

# **Final Program**

9:30am AEST September 14, 2022

https://uni-sydney.zoom.us/j/89194184447



09:30 Acknowledgement of Country and Welcome Dr Kimberley Alexander Chris O'Brien Lifehouse and University of Sydney Session 1: Artificial Intelligence in Brain Tumour Research and Cancer Care Session Chair, A/Prof Michael Buckland "Radiomics and Radio-genomics in Glioblastoma" (Live talk + Q&A) 09:35 **Professor Christos Davatzikos** Center for AI and Data Science for Integrated Diagnostics, University of Pennsylvania, USA "AI in Brain Tumour Diagnostics and Research" (Live talk + Q&A) 10:10 Professor Manuel Graeber Brain and Mind Centre, University of Sydney "AI for improved cancer care" (Recorded talk) 10:30 Professor Nehmat Houssami NBCF Chair in Breast Cancer Prevention, University of Sydney Morning break, 15 mins \*\*\* Session 2: Understanding the Brain Tumour Microenvironment Session Chair, Dr Laveniya Satgunaseelan "Spatially resolved multi-omics deciphers bidirectional tumor-host interdependence in glioblastoma" 11:00 **Dr Dieter Henrik Heiland** Microenvironment and Immunology Research Laboratory, University of Freiburg, Germany (Recorded talk) "Targeting mitochondrial metabolism and hypoxia: A new radio-sensitising approach for diffuse midline glioma" 11:30 **Dr Han Shen** Westmead Institute for Medical Research, University of Sydney (Live talk + Q&A) "Clinical utility of the immune modulating antibody anti-CD47 in a preclinical model of medulloblastoma" 11:50 Dr Meegan Howlett Telethon Kids Institute, University of Western Australia (Live talk + Q&A) \*\*\* Lunch break, 40 mins \*\*\* Session 3: Next generation of Brain Tumour Experimental Models Session Chair, Dr Kimberley Alexander "In vitro models to study brain tumour invasion and the blood brain barrier: challenges and perspectives" 12:50 **Emeritus Professor Geoff Pilkington** (Recorded talk) Institute of Biomedical and Biomolecular Sciences, University of Portsmouth "Engineered advanced vascularised human brain organoids for neuro-oncology research" 13:20 **Professor Jeremy Crook** Chris O'Brien Lifehouse and Sydney University (Live talk + Q&A) "Application of Multispec Vascularized Glioblastoma-on-a-chip Model for Brain Cancer Research" 13:40 **Dr Joshua Chou + Dr Guilia Silvana** School of Biomedical Engineering, University of Technology Sydney (Live talk + Q&A) "EVICT GBM: Developing a physiological Ex Vivo Clinical Trial Platform" 14:00 Professor Jeff Holst Translational Cancer Metabolism Laboratory, University of NSW (Live talk + Q&A)

\*\*\* Afternoon break 1, 15 mins \*\*\*

## Session 4: Young Investigator Rapid Fire Talks \*

Session co-Chairs, Dr Susannah Hallal + Dr Ágota Tüzesi

#### \*Audience choice awards – please use the poll function to vote for the top-3 presentations

14:35	<b>Dr Rachel Campbell</b> Post-doctoral Research Fellow, PoCoG, University of Sydney "Screening for unmet needs of caregivers of people with brain cancer: development of a brief screening measure for use in clinical practice"
14:40	<b>Dr Ágota Tüzesi</b> BrainStorm Brain Cancer Postdoctoral Scientist, Sydney Local Health District "Epitranscriptomics in brain tumour diagnostics: mirage or great prospect?"
14:45	<b>Izac Findlay</b> PhD Candidate, University of Newcastle "Complementing genomics with phosphoproteomics for improved treatment recommendations for paediatric high-grade gliomas"
14:50	Caitlin Ung PhD Candidate, Children's Cancer Institute "Diffuse Intrinsic Pontine Glioma (DIPG) induces alterations in the blood-brain barrier to reduce permeability of therapeutic agents"
14:55	Mathew Lozinski PhD Candidate, University of Newcastle "ATR Inhibition enhances cell death of standard treatment in patient-derived glioblastoma cells"
15:00	<b>Luiza Steffens Reinhardt</b> PhD Candidate, University of Newcastle "Nek1-inhibitor and temozolomide-loaded microfibers as a co-therapy strategy for glioblastoma treatment"
15:05	<b>Dr Holly Holiday</b> Research Officer, Children's Cancer Institute "Uncovering the FACTs in Diffuse Midline Glioma (DMG)"
15.10	Dr Ryan Duchatel Postdoctoral fellow, University of Newcastle

\*\*\* Afternoon break 2, 15 mins \*\*\*

"Preclinical and case study examination of the combination of ONC201 and paxalisib for the treatment of diffuse midline

"Preclinical Optimisation of the PI3K/Akt inhibitor Paxalisib for the Treatment of Diffuse Midline Glioma"

"The DRD2 antagonist ONC201 promotes immunomodulatory effects in diffuse midline glioma"

### Session 5: Traversing the 'untreatable cancer' barrier

Mika Persson PhD Candidate, University of Newcastle

Session Chair, Dr Kimberley Alexander

"Establishing a personalised immunotherapy program"

**Evangeline Jackson** PhD Candidate, University of Newcastle

**Dr James Wilmott** The Melanoma Institute Australia, University of Sydney

(Live talk + Q&A)

16:15 Announcement of Rapid-fire talk prize winners Dr Susannah Hallal, Chris O'Brien Lifehouse and University of Sydney

16:20 Meeting close Professor Manuel Graeber, University of Sydney

This satellite meeting of the NSW Cancer Conference 2022 is brought to you by the Brain Tumour Special Interest Group of the Cancer Research Network, USYD.

#### Co-Convenors:

15:10

15:15

15:20

15:40

glioma"

Dr Kimberley Alexander A/Prof Michael Buckland Prof Manuel Graeber











Symposium Committee Members: Dr Susannah Hallal and Dr Ágota Tüzesi