importing a significant component of the technological know-how to South Africa. The main aim of this work is to assess the growth of bacteria isolated from patients to determine if the rate of growth and response to treatment can be correlated with clinical outcome of disease in the patient.

- **Detection and quantification of differentially culturable tubercle bacteria**

There is recent evidence in the scientific literature that the processes that govern cell surface expansion in bacteria are also important for bacterial growth and reactivation from dormancy in TB infection. Members of the CBTBR have recently confirmed these observations in South African patients and are now studying these phenomena further to determine if one can use this knowledge to tailor patient therapy for a better treatment outcome. For this, the CBTBR has forged the following collaborations:

- Fiona Shahim/ Mara Gibeon - Contract Laboratory Services, The National Health Laboratory Services, Braamfontein, Johannesburg
  Contract Laboratory Services provides routine diagnostic tests for the patients recruited for studies at the CBTBR.
- Neil Martinson/ Glenda Gray - Perinatal HIV Research Unit, Chris Hani Baragwanath Hospital
  These individual assist provide the platform to recruit patients from Soweto into CBTBR studies. They are also the clinicians who provide the best care possible to the patients and in the case of new findings from research, they ensure that the patients are informed and kept up to date.
- Michael R. Barer/ Galina Mukamolova - University of Leicester, Leicester, LE1 9HN, UK.
  These are international collaborators on clinical studies and provide input into some of the methods used to detect dormant bacteria.
- William R. Mac Kenzie (MD) - Centers for Disease Control and Prevention, Atlanta, USA
  Dr. Mac Kenzie serves as an international collaborator on clinical studies.

- **GeneXpert Quality Assurance**

The CBTBR has also developed certain critical reagents that are currently used in the rollout of new TB diagnostics. During the course of these studies, the following collaborations have emerged

- Wendy Stevens and Lesley Scott - Molecular Medicine and Haematology, School of Pathology, Wits Medical School, Johannesburg
  These individuals are involved in the rollout of new molecular diagnostics and as such require the reagents that the CBTBR has developed for verification of new instruments.
- David Boyle/Ralph Schneideman, Program for Appropriate Technology in Health (PATH) School of Public Health, UW, Seattle, USA
  The CBTBR has initiated collaboration with these individuals to create a global commercialization program for the reagents that he has developed.

### Participation in Congresses/Workshops

- Kana B D. Stretching the bacterial skin: How much do we know about mycobacterial growth? Gordon Research Seminar on Tuberculosis Drug Development. 21st – 22nd July 2013, Il Ciocco Hotel and Resort, Lucca (Barga), Italy. Invited opening plenary lecture
- Kana B D. Differential Bacterial Culturability in tuberculous sputum: Can we look at both sides of the same coin at once? Gordon Research Conference on Tuberculosis Drug Development. 22nd – 26th July 2013, Il Ciocco Hotel and Resort, Lucca (Barga), Italy. Invited Speaker
- Kana B D. What makes a good target? Working group on new TB drugs Symposium at the Gordon Research Conference on Tuberculosis Drug Development. 22nd – 26th July 2013, Il Ciocco Hotel and Resort, Lucca (Barga), Italy. Invited Speaker
- Kana B D. Eliminating TB. Lecture Given at the 8th Prestigious Research Lecture in the Faculty of Health Sciences. 29th May 2013. Wits School of Public Health.

**Posters**
- Kana B D. Resuscitation promoting factors in bacterial growth and cell wall remodelling - Extreme Makeover for the Cell wall. Poster presentation at the Annual HHMI Scholars Meeting, 14-17 February 2012, HHMI Headquarters, Chevy Chase, Maryland, USA.
- Kana B D. A role for N-acetylmuramoyl-L-alanine amidases and DD-carboxypeptidases in mycobacterial growth and cell division. Poster presentation at the Bacterial Cell Biology Conference, 9-12th December 2013, Occidental Grand Xcaret Resort, Mexico.

**Invited Lectures**
- Kana B D. Peptidoglycan Remodelling during TB Infection: Separation Anxiety and Bipolar Disorder in mycobacterial cells. Invited lecture as part of the Frontiers in Biological Sciences Seminar Series, 12 November 2013, Tsinghua University, Beijing, China.
- Kana B D. Success in Academic Careers. Invited Lecture and workshop, 11 November 2013, Tsinghua University, Beijing, China.
- Kana B D. Counter-screening models for TB drug development – Exploiting the mycobacterial cell wall, 30th October 2013, Helmholtz Institute-South Africa joint research meeting, Braunschweig, Germany.
- Kana B D. Peptidoglycan Remodelling: Implications for mycobacterial growth and TB disease. Invited Lecture, 16 September 2013, Johns Hopkins University, Baltimore, USA.

**Hosting of a Congress/Research Day/Research Workshop**
Professor Bavesh Kana participated in organizing the following conferences and workshops:
- The inaugural National Health Laboratory Services Research Summit. 21st-22nd February 2013. Prof. Kana served on the Scientific Committee/organizing committee and chaired the opening session of the research summit. He also assisted in drafting the summit report.
- Serves as the Chairman of the 4th SA-TB Conference to be held in June 2014 at the ICC in Durban. This conference is attended by close to 2000 delegates and covers all areas of TB/HIV research.
- Served on the Scientific Advisory and organizing committee of the Informa Africa Health Infectious Diseases conference.

**Postdoctoral Fellows**

**Publications**
- Moolla, N, Goosens V, Kana B D, Gordhan B G. The contribution of Nth and Nei DNA glycosylases to mutagenesis in *Mycobacterium smegmatis*. DNA Repair. Accepted for publication. Impact Factor: 4.021

**New research initiatives**
In 2013, the CBTBR initiated two new studies, these are detailed below.
Development of new counter-screening models for TB drug development

*M. tuberculosis* is unique amongst bacterial pathogens from the perspective that it can grow and survive in multiples niches in the human body which ultimately leads to complex clinical outcomes. Moreover, in the lung, tubercle bacteria are postulated to exist in various sub-populations with differential inherent growth rates – a property that directly determines the inherent susceptibility of these organisms to standard TB therapy and contributes to the phenomenon of bacterial persistence. Consequently, TB treatment is protracted, taking a minimum of six months, in an attempt to eradicate all persisting organisms. In light of this, there has been significant effort from drug development programs in establishing models for screening potential new compounds under laboratory conditions that induce bacterial persistence. Moreover, it is generally well-accepted that in vitro screening models provide an inadequate reflection of the conditions encountered by tubercle bacteria during human infection. Hence, developing assays that mimic some of the prevailing conditions that characterize pulmonary TB disease such as hypoxia, low pH, nutrient starvation and survival in the presence of reactive nitrogen and oxygen species is imperative.

The Wits node of the CBTBR has now undertaken the development of specialist screening models with the ultimate aim of establishing and validating new screening modalities for South African TB drug development consortia. These screening models will serve as counter screens for compounds that display potency in killing *Mtb* under standard conditions.

Detection and quantification of differentially culturable tubercle bacteria during TB treatment

This new project aims to detect, quantify and characterize differentially-culturable bacterial subpopulations in tuberculous sputum through supplementation of sputum cultures with culture filtrate (with or without resuscitation promoting factors - Rpfs) from *M. tuberculosis* grown in axenic culture. These experiments will be conducted on sputa isolated from patients infected with drug sensitive strains, before and during the course of standard combinatorial TB treatment, to develop a comprehensive understanding of the composition of bacterial populations over time. The research is funded by an Accelerator Grant from the Bill and Melinda Gates Foundation.

Visitors

- Dr David Boyle: Program for Appropriate Technology in Health (PATH) School of Public Health, UW, Seattle, USA.
- Dr Robert Wallis: Specialty Care, Pfizer, Groton, CT, USA.

HUMAN GENOMIC DIVERSITY AND DISEASE UNIT

Director: Professor Himla Soodyall

Awards/Recognition

- Professor Soodyall’s contributions to science have been featured both locally and internationally on:
  - eNCA’s Movers and Shakers (http://www.youtube.com/watch?v=TJWcT-IWdho)
  - CNN’s Inside Africa (http://www.cnn.com/2013/05/14/world/africa/african-roots-dna/)
  - City Press’s 100 World-Class South Africans (http://www.citypress.co.za/features/100-world-class-south-africans-himla-soodyall/)
- Ms Jacqueline Frost, a PhD candidate, was awarded a 6-month scientist exchange training program with the Centre for Genome Regulation (CRG) in Barcelona, Spain, to work on gene expression profiling and signalling pathways in systemic sclerosis. Professors Mohammed Tikly and Michele Ramsay are supervising the research locally and Professor Xavier Estivill is acting as Ms Frost’s host at the CRG.

Substantial research grants

<table>
<thead>
<tr>
<th>Name of Grant Holder</th>
<th>Project</th>
<th>Awarded By</th>
<th>Period</th>
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<tr>
<td>Professor Michele Ramsay</td>
<td>Southern African Human Genome Programme (SAHGP)</td>
<td>National Department of Science and Technology</td>
<td>2011 – Pres</td>
</tr>
<tr>
<td>Professor Michele Ramsay</td>
<td>Millenium Promise Awards: Non-Communicable Disease Research Leadership Program</td>
<td>NIH Fogarty International Center Grant</td>
<td>2010-2015</td>
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### Significant international collaborations

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<tr>
<th>Local Collaborator</th>
<th>International Collaborator/s</th>
<th>Project Description</th>
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<tbody>
<tr>
<td>Professor Michele Ramsay</td>
<td>Colin Pillai (Global Head: D &amp; I and Scientific Capability Development, Diversity and Inclusion Office in Pharma Development)</td>
<td>Student Internships in Basel, Switzerland and Collaborations with Centre for Genomic Regulation in Barcelona, Spain</td>
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<tr>
<td>Professor Michele Ramsay</td>
<td>Navrongo (Ghana), Nanoro (Burkina Faso) and Nairobi (Kenya) – H3Africa Consortium Project (AWI-Gen)</td>
<td>International Network for the Demographic Evaluation of Populations and their Health in Developing Countries (INDEPTH)</td>
</tr>
<tr>
<td>Professor Himla Soodyall</td>
<td>Professor M Jakobsson and Dr C Schlebusch, Uppsala University, Sweden</td>
<td>Genomic Studies on African Populations</td>
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<tr>
<td>Professor Amanda Krause</td>
<td>Professor Timothy Rebbeck, University of Pennsylvania</td>
<td>BRCA1/2 International Diversity by Geography and Ethnicity</td>
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<tr>
<td>Professor Amanda Krause</td>
<td>Professor Michael R Hayden (Centre for Molecular Medicine and Therapeutics, University of British Columbia, Vancouver, Canada)</td>
<td>Exploration of the pathogenesis of Huntington’s Disease (in conjunction with researchers at UCT)</td>
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<td>Professor Arnold Christianson</td>
<td>Professor Irmgard Nippert (Westfälische Wilhelms-Universitaet, Muenster, Germany)</td>
<td>Genetic Testing in Emerging Economies (GenTEE)</td>
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<tr>
<td>Professor Michele Ramsay</td>
<td>22nd IUBMB and 37th FEBS Congress</td>
<td>4 – 7 September, 2012</td>
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<td>Ms Tasha Wainstein</td>
<td>62nd Annual Meeting of the American Society of Human Genetics</td>
<td>6-9 November, 2012</td>
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<td>Professor Michele Ramsay</td>
<td>Science and Medicine in Africa, Global Health Equity Symposium</td>
<td>28 February, 2013</td>
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<td>Professor Michele Ramsay</td>
<td>IAMP Conference on Changing Patterns of Non-Communicable Diseases &amp; 4th General Assembly</td>
<td>13-16 August, 2013</td>
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<td>Dr Tina-Marié Wessels</td>
<td>11th Interdisciplinary Communication, Medicine and Ethics (COMET) Conference</td>
<td>11-13 July, 2013</td>
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<td>Ms Jacqueline Frost</td>
<td>South African Rheumatoid Arthritis Association</td>
<td>3-6 April, 2013</td>
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<td>Dr Tina-Marié Wessels</td>
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<td>Mr Nicholas Branfield</td>
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<td>Mr Wenlong Chen</td>
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<td>Dr Susan Williams</td>
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<tr>
<td>Dr Ananyo Choudhury</td>
<td>15th Biennial Congress of the Southern African Society of Human Genetics</td>
<td>6-9 October, 2013</td>
</tr>
<tr>
<td>Professor Jennifer Kromberg</td>
<td>15th Biennial Congress of the Southern African Society of Human Genetics</td>
<td>6-9 October, 2013</td>
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<tr>
<td>Prof Arnold Christianson</td>
<td>15th Biennial Congress of the Southern African Society of Human Genetics</td>
<td>6-9 October, 2013</td>
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<tr>
<td>Professor Himla Soodyall</td>
<td>15th Biennial Congress of the Southern African Society of Human Genetics</td>
<td>6-9 October, 2013</td>
</tr>
<tr>
<td>Mr Sibusiso Malindisa</td>
<td>15th Biennial Congress of the Southern African Society of Human Genetics</td>
<td>6-9 October, 2013</td>
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<tr>
<td>Mr Andrew May</td>
<td>63rd Annual Meeting of the American Society of Human Genetics</td>
<td>22-26 October, 2013</td>
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<tr>
<td>Prof Arnold Christianson</td>
<td>6th International Conference on Birth Defects and Disability in the Developing World</td>
<td>10-13 November, 2013</td>
</tr>
</tbody>
</table>

**Hosting of a Congress/Research Day/Research Workshop**

- Professor Himla Soodyall hosted an NHLS Research Summit Workshop in February 2013.
- An ethics, data management and GWAS workshop was hosted by AWi-Gen in July 2013.
Some highlights from SASHG 2013 Congress entitled, “Genetworking: Bases Building Bridges”, which took place at The Maslow Hotel, Sandton, Johannesburg from 6-9 October, 2013.

Postdoctoral Fellows

- Dr Nadia Carstens - 2012 – 2014
- Dr Ananyo Choudhury - 2010 – 2013
- Dr Sudheer Menon - 2012 - 2013
- Dr Daniel Achinko - 2013 – 2015

Publications


Visitors

- Dr David Landsman - NCBI, NIH, USA
- Dr Matt McQueen - University of Boulder, Colorado, USA
- Professor Anne Bowcock - Imperial College, London, UK
- Professor Chris Mathew - King’s College, London, UK
- Professor Mattias Jakobsson - Uppsala University, Sweden
- Dr Anneke Lucassen - University of Southampton, UK
- Dr Christine Patch - Guy’s Hospital, London, UK
- Dr Connie van Ravenswaaij-Arts - University of Groningen, Netherlands

RESPIRATORY AND MENINGEAL PATHOGENS RESEARCH UNIT

Director: Professor Shabir Madhi

Awards/Recognition

- **Professor Shabir Madhi** received the MRC Lifetime Achievement Award (Platinum Medal) in recognition of the excellence of his research in the field of vaccinology and respiratory and meningeval pathogens and its impact on improving child health in South Africa and other developing countries.

