



HARRY PERKINS INSTITUTE
OF MEDICAL RESEARCH



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PERKINS Seminar Series

THURSDAY 1 NOVEMBER



Professor Rudolf Jaenisch

Whitehead Institute and MIT
Cambridge, MA USA

"Epigenetic regulation in development, aging and disease"

Rudolf Jaenisch is a Professor at MIT and the Whitehead Institute. His laboratory focuses on understanding epigenetic regulation of gene expression in mammalian development and diseases including Parkinson's, autism, and Rett and Fragile X syndrome. Dr Jaenisch's pioneering research on reprogramming and stem cells has led to major advances in our understanding of embryonic stem (ES) cells and induced pluripotent stem cells, which are remarkably similar to ES cells but can be created from adult cells without using an egg. His lab demonstrated that somatic cells can be reprogrammed in vitro to pluripotent ES-like cells, and that these cells are suitable to correct both genetic and induced defects by transplantation therapy. Using these pluripotent cells, his laboratory has developed sophisticated models of human conditions, such as Alzheimer's and diabetes, in order to study the genetic and epigenetic basis of human diseases.



Professor Richard Young

Whitehead Institute and MIT
Cambridge, MA USA

"Phase separation and control of cell identity in mammalian cells"

Richard Young is a Professor at the Whitehead Institute and MIT. Dr Young studies gene regulation in health and disease, developing ground-breaking technology to map human genome regulatory circuitry and discovering core circuitry of human embryonic stem cells. He has served as an advisor to the World Health Organization, the National Institutes of Health and numerous scientific societies and journals. Dr Young's honors include Membership in the National Academy of Sciences and Scientific American has recognized him as one of the top 50 leaders in science, technology and business. He has founded and advised companies in the biotechnology and pharmaceutical industry, and currently serves on the Board of Syros Pharmaceuticals, CAMP4 Therapeutics, and Omega Therapeutics. Dr Young is also an aviator and holds a commercial pilot license.

11:30am to 1.00pm
followed by a light lunch

For more information, please contact Ryan Lister on ryan.lister@uwa.edu.au

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