



# Genes, disease & the future of health

Teachers Professional Development Program 2018

Come and join us at The Garvan Institute of Medical Research as we hold our first ever Teacher Professional Development program, specifically tailored to the new HSC biology syllabus. Our program is divided into two separate days: come for both or select the most relevant day for you. Our first day will cover a broad spectrum of topics with talks and workshops from our Neuroscience, Immunology, Bone Biology, Cancer and Epigenetics Divisions. Explore the scope of our work in STEM and be equipped with up to date information to tackle the future of medical research and technologies. Our second day will focus on resources and approaches to teaching heredity, genetic technologies and genetic disease. We will update you on this fast-moving field and equip you with resources to apply your knowledge in the classroom.

## Program Day 1, Thursday the 15<sup>th</sup> of November

- 9.00am: Keynote 1; Epidemiology, Osteoporosis and the Dubbo Study
- 9.45am: Keynote 2; Epidemiology, Obesity and Diabetes
- 10.30am: Morning Tea
- 11.00am: Hands on Laboratory sessions\*
- 12.30pm: Lunch
- 1.30pm: Keynote 3; Brain circuits for hearing
- 2.15pm: Keynote 4; Genomics, epigenetics, evolution and technology
- 3.15pm: Sundowner drinks & networking

\*Hands on Laboratory sessions: Participants will move between three 30minute lab and clinic based activities with researchers from the Immunology, Diabetes and Neuroscience divisions.

## Program Day 2, Friday the 16<sup>th</sup> of November

- 9am: Keynote 5; Genetic technologies in immune disorders
- 9.45am: Keynote 6; Cancer and population genomics
- 10.30am: Morning Tea
- 11.00am: Genetics strategies and resources workshops\*
- 12.30pm: Lunch
- 1.30pm: Genetics strategies and resources workshops\*
- 3.15pm: Sundowner drinks & networking

\*Genetics strategies and resources workshops: Participants will alternate between two workshops across the day. Workshop A will look at teaching genetics in the genomic era including resources and strategies as well as a peek in our immersive VR cell observatory. Workshop B will focus on genetic testing for non-infectious diseases, a tour of a DNA sequencing laboratory, depth studies and additional resources for context-based learning.

Date: 15<sup>th</sup> & 16<sup>th</sup> November

Time: 8.30-3.30pm each day

Cost: **FREE**

**Morning tea and Lunch is also provided.**

To register please visit our Eventbrite registration page at <https://garvan-tpd-2018.eventbrite.com.au>

Additional detailed information on all talks and workshops will be available shortly.

If you have any questions please contact us at [kccgeducation@garvan.org.au](mailto:kccgeducation@garvan.org.au)

This program is in the process of being submitted for NESA accreditation.

If accredited the program will equal 5 hours of accreditation towards proficiency level on each day.

Teaching standards applied for are 2.1.2, 2.6.2, 3.4.2, 6.2.2 and 7.4.2