- **Professor Shabir Madhi** was also listed among the “Top 100 World Class South Africans”, which included among others former Presidents Nelson Mandela, Thabo Mbeki and many other luminaries in the inaugural edition of this listing by *City Press.*
• **Professor Keith Klugman** received the Albert E. Levy Scientific Research Award for Senior Faculty at Emory University. Established to recognize the contributions of Emory faculty members to the advancement of scientific knowledge. Each year, one senior faculty member is selected by the University Research Committee to recognize outstanding research publications.

• **Professor Keith Klugman** also received the APUA 2013 Leadership Award of the Alliance for the Prudent Use of Antibiotics.

• Professors Keith Klugman and Shabir Madhi are NRF A-rated researchers and were awarded a medal at the Deputy Vice Chancellor's Research Celebration on 20 November 2013.

• **Michelle Groome** received an award for best poster presentation at the 8th World Congress on Pediatric Infectious Diseases, Cape Town, South Africa 19-22 November 2013 for the poster entitled: “Effect Of Breast-Feeding On Immunogenicity Of Oral Live-Attenuated Human Rotavirus Vaccine”.

### Substantial research grants

<table>
<thead>
<tr>
<th><strong>2013 INCOME</strong></th>
<th><strong>Funder</strong></th>
<th><strong>Funds Received</strong></th>
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<td>ROTA</td>
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</table>

70 681 849.24

**Significant local research collaborations**

• Collaboration on the South African intussusception surveillance study in the South African paediatric surgery departments with multiple surgeons: Laboratory testing for South African intussusception surveillance study – Nicola Page, Centre for Enteric Diseases, National Institute for Communicable Diseases: Division of NHLS, Johannesburg.
Significant international research collaborations

- Margaret Cortese, Umesh Parashar: Viral Gastroenteritis Team, Centers for Disease Control and Prevention, Atlanta, USA. Epidemiological support for the rotavirus effectiveness case control study.
- Baoming Jiang: Viral Gastroenteritis Laboratory, Centers for Disease Control and Prevention, Atlanta, USA. Laboratory support for study to investigate the effect of breast-feeding on immune response to rotavirus vaccine in infants; Laboratory support for intussusception surveillance study.
- Alexander Mentzer: University of Oxford, UK 'The Genetics of Response to Childhood Vaccination in Infants from Sub-Saharan Africa'.
- Kathleen Neuzil, Justin Ortiz- PATH, Seattle; Eric Simoes, Adriana Weinberg- University of Colorado, Avye Violari-PHRU, Marietjie Venter- NICD- Collaborators, Maternal Influenza vaccine trials.
- Gregory Hussey- UCT, Wolfgang Preizer- University of Stellenbosch, Hanna Noyhnek- Finland, Adam Cohen-CDC, SA; Elizabeth Zell- USA; James McIntyre- ANOVA, Angela Gentile- Argentina: DSMB members, Maternal Influenza vaccine trials.

Participation in congresses

Professor Keith Klugman
- Feb 2013 Invited Opening Lecture, 2nd Conference on Controversies in Vaccination in Adults (CoVAC), Munich, Germany.
- Feb 2013 Invited Lecture, International Meeting on Emerging Diseases and Surveillance (IMED 2013), Vienna, Austria.
- Feb 2013 Visiting Lecture, Laboratory of Prof Didier Raoult, Rickettsia Unit, Aix-Marseille University, Marseille, France.
- Mar 2013 Invited Plenary Lectures, 5th Sabin Vaccine Institute Regional Pneumococcal Symposium, Sao Paulo, Brazil.
- Apr 2013 Invited Chair of Plenary Session and Invited Lecture, 23rd European Congress of Clinical Microbiology and Infectious Diseases, Berlin, Germany.
- May 2013 Invited Speaker, Pneumococcal Conjugate Vaccine - Impact Evaluation in India – Workshop, Delhi, India.
- Jul 2013 Invited Lecture, Pan American Health Organization (PAHO) XXI Meeting of the Technical Advisory Group (TAG) on Vaccine Preventable Diseases, PAHO, Quito, Ecuador.
- Sep 2013 Options VIII, Options for the Control of Influenza, Cape Town, South Africa.
- Sep 2013 53rd Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Denver CO.
- Oct 2013 ID Week 2013, San Francisco, CA.

Anne von Gottberg attended:
- the Meningitis Expert Forum: A focus on MenACWY-CRM, convened by Novartis in Milan, Italy, 28 May.
- the Global meeting on Implementing New and Under-utilized Vaccines. Meeting convened by WHO in the Dominican Republic, 4-6th June. Dr von Gottberg presented on the South African experience with pneumococcal and Haemophilus influenzae serotype b vaccine introduction.

- Anne von Gottberg and Nicole Wolter attended the Pfizer Pneumococcal Expert Summit in Cape Town from 16-17th March.
- Cheryl Cohen and Anne von Gottberg presented at the “Impact of routine introduction of pneumococcal conjugate vaccine and rotavirus vaccine on pneumococcal and rotavirus disease” meeting held at the NHLS with the National Department of Health on the 23rd July 2013.
- Cheryl Cohen and Anne von Gottberg gave a presentation at the National Advisory Group on Immunisation meeting on 19 April entitled “Impact of PCV vaccine introduction into the EPI - update.
- Linda de Gouveia attended a Lab Technical Working Group for the WHO Invasive Bacterial Vaccine Preventable Disease Surveillance Network in Bangkok from 12th-14th November.
- Mignon du Plessis attended the 2nd Global Meningococcal Initiative Summit meeting at the Westin Hotel, Cape Town, 17-18th November 2013
- Mignon du Plessis presented a poster at the European Monitoring Group for Meningococci meeting in Bad Lloipersdorf, Austria: 17-19 September 2013.
- Maimuna Carrim presented a poster at the Federation of Infectious Diseases Societies of South Africa meeting in the Drakensberg, 10-12 October 2013.
- Nicole Wolter, Fahima Moosa, Michelle Groome, Susan Nzenze, Ziyaad Dangor, Marta Nunes and Zanele Ditse presented posters at the World Societies of Pediatric Infectious Diseases meeting in Cape Town, November 2013.

David Moore attended:
- The Federation of Infectious Diseases Societies of South Africa Conference, Drakensburg, October 2013.
- World Society for Pediatric Infectious Diseases, Cape Town, November 2013.
- PERCH meeting, Windsor (UK), December 2013.

- Alane Izu presented a talk at WNAR, June 2013: Bayesian Estimation of Mixture Models with Prespecified Elements to Compare Drug Resistance in Treatment-Naive and Experienced Tuberculosis Cases.

Susan Nzenze attended:
- NP Microbiome, 2nd annual meeting, 7 to 9 May, Manila, Philippines
- Annual School of Public Health Writing Retreat, 12 to 14 September 2013, Shumba Lodge, Lanseria
- 9th Annual Vaccinology Course, 25 to 29 November, Cape Town, South Africa

Michelle Groome attended:
- International Advanced Vaccinology (ADVAC) course 6-17 May 2013 in Annecy, France.
- Vaccines for Enteric Diseases, Bangkok, Thailand 6-8 November 2013.
- 8th World Congress on Pediatric Infectious Diseases, Cape Town, South Africa 19-22 November 2013.
- Poster presentation entitled “Effect Of Breast-Feeding On Immunogenicity Of Oral Live-Attenuated Human Rotavirus Vaccine”.
- Oral presentation entitled “Case-Control Study Of The Effectiveness Of Rotavirus Vaccination Against Hospitalisation For Acute Rotavirus Diarrhoea In South African Children”.

Clare Cutland attended:
- 8th World Congress on Pediatric Infectious Diseases, Cape Town, South Africa 19-22 November 2013. Presented 2 oral presentations:
  - Impact of maternal HIV infection on measles antibody transfer

Hosting of a Congress/Research Day/Research Workshop
- Hosted the Gates 1st Investigators’ Meeting at the NICD on 22nd and 23rd April 2013 to discuss the progress, sampling and data analysis for the Gates Pneumococcal Whole Genome Sequencing Project.
- David Moore hosted the Pneumonia Etiology Research for Child Health (PERCH) Data Day, Chris Hani Baragwanath Academic Hospital, February 2013.
Publications


Visitors

- Professor Martin Maiden and Dr Keith Jolley from the University of Oxford in the UK on 24 May to discuss utilization of the Bacterial Isolate Genome Database (developed by Prof. Maiden’s group) in assembling and analysing whole genome sequence data for bacterial pathogens.

- Mr Feyruz Yelcin from the Sanger Institute in the UK visited from 20-24 May to assist with whole genome data analysis for the Pneumococcal African Genome project.

- Andries van Tonder, a Bioinformatician from Oxford University who is currently investigating the evolution of the pneumococcus through whole genome analysis.

- Drs’ Jonas Winchell and Maureen Diaz from the CDC spent a week conducting training related to implementation of a new technology (Taqman Array PCR) used for detecting the aetiology of neonatal sepsis in infants at CH Baragwanath hospital.

- Dr Carla Talarico (Streptococcus Laboratory, CDC) and Dr Jason Mwenda (Regional coordinator, New Vaccine Disease Surveillance, WHO AFRO) conducted an audit of all processes involved in the PCR testing of suspected meningitis samples received from various southern African countries as part of the Invasive Bacterial Disease Paediatric Meningitis Surveillance Network.

WITS RESEARCH INSTITUTE FOR MALARIA (WRIM)

Co-Directors: Professors Maureen Coetzee and Theresa Coetzer

Appointments

- Dr Lizette L. Koekemoer was appointed to the full-time University staff as Associate Professor and Reader.

Substantial research grants

Entomology:

- Sterile Insect Technique – International Anatomic Energy Agency (€43, 075), NTeMBI, R1,230,000 (2010-2013).


- MRC, R165,000 (2012-2014).

- NRF Incentive Funding (R160,000).

Parasitology:

- NRF incentive funding, R480,000 (2009-2014).
- Faculty of Health Sciences Research Committee, *Plasmodium falciparum* projects, R46 000 (2013).

**Pharmacology:**
- FRC, *Plasmodium falciparum* kinase (PfcGAK) and its possible use as a drug target in malaria therapy, R40,000 (2013).

**Significant local research collaborations**

**Entomology:**
- Collaboration on the Sterile Insect Technique project included the research group in the Kruger National Park, the Medical Research Council and NTeMBI labs. Field trials of new insecticides were carried out for Bayer Cropsciences in collaboration with the Mpumalanga Malaria Control Programme. The Akirin project involves collaboration with the University of Pretoria.

**Parasitology:**
- Collaboration with University of Pretoria and CSIR on a gametocyte consortium, to screen and evaluate compounds active against *Plasmodium falciparum* gametocytes.

**Pharmacology:**
- Collaborations were initiated with various groups around South Africa to evaluate the antimalarial activity of several synthetic or naturally derived compounds: University of the Free State, Rhodes University, Tswane University of Technology, Medical University of Lublin and SANBI.

**Significant international research collaborations**

**Entomology:**
- The Johns Hopkins Malaria Research Institute (USA) on the ICEMR project, together with Zambian and Zimbabwean colleagues. WHO/AFRO Ethiopia on alternative vector control methods. CDC, Atlanta (USA) on alternative vector control methods. Akirin project: Spanish Centre for Veterinary Health Science. International Atomic Energy Agency collaboration on the Sterile Insect Technique project.

**Parasitology:**
- Institut Laue-Langevin, Grenoble, France and Keele University, UK, on parasite – host protein interactions.
- Tufts University, Boston, USA, on parasite phage display projects.
- Marburg University, Germany, on parasite protein trafficking pathways.

**Pharmacology:**
- Collaboration with the Indian Institute of Technology, Guwahati, India and Jamia Millia Islamia, India to investigate four new groups of novel synthetic compounds.

**Participation in Congresses/ Workshops**

**Entomology:**
142

- Lyons, C., Coetzee, M., Terblanche, J., Chown, S. Potential for climate change to increase the distribution range of malaria mosquitoes in southern Africa. 6th MIM Pan-African Malaria Conference, Durban, South Africa, October 2013.

Parasitology:
- Thérèse Louise Coetzer and Dewaldt Engelbrecht. To Each His Own: Fever Induces Different Suicide Mechanisms in Early and Late Stage Plasmodium falciparum Malaria Parasites in vitro. American Society of Hematology annual meeting, New Orleans, USA, December 2013
- Alisje Steyn and Thérèse L. Coetzer. Transgenic Plasmodium falciparum parasites expressing chimaeric ama-1 and sub2 invasion proteins. 6th MIM Pan-African Malaria Conference, Durban, South Africa, October 2013
- Belinda C. Bezuidenhout and Thérèse L. Coetzer. Plasmodium falciparum AP11 localizes to the cis-Golgi and is implicated in the transport of parasite proteins. 6th MIM Pan-African Malaria Conference, Durban, South Africa, October 2013
- Kubendran Naidoo and Theresa L. Coetzer. Impaired phospholipid synthesis contributes to the reduced erythrocytic growth of glycerol kinase knockout Plasmodium falciparum parasites. 6th MIM Pan-African Malaria Conference, Durban, South Africa, October 2013

Pharmacology:
- Ngarivhume, T., Van der Westhuizen, J.H., Marston, A. & Van Zyl, R.L. Bioactivities of Some Herbal Medicines from Zimbabwe. 61th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) for Ethnopharmacology, Münster, Germany, September 2013.

Hosting of a Congress/Research Day/Research Workshop

- An ad hoc entomology training workshop was held for malaria control programme personnel from Mozambique.

Postdoctoral Fellows

Entomology:
- Dr Annette Bennett
- Dr Candice Lyons
- Dr Givemore Munhenga
- Dr Kwang Shik Choi
- Dr Luisa Nardini
- Dr Yael Dahan

Parasitology:
- Dr Sonja Lauterbach
- Dr Belinda Bezuidenhout

Publications

Entomology:

Parasitology:


New research initiatives

**Entomology:**
- A targeted IRS project with the London School of Hygiene & Tropical Medicine, funded by a DFID/MRC/Wellcome Trust grant, 2014-2016.
- Multi-country project on alternative vector control methods with WHO/AFRO, LSHTM and ICIPE, funded by UNEP/GEF, 2014-2016.
- Comparative insecticide resistance in vector mosquitoes with the Tropical Pesticides Research Institute, funded by a South African/Tanzania initiative, 2014-2015.

**Parasitology:**
- A proposal on “Establishment of a Mosquito-parasite Infection Resource Centre (MIRC)” in collaboration with the Entomology unit has been submitted to MRC SHIP.

**Pharmacology:**
- In collaboration with Professor Dr JB Baruah (Indian Institute of Technology Guwahati, India), a new series of 8-hydroxyquinolines were designed, synthesised and characterised before being evaluated for antimalarial activity.
- Investigations into a further set three sets of novel compounds were undertaken in collaboration with Prof A Azam (Jamia Millia Islamia, India) were synthesised and the antimalarial and cytotoxic activity and haemozoin inhibitory mechanism of action investigated.
- Collaboration set up with Prof JH Van der Westhuizen and Dr S Bonnet (University of Bloemfontein) to evaluate the antimalarial activity of traditionally used herbal medicines from Zimbabwe.
- To continue with initial work undertaken in 2012, in collaboration with Dr D Beukes and G Watkins (Rhodes University) we undertook to assess the antimalarial activity of marine compounds and chemically synthesised derivatives.
- A multidisciplinary research group was established with Prof S Combrink, AM Viljoen, NS Mokgalaka, Dr TJ Regnier, Mr Jacques Van Rooyen (TUT), Assoc Prof S van Vuuren (WITS), Dr A Ludwiczuk (Medical University of Lublin), Dr J van Rooyen (SANBI) to characterise the chemistry and pharmacological properties of Southern African liverworts, including the antimalarial activity.
- *Plasmodium falciparum* kinase (PfcGAK) and its possible use as a drug target in malaria therapy is being investigated.

