

# FRAGMENT BASED DRUG DESIGN DOWN UNDER 2019

Monash Institute of Pharmaceutical Sciences  
Monash University (Parkville Campus)  
381 Royal Parade, Parkville VIC 3052

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# PROGRAM

**Tuesday, 12<sup>th</sup> November**

*Registrations - open from 9.30am in the Cossar Hall foyer*

<b>Time</b>	<b>FRAGMENT WORKSHOP</b> CLS 7a/&b (near LT1)
10:00 – 11:00 am	<b>Introduction to Fragments</b> Dan Erlanson, VP (Chemistry), Frontier Medicines
11:00 – 11.15 am	<i>Coffee break</i>
11:15 – 12:15 pm	<b>Fragment-Based Drug Design Methods</b> Martin Scanlon, Director, Monash Fragment Platform & ARC Centre for Fragment-Based Design
12:15 – 13:00 pm	<i>Lunch</i>
13:00– 14:00 pm	<b>Case Studies in fragment-based drug design</b> Dan Erlanson, VP (Chemistry), Frontier Medicines
<b>15:00 – 17.30 pm</b>	<b>CONFERENCE MIXER</b> Cossar Hall
15:00 – 16:00 pm	Official Launch of the Centre by the Hon. Kevin Andrews MP
16:00 – 17:30 pm	Networking and Conference Mixer

# Wednesday, 13<sup>th</sup> November

Registrations - open from 9am in the Cossar Hall foyer

<b>Time</b>	<b>SESSION 1 – Introduction to fragments and fragment libraries</b> Chair: Martin Scanlon Location: LT1
9:30 – 10:15 am	<b>Plenary - Covalent fragment-based drug discovery</b> Dan Erlanson, VP (Chemistry), Frontier Medicines
10:15 – 10:30 am	<b>How Size Matters: Diversity for Fragment Library Design</b> Yun Shi, Griffith University
10:30 – 11:00 am	<b>Realising the biological relevance of natural product-like fragments</b> Dan Foley, University of Canterbury
<b>11:00 – 11:30 am</b>	<b>MORNING TEA</b> Location: Cossar Hall
<b>Time</b>	<b>SESSION 2 – Screening methods and computer aided design</b> Chair: Chris MaCraild Location: LT1
11:30 – 12:00 pm	<b>Diversity and Design in the Dark</b> Bradley Doak, Monash University
12:00 – 12:15 pm	<b>Beyond Anecdotal Evidence: Use of Molecular Dynamics to Predict GPCR Protein Dynamics in NMR</b> Herodion Hartono, Monash University
12:15 – 12:30 pm	<b>Fragment Screening Using Mass Spectrometry</b> Sally-Ann Poulsen, Griffith University
12:30 – 12:45 pm	<b>Using cryo-electron microscopy to solve high-resolution structures of drug targets</b> Sarah Piper, Monash University
<b>12:45 – 13:45 pm</b>	<b>LUNCH</b> Location: Cossar Hall
<b>Time</b>	<b>SESSION 3 – Novel methods in FBDD</b> Chair: Indu Chandrashekar Location: LT1
13:45 – 14:15 pm	<b>Plenary - Fragment Screening and Beyond: Opportunities for Protein NMR in the Pharmaceutical Industry</b> Reto Horst, Pfizer
14:15 – 14:30 pm	<b>Rapid elaboration of fragments into leads by X-ray crystallographic screening of parallel chemical libraries (REFiLX)</b> Matthew Bentley, Monash University
14:30 – 14:45 pm	<b>Identification of novel binding sites by high-concentration NMR and X-ray crystallography</b> Rebecca Whitehouse, Monash University
14:45 – 15:00 pm	<b>Applications of Next Generation SPR Injections OneStep<sup>®</sup> and NeXtStep<sup>™</sup> in Fragment Based Drug Discovery Workflows</b> Nilshad N. Salim, ForteBio
<b>15:00 – 15:30 am</b>	<b>AFTERNOON TEA</b> Location: Cossar Hall
<b>Time</b>	<b>SESSION 4 – Posters</b> Chair: Joel Mackay Location: Cossar Hall
15:30 – 17:00 pm	Poster Flash Talks (5 mins each, max. 3 slides) POSTER SESSION
<b>18:30 start</b>	<b>CONFERENCE DINNER</b> Location: Melbourne Zoo





Join your Biacore™ user community to discover exciting new research and applications while networking with peers from academia and industry at this free day.

