INTRODUCING GLEEM 2016
Genetic Leaders and Endocrine Education Meeting

Coordinated by A/Prof Chris White and Dr Sunita De Sousa
Facilitated by Prof Rory Clifton-Bligh and Prof Emma Duncan

Saturday 29 October 2016
Crowne Plaza – Coogee Beach – Sydney

The emergence of ‘next generation’ sequencing using high throughput platforms to simultaneously interrogate multiple genes in a time- and cost-effective manner has brought about a genetics revolution. Academically, this is improving our understanding of the genetic contribution to endocrine disorders and, clinically, this is enhancing the availability of suitable genetic tests for endocrine patients to aid in their diagnosis and management. The Next Generation Endocrinologist must expand the traditional model of clinical and diagnostic endocrinology to encompass a basic understanding of these advances. The pace of change is quick with only a handful of investigators and experts in the field of genetics leading this transition in endocrinology.

This meeting addresses the gap between molecular and clinical genetics that does not readily fit under any one banner or fall entirely within one societal domain. Bringing together leaders in endocrinology, clinical genetics, metabolic disease, hereditary cancer and oncology this day long meeting will provide an overview of the insights and approaches these investigators have in their respective fields. Targeting trainees and younger endocrinologists, the aim of this meeting is to address gaps in knowledge that may currently exist and provide a basic blueprint for approaching the genetic elements of endocrine disorders encountered in daily practice; where to start the diagnostic pathway and how to manage the information you acquire. This update will provide you with the latest information and technology to assist you in your future practice.
OUR SPEAKERS

Roderick Clifton-Bligh is an associate professor and Head of the Department of Endocrinology at Royal North Shore Hospital, and conjoint associate professor in Medicine at the University of Sydney. He completed his doctorate in the genetics of thyroid disorders at the University of Cambridge. He now supervises dual research groups, one of which focuses on the genetics of endocrine neoplasms, and the other on metabolic bone disease. The Cancer Genetics Unit studies the molecular bases of thyroid cancer, phaeochromocytoma/paraganglioma syndromes, adrenal cancer, and pituitary neoplasms. The Metabolic Bone Research Unit studies calcium-sensing receptor gene mutations and FGF23 biology. His scope of clinical practice remains broad. He maintains a strong involvement in teaching and mentoring young physicians.

Emma Duncan is an eminent senior staff specialist in Endocrinology at Royal Brisbane and Women’s Hospital, and Professor of Medicine at both Queensland University of Technology, Institute of Health and Biomedical Innovation and UQ Diamantina Institute, UQ Centre for Clinical Research, University of Queensland. Once graduating in medicine, she moved to the UK in 1994 to undertake her doctorate studies into the genetics of osteoporosis at the Wellcome Trust Centre for Human Genetics, Oxford. She returned to Australia in 2005 and moved to her position at the University of Queensland in 2010 and most recently joined Queensland University of Technology in 2016. Emma has always been fascinated by the skeleton with research in to bone diseases forming the bulk of her basic and clinical research for over two decades, and she has published multiple research papers in osteoporosis and skeletal dysplasias. She is also interested in endocrine tumours and heritable endocrine disorders, such as phaeochromocytomas, other endocrine tumours, has broad practical experience in gene mapping, including genetic epidemiology, linkage, and genome-wide association studies; and more recently has played a strong role in gene discovery using massively parallel (“next-generation”) sequencing. In addition to her genetic research, she also contributes to clinical research in endocrinology and obstetric medicine and, is particularly interested in translating the genetic revolution into clinical practice.

Sunita De Sousa is completing her training in Endocrinology and is currently a Fellow in Clinical Genetics and Endocrinology at the Royal Adelaide Hospital and the Women’s and Children’s Hospital. Sunita previously undertook a Pituitary Fellowship at the Garvan Institute of Medical Research in Sydney with a particular focus in familial pituitary tumour syndromes. She is commencing her PhD at the University of Adelaide exploring the contributions of ARMC5 and other genes to endocrine neoplasia. Her goal is to better understand the pathogenesis of endocrine tumour disorders in order to improve diagnosis and treatment. Sunita has a strong interest in continuing medical education and is the trainee representative on the Advanced Training Committee of the RACP. Her recognition of a significant training gap in clinical genetics in endocrinology together with the rapidly changing pace of knowledge and technology was a key reason for convening this meeting.
Tristan Hardy is completing his training in obstetrics and gynaecology and currently undertaking a PhD in reproductive genetics at the University of New South Wales under Professor William Ledger. He has worked at the Royal Hospital for Women in Sydney and the Women's and Children's Hospital in Adelaide and is currently leading a number of projects in the use of whole genome sequencing in reproductive and fetal medicine. Genomic technologies have been rapidly adopted by the field of obstetrics and gynaecology, and the use of preimplantation genetic diagnosis is expected to increase as our understanding of the genetic aetiology of adult disorders improves. He is currently working towards a universal sequencing-based test for combined aneuploidy and single gene assessment of embryos.

Edwin Kirk is a clinical geneticist and genetic pathologist working at Sydney Children’s Hospital and SEALS pathology. He has a longstanding interest in inborn errors of metabolism. His fields of research include the genetics of congenital heart disease, the psychological impacts of genetic disease, preconception screening and applications of next generation sequencing technology.

Diana Learoyd is an Endocrinologist (Honorary) at Royal North Shore Hospital and an Associate Professor at Sydney Medical School. She completed her PhD in 1999 in the genetics of thyroid cancer, and of MEN2. She set up a thyroid cancer clinical database at RNSH with a NSWCI grant. She has had a major role in the TKI clinical trials run at RNSH, for both DTC and MTC patients. She runs the thyroid cancer MDT, and collaborates with the Department of Endocrine Surgery and the Cancer Genetics Lab of the Kolling Institute. She has a busy clinical practice in general endocrinology with a special interest in thyroid disease of all types.