**Visitors**

**Entomology:**
- Discussions were held with Professor Roy Zent from Vanderbilt University, USA, during his visit to the Faculty. Dr Fred Tripet from Keele University, UK, visited the unit to hold discussions on possibly research collaboration.

**DIVISION OF FORENSIC MEDICINE AND PATHOLOGY**

**Appointments**

A toxicologist (Ms. Ildiko Fenyvesi) and an entomologist (Mr Lawrence Hill) and an osteology laboratory technician (Ms Roxanne Thornton) were appointed to the staff ensuring the development of skills within the Division. In addition, Honorary Professor/ Brigadier Gerard Labuschagne from the Investigative Psychology Unit of the South African Police Service to the Division was appointed. Professor Labuschagne assists with the teaching in the Honours programme as well as supervision of Masters and PhD students.

**Local collaborations**

Research collaborations are currently being undertaken with the School of Anatomical Sciences in Forensic Anthropological research with Ms. Erin Hutchinson. Collaboration between the Division of Forensic Medicine and
Pathology and the Division of Chemical Pathology has also been strengthened. New collaborations have been initiated with the Department of Chemistry at the University of the Witwatersrand, the Laboratory of the National Horseracing Authority of Southern Africa, as well as with Professor Sandra Combrinck and Professor Rob McCrindle at the Tswane University of Technology.

Research grants
- Dr Guinevere Gordon received NRF Thuthuka Postdoctoral grant (3rd year).

Staff and student participation in congresses
- Dr Guinevere Gordon gave an oral presentation at the 15th Meeting of the International Association of Craniofacial Identification (Faces 2013) from 3 to 7 August, 2013 at the Kruger National Park (South Africa), at the Mopani Rest Camp.

Initiatives
Three new laboratories were set up in 2013. The postgraduate students assisted staff in an “extreme Lab makeover” whereby rooms were assigned to the Wits staff and students at the Johannesburg Forensic Pathology Service Medico-legal Mortuary for laboratory space. The Division now has an Entomology/ Anthropology dry laboratory and two Toxicology/ Genetics laboratories (see photos below).

9.5. SCHOOL OF PHYSIOLOGY

CARDIOVASCULAR PATHOPHYSIOLOGY AND GENOMICS RESEARCH UNIT

Director: Professor Gavin Norton

Appointments
- Reappointment of Professor Sareli as honorary research professor for 3 years.
- Appointment of Professor Dessein as honorary research professor for 3 years.

Awards/Recognition
- Professor Gavin Norton was invited onto the editorial board of the high impact factor international journal ‘Journal of Hypertension’.
• Ms Vernice Peterson (PhD student and Associate Lecturer) was awarded an NRF/DAAD scholarship.
• Mr Mhlengi Magubane (MSc student) was awarded an NRF innovation scholarship.
• Mr Moekanyi Sibiya (PhD student) was awarded a TATA Africa scholarship.

Substantial research grants
• Significant funding was obtained from the MRC by Professors Gavin Norton and Angela Woodiwiss.
• Significant funding was obtained from the NRF by Professors Gavin Norton, Angela Woodiwiss and Patrick Dessein and Dr Frederic Michel.
• Significant funding was obtained from the URC and FRC by Dr Aletta Millen.

Significant local research collaborations
• Collaboration with Dr Martin Brand (Department of Surgery, School of Clinical Medicine) to investigate vascular hemodynamic and histological changes in patients with peripheral vascular disease and the impacts of HIV.
• Collaboration with Professor Geoffrey Candy (Department of Surgery, School of Clinical Medicine) to investigate the role of nitric oxide and its precursors in hypertension.
• Collaboration with Professor Elena Libhaber (Faculty of Health Sciences) to investigate the effects of different classes of antihypertensive agents on central aortic blood pressures and their contributing waveforms.
• Collaboration with Professor Carlos Libhaber (Department of Nuclear Medicine, School of Clinical Medicine) to investigate the impacts of central aortic pressures and their waveforms and the impact of obesity on cardiac geometry and function.

Significant international research collaborations
• Professor Patrick Dessein invited onto international board to establish international guidelines for assessing cardiovascular risk in patients with rheumatoid arthritis.
• Professors Gavin Norton and Angela Woodiwiss established collaboration with two internationally recognized clinician scientists from Israel with a large outcomes database.
• Professor Patrick Dessein continued and strengthened collaboration with Spanish researchers investigating cardiovascular risk in patients with rheumatoid arthritis.

Staff and student participation in congresses
American Heart Association High Blood Pressure Council Congress, New Orleans, USA, September 2013
• Gavin Norton (Professor) – In-treatment change in 24-hour imputed aortic-to-brachial pulse pressure amplification predicts regression of left ventricular mass better than 24-hour brachial pressures.
• Angela Woodiwiss (Professor) – 24-hour imputed aortic-to-brachial pulse pressure amplification is associated with left ventricular mass independent of 24-hour brachial pressures in a community sample.

41st Conference of the Physiology Society of Southern Africa, Pretoria, September 2013
• Mhlengi Magubane (MSc student) - Impact of ovariectomy on β-adrenergic induced left ventricular adverse remodelling in female spontaneously hypertensive rats.
• Moekanyi Sibiya (PhD student) - 24-Hour Imputed Aortic-to-Brachial Pulse Pressure Amplification is Associated with Left Ventricular Mass Independent of 24-Hour Brachial Pressures in a Community Sample.
• Frederic Michel (Lecturer) - Sex-specific inheritance of plasma angiotensinogen (AGT) concentrations.
• Vernice Peterson (PhD student and Associate Lecturer) - Inheritance of Left Ventricular Mass and Geometry Independent of Central Aortic Pressures.
• Muzi Joseph Maseko (PhD student and Lecturer) – Relations between white coat effects and left ventricular mass index or arterial stiffness: Role of nocturnal pressure dipping.
• Aletta Millen (PhD student and Lecturer) - Effects of Short-term Exercise-Training on Tissue Doppler Indices of Left Ventricular Diastolic Function in Overweight and Obese Individuals.

The 18th Annual Congress of the European College of Sport Science, Barcelona, Spain, June 2013
• Aletta Millen (PhD student and Lecturer) - Effects of Short-term Exercise-Training on Tissue Doppler Indices of Left Ventricular Diastolic Function in Overweight and Obese Individuals.

Hosting of congress/research day/research workshop
• Professor Angela Woodiwiss hosted and ran SAS statistical workshops for postgraduate students to enable them to independently run statistical analyses using the SAS program.
Postdoctoral fellows

- Claude Leon Postdoctoral Fellow Dr Arnaud T Djami-Tchatchou joined the CPGRU.

Publications


New research initiatives

- An intervention study to assess the impact of weight loss on cardiovascular risk in patients with rheumatoid arthritis and/or metabolic syndrome.
- An intervention study to assess the impact of different classes of antihypertensive medication on central aortic blood pressure and its pressure waveforms, on cardiac geometry and function, and on the vasculature.
- The impact of central aortic blood pressure imputed from blood pressures measured throughout the day on various target organ changes including the heart, renal function, and the vasculature.
- The role of haplotypes of various gene markers of the renin-angiotensin-aldosterone system in determining central aortic blood pressure and its pressure waveforms.

**BRAIN FUNCTION RESEARCH GROUP**

**Director: Professor Andrea Fuller**

**Appointments**
- Peter Kamerman was awarded a C2 rating by the NRF.
- Leith Meyer was awarded a Y2 rating by the NRF.
- Duncan Mitchell was appointed as an Adjunct Professor in the School of Anatomy, Physiology and Human Biology, at the University of Western Australia.
- Tanusha Dukhan was appointed as an associate lecturer.
- Anna Haw was appointed as a part-time associate research officer.
- Antonia Wadley was awarded a prestigious Hillel Friedland Trust postdoctoral fellowship.

**Awards/Recognition**

<table>
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<tr>
<th>Member</th>
<th>Achievement</th>
</tr>
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<tr>
<td>The BFRG</td>
<td>Recognized for its high research outputs in 2012 at the Faculty of Health Sciences Research Awards.</td>
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<tr>
<td>Peter Kamerman, Duncan Mitchell, Robyn Hetem</td>
<td>Individual awards for their achievements in 2012, at the Faculty of Health Sciences Research Awards.</td>
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<tr>
<td>Antonia Wadley</td>
<td>Hillel Friedland postdoctoral fellowship</td>
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<td>Ian Murray</td>
<td>Claude Leon postdoctoral fellowship</td>
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<td>Prinisha Pillay</td>
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<td>Kirsten Redman</td>
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<td>Tamzyn Baartman, Melinda Boyers</td>
<td>NRF innovation scholarships</td>
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<tr>
<td>Peter Kamerman</td>
<td>C2 NRF rating</td>
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<tr>
<td>Leith Meyer</td>
<td>Y2 NRF rating</td>
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Substantial research grants

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<thead>
<tr>
<th>Recipient</th>
<th>Name of grant</th>
<th>Amount</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robyn Hetem</td>
<td>FRC &amp; WHC dividend minor equipment grant</td>
<td>107,000.00</td>
<td>2013</td>
</tr>
<tr>
<td>Robyn Hetem</td>
<td>Friedel Sellschop Award</td>
<td>120,000.00</td>
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</tr>
<tr>
<td>Lois Harden</td>
<td>Friedel Sellschop Award</td>
<td>119,500.00</td>
<td>2012-2014</td>
</tr>
<tr>
<td>Robyn Hetem</td>
<td>START sub-award for Global Environmental Change Research in Africa</td>
<td>200,000.00</td>
<td>2013</td>
</tr>
<tr>
<td>Helen Laburn</td>
<td>MRC Individual Grant</td>
<td>140,000.00</td>
<td>2010-2013</td>
</tr>
<tr>
<td>Peter Kamerman</td>
<td>MRC Individual Grant</td>
<td>172,998.00</td>
<td>2013-2015</td>
</tr>
<tr>
<td>Duncan Mitchell</td>
<td>NRF Competitive Programme for Rated Researchers</td>
<td>100,000.00</td>
<td>2013</td>
</tr>
<tr>
<td>Andrea Fuller</td>
<td>NRF Incentive Funding Programme Rated Researchers</td>
<td>40,000.00</td>
<td>2013</td>
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<tr>
<td>Robyn Hetem</td>
<td>NRF Thuthuka</td>
<td>220,000.00</td>
<td>2012-2014</td>
</tr>
<tr>
<td>Andrea Fuller</td>
<td>SPARC: Research Excellence</td>
<td>147,000.00</td>
<td>2013</td>
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<tr>
<td>Peter Kamerman</td>
<td>Tempus consulting fund (IASP)</td>
<td>78,715.50</td>
<td>2013-2014</td>
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<tr>
<td>Robyn Hetem</td>
<td>URC minor equipment grant</td>
<td>107,000.00</td>
<td>2013</td>
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<td>Andrea Fuller</td>
<td>URC minor equipment grant</td>
<td>186,000.00</td>
<td>2013</td>
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</tbody>
</table>

Significant local collaborations

<table>
<thead>
<tr>
<th>Collaborator</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr P Adrian</td>
<td>Respiratory and Meningeal Pathogens Research Unit (RMPRU), Chris Hani Baragwanath Hospital</td>
</tr>
<tr>
<td>Prof S Madhi</td>
<td></td>
</tr>
<tr>
<td>Dr E Archer van Garderen</td>
<td>Natural Resources and the Environment division (NRE) of the Council for Scientific and Industrial Research (CSIR)</td>
</tr>
<tr>
<td>Prof L Brown</td>
<td>Applied Behavioural Ecology &amp; Ecosystem Research (ABEERU), UNISA</td>
</tr>
<tr>
<td>Dr K de Wet</td>
<td>Centre for Health Systems Research and Development, University of the Free State</td>
</tr>
<tr>
<td>Collaborator</td>
<td>Institution</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Prof B Erasmus</td>
<td>School of Animal, Plant and Environmental Sciences, University of the Witwatersrand</td>
</tr>
<tr>
<td>Prof N Owen-Smith</td>
<td></td>
</tr>
<tr>
<td>Dr F Parrini</td>
<td></td>
</tr>
<tr>
<td>Dr M Hofmeyr</td>
<td>Veterinary Wildlife Services, SANParks</td>
</tr>
<tr>
<td>Dr P Buss</td>
<td></td>
</tr>
<tr>
<td>Dr A Karstaedt</td>
<td>Chris Hani Baragwanath Hospital/ School of Clinical Medicine, University of the Witwatersrand</td>
</tr>
<tr>
<td>Dr Z Lombard</td>
<td>Wits Bioinformatics, University of the Witwatersrand</td>
</tr>
<tr>
<td>Dr G Marx</td>
<td>Department of Haematology and Cell Biology, University of the Free State</td>
</tr>
<tr>
<td>Prof FO Muller</td>
<td>Director, Scientific and Regulatory Affairs for South Africa Clinical Trials (Pty) Ltd. Pharmacology, University of the Free State</td>
</tr>
<tr>
<td>Dr M Suchard</td>
<td>Department of Haematology and Molecular Medicine, Charlotte Maxeke Johannesburg General Hospital/ National Health Laboratory Services</td>
</tr>
<tr>
<td>Prof R van Aarde</td>
<td>Conservation Ecology Research Unit, Zoology, University of Pretoria, South Africa</td>
</tr>
<tr>
<td>Prof A Venter</td>
<td>Department of Paediatrics, University of the Free State</td>
</tr>
</tbody>
</table>

