Kids Cancer Alliance

Cancer Predisposition Symposium

Friday 26 August, 2016

Australian Technology Park, Eveleigh, Sydney

PROGRAM

8:50 am	**Symposium opening by Hon. Jillian Skinner MP, Minister for Health, NSW**
	Session 1: Genetics and gene discovery
	Chaired by Prof Glenn Marshall *Director, Kids Cancer Centre, Sydney Children's Hospital*
9:00 - 9:30	**Professor David Thomas** – *Director, Kinghorn Cancer Centre; Head, Cancer Division, Garvan Institute of Medical Research; Conjoint Professor, Faculty of Medicine, UNSW Australia* **Cancer as a genetic disease: Mapping missing heritability at the population level** While the first wave of precision medicine for cancer has focused on somatic cancer genetics, revealing a rich and complex landscape of therapeutic opportunity, an equally fascinating vista is emerging of explanatory germline genetic variation. In this session, Prof Thomas – an oncologist with a special interest in cancer genomics – will focus on the future of cancer genetics, from biology to clinical application.
9:30 - 10:30	**Professor David Malkin** – *Director, Cancer Genetics Program, The Hospital for Sick Children, Department of Pediatrics, University of Toronto (Canada)* **Emerging childhood cancer predisposition syndromes: Sequencing, screening and surveillance** Prof Malkin is recognised internationally as a leader in cancer genetics, particularly with respect to the molecular basis of Li-Fraumeni syndrome and the implementation of early tumour detection surveillance strategies. Here, he will discuss the genetic basis of emerging cancer predisposition syndromes and the application of molecular genetics to clinically relevant surveillance and therapeutic strategies.
10:30 - 11:00	**MORNING TEA**
	Session 2: Technology and implementation
	Chaired by A/Prof Jennifer Byrne *Head, Children's Cancer Research Unit, Kids Research Institute, The Children's Hospital at Westmead*
11:00 - 11:30	**Professor Sean Grimmond** – *Bertalli Chair in Cancer Medicine, Centre for Cancer Research, University of Melbourne* **Decoding cancer through integrated genomics** Prof Grimmond pioneered whole-genome and transcriptome analysis of cancer patients, and since 2010 has led Australia's International Cancer Genome Consortium (ICGC) efforts in pancreatic, neuroendocrine and ovarian cancers. His current research focuses on real-time omic analysis of recalcitrant cancers, testing the value of personalised therapies, and further cancer genome discovery.
11:30 - 12:00	**Professor Hugh Dawkins** – *Director, Office of Population Health Genomics, Department of Health, Government of Western Australia* **Transformative translation of genomics: People, policy & partnerships** Prof Dawkins leads the Office of Population Health Genomics (OPHG), a specialist policy unit for translating genomics knowledge into the public health system. He will speak on how technology is driving precision medicine, and why the transformative translation of new genomic knowledge is dependent on developing precision public health policy that ensures equitable access for all Australians.
12:00 - 12:30	**Associate Professor Bruce Bennetts** – *Head, Molecular Genetics, Children's Hospital at Westmead; Member of Disciplines of Genetics Medicine & Child and Adolescent Health, University of Sydney* **Implementing massively parallel sequencing into the diagnostic laboratory** A/Prof Bennetts has been involved in molecular genetics testing for more than 25 years. His laboratory has developed diagnostic massively parallel sequencing for a range of phenotypes, and he is actively involved in developing the regulatory standards for diagnostic massively parallel sequencing.
12:30 - 1:00	**LUNCH**

PROGRAM

	Session 3: Patients, economics and ethics **Chaired by A/Prof Claire Wakefield** *Program Leader, Behavioural Sciences Unit, Kids Cancer Centre, Sydney Children's Hospital*
1:00 - 1:30	**Professor Graham Mann** – *Co-Director, Centre for Cancer Research, Westmead Institute for Medical Research; Research Director, Melanoma Institute Australia; University of Sydney* **Genomic risk of melanoma: Time to move from families to the individual and the population?** Prof Mann is a lead investigator in multidisciplinary programs on melanoma, and heads the Australian Melanoma Family Study and the ICGC Australian Melanoma Genome Project. Here, he will speak to the outcomes of research in families and populations aimed at managing genetic risk of melanoma.
1:30 - 2:00	**Dr Kathy Tucker** – *Clinical Lead Hereditary Cancer, South East Sydney Local Health District, Prince of Wales Hospital / Sydney Children's Hospital, Randwick* **Emerging trends in paediatric cancer genetic testing** Dr Tucker is a paediatrician trained in genetics who sub-specialised in cancer genetics. She will present trends in paediatric cancer genetic testing and vignettes from 22 years of clinical experience.
2:00 - 2:30	**Professor Rosalie Viney** – *Director, Centre for Health Economics Research and Evaluation, and Program Leader, Cancer Research Economics Support Team, University of Technology Sydney* **Understanding genetic predisposition: What are the economic costs and consequences?** Prof Viney's research focuses on valuation of health outcomes, consumer preferences for health care, health technology assessment, and financing and incentives in health care. In her talk, she will discuss the costs and benefits of emerging genomic technologies for the health system and health consumers.
2:30 - 3:00	**Dr Lisa Eckstein** – *Lecturer, Faculty of Law, University of Tasmania* **Findings of next-generation sequencing: Ethical, legal, and practical implications** Dr Eckstein completed a post-doctoral fellowship at the National Institutes of Health (NIH) Department of Bioethics before joining the Faculty of Law at the University of Tasmania. Her current research focuses on the governance of medical research, particularly in relation to genomics and other emerging technologies.
3:00 - 3:30	**AFTERNOON TEA**
	Session 4: Translation to the clinic and beyond **Chaired by Dr Toby Trahair** *Senior Staff Specialist, Kids Cancer Centre, Sydney Children's Hospital*
3:30 - 4:00	**Associate Professor Claire Wakefield** – *Head, Behavioural Sciences Unit, Kids Cancer Centre, Sydney Children's Hospital; Senior Researcher, University of New South Wales* **Genetics in childhood cancer: What's the impact on families, and where are we heading?** A/Prof Wakefield will describe the largest series of genetics impact and service studies ever undertaken in paediatric oncology in Australia and New Zealand. She will discuss the psychological impact of genetic testing in childhood, the genetics service and information needs of survivors and parents, and her latest research on the acceptability of two new genetic technologies.
4:00 - 5:00	**Associate Professor Kenneth P Tercyak** – *Director, Behavioral Prevention Research, Lombardi Comprehensive Cancer Center; Senior Scholar, Center for Child and Human Development, Georgetown University (USA)* **Psychosocial and behavioral aspects of cancer genetics in children and families: Interventions & outcomes** A/Prof Tercyak will share the latest data from studies addressing children's and parents' psychosocial and behavioural outcomes in screening and treatment programs for hereditary cancer predisposition syndromes, and discuss clinical-behavioural counselling and decision support needs in this population.
5:00 - 6:15	**REFRESHMENTS & NETWORKING**

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