

Drug Discovery Initiative Symposium

Program Day 1

Key Areas: Cancer, Infectious Diseases and Neuro-Drug

9.30 – 10.00am Registration and early bird coffee and tea

Morning Session

10.00– 10.15am **Opening Remarks**

Professor Michael Kassiou, Academic Director, Drug Discovery Initiative, University of Sydney

10.15-11.00am **Keynote Speaker**

Chair: Professor Michael Kassiou

Professor Guillaume Lessene

Laboratory Head; Leader, New Medicines and Advanced Technologies Theme, Walter+Eliza Hall Institute of Medical Research

"Academic drug discovery, working at the frontier of research and translation"

11.00-11.30am Morning Tea, Networking and Poster Viewing

11.30am–12.30pm **Topic Session 1 (Infectious Diseases and Cancer)**

Chair: Dr Kristina Cook

1. Ms Jennifer Herz
2. Professor Jan-Willem Alffenaar
3. Dr Kristina Cook
4. A/Professor Caroline Ford

12.30-1.25pm Lunch, Poster Viewing and Networking

Afternoon Session

Chair: Professor Mary Collins

1.25 -1.30pm **Opening of Neuro-Drug Session**

Professor Matthew Kiernan

Co-Director, Brain and Mind Centre, University of Sydney

1.30 – 2.15pm **Keynote Speaker**

Professor Arthur Christopoulos

Professor of Analytical Pharmacology and Dean of the Faculty of Pharmacy & Pharmaceutical Sciences, Monash University
"Allosteric GPCR drug discovery for neuropsychiatric disorders"

2.15– 3.15pm **Topic Session 2 (Pain and Novel Targets)**

1. Professor Luke Henderson
2. Dr Karin Aubrey
3. A/Professor Elena Bagley
4. Professor Robert Vandenberg

3.15-3.30pm Afternoon Tea, Networking and Poster Viewing

3.30pm-4.30pm **Topic Session 2 (Epilepsy and Precision Medicine)**

1. Professor Phillip Robinson
2. Dr Mark Graham
3. A/Professor Seo-Kyung Chung
4. Dr Nathan Absalom

4.30pm onwards

Closing Remarks and Opening of DDI End of Year Celebration Professor Michael Kassiou



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Drug Discovery Initiative Symposium

Program Day 2

Key Areas: Proteostasis and Proteinopathies

Please refer to page 8 for the list of speakers.

8.40 – 9.10am

Registration and early bird coffee and tea

9.10– 9.20am Opening Remarks

A/Professor Margaret Sunde,
Pharmacology, University of Sydney

9.20-10.00am Short Talks Session 1

Theme: Drug discovery and therapeutic development (Chair: Dr Amandeep Kaur)

10.00 – 10.30am Research Talk

Dr Toby Passioura Sydney Analytical,
University of Sydney
“Discovery of high affinity cyclic peptide ligands to protein targets”

10.30-11.00am Short Talks Session 2

Theme: Drug discovery and therapeutic development (Chair: Dr Yann Gambin)

11.00-11.30am

Morning Tea, Networking and Poster Viewing

11.30am -12.30pm Keynote Speaker

Professor Neil Cashman Department of Neurology, Faculty of Medicine, UBC; Academic Director, Vancouver Coastal Health ALS Clinic
“Immunotherapies for Protein Misfolding Diseases: Drugging the Undruggable”

(Chair: Prof. Julie Atkin, Macquarie Uni)

12.30-1.30pm

Lunch, Poster Viewing and Networking

1.30 – 2.30pm Short Talks Session 3

Theme: Cellular mechanisms and target identification (Chairs: Professors Mark Wilson and Heath Ecroyd)

2.30 – 3.00pm Research Talk

Dr Mathew Horrocks, University of Edinburgh
“Looking at molecules one-by-one- super-resolution microscopy for studying neurodegenerative disorders”

3.00– 3.55pm Short Talks Session 4

Theme: Cellular mechanisms and target identification (Chair: Dr Eryn Werry)

3.55-4.00pm Closing Remarks

4.00pm onwards

Afternoon Tea, Poster Viewing and Discussion



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Speakers

Day 1 Cancer, Infectious Diseases and Neuro-Drug

Morning Session (11.30am – 12. 30pm)

Ms Jennifer Herz, Managing Director, Biointelect
“Commercialisation: anticipating the path to market”

Professor Jan-Willem Alffenaar, Chair of Clinical Pharmacy, Usyd
“Repurposed drugs & drug development for multidrug resistant tuberculosis”

Dr Kristina Cook, Research Fellow, Usyd
“Starving for oxygen: mechanistic insights into tumour hypoxia and strategies for novel targeted therapies”

A/Professor Caroline Ford, Lead, Gynaecological Cancer Research Group, UNSW
“ROR1: A novel target in ovarian and endometrial cancer”

Afternoon Session Part I (2.15pm – 3.15pm)

Professor Luke Henderson, School of Medical Sciences, Usyd
“astrocytes in chronic neuropathic pain”

Dr Karin Aubrey, Senior Research Fellow, Usyd
“Presynaptic receptor expression of inhibitory RVM projection neurons in the dorsal horn of the spinal cord”

A/Professor Elena Bagley, Discipline of Pharmacology, Usyd
“Endogenous opioids in analgesic brain circuits”

Professor Robert Vandenberg, Deputy Head of School of Medical Sciences, USyd
“Development of Glycine Transport Inhibitors for the Treatment of Chronic Pain”

Afternoon Session Part II (3.30pm - 4.30pm)

Professor Phillip Robinson, Head, Cell Signalling Unit, Children's Medical Research Institute

"Development of endocytosis modulators for epilepsy and neuropathic pain"

Dr Mark Graham, Senior Lecturer, Faculty of Medicine and Health, Usyd

"Phosphoproteomic analysis for the discovery of epilepsy-related signalling pathways"

A/Professor Seo-Kyung Chung, Group Leader, Translational Neurogenomics, Westmead Children's Hospital

"Linking genotype and phenotype in disorders with inhibitory dysfunction"

Dr Nathan Absalom, Postdoctoral Researcher, Faculty of Pharmacy, Brain and Mind Centre, Usyd

"Novel and re-purposed drugs for genetic epilepsies: a precision medicine approach"

Day 2 Proteostasis and Proteinopathies

Drug discovery and therapeutic development

Session 1 (9.20am – 10.00am)

Jonathan Danon, USyd
Peter Rutledge, USyd
Richard Payne, USyd
Shelli McAlpine, UNSW
Amandeep Kaur, USyd
Yann Gambin, UNSW
Adam Martin, UMaq

Session 2 (10.30am – 11.00am)

Eryn Werry, USyd
Claire Goldsbury, USyd
Eleanor Drummond, USyd
Heather Ecroyd, UoW
Mark Wilson, UoW

Cellular mechanisms and target identification

Session 3 (1.30pm – 2.30pm)

Darren Saunders, UNSW
Brett Nixon, UoN
Antony Cooper, Garvan/UNSW
Nicolas Dzamko, USyd
John Kwok, USyd
Yee Lian Chew, UoW
Angela Laird, UMaq
Rachel Tan, USyd
Arne Ittner, UMaq
Justin Yerbury, UoW

Session 4 (3.00pm – 3.55 pm)

Ken Rogers, UTS
Luke McAlary, UoW
Julie Atkin, UMaq
Thomas Fath, UMaq
Lezanne Ooi, UoW
Albert Lee, UMaq
Shelley Forrest, USyd
Heather McCann, Neura/UNSW