**Significant International collaborations**

<table>
<thead>
<tr>
<th>Collaborator</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof P Henzi</td>
<td>Behaviour and Evolution Research Group, Psychology Department, University of Lethbridge, Canada</td>
</tr>
<tr>
<td>Dr D Leger</td>
<td>Laboratoire du Sommeil et de la Vigilance, Hôtel Dieu de Paris, Paris, France</td>
</tr>
<tr>
<td>Dr M Miller</td>
<td>Conservation Medicine, Palm Beach Zoo, USA</td>
</tr>
<tr>
<td>Prof J Roth</td>
<td>Institut für Veterinär-Physiologie, Justus-Liebig-Universität Giessen, Giessen, Germany</td>
</tr>
<tr>
<td>Dr C Rummel, Prof R Gerstberger</td>
<td>Centre de Diagnostic et de Thérapeutique, Hôtel Dieu de Paris, Paris, France</td>
</tr>
<tr>
<td>Dr J-P Viard</td>
<td>Department of Surgery and Cancer, Imperial College London, UK</td>
</tr>
<tr>
<td>Prof A Rice</td>
<td>School of Earth and Environmental Sciences, University of Adelaide, Australia</td>
</tr>
<tr>
<td>Conference</td>
<td>Date</td>
</tr>
<tr>
<td>---------------------------------------------------------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>5th Wits Cross-Faculty Postgraduate Symposium, Johannesburg</td>
<td>1-2 August</td>
</tr>
<tr>
<td>Faculty of Veterinary Science Faculty Day, University of Pretoria</td>
<td>5 September</td>
</tr>
</tbody>
</table>
| 41st Conference of the Physiology Society of Southern Africa (PSSA)       | 15-18 September | L Harden  
T Swanepoel  
T Baartman: 2nd in the Johnny Van Der Walt student poster competition.  
T Dukhan: 3rd in the Johnny Van Der Walt student poster competition. |
| 11th Annual Savanna Science Networking Meeting, Kruger National Park      | 3-8 March     | A Fuller  
R Hetem  
A Haw  
M Strauss  
H Lease |
| The South African Veterinary Association (SAVA) Wildlife Group Minicongress, Serengeti-Gauteng | 16-18 March   | A Haw  
L Meyer |
| Southern African Wildlife Management Association (SAWMA) symposium, Kruger National Park | 15-19 September | M Strauss  
I Murray |
| Wits postdoc symposium, Johannesburg                                       | 27 September  | H Lease  
I Murray |
<p>| Physiotherapy Pain Management Group, Port Elizabeth                       | 31 September  | D Mitchell                                                                             |
| Pain SA, Durban                                                           | 7-9 June      | P Kamerman, A Wadley                                                                   |
| 15th Biennial Congress of the Southern African Society for Human Genetics (SASHG), the Maslow, Sandton | 6-9 October   | L Hendry                                                                               |
| The Zoological Society of                                                 | 14-17 July    | A Botha                                                                               |</p>
<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Organizers/Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southern Africa (ZSSA) biennial symposium, Tshipise Resort just north of the Soutpansberg</td>
<td></td>
<td>N Weyer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Both were awarded bursaries to cover the cost of conference registration and membership</td>
</tr>
<tr>
<td>1&lt;sup&gt;st&lt;/sup&gt; German-South African Science Slam</td>
<td>9 October</td>
<td>N Weyer</td>
</tr>
<tr>
<td>4&lt;sup&gt;th&lt;/sup&gt; Annual Diamond Route Research Conference</td>
<td>29-30 October</td>
<td>A Fuller, R Hetem, D Mitchell, N Weyer</td>
</tr>
<tr>
<td>28&lt;sup&gt;th&lt;/sup&gt; Annual meeting of the Associated Professional Sleep Societies (APSS), Baltimore, MA, USA</td>
<td>1-5 June</td>
<td>V Duxbury, K Redman, K Scheuermaier</td>
</tr>
<tr>
<td>4&lt;sup&gt;th&lt;/sup&gt; International Congress on Neuropathic Pain (NeuPSIG), Toronto, Canada</td>
<td>22-26 May</td>
<td>P Kamerman, D Pillay, P Pillay: was awarded a Trainee/Fellow Bursary</td>
</tr>
<tr>
<td>The 39&lt;sup&gt;th&lt;/sup&gt; Congress of the International Union of Physiological Sciences (IUPS), Birmingham, UK</td>
<td>21-26 July</td>
<td>A Fuller, D Mitchell, S Maloney, H Laburn</td>
</tr>
<tr>
<td>Joint Meeting of Ichthyologists and Herpetologists (JMIH), New Mexico, USA</td>
<td>10-15 July</td>
<td>I Murray</td>
</tr>
<tr>
<td>6&lt;sup&gt;th&lt;/sup&gt; World Association of Sleep Medicine conference, Valencia, Spain</td>
<td>28 Spt - 2 October</td>
<td>A Bentley, S Kerr: was awarded the Wayne Hening Young Investigator Award for Restless Legs Syndrome</td>
</tr>
<tr>
<td>30&lt;sup&gt;th&lt;/sup&gt; Annual conference of the Australia and New Zealand Society for Comparative Physiology and Biochemistry, Melbourne, Australia</td>
<td>26-29 November</td>
<td>D Mitchell, M Strauss</td>
</tr>
<tr>
<td>7&lt;sup&gt;th&lt;/sup&gt; Canadian IBRO-School Neuroscience, Montreal, QC &amp; Toronto</td>
<td>13-21 May</td>
<td>D Pillay</td>
</tr>
<tr>
<td>7&lt;sup&gt;th&lt;/sup&gt; Annual Canadian Neuroscience Meeting 2013,</td>
<td>22-24 May</td>
<td>D Pillay</td>
</tr>
</tbody>
</table>
Postdoctoral Fellows

<table>
<thead>
<tr>
<th>Name</th>
<th>Previous Institution</th>
<th>Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr H Lease</td>
<td>University of New Mexico</td>
<td>NRF</td>
</tr>
<tr>
<td>Dr R McFarland</td>
<td>University of Lincoln</td>
<td>Claude Leon</td>
</tr>
<tr>
<td>Dr I Murray</td>
<td>University of New Mexico</td>
<td>URC</td>
</tr>
<tr>
<td>Dr B Rey</td>
<td>University of Lyon</td>
<td>Claude Leon</td>
</tr>
<tr>
<td>Dr A Wadley</td>
<td>University of the Witwatersrand</td>
<td>Hillel Friedland Trust</td>
</tr>
</tbody>
</table>

Publications

- De Zambotti M, Colrain IM, Sassoon SA, Nicholas CL, Trinder J, Baker FC Vagal withdrawal during hot flashes occurring in undisturbed sleep Menopause 20: 1147/1153. Impact factor: 3.16
- DeZambotti M, Nicholas CL, Colrain IM, Trinder JA, Baker FC. Autonomic regulation across phases of the menstrual cycle and sleep stages in women with premenstrual syndrome and healthy controls Psychoneuroendocrinology, in press Impact factor: 5.14
- Mcfarland, R, Majolo, B. Coping in the cold: Predictors of survival in wild Barbary macaques (Macaca sylvanus)
- Mcfarland R, Maclarnon A, Heistermann M, Semple S. Physiological stress hormone levels and mating behaviour are negatively correlated in male rhesus macaques (Macaca mulatta). Animal Biology 63: 331-341, 2013. Impact factor: 0.77
- Murray IW, Wolf BO. Diet and growth influence carbon incorporation rates and discrimination factors (Δ13C) in Desert Box Turtles, Terrapene ornata luteola. Herpetological Conservation and Biology 8:149-162, 2013. Impact factor: 0.62

New research initiatives
- Post-doctoral fellow, Ian Murray, gave a talk on mammalian thermal biology and desert environments to an audience of students, staff and researchers at the Gobabeb Research and Training Centre, Walvis Bay, Namibia.
- Anna Haw’s rhino anaesthesia project was featured on SABC’s 50/50 program where Anna, Leith Meyer and Markus Hofmeyr (head of Veterinary Wildlife Services, SANParks) gave some insight into the project and their findings.
- The Sleep Lab had some TV coverage with Karine Scheuermaier, Kirsten Redman and Vania Duxbury featuring on TOMZ (Teenagers on a Mission), a youth-orientated science and technology show on SABC 1. The show is sponsored by the Department of Science and Technology, supported by SABC Education and with a viewership of about 4 million people. Tanya Swanepoel described her PhD research during an excellent, well presented School seminar. Duncan Mitchell shared his expert knowledge on climate change with two talks, namely “Livestock farming and climate change” and “Climate change and the fate of long-lived mammals”, which he delivered to the Rand Barbets Bird Club and the University of the Third Age, respectively.
- Honorary Research Professor Kate Cherry gave an excellent plenary talk at the Neuropathic Pain congress in Toronto and she was congratulated via Twitter on Nature Reviews in Neurology.
Arista van Staden and Nora Weyer were awarded prestigious student bursaries to attend and give oral presentations at the Zoological Society of South Africa congress.


An article entitled “Cheetah do not abandon hunts because they overheat” by Robyn Hetem, Duncan Mitchell, Brenda de Witt, Linda Fick, Leith Meyer, Shane Maloney and Andrea Fuller (published in Biology Letters), was featured in Science Mag, National Geographic, an array of Australian newspapers, the Wits Health Science Research News, the Wits Leader edition 3 (2013) and Africat Newsletter.

A PhD student, Nora Weyer’s popular article “Aardvark research project” was featured in the August edition of the Diamond Route Newsletter.

Karine Scheuermaier was on Ciiradio (Islamic radio) to talk about sleep disorders. She was interviewed on Talk Radio 702 on the Midday Report with Stephen Grootes, to discuss how singing improves snoring, and Bruce Whitfield interviewed her on the Money Show to discuss the death of an intern who pulled three all-nighters in a row while working at Merrill Lynch in London. Karine also had an interview with Tracy Essers for Oprah Magazine where she gave advice on ways to combat daytime sleepiness. Your Family Magazine interviewed Karine about sleep and metabolic disorders as well as children’s sleep.

Visitors

- Professor Stephen P. Kent from La Trobe University, Melbourne, Australia acted as an external reviewer for the BFRG quinquennial report.
- Honorary Research Professor, Patricia Price from the University of Western Australia delivered the Paul Levy Memorial Lecture, entitled “The footprint of cytomegalovirus (CMV) persists in HIV patients”. Prof Price also gave a tutorial to members of the BFRG on research writing skills.
- Professor Shane Maloney (University of Western Australia) and Dr Edward Snelling (University of Adelaide) visited the BFRG for collaborative research.
- During a visit from the Exploration and Research Committee of National Geographic, Anna Haw, Robyn Hetem and Andrea Fuller gave a presentation outlining some of the highlights and research activities carried out by the Wildlife Conservation Physiology lab in the BFRG.
- Associate Professor Jeanne Duffy from Harvard Medical School visited Karine Scheuermaier and gave a seminar to the School of Physiology entitled “Circadian rhythms, sleep and human health”.

BONE RESEARCH LABORATORY

**Director:** Professor Ugo Ripamonti

**Participation in Congresses**

- **Invited Keynote Speaker:** 9*th* World Biomaterials Congress, Chengdu, China June 2012. Ripamonti U. Osteoclastic priming of calcium phosphate-based macroporous surfaces initiates the spontaneous induction of bone formation.

**Publications**


9.6. SCHOOL OF PUBLIC HEALTH

**Appointments**

- School of Public Health recruited 3 A-rated or equivalent researchers during 2013: Professor John Eyles (the new SARCHI chair in health policy and systems research); Professor Kandala, a biostatistician, and Professor Lenore Manderson a medical anthropologist.
- Gill Nelson: Associate Professor (1 Oct 2013).

**Awards/Recognition**

- **Dr Charles Chasela**- received a C rating from the National Research Foundation at end of 2013.
- **Dr Mark Collinson**- Emerging Researcher award from the University Research Office to host a postdoctoral research fellow. The Fellow will research the relationship of migration to mortality and socio-economic status in rural Mpumalanga in the Agincourt Health and Socio-Demographic Surveillance System.
- **Dr Gill Nelson** - received the 2012 Faculty of Health Sciences Prestigious Post Graduate Degree Award for her PhD. Her thesis, “Living in the shadow of a dust cloud: Occupational respiratory diseases in the South African mining industry, 1975 to 2009”, was supervised by **Professors Jill Murray** (School of Public Health) and **Geoffrey Candy** (Department of Surgery).
- **Drs Gill Nelson and Andrew Swanepoel**: elected as the editors of the only occupational journal in southern Africa: Occupational Health Southern Africa.
- **Professor Laetitia Rispel** received a recognition award in the allied health professional category from the Gauteng branch of South African Medical Association for outstanding health leadership and contribution to health systems transformation.
- **Rhian Twine**- one of the recipients of the Joe Veriava Bioethics Medal. Rhian has led the LINC Office for community engagement of the MRC/Wits-Agincourt Unit since February 2004. Rhian established a dedicated LINC office (Learning, Information dissemination and Networking with Community) and built its activities and profile. Over 9 years Rhian has built a strong and sustainable community engagement programme extending across (and beyond) the rural Agincourt sub-district, focus for much of the work of the MRC/Wits Rural Public Health and Health Transitions Research Unit. Rhian has deep insight into the ethical and human rights issues integral to longitudinal community-based research, and is a strong and vocal advocate of trust and respect between researchers and study participants.
- **Dr Andrew Swanepoel** served on the 23rd Conference on Epidemiology in Occupational Health (EPICOH) Scientific committee for the conference in the Netherlands. Andrew has been elected as a new member of the EPICOH board representing South Africa. Andrew Swanepoel was also appointed Chairman of the Certification Board of the Southern African Institute for Occupational Hygiene (SAIOH).
- **Professor Stephen Tollman**, Director of the Rural Health and Health Transitions Research Unit (Agincourt) research entity status was renewed for a further cycle of five years by the University Research Committee. The Rural Health and Health Transitions Research Unit has also been renewed for a further 5 years by the MRC.
- **Dr Alisha Wade**- received Y rating from the National Research Foundation at the end of 2012.

**Substantial research grants**

- Dr Charles Chasela received a grant of about **400 000 SWISS francs** (around R3.2 million) over 3 years from the SWISS Tropical Public Health Institute.
- In December 2012, Professor Laetitia Rispel received a **R10 million** grant over a three year period (2012-2015) from the board of the Atlantic Philanthropies. The grant will focus on enhancing research and teaching in *School of Public Health* in support of health systems transformation in South Africa.
- The Democratic Nursing Organisation of South Africa (DENOSA) has awarded a grant of **R1 million** to the Centre for Health Policy to complete a book entitled “Igniting dreams, confronting realities: the history of nursing in South Africa, 1960 – 2010”. The book will be co-authored by **Professor Laetitia Rispel**, Head of the School of Public Health and
Ms Makhosazana Xaba, a research writing fellow in the Centre for Health Policy within the School of Public Health. The research for the book draws on unique archival material over a 50-year period, from 1960 until 2010. The book will trace nursing developments during the years, with a particular focus on the period since democracy. It also incorporates in-depth interviews with nurses still in practice, those recently retired and those who have left the profession. The historical perspective taken in this research will allow the authors to answer several questions, including: What does the history of nursing reflect about health sector and health professional developments in South Africa, and vice versa? Is there currently a crisis in nursing, and what is the nature of this crisis? How realistic are expectations of the caring nurse who provides excellent services in a seemingly dysfunctional and constantly changing health system.

- The Division of Epidemiology and Biostatistics in the School of Public Health, in partnership with Wits Commercial Enterprise, signed two capacity building contracts amounting to **US$600,066.43 (around R6 million)** with Southern African Development Community (SADC) Secretariat. Under the contract, the school will train health personnel and support 11 SADC member states to implement two approved frameworks: (a) Sexual Transmitted Infections (STI) and (b) Disease Surveillance for TB, Malaria, and HIV and AIDS to ensure domestication of the policies within SADC. The project will end in December of 2014.

**Significant local research collaborations**

- The School is in the process of renewing a collaboration agreement with the Africa Centre based at the University of KwaZulu Natal on two tracks of the MSc (epidemiology) degree: field-based epidemiology and research data management.

**Significant international research collaborations**

- Prof Gill Nelson: University of Washington, Seattle, USA; Washington University, St Louis, USA.
- Dr Charles Chasela: The SWISS Tropical Public Health Institute.