- Listen to presentations on the latest applications in biomolecular interactions
- Learn about exciting new Biacore Insight software capabilities
- Share best practices and solve your challenges by engaging face-to-face with industry experts

**Date:**

**Time:**

**Host:**

**Location:**

**Join us just for the free Biacore Users Day or register for the FBDD-DU2019 conference starting on November 12, 2019.**

**Registration is a must to secure your seat!**

**<https://shop.monash.edu/fragment-based-drug-design-down-under-2019.html>**





- 8:30-9:00**      **Arrival and Registration**
- 9:00-9:15**      **Welcome and Introductions**  
Anand Ramakrishnan, Product Specialist Biacore & Biomolecular Imaging  
GE Healthcare Life Sciences, ANZ
- 9:15-9:45**      **Developing SPR Assays to Advance Fragment Based Drug Discovery (FBDD) Projects**  
Lorna White, Staff Scientist, Sydney University, Sydney
- 9:45-10:15**     **Taking the STING out of Complex Modeling**  
Matthew Dennis, CSIRO, Biomedical Program, Cancer Therapeutics CRC, Parkville
- 10:15-10:45**    **TBA**  
Jason Simmonds, Senior Research Scientist, CSL Limited, Parkville
- 10:45-11:15**    **Coffee Break**
- 11:15-11:45**    **Using SPR to Accelerate Drug Discovery Operations and Improving Bioprocessing Operations**  
Fredrik Sundberg, Director Strategic Customer Relations, GE Healthcare Biosciences, Sweden
- 11:45-12:15**    **Rapid Elaboration of Fragments into Leads (REFIL). A Systematic Approach to Fragment Elaboration, Utilizing Off-Rate Screening**  
Menachem Gunzburg, Postdoctoral Scientist, Monash University, Monash Institute of Pharmaceutical Sciences, Parkville
- 12:15-1:30**     **Lunch & Networking**
- 1:30-2:30**      **Workshop Session: The Good, the Bad & the Ugly-what Biacore Data Does and Does not tell us?**  
Paul Belcher, Global Product Strategy Manager GE Healthcare Bioscience, USA  
& Anand Ramakrishnan, Product Specialist Biacore & Biomolecular Imaging  
GE Healthcare Life Sciences ANZ
- 2:30-3:00**      **Characterizing Molecular Interactions using the Biacore 8K**  
Srinivasan Sundararaj, Postdoctoral research fellow, Department of Cancer Biology  
and Therapeutics, The John Curtin School of Medical Research,  
Australian National University, Canberra
- 3:00-3:30**      **Understanding how Acquired BCL2 Mutations confer Venetoclax Resistance**  
Richard Birkinshaw, Walter & Eliza Hall Institute of Medical Research, Parkville
- 3:30-4:00**      **Kinetic Characterization of Allosteric Modulation at Different GPCR States: A Novel Application of SPR**  
Jianrong Xu, Visiting Scholar, Monash Institute of Pharmaceutical Sciences, Parkville
- Closing Remarks**  
Frank Orso, Commercial Modality Manager ANZ, GE Healthcare Life Sciences

**If you have any questions, please contact:**

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# Conference Dinner Details

Drinks on arrival at 6.30pm

Dinner service to begin at 7.00pm

Bring your dancing shoes...

