



Seminar

Using the biology of ageing to maintain human health and preventing bacteria from ageing us.

Ageing populations result in economic and social challenges that are getting worse. One solution is to keep people healthier for longer. However, while the biology of ageing has made considerable progress it has not yet benefitted humans. I will discuss how to change that and my own research on how bacteria can influence ageing. The nematode worm *Caenorhabditis elegans* is a very amenable model for ageing. We have found that the *E. coli* that the worm lives on can be manipulated with genetics or drugs to slow ageing, suggesting a mechanism by which bacteria accelerate ageing. I will discuss how we might use this finding to improve human health.

Thursday, 18 September 2025

15h00 - 16h30

CPD Points
Available

PVT Resource Centre, Ground Floor,

PVT Building, 29 Princess of Wales Terrace, Parktown

[RSVP HERE FOR CATERING](#)

Prof David Weinkove



David Weinkove is Professor of the Biology of Ageing at Durham University, Founder of Magnitude Biosciences Ltd, and Chair of the British Society for Research on Ageing. His background is in the biochemistry and genetics in model organisms. After a PhD characterising *Drosophila* PI 3-kinases, he switched to the nematode *C. elegans*. He discovered that inhibiting folate synthesis in the bacteria *E. coli* makes *C. elegans* live much longer. He was asked to contribute a paper to the heads of UK funding on the biology of ageing in the UK, barriers to translation and recommendations to overcome them.