**Hosting of a Congress/Research Day/Research Workshop**

- **Building opening symposium**
  The Wits School of Public Health has moved to a magnificent new building across the road from the Wits Health Sciences Faculty in Parktown, Johannesburg. To celebrate the event, the School hosted an international public health symposium on **24 January 2013**, entitled ‘Building Capacity 4 Health’. This theme acknowledged the importance of public health in achieving good health for all. It also embraced the purpose of the School’s new home: a place for teaching and promotion of learning, knowledge generation and dissemination, and public health leadership and advocacy. Close to 400 delegates, including public and private health practitioners, policy experts from government, non-governmental organisations, universities, the media and international visitors from delegates from across Africa, Europe, Asia and North America attended this inaugural event.

- **Launch of a special journal issue of Global Health Action**
  The international peer-reviewed journal, *Global Health Action*, launched a special edition to commemorate the School and its new building. At the gala dinner attended by over 200 dignitaries and guests to celebrate the launch and the opening of the new building, the journal's Deputy Editor, Professor Peter Byass of Umeå University in Sweden, said: "We are proud to highlight the key role the Wits School of Public Health plays in South African public health, as well as South Africa’s leading role in the African continent. Taking action in global health needs new generations of researchers and policy makers to work together on making differences in people’s lives.” The special edition features 23 articles by staff and students, of which 15 (63%) were authored by postgraduate students or junior academics. Six papers are by first-time authors, all of whom are black and five are women. This highlights the supplement’s theme ‘Building new knowledge’ to nurture and develop the next generation of African scholars, a critical human resource challenge in sub-Saharan Africa. The special issue showcases a series of papers exploring trends, developments and new directions for scientific enquiry on public health in South Africa and the region to an international public health audience. *Global Health Action* is an open access publication, allowing for the widest possible dissemination of research in over 110 countries.
- **Student-supervisor boot camp**
  On 29-30 April 2013, a two day Boot Camp was held in with recent WSPH graduates. Twenty post-graduate students attended the Boot Camp, and a few mentors and/or supervisors. The target was 10 papers submitted to accredited journals. At the time of writing, 5 papers have been submitted to accredited journals, with four submitted to ISI journals.

- On 11-12 July 2013, the School of Public Health, University of the Witwatersrand in conjunction with the University of Warwick (UK) and Monash University (Australia) held a two day round table discussion. The gathering brought together leading academic researchers, policy makers and practitioners from across a range of disciplines and organisations. Twenty five delegates attended from South Africa, Australia, UK, Botswana, DRC and Cameroon. The gathering comprised of four sessions over the two days, covering topics on the overview of evidence and current research priorities, what research is needed to address the key determinants of cardiometabolic diseases (CMD - cardiovascular disease and type 2 diabetes), adapting health systems to the CMD burden, the policy context and local challenges, and opportunities for proposed research. The aim of the round table was to develop a research agenda to address CDM in Sub-Saharan Africa and to develop a strategy that would be taken forward by the institutions represented at the gathering.

- **Wits trained UNICEF programme officers**
  In August 2013, the Social and Behavioural Change Communication (SBCC) division linked up with Ohio University's Scripps College of Communication to train 57 UNICEF staff for two weeks in the practical application of Communication for Development. This followed a four month online course and was the first time this course was held outside Ohio. Communication for Development is an approach which stresses dialogue, allowing communities to have a voice in the decisions that affect them. It uses behaviour change communication, social mobilization, advocacy and strengthened media capacity to stimulate positive and measurable behaviour and social change. “Our SBCC course is the only one of its kind in Africa, while Ohio University’s program (CommDev) is one of only a handful in the world to focus on the role of communication in development and social change,” said Dr Nicola Christofides, head of the Wits SBCC programme. The UNICEF programme officers interacted with seven non-governmental organisations in Gauteng to develop communication strategies based on developmental issues such as supporting orphans and vulnerable children, poverty reduction, early childhood development and eradication of gangsterism.

- On the 28-31 October 2013, the School of Public Health co-hosted the 12th INDEPTH International Scientific Conference with Statistics South Africa in collaboration with INDEPTH members of Health and Demographic Surveillance Systems (HDSSs) in South Africa (i.e. Africa Centre, Agincourt and Dikgale). The theme of the 2013 ISC conference was “Fitting together the health data puzzle: the contribution of INDEPTH (HDSSs) to the strengthening of national health information systems (NHIS)”, and brought together close to 300 leading health, population, medical and social scientists from across Asia, Africa and Oceania to share cutting-edge research. Sessions featured presentations using longitudinal data in conjunction with censuses, national surveys and/or national health information systems.

**Participation in congresses**

- Nine students from the School of Public Health presented papers at the 9th Public Health Association of South Africa (PHASA) conference which was held in Cape Town from the 24-27 September 2013.
- **Ntombizodwa Ndlovu** – Awarded the second prize in the Faculty of Health Sciences Poster Presentation at the 5th Cross-Faculty Graduate Symposium which was held on the 1-2 August 2013.
- **Dr Gill Nelson**: Runner up prize for student poster at 30th International Congress on Occupational Health (ICOH) Conference, Cancun, Mexico (PhD paper), 2012

**Postdoctoral Fellows**

- In partnership with SWISS Tropical Public Health Institute – we have one post-doctoral fellow from e University of Basel working on our Research Project on 50% effort.
Visitors

- As part of the Alumni Diaspora Programme, alumnus **Professor Duncan Saunders** from the School of Public Health, University of Alberta, spent a week in the Faculty of Health Sciences, between 21-26 January. Professor Duncan Saunders qualified from the University of the Witwatersrand with an MBBCh in 1975. He is a generalist epidemiologist with interest in global health. He serves on the Board of Directors for the Canadian Society for International Health and on the Editorial Board of the Canadian Journal of Public Health. Professor Saunders gave a lecture in the Faculty entitled ‘The MDGs and beyond: Better the second time round?’ which evoked a healthy discussion from the audience. Professor Saunders was also one of the guest speakers in the School of Public Health’s ‘International Public Health Symposium’, which took place during the week of his visit.

CENTRE FOR HEALTH POLICY

**Director: Dr Jane Goudge**

Appointments

- The Centre for Health Policy has appointed **Professor John Eyles**, an eminent international research scientist, as the new Chair for Health Policy and Systems Research.

  This is one of 60 new chairs allocated within the South African Research Chairs Initiative (SARChI) programme of the Department of Science and Technology (DST), administered by the National Research Foundation (NRF), and one of three new chairs awarded to Wits. The purpose of the SARChI programme is to bring international experts to South Africa for an initial five-year term to conduct research in areas deemed important for the challenges facing the country.

  The research portfolio associated with this chair will focus on universal access (also referred to as *universal coverage*) to quality care for all South Africans. This is necessary to strengthen the public health system’s ability to use resources effectively and efficiently, while increasing the production of skilled health workers.

  Professor Eyles is world-renowned in the field of health systems and policy research, and will strengthen the field in South Africa as the Department of Health embarks on a major health systems reform program to boost the country’s health outcomes which fall below international targets in some areas.

- **Prof. Lenore Manderson**, Professor of Medical Anthropology in the School of Psychology and Psychiatry in the Faculty of Medicine, Nursing and Health Sciences at Monash University in Australia, will be joining CHP from March 2014 on a part-time basis.

- **Prof. Freddie Ssengooba** from Makerere University in Uganda will join the Centre in early 2013. Prof. Ssengooba is a senior research fellow and he will boost CHP’s senior research and teaching capacity.

  All three are senior appointments who will assist with mentoring young researchers, supporting research, writing, teaching and supervision.

Awards/Recognition

- **CHP** submitted five articles to a special edition of *Global Health Action* which was launched to commemorate the opening of the new Wits School of Public Health building. A press statement on this was prepared and sent to key general and medical press.

- **Shakira Choonara** presented a poster at the 5th Cross Faculty Graduate Symposium at the University of the Witwatersrand. Her poster was entitled “Socioeconomic Factors Affecting the User of Two Vital Malaria Prevention Methods among Pregnant Women in Kenya”. She won First Prize for a Poster Presentation in the Faculty of Humanities.

- **Dr Jane Goudge** received an award on behalf of the Centre for Health Policy at the Annual Health Sciences Research Awards dinner to honour outstanding achievements by researchers and research entities within the Faculty over the past year.

- **Prudence Ditlopo** was invited to serve on the board of **Health-e News Service** which supplies health news to the mainstream media.
CHP’s resident writer, Makhosazana (Khosi) Xaba, launched her first fiction book entitled ‘Running and Other Stories’ published by Modjadji Books in September. At CHP, Xaba is currently researching and writing a book outlining a history of nursing in South Africa. Co-authored by the head of the Wits School of Public Health, Professor Laetitia Rispel, the book’s working title is Igniting dreams, confronting realities: A history of nursing in South Africa (1960-2010). It focuses on nursing and the politics of health, nursing and the country, and is a part sequel to the Shula Marks’s Divided Sisterhood.

### Substantial research grants

<table>
<thead>
<tr>
<th>Funder</th>
<th>Period</th>
<th>Title of project</th>
<th>Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPSR</td>
<td>2010 - 2013</td>
<td>Incentives and employment preferences in an under-served area of Peru</td>
<td>$9,541</td>
</tr>
<tr>
<td>DFID</td>
<td>2011 - 2015</td>
<td>Responsive and resilient health systems consortium (RESYST): Health workers’ preferences and policy interventions to improve retention in rural areas in Kenya, South Africa and Thailand</td>
<td>R1,207 218</td>
</tr>
<tr>
<td>DFID</td>
<td>2012 - 2013</td>
<td>Responsive and resilient health systems consortium (RESYST): Investigating the impact of different reimbursement mechanisms on the decision-making of individual health professionals</td>
<td>£ 68,006</td>
</tr>
<tr>
<td>DFID</td>
<td>2013 - 2016</td>
<td>Responsive and resilient health systems consortium (RESYST): A district learning site to better understand and support local decision-making practices</td>
<td>£123,203</td>
</tr>
<tr>
<td>DFID</td>
<td>2012 - 2016</td>
<td>Responsive and resilient health systems consortium (RESYST): A longitudinal, cohort study of the job choices of South African nurses to inform human resource policy interventions</td>
<td>£117,699</td>
</tr>
<tr>
<td>European Commission &amp; Dept of Science &amp; Technology</td>
<td>2010 - 2016</td>
<td>Universal coverage in Tanzania and South Africa (UNITAS): monitoring and evaluating progress</td>
<td>€ 315,205, R577,175</td>
</tr>
<tr>
<td>European Commission</td>
<td>2011 – 2013</td>
<td>Diagonal interventions to fast forward enhanced reproductive health (DIFFER)</td>
<td>€ 105,000</td>
</tr>
<tr>
<td>European Commission</td>
<td>2011 - 2014</td>
<td>Multilateral Association for Studying Health Inequalities and Enhancing North-South and South-South Cooperation (MASCOT)</td>
<td>€ 211,432</td>
</tr>
<tr>
<td>Funders</td>
<td>Years</td>
<td>Projects</td>
<td></td>
</tr>
<tr>
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</tr>
<tr>
<td>OTRA</td>
<td>2013</td>
<td>A rapid assessment of provincial and district implementation of Primary Health Care (PHC) outreach teams in South Africa</td>
<td>R 71,310</td>
</tr>
<tr>
<td>The Atlantic Philanthropies</td>
<td>2010-2013</td>
<td>Research on the State of Nursing (RESON): To develop and strengthen the research evidence for improved nursing policy development and practice in South Africa</td>
<td>R 9 million</td>
</tr>
<tr>
<td>UK Medical Research Council</td>
<td>2013 - 2015</td>
<td>NKATEKO: Treating hypertension in rural South Africa: A clinic-based lay health worker to strengthen community-based outreach services for integrated chronic care</td>
<td>£ 812,623</td>
</tr>
<tr>
<td>UNICO</td>
<td>2012 - 2014</td>
<td>Comparative study of household needs, utilisation and access to health care services in rural Ghana and Vietnam</td>
<td>$ 13,000</td>
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<tr>
<td>USAID</td>
<td>2013 - 2014</td>
<td>Health finance and governance project</td>
<td>$ 75,000</td>
</tr>
<tr>
<td>WITS SPARC</td>
<td>2012 - 2013</td>
<td>Academic excellence through increasing publications and building a resilient international collaboration between Wits and Monash University</td>
<td>R400,000</td>
</tr>
</tbody>
</table>

**Significant local research collaborations**

- We continue to strengthen our local partnerships, particularly at district health level (City of Johannesburg, Sedibeng, Ekurhuleni, Kenneth Kaunda, Bushbuckridge, OR Tambo, and uMgungundlovu), while engaging with national and provincial departments of health, notably the Gauteng Department of Health. These long term collaborations ensure our research is grounded in the changing realities of South African service provision.
- National academic partnerships continue to grow from strength to strength. These include partnerships with the Health Economics Unit (UCT), School of Public Health (UWC), the University of the Free State, University of KwaZulu-Natal, and the Human Sciences Research Council. Such collaborations enable more substantial programmes to be carried out, than would otherwise be possible, and as senior capacity is scarce in all units, a collective development of new knowledge.
- Other important collaborators have included non-governmental and professional associations such as the Public Health Association of South Africa (PHASA), the Democratic Nursing Organisation of South Africa (DENOSA), the Rural Health Advocacy Project (RHAP), Human Rights Watch, Section 27 and the Budget Expenditure Monitoring Forum. The advocacy and professional roles of these organisations provide important insights that strengthen our research activities. These organisations also provide a forum to disseminate our research findings.
Dr Liz Thomas from the MRC has been based at CHP for a number of years and is a long-standing research colleague. As a senior member of staff she has played an important role in jointly supervising PhDs and supporting the PhD programme within the Wits School of Public Health.

**Significant international research collaborations**

- Our international networks and collaborations are both maturing and expanding. We currently collaborate with institutions in 24 countries. We have important bi-lateral collaborations where researchers are co-principal investigators with researchers at: the Institute for International Health and Development at Queen Margaret University College in Edinburgh; the Centre for Health Economics and Policy at McMaster University in Canada; University of Warwick; University of Ghent; Radboud University Netherlands; and the Health Policy and Management Department at Trinity College in Dublin.
- A collaboration (2011-2015) with Ghana, Kenya, Nigeria and Tanzania as part of the Consortium for Health Policy and Systems Analysis in Africa (CHEPSAA) is part of efforts to build African HPSR capacity, drawing together researchers to develop teaching curricula, networks and institutional capacity collectively. Three European countries, Sweden, Switzerland and the UK, are part of this collaboration.
- Under the MASCOT (Project 22, Table 9) project we led a systematic review that has drawn together researchers from 10 countries (Costa Rica, Mexico, Chile, Tanzania, Ghana, Tunisia, Switzerland, France, Portugal, UK). Through the use of specifically designed software, researchers are able to screen and review papers, and resolve differing reviewer decisions while located in different continents.
- CHP has continued to collaborate with the LSTHM, with whom, over the last 17 years, we have been linked through three DFID funded research consortia, and two research programmes. The current DFID-consortia RESYST, has 8 partners located in 6 countries both in Africa (Kenya, Nigeria and Tanzania) and Asia (India, Thailand, and Vietnam). As there has been much continuity of institutions and researchers over more than 15 years, these partnerships are a very firm foundation for very effective research collaborations.
- Our collaboration with other high income countries includes Monash University, Australia, where Prof Lenore Manderson has provided on-going support over the last 8 years to PhD students in CHP and the WSPH.

