

Seminars 2017

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“Mapping complex rearrangements in human and cancer genomes: what are we missing?”

Professor Vanessa Hayes

Petre Chair of Prostate Cancer Research, University of Sydney
Adjunct Professor of Medical Genomics, J. Craig Venter Institute, USA
Honorary Professor of Medical Sciences, University of Limpopo, South Africa
Conjoint Professor of Medicine, St Vincent's Clinical School, Faculty of Medicine, UNSW Sydney

PhD

Vanessa Hayes is the Petre Chair of Prostate Cancer Research at the University of Sydney and Head and Professor of the Laboratory for Human Comparative and Prostate Cancer Genomics at the Garvan Institute of Medical Research.

Her research interest is in using the variation in the human genome to define human origins and evolution out of Africa, while studying how genome variation triggers, evolves and ultimately defines treatment for prostate cancer.

Driven by advances in technology development from her early research days as a PhD student in cancer genetics at the University of Groningen in the Netherlands, graduating in 1999, Vanessa continued on this path by establishing Australia's first next generation sequencing research laboratory in 2008. She used this technological advance to generate the first African human genome sequences, as well as the genome of the Tasmanian Devil and its devastating facial cancer. Once again her team has established the first next generation mapping laboratory in Australia. The team is using this new non-sequencing optimal mapping approach to understand the contributions of large genomic rearrangements to the evolution of the human genome and in particular prostate cancer.

**Date: Thursday,
16th November 2017
12:00pm-1:00pm**

A light lunch and refreshments to follow

**Location:
TRF Building,
Level 2,
Seminar rooms 1+2
27-31 Wright Street,
Clayton, 3168**

