International Fellow 2010

Sirtuins: new insights into why we age and what we can do about it

Leslie Lazarus Oration

David A Sinclair

Professor of Pathology,
Co-director of the Paul F Glenn Laboratories
for the Biological Mechanisms of Aging
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Professor David Sinclair's laboratory has been investigating the molecular basis of aging and the relationship of aging to some major chronic diseases of the developed world, including cancer and heart disease. By understanding the genes and metabolic pathways that impact cell survival, rational-based interventions can be devised to counteract the aging process, and forestall and reduce the prevalence of age-related diseases.
The lab has extensively studied sirtuins; these proteins are a class of evolutionary conserved proteins that typically display deacetylase activity, and have been found to extend the lifespans of lower organisms. Sirtuins are also responsible for mediating the lifespan prolongation that accompanies calorie restriction. The laboratory's high-profile studies, which explored the sirtuin-dependent molecular mechanisms culminating in extended lifespans, have been recently published in prestigious journals such as *Cell* and *Nature*

Organiser: Carsten Schmitz-Peiffer, Garvan Institute

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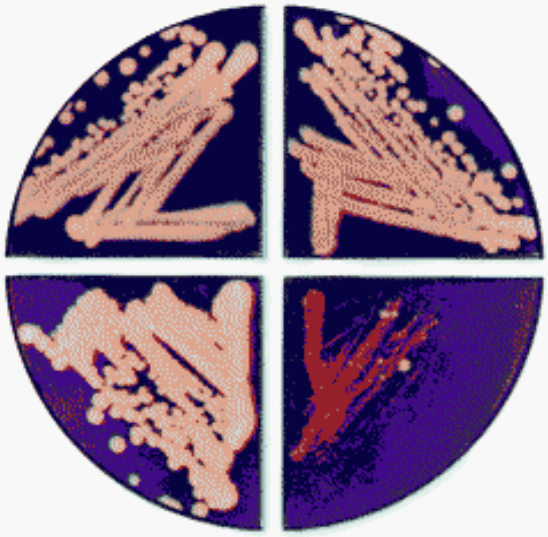

Thursday, 18 November
4.00-5.00pm

Garvan Institute
NAB Auditorium
384 Victoria Street
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