We have just begun a new collaboration with Abt Associates in the United States on a USAID funded project on health care financing and governance.

**Staff and student participation in congresses**

- In February, Nonhlanhla Nxumalo participated in a data analysis workshop organised by the University of the Western Cape for a project that is conducting a rapid assessment of provincial and district implementation of Primary Health Care (PHC) outreach teams, commissioned by the National Department of Health. The analysis of the data from some provinces will form part of what will be feedback to the department regarding the implementation status of PHC outreach teams.
- **Dr Jane Goudge** and **Prudence Ditlopo** attended a national consultative forum in March run by the National DoH and attended by the minister, deputy minister, and Director-General and Chief directors who reported on progress on current reforms, and invited comment from delegates. Issues covered current life expectancy (which is up), infant mortality rates, TB, health systems strengthening, non-communicable diseases, prevention and promotion, HRH, Office for Health Standards Compliance, key health programmes, and the District Health Authority.
- **Dr Duane Blaauw** and **Bronwyn Harris** participated in a seminar on 30 April in Johannesburg organised by the Director-General of the National Department of Health on development and implementation of District Health Authorities (DHAs) in the National Health Insurance in South Africa. The seminar aimed to promote discussion on the purpose and functions of DHAs with regard to their structure and relationship with other district, provincial and national structures; the capacities required to assemble DHAs and avoidance of duplication; legislative amendments required to ensure optimal functioning of DHAs; and next steps.
- In May, **Dr Jane Goudge** and **Bronwyn Harris** attended the annual partner workshop in Cape Town of UNITAS (Universal Health Care Coverage in Tanzania and South Africa). This project is monitoring and evaluating policy processes surrounding changes in health financing such as the National Health Insurance.
Dr Goudge and Prudence Ditlopo attended a curriculum workshop in Cape Town for the CHEPSAA (Consortium for Health Policy and Systems Analysis in Africa) project. CHEPSAA aims to extend sustainable African capacity to produce and use high quality health policy and systems research.

CHP research fellow Felix Limbani and researcher Siphiwe Thwala attended the Multilateral Association for Studying Health Inequalities and Enhancing North-South and South-South Cooperation (MASCOT) meeting in Mexico City on 25-26 September 2013. This meeting aimed to provide a platform for participants to learn from the experience of other countries from North and South and exchange strategies aimed at reducing mother and child health inequalities.

Hosting of a congress, research day, research workshop

CHP was instrumental in helping to organise an international one day symposium entitled Building Capacity 4 Health to commemorate the opening of the new School of Public Health building in January 2013. CHP Director, Dr Jane Goudge, presented at the Building Capacity 4 Health international public health symposium held at the School of Public Health, Wits University, 24 January 2013. The title of her presentation was “Health Systems Research and Policy: Building the field”. Prudence Ditlopo chaired a session on Research, Policy Advocacy and Implementation.

The audience of over 400 people was varied and included government stakeholders, private sector, researchers, district health managers (civil society) and interest-based stakeholders. During lunchtime, stakeholders were invited to view the building through structured tours of each floor. Key stakeholders were exposed to CHP’s research including the RESYST project through posters, papers and general information on health policy and systems research. Twenty-three visitors to CHP signed up to receive news and notification of future events. An article was also placed on CHP’s website (Click here).

In July, CHP closed the Research on the State of Nursing (RESON) Project with a workshop to feed back results to key stakeholders. This was a four-year project funded by The Atlantic Philanthropies that aimed to develop and strengthen the evidence for improved nursing policy development and practice in South Africa through three main research areas:

i. Policy analysis – scope of practice, qualifications framework, occupational specific dispensation, and the country’s nursing strategy;

ii. Casualisation: Nursing agencies and moonlighting

iii. Nursing management and quality of care

Over 40 stakeholders from the private and public sector, national and provincial health departments, academics and NGOs including DENOSA and the South African National AIDS Council (SANAC) attended the last meeting of the RESON Advisory Committee to hear the findings of these three core research projects, and to propose strategies for getting this research into policy and practice.

The research has enhanced nursing policy discourse, and led to improved design of human resource plans and support systems for nurses. Importantly, the work has improved understanding of casualisation and moonlighting practices, and nursing supervision and management. It has contributed to substantial capacity development, providing support for four Masters students, two PhDs and three National Research Foundation interns. Through the RESON Advisory Committee, the project has created a forum for broader engagement on the nursing crisis and established a network of key nursing stakeholders to advocate for critical policy issues.

Internally, CHP has hosted a series of capacity building health system seminars in 2013. The intention is to strengthen knowledge and rigour in health policy and systems research, particularly for early career researchers in health policy and systems. These seminars, coordinated by Nonhlanhla Nxumalo and Duane Blaauw, are held monthly and are open to all WSPH staff to grow capacity beyond CHP.

Each seminar is paired with a local or international issue, often taken from a newspaper report, which is relevant to HPSR. To date topics have included the Health Minister’s budget speech, the integrated school health programme, and the Competition Commission’s enquiry into healthcare. The seminars help to build capacity in HPSR knowledge and to keep staff abreast of current affairs which affect or relate to health systems.
**Publications**


Rispel L, Nieuwoudt S. Mainstreaming the Social Determinants of Health in South Africa: Rhetoric or reality. *South African Health Review* 2013, Chapter 7; 89-101


New research initiatives

**“Nkateko” – a randomised controlled trial on treating hypertension in rural South Africa: A clinic-based lay health worker to enhance integrated chronic care**

South Africa has a high and rising prevalence of hypertension. Previous research in the rural Agincourt sub-district, covered by a high-functioning health and demographic surveillance system (HDSS) has found a prevalence of 61% in adults, many affected individuals not using any medication and very few of them (9%) with controlled blood pressure. Until recently, primary care clinics focused on management of acute conditions, but recent government initiatives are shifting the focus to the integrated management of chronic disease including HIV, TB, diabetes and hypertension. This cluster randomised controlled trial will test the effectiveness of a new clinic-based lay health worker to supplement government initiatives and support care of chronic disease.

Pregnancy can exacerbate pre-existing vulnerabilities in certain populations by lowering education and employment opportunities, increasing needs and heightening dependency. CHP contributed research to offer **maternity and early child support grants** as a mechanism for giving children the best possible start in life, for reducing inequities stemming from pregnancy and for alleviating family poverty. In 2012, Associate Professor Matthew Chersich won a tender from the national Department of Social Development to conduct a systematic review of global experience with grants during pregnancy (identified 40 programmes in 30 countries), analysis of the General Household Survey to examine evidence of the vulnerability of pregnant women, and focus group discussions and key informant interviews on state-supported pregnancy programmes. This work was finalised in 2013, and demonstrated that initiating state support during pregnancy would complement the Child Support Grant and far extend its benefits for maternal health and wellbeing, and for newborns (such as increased birth weight). This research provides a unique opportunity for interventions over a brief period which could have massive impacts and synergies beyond compare.

CHP is embarking on new work in **human resources for health**, since recruitment and retention of health workers is a major concern. Policy initiatives emphasize financial incentives, despite mixed evidence of their effectiveness. Qualitative studies suggest that nurses especially may be more driven by altruistic motivations, but quantitative research has overlooked such values. An innovative cross-country quantitative study conducted with the London School of Hygiene and Tropical Medicine used experimental economics to characterise the nature and determinants of nurses’ altruism. An experimental ‘dictator game’ was undertaken with 1064 final year nursing students in Kenya, South Africa and Thailand. The dictator game presents participants with a real financial endowment to split between themselves and another student, a patient or a poor person.
Giving a greater share of this financial endowment to the other person is interpreted as reflecting greater altruism. Nursing students gave over 30% of their initial endowment to others which is significantly higher than the 10% observed in similar experiments undertaken with other groups. Respondents in all three countries showed greater generosity to patients and the poor than to fellow students. However, nursing students from South Africa were significantly less altruistic than those from the other two countries. The study suggests that consideration needs to be given on appealing to altruistic values as an alternative strategy to encourage nurses to enter the profession and remain there.

- To make its work more accessible, CHP **updated its website** and issued its **first electronic newsletter** in October 2013. The newsletter featured **three policy briefs** which translate research findings into short, digestible documents for easy reading and action by policy makers and key stakeholders.
- **Nonhlanhla Nxumalo**’s PhD work featured in the Wits Health Sciences Newsletter. The article was entitled “Outreach services to improve access to health care in South Africa: lessons from three community health worker programmes”. It reached key internal stakeholders at Wits.
- **Greer van Zyl** wrote a feature article for the annual *Bulletin* of the Health Professions Council of SA (HPCSA) on National Health Insurance (pages 8-13). The HPCSA, one of CHP’s RESYST regulatory authority stakeholders, and the *Bulletin* was distributed to all 160 000 healthcare professionals in South Africa.

**MRC/WITS RURAL PUBLIC HEALTH AND HEALTH TRANSITIONS RESEARCH UNIT (AGINCOURT)**

**Director: Professor Stephen Tollman**

**Awards/Recognition**

- Mrs Rhian Twine (who heads the LINC office – Learning, Information Dissemination and Networking with the Community) was awarded the Joe Veriava Bioethics Medal jointly with Prof Lukhele from Clinical Medicine.
- Professor Steve Tollman will be receiving an award from the Faculty on 4 Dec. (This will be updated later).
- Dr Soteh Ameh, PhD student at Agincourt was awarded an African Doctoral Dissertation Research Fellowship (ADDRF).
- Dr Mark Collinson received an Emerging Researcher award from Wits URC which makes it possible to host a post doc fellow to assist him in his research on migration.

**Board members:**

**Steve Tollman**

- Chair, Public Health and Tropical Medicine Interview Committee, the Wellcome Trust, UK
- Chair, External Advisory Board – Research Capacity, Public Health Foundation of India, New Delhi.
- Chair, Scientific Organising Committee, 12th INDEPTH International Scientific Conference, School of Public Health, Wits, Johannesburg.
- Member, MRC UK Global Health Strategy Group.
- Member, MRC UK African Research Leader selection panel.
- Member, International Advisory Board, Centre for Global Health Research, Cambridge University, UK.
- Member, **DCP3 / Disease Control Priorities**, Advisory Committee to the Editors, Seattle USA.

**Kathy Kahn**

- Member, INDEPTH Board of Trustees, Accra Ghana
- Deputy Chair, Soul City Board
- Member, Ministerial Health Data Advisory Coordinating Committee, SA
- Member, Steering Committee, Consortium for Advanced Research Training in Africa (CARTA)

**Clifford Odimegwu**

- Chief Editor and Chair, Editorial Board, Journal of African Population Studies
Karen Hofman
- Member Soul City Board

Xavier Gomez-Olive
- Member, Research and Ethics Committee, Mpumalanga Province

Rhian Twine
- Member, Research and Ethics Committee, Mpumalanga Province

Substantial Research Grants
- Wellcome Trust- 2 year award -R9,181,972.

Significant local research collaborations

<table>
<thead>
<tr>
<th>Cheryl Cohen</th>
<th>Researcher, Epidemiology and Surveillance Unit</th>
<th>National Institute for Communicable Diseases</th>
<th>Severe acute respiratory infection and rotavirus surveillance and research</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marianne Alberts</td>
<td>Emeritus Professor Medical Sciences</td>
<td>University of Limpopo</td>
<td>Dikgale HDSS and non-communicable disease</td>
</tr>
<tr>
<td>Till Barnighausen</td>
<td>Assistant Professor</td>
<td>Harvard School of Public Health and Africa Centre, KZN</td>
<td>HIV studies and adult health and aging</td>
</tr>
<tr>
<td>Martin Wittenberg</td>
<td>Senior researcher, Economics</td>
<td>University of Cape Town</td>
<td>Migration and health</td>
</tr>
<tr>
<td>Debbie Bradshaw</td>
<td>Head Burden of Disease Unit</td>
<td>Medical Research Council</td>
<td>Mortality, vital registration</td>
</tr>
</tbody>
</table>