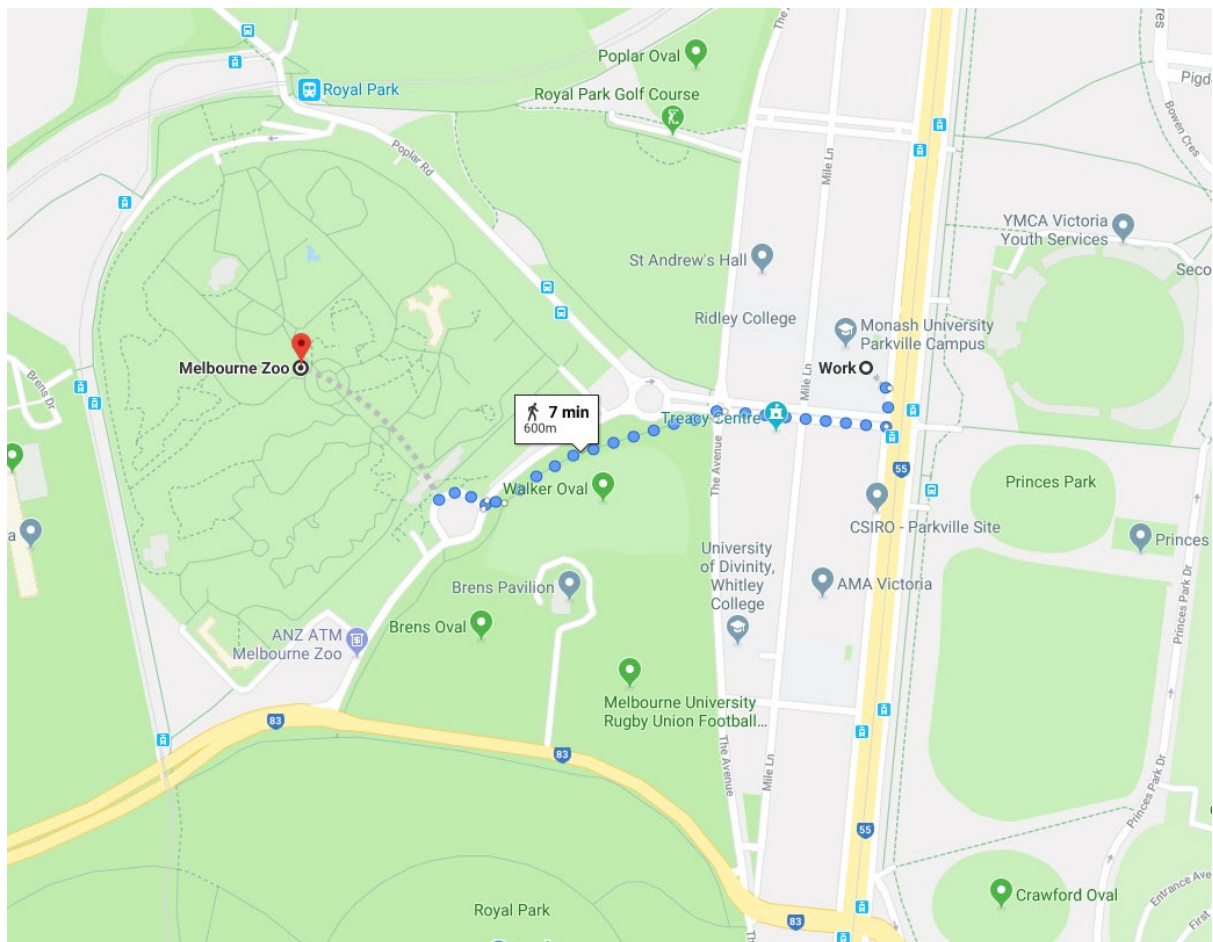


Function concludes at 10.30pm

## Melbourne Zoo

Elliott Ave, Parkville VIC 3052

*A guided group walk to the zoo will be leaving Cossar Hall at 6.20pm*



# List of registrants

<b>First Name</b>	<b>Last Name</b>	<b>Organisation</b>
Adam	Meyer	CSIRO Manufacturing
Alba	Macias	Vernalis Ltd. A Ligand company
Alex	Caputo	CSIRO
Alex	Shmaylov	CSIRO
Alicia	Currie	Monash University
Anitha	Kopinathan	Monash University
Ann	Kwan	University of Sydney
Anthony	Verderosa	QUT - Institute of Health and Biomedical Innovation
Ashely	Taylor	Monash University
Beatrice	Chiew	Monash University
Bec	Whitehouse	Monash University
Begona	Heras	La Trobe University
Ben	Capuano	Monash University
Ben	Morrow	Cancer Therapeutics CRC
Bilal	Nizami	ChemAxon
Bishwa	Subedi	Monash University
Biswa	Mohanty	Monash University
Brad	Sleebs	Walter and Eliza Hall Institute of Medical Research
Bradley	Doak	Monash University
Brittany	Howard	FB Rice
Christina	Spry	The Australian National University
Christoph	Nitsche	Australian National University
Cody	Hall	La Trobe University
Craig	Morton	University of Melbourne
Dan	Foley	University of Canterbury
Dan	Erlanson	Frontier Medicines
Dorothy	Wai	Monash University
Ellen	Swan	University of Adelaide
Emily	Mackie	La Trobe Institute for Molecular Science
Finn	O'Donoghue	RMIT University
Gaurav	Sharma	Monash University
Gouri	Betigeri	Cortellis (a Clarivate Analytics company)
Grace	Curtis	Monash University
Hideyuki	Oki	Axcelead Drug Discovery Partners Inc.
Hong	Yang	Monash University
Iain	Currie	Walter and Eliza Hall Institute of Medical Research
Indu	Chandrashekar	Monash University
Iwan	de Esch	VU University Amsterdam
Jacek	Kwiatkowski	Queensland Emory Drug Discovery Initiative