Anne McCormack is a staff specialist in the Department of Endocrinology at St Vincent’s Hospital, Sydney and Head of the Hormones and Cancer Group at the Garvan Institute of Medical Research. She is chair of the St Vincent’s Campus pituitary multidisciplinary team and founded the Sydney Pituitary Collaborative Group. Her primary research interests are in pituitary tumour genetics, particularly familial pituitary tumour syndromes, as well as investigation into the aggressive pituitary tumour.
Michel Tchan is a clinical geneticist at Westmead Hospital and senior lecturer in genetic medicine at the University of Sydney, managing adults with genetic disorders. He has active research interests in clinical aspects of lysosomal storage disorders, particularly Fabry and Pompe diseases and other Mendelian genetic conditions. Michel currently leads the NSW Adult Genetic Metabolic Disorders Clinic as well as the centre of expertise supervising enzyme replacement therapy for Fabry disease, Pompe disease and the Mucopolysaccharidoes. The AGMDS is based at Westmead Hospital with clinics at Prince of Wales Hospital and Hunter Genetics, and provides specialised care for adults with inborn errors of metabolism. It is also the centre of expertise for the lysosomal storage disorders and coordinates enzyme replacement therapy and overall monitoring for around one hundred patients with this group of disorders.

Kathy Tucker established the first Hereditary Cancer Clinic at the Prince of Wales Hospital in 1994 and is the Clinical Leader of a service that includes St George, Wollongong and the Canberra Hospitals. Kathy has pioneered the use of telemedicine in cancer genetics. Risk assessment, screening and management advice (for all inherited cancers at all ages) are provided to the client and their referring doctor. Her clinics provide a diagnostic service for individuals with, or at risk of, hereditary cancer and tumour conditions. Genetic counselling is an integral part of this service and genetic testing is offered where appropriate. Kathy has a major role in teaching and mentoring with a broad interest in a wide variety of cancer genetic syndromes and topics. Her collaboration with endocrinology and metabolism at the Prince of Wales Hospital was a major impetus for this multi-disciplinary meeting addressing the genetic aspects of endocrinology and metabolism, particularly where it pertains to cancer families with disorders that include traditional endocrine organs or target tissues likely to be seen by endocrinologists in clinical practice.

Alex Viardot is a clinical endocrinologist trained in Switzerland. He moved to Australia in 2006 and completed a PhD in the Diabetes and Obesity Research Program at the Garvan Institute. In 2010 he spent two years at the Imperial College in London supported by an overseas-based NNHMRC Clinical Research Fellowship. Since 2012, Alex has continued his research in the field of Prader-Willi Syndrome and genetic forms of diabetes at the Garvan as well as his clinical work in the Department of Endocrinology at St Vincents Hospital.
THE DAY’S PROGRAM

Session 1
0915 Introduction to the Day
   A/Prof Chris White - Prince of Wales Hospital Sydney
0930 Introduction to the clinic, the genome and endocrinology
   Prof Emma Duncan - Royal Brisbane Hospital Brisbane
1000 The pituitary
   Dr Ann McCormack – St Vincents Hospital Sydney
1030 Metabolic Disorders in adults
   Dr Michel Tchan – The Children’s Hospital at Westmead Sydney
11.00 Morning Tea

Session 2
1130 Bone and mineral metabolism
   Prof Emma Duncan – Royal Brisbane Hospital Brisbane
12.00 Reproductive genetic technologies in endocrinology
   Dr Tristan Hardy – Royal Adelaide Hospital Adelaide
12.30 The endocrine tumour in hereditary cancer
   Dr Kathy Tucker – Prince of Wales Hospital Sydney
1300 Lunch

Session 3
1400 The thyroid
   A/Prof Diana Learoyd – Royal North Shore Hospital Sydney
1430 Pheochromocytoma and paraganglioma
   A/Prof Rory Clifton Bligh – Royal North Shore Hospital Sydney
1500 Monogenic forms of diabetes
   Dr Alex Viardot – St Vincents Hospital Sydney
1530 Afternoon Tea

Session 4
16.00 The clinic, the genome and the laboratory
   Dr Edwin Kirk - SEALS Pathology Prince of Wales Hospital Sydney
16.30 The genome and the trainee
   Dr Sunita De Sousa – Royal Adelaide Hospital Adelaide
17.00 Close of Day Course Evaluation & Feedback
   A/Prof Chris White – Prince of Wales Hospital Sydney
REGISTRATION INFORMATION

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<tr>
<th>Trainee Day Registration Fee</th>
<th>$55.00</th>
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<td>Consultant’s Registration Fee</td>
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Registration includes sessions, morning and afternoon tea and lunch
To register for the meeting please log on to

https://www.trybooking.com/MEMC
Registrations will be acknowledged and receipted.

ACCOMMODATION

Accommodation has been secured at a discounted rate at the Crowne Plaza Coogee Beach. The rate per room per night is $285.00. Breakfast is available in the restaurant at $25 per person

Accommodation bookings are to be made through the following website:


Note:
All accommodation will be confirmed through the hotel on line booking system. Full payment for accommodation by credit card will be required at the time of booking.

ENQUIRIES

GLEEM 2016 Conference Secretariat

Mobile: 0413016300; Email: conferences@optusnet.com.au

ACKNOWLEDGEMENTS