Significant international research collaborations

<table>
<thead>
<tr>
<th>Peter Byass</th>
<th>Professor, Centre for Global Health Research</th>
<th>University of Umeå, Sweden</th>
<th>Verbal autopsy: evaluating computer-based analyses; migration and health</th>
</tr>
</thead>
<tbody>
<tr>
<td>Samuel Clark</td>
<td>Assistant Professor, Department of Sociology</td>
<td>University of Washington, Seattle, USA</td>
<td>Demographic methods, mathematical modeling of population processes, theory &amp; practice of temporal databases</td>
</tr>
<tr>
<td>Ed Fottrell</td>
<td>Researcher</td>
<td>Univ College London, UK</td>
<td>Assessment of verbal autopsies</td>
</tr>
<tr>
<td>Michel Garenne</td>
<td>Directeur de Recherche, Epidémiologie des Maladies émergentes</td>
<td>Pasteur Institut, France</td>
<td>Demography – fertility &amp; mortality</td>
</tr>
<tr>
<td>Name</td>
<td>Position/Role</td>
<td>Institution</td>
<td>Research Focus</td>
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</tr>
<tr>
<td>Jill Williams</td>
<td>Assistant Director, African Population Research and Training Program Institute of Behavioral Science</td>
<td>University of Colorado at Boulder, USA</td>
<td>Migration, gender, capacity development in longitudinal data management and analysis</td>
</tr>
<tr>
<td>David Dunger</td>
<td>Professor, Department of Paediatrics</td>
<td>University of Cambridge, UK</td>
<td>Adolescent and infant growth and risk for metabolic disease</td>
</tr>
<tr>
<td>Kerstin Edin</td>
<td>Fellow; Epidemiology and Public Health Sciences</td>
<td>University of Umeå, Sweden</td>
<td>Gender, Project Ntshembo</td>
</tr>
<tr>
<td>Anneli Ivarsson</td>
<td>Senior lecturer, Epidemiology and Public Health Sciences</td>
<td>University of Umeå, Sweden</td>
<td>Paediatrician, Project Ntshembo</td>
</tr>
<tr>
<td>John Kinsman</td>
<td>Lecturer, Epidemiology and Public Health Sciences</td>
<td>University of Umeå, Sweden</td>
<td>Anthropologist, Project Ntshembo</td>
</tr>
<tr>
<td>Sheri Lipman</td>
<td>Researchers</td>
<td>Univ of California, San Francisco</td>
<td>Community mobilization intervention, Swa Koteka</td>
</tr>
<tr>
<td>Audrey Pettifor</td>
<td>Senior researcher</td>
<td>University of North Carolina, Chapel Hill, USA</td>
<td>Cash Transfer intervention (Swa Koteka)</td>
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<tr>
<td>Alan Stein</td>
<td>Professor, Child and Adolescent Psychiatry</td>
<td>University of Oxford, UK</td>
<td>School-based intervention on child resilience and coping</td>
</tr>
<tr>
<td>Lisa Berkman</td>
<td>Professor and Director</td>
<td>Harvard Centre for Population and Development Studies</td>
<td>Social epidemiology, adult health and aging, public policy</td>
</tr>
<tr>
<td>David Canning</td>
<td>Professor; Deputy Director</td>
<td>Harvard Centre for Population and Development Studies</td>
<td>Economic aspects of aging</td>
</tr>
<tr>
<td>Somnath Chatterjee</td>
<td>Evidence and Information for Policy</td>
<td>World Health Organization, Geneva, WHO</td>
<td>INDEPTH-WHO study on physical and cognitive function</td>
</tr>
<tr>
<td>Myles Connor</td>
<td>Honorary (Clinical) Senior Lecturer, Dept Clinical Neurosciences</td>
<td>University of Edinburgh, UK</td>
<td>Cardiovascular disease and epilepsy</td>
</tr>
<tr>
<td>Jane Menken</td>
<td>Professor and Director, Population Aging Centre</td>
<td>University of Colorado at Boulder, USA</td>
<td>Social impacts ART; INDEPTH multi-site Adult health and aging; joint training grants</td>
</tr>
<tr>
<td>Charles Newton</td>
<td>Professor, Adolescent and Child Psychiatry</td>
<td>Oxford University</td>
<td>Tropical neurology, particularly epilepsy, CNS infections</td>
</tr>
<tr>
<td>Nawi Ng</td>
<td>Senior Lecturer, Epidemiology &amp; Global</td>
<td>University of Umeå, Sweden</td>
<td>INDEPTH-WHO multi-site adult health and aging</td>
</tr>
<tr>
<td>Name</td>
<td>Role</td>
<td>Institution</td>
<td>Research</td>
</tr>
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<tr>
<td>Josh Salomon</td>
<td>Associate Professor, Institute for Global Health</td>
<td>Harvard University, USA</td>
<td>INDEPTH multisite study on self-reported health</td>
</tr>
<tr>
<td>Margaret Thorogood</td>
<td>Professor of Epidemiology</td>
<td>University of Warwick, UK</td>
<td>Non-communicable disease, adult health and aging;</td>
</tr>
<tr>
<td>Kerstin Klipstein-Grobusch</td>
<td>Associate Professor</td>
<td>Wits Public Health (PT)</td>
<td>Non-communicable disease epidemiology</td>
</tr>
<tr>
<td>Kerstin Klipstein-Grobusch</td>
<td>Associate Professor</td>
<td>Utrecht Univ, Netherlands</td>
<td></td>
</tr>
<tr>
<td>Enid Schatz</td>
<td>Faculty member</td>
<td>University of Missouri, USA</td>
<td>Older women's experiences of HIV/AIDS</td>
</tr>
<tr>
<td>Philippe Bocquier</td>
<td>Associate Professor</td>
<td>Universite Catholique Louvain, Belgium</td>
<td>Migration and Health</td>
</tr>
<tr>
<td>Lori Hunter</td>
<td>Associate Professor, Population Aging Centre</td>
<td>University of Colorado at Boulder, USA</td>
<td>Population health and natural resource use</td>
</tr>
<tr>
<td>Mark Lurie</td>
<td>Assistant Professor, Dept of Community Health</td>
<td>Brown University, USA</td>
<td>Migration and health</td>
</tr>
<tr>
<td>Sangeetha Madhavan</td>
<td>Sociologist/demographer</td>
<td>University of Maryland, USA</td>
<td>Social connections and child wellbeing</td>
</tr>
<tr>
<td>Soter Ameh, PhD student</td>
<td>gave an oral presentation at the 9th Public Health Association of South Africa (PHASA) conference held in Cape Town from 24-27 September. His presentation was titled 'Predictors of health care utilization by older adults in rural South Africa.' This conference was in collaboration with the African Federation of Public Health Associations (AFPHA), and it was the inaugural conference of the AFPHA.</td>
<td></td>
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<tr>
<td>Stephen Tollman</td>
<td>attended the Population Association of America conference held in New Orleans, USA, 11-13 April 2013.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Participation in congresses**

- Mike White presented a poster entitled “Migration, loss to follow-up and population health surveillance in South Africa.” Population Association of America, 11-13 April, New Orleans. (White M, Collinson MA, Antobam K, McGarvey ST, Lurie M)
- Sotera Ameh, PhD student, gave an oral presentation at the 9th Public Health Association of South Africa (PHASA) conference held in Cape Town from 24-27 September. His presentation was titled ‘Predictors of health care utilization by older adults in rural South Africa.’ This conference was in collaboration with the African Federation of Public Health Associations (AFPHA), and it was the inaugural conference of the AFPHA.
- Stephen Tollman attended the Population Association of America conference held in New Orleans, USA, 11-13 April 2013.
Hosting of a Congress/Research Day/Research Workshop

- Agincourt, in collaboration with the INDEPTH Network, organized the INDEPTH SCIENTIFIC CONFERENCE- ISC 2013- which took place in the new building of the School of Public Health. The theme for the conference was ‘Fitting together the health data puzzle.’ 28-31 Oct 2013.

Postdoctoral Fellows

- Carren Ginsberg
- Nicole Angotti
- Kojo Antobam
- Brain Houle

Publications

- Schatz E, Gilbert L, McDonald C. If the doctors see that they don't know how to cure the disease, they say it's AIDS': how older women in rural South Africa make sense of the HIV/AIDS epidemic. *African Journal of AIDS Research* 2013; 12(2):95-104
- Arthur S, Bangha M, Sankoh O. Review of contributions from HDSSs to research in sexual and reproductive health in low- and middle-income countries. *Tropical Medicine and International Health* 2013; 18(12):1463-1487
- Verguet S, Jassat W, Bertram MY, Tollman SM, Murray CJL, Jamison DT, Hofman KJ. Impact of supplemental immunization activity (SIA) campaigns on health systems: finding from South Africa. *Journal of Epidemiology and Community Health* 2013; DOI: 10.1136/jech-2012-202216


• French DP, Wade AN, Farmer AJ. Predicting self-care behaviours of patients with type 2 diabetes: the importance of beliefs about behaviour, not just beliefs about illness. *Journal of Psychosomatic Research* 2013; 74(4):327-33


New research initiatives

**Nkateko-‘blessing’** PIs: Margaret Thorogood (univ Warwick); Jane Goudge (Wits); Charles Newton (Oxford). Objective: We hypothesize that a clinic-based lay health worker will achieve improved access and management of hypertension when compared with “usual care”. We will evaluate barriers and enablers affecting patient outcomes and pay attention to labour migrants as continuity of care is problematic.

**AWI-Gen.** The Wits-INDEPTH H3Africa Collaborative Centre, under the leadership of Professor Michéle Ramsey and Dr Osman Sankoh, aims to study the environmental risk factors for obesity and related cardiometabolic diseases. It is a partnership between Wits and the International Network for the Demographic Evaluation of Populations and Their Health in low and middle income countries, using five INDEPTH member health and demographic surveillance system field sites across four African countries: Ghana, Burkino Faso, Kenya and South Africa, as well as an urban study site in Soweto. The study will begin by examining the genetic architecture of these African populations and will progress to investigate genomic contributions to body fat distribution, considering the relevant environmental and social contexts, in order to contribute to an understanding of cardiometabolic disease susceptibility.

Visitors

- Professor Matthew McQueen- University of Colorado at Boulder
- Professor Stig Wall, Umeå University, Sweden and Editor of Global Health Action
- Profesor Peter Byass, Umeå University, Sweden
- Dr Kirsten Edin, Umeå University, Sweden
- Professor Andy Foster, Brown University, Providence, Rhode Island
- Professor Shah Ebrahim, LSHTM, UK
- Professor David Lam, University of Michigan, USA
- Emeritus Professor Jerry Coovadia, UKZN, MATCH (Wits)
- Professor Catriona Macleod, SARCHI chair: Critical studies in sexualities and reproduction, Rhodes University, Grahamstown
- Dr Barni Nor, SIDA

9.7. SCHOOL OF THERAPEUTIC SCIENCES

Appointments

- Dr Hellen Myezwa (Department of Physiotherapy) promoted to Associate Professor.
- Dr Joanne Potterton (Department of Physiotherapy) promoted to Associate Professor.
- Dr Helena van Aswegen (Department of Physiotherapy) promoted to Associate Professor.

Awards/Recognition

- Mrs Shirra Moch won the 2013 Pharmacology Educator Award from the SA Society of Basic and Clinical Pharmacology "in recognition of contributions to excellence, expertise, and demonstrable achievement in pharmacology education.
- Associate Professor Yahya Choonara was awarded the Friedel Sellschop award in recognition of exceptional young researchers
- Dr Witness Mudzi was awarded an NRF Rating in the Y1 category.
• Associate Professor Yahya Choonara was awarded an NRF Rating in the Y1 category.

• Professor Viness Pillay was awarded the Wits Innovators Forum International Inventor Award for having a patent granted in an international jurisdiction, Wits Commercial Enterprise (Pty) Ltd., May 2013.

• Professor Viness Pillay, Associate Professor Yahya Choonara and Ms Lisa du Toit were awarded the Wits Innovators Forum Prolific Inventor Award for having disclosed more than five inventions, Wits Commercial Enterprise (Pty) Ltd., May 2013.

• Professor Viness Pillay, Associate Professor Yahya Choonara and Ms Lisa du Toit, Mr Pradeep Kumar were awarded the Wits Innovators Forum First-Time Inventor Award for having disclosed a first patent, Wits Commercial Enterprise (Pty) Ltd., May 2013.

Substantial research grants

• Associate Professor Yahya Choonara was awarded an National Research Foundation of South Africa (NRF) Research Grant under the Blue Skies Program, Nanomicelles for Cancer Therapy, (Principal Grant Holder), R180,000, 2013.

• Associate Professor Yahya Choonara was awarded the Friedel Sellschop Grant from the University Research Committee, University of the Witwatersrand, (Principal Grant Holder), R105,000 p.a., 2011-2013.

Significant local research collaborations

• Dr Leonie Harmse is currently collaborating with Professor Charles de Koning from the Wits Chemistry Department on a project which involves the screening of novel compounds as potential anticancer agents which includes their cytotoxic potential and ability to induce apoptosis.

Significant international research collaborations

• Mr Maluta Steven Mufamadi, a PhD candidate in novel drug delivery, under the supervision of Professor Viness Pillay of the Wits Advanced Drug Delivery Platform (WADDP) in the Department of Pharmacy and Pharmacology, has successfully completed a 3-month Novartis Next Generation Scientist (NGS) Internship Programme in Basel, Switzerland.

• Angeliki Stephanou was invited by Professor Debra Goff from the Ohio State University as part of an exchange program to enhance skills and knowledge relating to Antibiotic Stewardship. The training took place between 11 and 23 November 2013. The exchange program is being funded by MSD Pharmaceuticals and FIDSSA in partnership with the Netcare Group.

Participation in congresses

• Mrs Juliana Freeme (Occupational Therapy) with students Mildred Maboitshego, July Masango, Winnie Mashimbe, Rendani Tshifa gave a poster presentation on “Virtual reality and neurological rehabilitation: can they be partners in SA?” at the South African Neurology And Rehabilitation Association (SANRA) which was held at the Hilton Hotel, Sandton between 28 and 30 August 2013. Their poster won the prize for best poster at the conference.

Hosting of a Congress/Research Day/Research Workshop

The School of Therapeutic Sciences hosted their biennial Research Day on 10 September 2013 – the following prizes were awarded:

• Mrs Shirra Moch : Best Oral Presentation
• Ms Ronel Roos : Runner-Up - Oral Presentation
• Mrs Denise Franzsen : Best Poster Presentation
• Ms Natalia Neophytou : Runner-Up - Poster Presentation
• Ms Zelna Hubsch : Emerging Researcher

Visitors

• The Department of Nursing Education hosted Dr Mary Stewart, a research midwife from University College, London, on 14 August 2013. Dr Stewart conducted a workshop for a large audience on Evidence of vaginal examinations in labour: conversations with mothers and midwives and Evidence based midwifery: developing and celebrating own knowledge.
- The Wits Department of Nursing Education in conjunction with the Nursing Education Association and Johnson & Johnson hosted a workshop on 8 March 2013, entitled: Strengthening a Research Culture. The guest speaker was Professor Dame Tina Lavender of the University of Manchester, a midwifery professor who was appointed a Dame Commander of the Order of the British Empire in the Queen’s Birthday Honours for services to midwifery in 2012.
- The Department of Nursing Education hosted visiting Honorary Professor Alexandros Molassiotis. A series of workshops were facilitated by Professor Alex Molassiotis, Professor of Cancer and Supportive Care at the University of Manchester and chair of Nursing at Hong Kong Polytechnic University.
- Professor Adam Thomas from the USA spoke to biokineticists, physiotherapists and students on Concussions: Management, Treatment, Prevention, and the role of the Physical Therapist’. He is a physical therapist and certified athletic trainer entering his 9th year as an assistant clinical professor at North-Eastern University in Boston, MA, USA where he has been a faculty member in the Physical Therapy Department and Athletic Training Education Program. He is the director of the Sports Residency Program in the Physical Therapy Department at North-Eastern. His teaching interests include therapeutic modalities, concussion management, and orthopeadic injuries/treatment, especially with the athletic population.

DEPARTMENT OF PHARMACOLOGY AND PHARMACOLOGY

Professor Sandy van Vureen

Significant local research collaborations

- Collaboration with Prof Alvaro Viljoen (NRF / DST chair of Phytomedicine) at Tshwane University of Technology has resulted in four joint publications for 2013. We are co-supervising three postgraduate students together
- Collaboration with Prof Helene De Wet from the Department of Botany, University of Zululand has resulted in two joint publications for 2013.

Participation in congresses

- de Wet H, Nciki S, van Vuuren SF. Medicinal plants used for the treatment of various skin disorders by a rural community in northern Maputaland, South Africa. 54th Annual Meeting of the Society for Economic Botany The Sherwell Conference Centre at Plymouth University Plymouth, South Western England, 28 July-2 August 2013. [Oral presentation]
- Hubsch Z, van Vuuren S, van Zyl R. What are the implications of combining allopathic antimicrobials with traditional medicinal plants? School of Therapeutic Health Sciences Research Day, 10 September, 2013. [Winner of emerging researcher division]
- Kasote D, Viljoen A, Chen W, van Vuuren S. Chemical profiling of South African propolis. The 34th Annual Conference of the Academy of Pharmaceutical Sciences of South Africa- Cape Town, 4-6 October, 2013. [Poster presentation]
- Ahmad A, van Vuuren S, Viljoen A. Interactions of *Thymus vulgaris* volatiles against various microbial pathogens. The 34th Annual Conference of the Academy of Pharmaceutical Sciences of South Africa- Cape Town, 4-6 October, 2013. [Poster presentation]

- Suleman T, Viljoen AM, Kasote D, Sandasi MS, van Vuuren SF. Investigating the antimicrobial and chemical properties of South African propolis. Inter-university Research day, University of Johannesburg, 29 October, 2013.

- Nciki S, de Wet H, van Vuuren SF. Validating the traditional use of medicinal plants in Maputaland to treat skin diseases. Inter-university Research day, University of Johannesburg, 29 October, 2013.

