

8:45-9:00

Symposium Opening and Acknowledgement of Country

Conveners: Dr Rebecca Poulos (CMRI) & Dr Holly Holliday (CCI)

NSW Health Representatives:

Dr Kim Sutherland, Executive Director of the Office for Health and Medical Research

Professor Tracey O'Brien, NSW Chief Cancer Officer, NSW Health

Origins of Childhood Cancer - Session 1: Plenary I and Cells of Origin

Session Chairs: Dr Fatima Valdes Mora and Dr Richard Mitchell

9:00-9:40

Plenary: Prof Claudia Kleinman (30+10 mins)

Epigenome disruption, lineage programs, and genome architecture in pediatric brain tumors

9:40-10:10

Invited National Speaker: Prof David Eisenstat (25+5 mins)

Can we developmentally reprogram the cells-of-origin of paediatric high-grade gliomas?

10:10-10:35

Flash talks: PhD student finalists (4+1 mins)

Hannah Hartley: *Targeting the interplay between replication stress (RS) induced DNA damage response (DDR) and epigenetics in children with neuroblastoma and sarcoma*

Arjayeeta Samadder: *Targeting the Protein Post-Translational Modification of Citrullination in Diffuse Midline Glioma*

Sayali Gore: *T cell receptor therapies for the treatment of childhood cancers*

Jacqueline Hunter: *Delivering trio germline whole genome sequencing to patients newly diagnosed with childhood cancer: Healthcare professionals' perspectives of the PREDICT study*

Safaa Al Haj Hussein: *PREDICT and Validate: Investigating Germline Alterations in Paediatric Cancer Predisposition*

10:35-11:05

MORNING TEA (30 mins)

Origins of Childhood Cancer - Session 2: Germline Predisposition

Session Chairs: Dr Marion Matteos and Dr Yuyan Chen

11.05-11.35

Invited National Speaker: Dr Sebastien Malinge (25+5 mins)

Trisomy 21 in childhood leukaemia - from bench to targeted therapies

11:35-12:05

Invited National Speaker: Dr Mandy Ballinger (25+5 mins)

Risk management in multi-organ cancer predisposition

12:05-12:40

Short talks: Early Career Researcher Finalists (5+2 mins)

Katherine Giles: *Understanding SWI/SNF in Genome Stability to Improve its Therapeutic Potential*

Mawar Karsa: *Inhibition of nicotinamide metabolism to mitigate Venetoclax resistance in TP53 wildtype and mutant AML*

Aaminah Khan: *Inhibition of the Polyamine Pathway: A Novel Therapeutic Approach to Treat aggressive paediatric medulloblastoma*

Caitlin Ung: *Breaking Through Barriers: Innovative Approaches to Enhance Drug Delivery in Diffuse Intrinsic Pontine Glioma (DIPG)*

Urwah Nawaz: *Investigating mRNA-protein correlations in paediatric and adult cancers to inform precision medicine*

12:40-13:30

LUNCH (50 mins)

Origins of Childhood Cancer - Session 3: Epigenetic, Embryonic and Spatial Drivers

Session Chairs: Dr Kate Giles and Dr Toby Trahair

13:30-14:00

Invited National Speaker: Prof Brandon Wainwright (25+5 mins)

Spatial transcriptomics defines a differentiation response to CDK4/6 inhibition in medulloblastoma

14:00-14:30

Invited National Speaker: Dr Melanie Eckersley-Maslin (25+5 mins)

Hijacking embryonic developmental pathways in cancer

14:30-15:00

Invited National Speaker: Dr Joanna Achinger-Kawecka (25+5 mins)

The 3D Genome as a Target for Epigenetic Therapy in Cancer

15:00-15:30

AFTERNOON TEA (30 mins)

Origins of Childhood Cancer - Session 4: Plenary II and Cancer Heritability Panel

Session Chairs: Dr Jamie Fletcher and Dr Bhavna Padhye

15:30-16:10

Plenary: Prof William Weiss (30+10 mins)

Mechanisms and Models for Neuroblastoma

16:10-16:45

Panel discussion - Cancer Heritability (35 mins)

Dr Bhavna Padhye (Host), Dr Noemi Fuentes-Bolanos, Dr Dianne Sylvester, Ms Eliza Courtney and Consumer Representative

16:45-17:00

Award Presentations and Concluding Remarks

KCA Director: Prof David Ziegler and KCA Deputy Director: Prof Geraldine O'Neill

17.00-18.00

CONFERENCE DRINKS RECEPTION