



FRAGMENT-BASED DRUG DESIGN DOWN UNDER 2024

UQ City Campus, Brisbane, Australia

25 to 27 June 2024

Tuesday, 25 June 2024

8:30 AM **Registration opens**

9:30 AM **Welcome Note**
Martin Scanlon

Session 1

Chair: Martin Scanlon

9:45 AM to 11:00 AM

9:45 AM **Opening Keynote**
Capturing covalency with fragment-based drug discovery
Dan Erlanson, Frontier Medicines

10:30 AM *Breaking out of EcDsbA's cryptic pocket*
Yildiz Tasdan, Monash University

11:00 AM

Networking Break

Session 2

Chair: Gautham Balaji

11:30 AM to 12:30 PM

11:30 AM **Invited Speaker**
Exploiting coenzyme A biosynthesis for antibacterial drug design using fragments
Dr Christina Spry, ANU

12:00 PM *OneStep kinetics determines effect of protein modification*
Lauren Hartley-Tassell, Griffith University

SARTORIUS

12:30 PM

Networking Lunch

Session 3

Chair: Luke Adams

1:30 PM to 2:45 PM

1:30 PM **Invited Speaker**
Discovery of base-exchange fragments
Dr Yun Shi, Griffith University

2:00 PM *Developing new chemical tools to understand the biology of fatty acid binding protein 4*
Imesha Hettige, Monash University

2:30 PM *Vast BioScience Fragment-Based Drug Discovery towards novel purinergic receptor inhibitor*
Bill Chan, The University of Sydney



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2:45 PM

Networking Break

Session 4

Chair: Roxanne Smith

3:30 PM to 5:00 PM

3:30 PM

Invited Speaker

The future of benchtop NMR applications

Félix Torres, NexMR AG

4:00 PM

Biophysical methods enable fragment-to-lead development for fatty acid binding protein 4

Indu Chandrashekar, Monash University

4:30 PM

Compounds Australia: accelerating early drug discovery through compound management

Nyssa Drinkwater, Compounds Australia

5:00 PM

Poster Session

6:30 PM

End Day 1

Wednesday, 26 June 2024

Session 5

Chair: Imesha Hettige

9:30 AM to 11:00 AM

9:30 AM

Invited Speaker

The discovery of selective USP7 inhibitors

Ben Davis, Vernalis

10:00 AM

Accelerating hit-to-lead discovery: approaches to improve off-rate

screening by surface plasmon resonance

Jason Pun, Monash University

10:30 AM

Discovery of novel calcium-sensing receptor allosteric modulators using

fragment-based drug design approaches

Gilbert Song, Monash University

11:00 AM

Networking Break



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Session 6

Chair: Indu Chandrashekar

11:30 AM to 12:30 PM

11:30 AM **Invited Speaker**

Animal venom peptides as proxies for function in screening of deconstructed ion channels
Mehdi Mobli, The University of Queensland

12:00 PM *Structural determination of human P2X7 ion channel receptor using cryoEM*

Xuefei Jing, The University of Sydney

12:30 PM

Networking Lunch

Session 7

Chair: Rachel Williamson

1:30 PM to 3:30 PM

1:30 PM **Invited Speaker**

Crystal clear insights: automation in fragment screening crystallography
Dr Kate Smith, Paul Scherrer Institut



2:00 PM **Invited Speaker**

Establishing high throughput crystallisation labs with fragment screening capabilities
Dr Roxanne Smith, WEHI

2:30 PM *Development of a fragment screening platform at the Australian Synchrotron*

Gautham Balaji, Monash University/ANSTO

2:50 PM *Fragment-based drug discovery at the Australian synchrotron*

Yogesh Khandokar, ANSTO – Australian Synchrotron

3:10 PM Q&A session on crystallography

3:30 PM

Networking Break

Session 8

Chair: Tifelle Reisinger

4:00 PM to 5:30 PM

4:00 PM *Finding patentable chemical space in FBDD*

James Burnley, Phillips Ormonde Fitzpatrick

4:30 PM **Funding Opportunities – Panel Discussion**

TIA, Med-Chem Australia, CUREator, Phillip Ormond Fitzpatrick, BioCurate

5:30 PM **End Day 2**

6:30 **Conference Dinner at Customs House Brisbane**



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Thursday, 27 June 2024

Session 9

Chair: Sophia Newton

9:30 AM to 10:30 AM

9:30 AM *Targeting RNA using fragment-based drug screening*
Brooke Kwai, Monash University

10:00 AM *Fragment-based screening guided by native mass spectrometry*
Sally-Ann Poulsen, Griffith University

10:20 AM

Networking Break

Session 10

Chair: Jacek Kwiatkowski

10:45 AM to 12:00 PM

10:45 AM *Predictive and generative chemistry for hit identification*
Thomas Coudrat, CSIRO

11:15 AM **Closing Keynote**
FBDD towards inhibitors and degraders
Alvin Hung, NeuroVandaTx

12:00 PM Award Ceremony

12:15 PM

Networking Lunch

1:00 PM End FBDD DU 2024