- Hübsch Z, van Vuuren S, Van Zyl R. Can traditional medicinal plants have an effect on allopathic antimicrobial therapies? Inter-university Research day, University of Johannesburg, 29 October, 2013. [Winner of medal for best MSc presentation]

**Invited Key Note Lecture**


**Publications**


- Zonyane S, van Vuuren SF, Makunga NP. Antimicrobial interactions of Khoi-San poly-herbal remedies with emphasis on the combination; *Agathosma crenulata*, *Dodonaea viscosa* and *Eucalyptus globulus*. Journal of Ethnopharmacology, 2013, 148, 144-151.


**Visitors**

- International collaboration with Dr I. Cock (Department of Biomolecular and Physical Sciences, Griffith University, Australia) resulted in a six month (September 2012-February 2013) research sabbatical fellowship where he was
hosted in my research laboratories. We already have one joint publication together as well as one recently submitted (October, 2013) to the journal of Food Control (impact factor 2.74).

WITS ADVANCED DRUG DELIVERY PLATFORM (WADDP)

Director: Professor Viness Pillay

Awards/Recognition

- Professor Viness Pillay has been admitted as a Fellow of the African Academy of Sciences (AAS), in honor of his exceptional contribution made to research in the field of pharmaceutics and having attained the highest international standards in his work, 2013.
- Professor Viness Pillay was honored with a prestigious Fellowship from the African Academy of Sciences (AAS) which recognises the highest level of scholarship and achievement of Africa-born scientists. The AAS fellowship programme is an initiative to honour and acknowledge African scientists who have become internationally renowned in their respective fields. Currently, the number of Fellows of AAS stands at 162 from 28 African countries. He was inducted at a formal ceremony at the AAS General Assembly meeting.
- Professor Yahya E. Choonara was awarded a National Research Foundation (NRF) Y1 rating for 2013-2017. He was also nominated for The World Academy of Sciences Research Prize in 2013.
- A paper entitled: A Prospective Overview of the Essential Requirements in Molecular Modeling for Nanomedicine Design by Pradeep Kumar, Riaz A. Khan, Yahya E. Choonara and Viness Pillay, Future Medicinal Chemistry, 5(8), 929-946, 2013 was the highlight of the respective issue (vol 5 issue 8) in Future Medicinal Chemistry.
- Postdoctoral Fellow, Dr. Lomas Tomar won the Young Investigator Award for a paper entitled ‘Poly(PEGDMA-MAA) Copolymeric Micro and Nanoparticles for Oral Insulin Delivery: A Molecular Mechanistic Revisit’ at the International Joint Conference on Pharmaceutical Pharmacology Technology - IJCPT 2012 - organised by IRNet Group, India at New Delhi, Sep 6-7, 2012.
- PhD student Mr. Pradeep Kumar was the Winner of the World Congress for NeuroRehabilitation (WCNR) Executive Committee Student Scholarship 2012 for a paper entitled ‘Polyphenol-flavonol synergistic paradigm for neural repair: Combinatorial computational modeling approach for post-traumatic μ-calpain inactivation’, at the 7th WCNR Congress: Innovations in NeuroRehabilitation, Melbourne Convention and Exhibition Centre, Melbourne, Victoria, Australia, 16 – 19 May 2012; the Elsevier’s International Society for Developmental Neuroscience (ISDN) Student Scholarship 2012 for a paper entitled ‘In silico theoretical molecular modeling for Alzheimer’s disease: The nicotine-curcumin paradigm in neuroprotection and neurotherapy, at the 19th Biennial Meeting of the ISDN2012: Neurodevelopment and Neurological diseases, Tata Institute of Fundamental Research, Mumbai, Maharashtra, India, 11-14 January, 2012 and several Elsevier’s NanoToday 2011 PhD Student Awards for three conference papers pertaining to the robust design of biodegradable block-copoly(ester-ether)s and multifunctional nanoconstructs for spinal cord injury..
- PhD student Ms. Lisa du Toit was the Winner of the Association for Research in Vision and Ophthalmology (ARVO) International Travel Grant 2012, for a paper entitled ’In Vivo Verification of the Bioreponsive Potential of an Intelligent Intraocular Implant, (Supervisor of PhD student, Ms. Lisa C. Du Toit), ARVO Annual Meeting 2012, Fort Lauderdale Florida, USA, 6-10 May 2012.
- Masters student Mr. Angus Hibbins was the Novartis Next Generation Scientist Program 2012 Award designed to accelerate the scientific and leadership capabilities of talented students.
- Masters student Mr. Tong Sheng-Tsai was the Gauteng Department of Agriculture and Rural Development Biotech Fundi Award 2012 for Best Student Research.
- Masters student Ms. Priya Bawa won the 2011 University of the Witwatersrand, Faculty of Health Sciences Best Postgraduate Degree Award for a dissertation entitled: Design and Development of a Stimuli-Responsive Oral Tablet System for the Treatment of Ulcerative Colitis.

Masters student Ms. Ameena Wadee was the 6th International Conference on Pharmaceutical and Pharmacological Sciences (ICPPS), Winner Award for Best Young Scientist Research – “The development of an in situ forming implant for the treatment of solid tumors: Determination of the effect of methotrexate release on colon carcinoma cells and in vivo studies in the rat model, Ameena Wadee, Viness Pillay, Yahya E. Choonara, Lisa C. du Toit and Clement Penny.

Substantial research grants

- NRF-ASACEN Grant Supporting Joint Research Co-operation between South Africa and Argentina. Collaborating with Professor Ismael Bianco, Biotechnology Unit, CEPROCOR-CONICET, Ministry of Science and Technology of Cordoba, Santa Maria de Punilla (CP 5164), Argentina, Prof. Viness Pillay, R450,000, 2013-2015.
- NRF Research Grant under the Blue Skies Program, Nanomicelles for Cancer Therapy, Prof. Yahya E. Choonara, R535,000, 2012-2014.
- NRF Thutuka Grant entitled a Neurodurable Scaffold Device, Prof. Yahya E. Choonara, R203,000, 2013.
- Professor Viness Pillay NRF Incentive Funding for Rated Researchers, R80,000.00, 2012-2017.
- Professor Yahya E. Choonara NRF Incentive Funding for Rated Researchers, R20,000.00, 2013-2017.
- NRF Research Chair: Pharmaceutical Biomaterials and Polymer-Engineered Drug Delivery Technologies, University of the Witwatersrand, Prof. Viness Pillay, R2.5,000,000 p.a., 2012-2017 (a 3-cycle renewable grant).

Participation in congresses

- Rheological and swelling behavior of pH sensitive hydrogel particles, Lomas Kumar Tomar, Charu Tyagi, Yahya E. Choonara, Pradeep Kumar, Lisa C. du Toit and Viness Pillay, 5th International Conference on Chemical, Biological and Environmental Engineering – ICBEE 2013 Conference, New Delhi, India, 14-15 September 2013.
- Podium Presentation: In-silico analyticomathematical interpretation of multi(biomedical)material assemblies: Quantification of energy surfaces and molecular attributes via atomistic simulations, Pradeep Kumar, Yahya E. Choonara and Viness Pillay, 25th European Conference on Biomaterials, Madrid, Spain, September 8-12th, 2013.
L. Tomar, Post-Doctoral Fellow (Pharmaceutics), date of commencement (2012), *In progress.*
Research Project: Investigations into the oral delivery of cytokines for the treatment of Multiple Sclerosis.
Institution: University of the Witwatersrand, Department of Pharmacy and Pharmacology, South Africa

C. Tyagi, Post-Doctoral Fellow (Pharmaceutics), date of commencement (2010), *In progress.*
Institution: University of the Witwatersrand, Department of Pharmacy and Pharmacology, South Africa

O. Adeleke, Post-Doctoral Fellow (Pharmaceutics), date of commencement (2013), *In progress.*
Research Project: Exploration of the cytotoxicity and biocompatibility of decorated polyamide 6,10 complexes for specialized drug delivery.
Institution: University of the Witwatersrand, Department of Pharmacy and Pharmacology, South Africa

Divyaranij Bijukumar, Post-Doctoral Fellow (Pharmaceutics), date of commencement (2013), *In progress.*
Research Project: Chronotherapeutic drug delivery technologies
Institution: University of the Witwatersrand, Department of Pharmacy and Pharmacology, South Africa

Publications

- Vitamin D Therapy and Related Metabolomics: Is the Calciferol Dose and Form the Only Requirements for Successful Clinical Therapeutics?, Miles C. Braithwaite, Pradeep Kumar, Charu Tyagi, Lomas K. Tomar, Yahya E. Choonara and Viness Pillay, 81(4), 656-663, 2013.


10. POSTGRADUATE OFFICE

The number of postgraduate students who completed qualifications in 2013 in PhD (D), Masters by dissertation (MR), coursework and research report (MC) and Postgraduate Diploma (X) with comparisons for 2011 and 2012 respectively, is shown in Table 27 below.

Table 27: Requirements complete for Faculty of Health Sciences displayed by School 2011 – 2013

<table>
<thead>
<tr>
<th>Academic Year</th>
<th>Program Type</th>
<th>Schools</th>
<th>Anatomical Sciences</th>
<th>Clinical Medicine</th>
<th>Oral Health Sciences</th>
<th>Pathology</th>
<th>Physiology</th>
<th>Public Health</th>
<th>Therapeutic Sciences</th>
<th>Total per Program Type for FAHS</th>
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<tbody>
<tr>
<td>2011</td>
<td>D</td>
<td>8</td>
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</table>

A pleasing increase, particularly in Ph.Ds from 22 in 2012 to 37 in 2013 is noted. Unfortunately a drop in Masters by research occurred.
Table 28 below is an illustration of the enrolment numbers of postgraduate students for the Faculty. An increase in student registrations is apparent from 2011 to 2013.

**Table 28: Enrollments statistics for postgraduate students displayed by School for Faculty of Health Sciences 2011 – 2013**

<table>
<thead>
<tr>
<th>Academic Year</th>
<th>Program Type</th>
<th>Schools</th>
<th>Anatomical Sciences</th>
<th>Clinical Medicine</th>
<th>Oral Health Sciences</th>
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A pleasing and noticeable increase in the number of M.Meds graduating between 2009 and 2013 is shown in figure 6 below. M.Dent graduations remain fairly low.

**Figure 6**: MMed/MDent graduations between 2004 – 2013

**Faculty Goal**: The 2013 Faculty Goals in relation to postgraduates was to increase enrollments by 5-10% at each qualification level and to increase the graduations within the stipulated time by 10-20% at each qualification level. Achievements are in an increase in both enrollments (10%) and graduations (68%) for Ph.Ds and an increase in graduations in the Masters by coursework (17%). For our major group doing coursework, the MMeds, graduations are starting to increase slowly.

**Impediments to postgraduate throughput**: Time available for research component by clinical postgraduate students and clinical staff. Insufficient supervisors with equivalent higher degrees.

**Faculty solutions**: Mandatory courses to be introduced for all postgraduates and milestone achievement to be introduced. Moritorium on equivalent degrees allowed by Senate Graduate Studies Committee for two years. MD introduced for staff in 2014.

**General Postgraduate Impediment**: Communication with postgraduate students is difficult as many/most do not use the email address provided by the University. While a link to their own email address can be made, most Postgraduates do not migrate their primary address.
LIST OF INTERNAL EXAMINERS 2013

Below is a list of internal examiners who examined research dissertations and theses as at (November 2013). The Faculty wishes to acknowledge the time and dedication of these academic staff.

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STAFFING MATTERS IN THE POSTGRADUATE OFFICE

Mrs Mathto Senamela
Head: Postgraduate Office

Things are beginning to improve in the Unit with the addition of wo(man) power effective from September 2013. The unit has acquired the service of one staff member who is now solely responsible for the capturing of data. This person is responsible to assist the Faculty Officer Admissions. We have also appointed an additional person who will be assisting with matters relating to protocol and research. As it was previously reported that we had lost the services of one Senior faculty Officer in August 2012, the position has now been filled with effect from September 2013. All of this was achieved as a result of constant meetings between the Dean, Assistant Dean, Faculty Registrar and the Head of Postgraduate Administration.

Challenges

- Extending registration period beyond the required and agreed period – this effects the execution of other processes and results in problems in those areas;
- Not doing two-way checks properly affects the integrity of student data and also results in incorrect registration numbers;
- Registering students and linking them to incorrect schools presents with incorrect statistical data;
- Not capturing milestones affects the research information on the system, this result in presenting incorrect statistical information;
- Capturing incorrect research titles is problematic;
- Not capturing supervisor information is problematic;
- Delays in expediting examiners’ reports affects students negatively;
- Limited or lack of information impacts on how we do business in the unit;
Compilation of graduation lists which are accurate and informative with full details of students graduating;  
Competing vs working together towards common goals;

**Recommendations and way forward**

- We need to stick to deadlines and stop bending backwards too much to accommodate late comers to the detriment of operational exigency;  
- Two way check has to be done timeously and accurately;  
- Students have to be correctly linked to their relevant schools;  
- Milestones have to be captured consistently;  
- Research titles have to be captured correctly and checked for accuracy;  
- Supervisor information has to be captured timeously at registration as well as at protocol stage. Whenever, students request changes to supervisor information, this has to be processed timeously and accurately;  
- Examiners' reports have to be expedited timeously;  
- Information (all sorts) should be freely disseminated without people having to ask for it as information is key to run the business adequately;  
- Comprehensive and helpful lists should be compiled;  
- We should all be working together towards a common goal rather than competing and trying to outdo or undermine others. It is necessary to acknowledge the fact that everyone is here for the same reason which is to provide service the same constituency. It is imperative that the resources are pooled together rather than to compete. Respect is more important than undermining each other.

**Conclusion**

The unit will continue to strive towards excellence and customer satisfaction. This will be achieved when more of the clients we service are happy and are in a position to give positive feedback.

Staff in the unit are continuously being encouraged to participate in the training sessions offered by CLTD; so far two of the staff members have taken advantage of this opportunity. I hope to see this number increase in the year 2014.

We are in the process of having a workshop facilitated by Mr Clifford Chauke from the Employee Relations Office. The aim of this workshop is to ensure that staff is aware of what is required of them in terms of acceptable conduct at a workplace. This is also to ensure that we minimize the need to have to engage in correcting unacceptable behaviour which impacts negatively on the way we run the business.

Success can also be achieved if we receive feedback and this is done timeously and directed to relevant people. We need to avoid creating gaps in the system and ensure that communication is relevant and current and directed to relevant people (eg. If there is a need to communicate to the Head of Postgraduate, the communication should be direct to the Head and it should not be done via a third party).

**Faculty Goal 2013:** To improve procedures in the Postgraduate Office.

1. There was a major discrepancy in the number of staff in the undergraduate and postgraduate sections of the Registrars Office. As the PG Office handles almost 50% of the students in the Faculty there was a need to increase the number of staff. This was rectified in 2013 and the training of these staff was undertaken by Mrs Senamela.
2. A problem still resides in drawing reports for the Assistant Dean and Heads of Schools. The SIMS system has a function which allows for this function to be used. However this function has not been available due to problems it causes when it is switched on.

3. Management and support of the Postgraduate Office is essential in order for this resource to come up to Faculty requirements and speed.