Jacqueline	Muijlwijk - Koezen	VU University Amsterdam
Jason	Kavanagh	ChemAxon
Jerome	Wielens	University of Melbourne
Joel	Mackay	University of Sydney
John	Deadman	Chemocopeia Pty Ltd
Jonathan	Hubert	Cancer Therapeutics CRC



Joseph	Hilton-Proctor	Monash University
Karyn	Wilde	National Deuteration Facility - ANSTO
Lorna	Mitchell	BioCurate
Lorna	Wilkinson-White	The University of Sydney
Luke	Adams	Monash University
Makrina	Totsika	QUT - Institute of Health and Biomedical Innovation
Maria	Halili	Griffith Institute for Drug Discovery
Mark	York	CSIRO
Martin	Scanlon	Monash University
Martin	Williams	Monash University
Matt	Boarder	la trobe university
Matthew	Dennis	CSIRO
Matthew	Bentley	Monash University
Menachem	Gunzburg	Monash University
Michael	Kassiou	The University of Sydney
Michael	Roy	Walter & Eliza Hall Institute
Michelle	Camerino	Cancer Therapeutics CRC
Mohadeseh	Dastpeyman	James Cook University
Nghi	Nguyen	Walter and Eliza Hall Institute of Medical Research
Nick	Barlow	MIPS
Nick	Smith	La Trobe Institute for Molecular Science
Nicolas	Spiccia	CSIRO
Odi	Hartono	Monash University
Olga	Ilyichova	Monash University
Paul	Stupple	Cancer Therapeutics CRC
Philip	Thompson	Monash University
Rachael	Impey	La Trobe University
Ray	Norton	Monash University
Reto	Hirsch	Pfizer
Robin	Thomson	Griffith University
Rohan	Volpe	CSIRO
Ruitao	Jin	La Trobe University
Runyu	Mao	Walter and Eliza Hall Institute of Medical Research
Sally-Ann	Poulsen	GRIDD, Griffith University
Sarah	Piper	Monash University
Sarah	Muller	Griffith University
Sayali	Shah	Walter and Eliza Hall Institute of Medical Research
Scott	Walker	CSIRO
Sitong	He	La Trobe University
Stefan	Nebi	Monash University
Stephen	Headey	RMIT University
Subashani	Maniam	RMIT University
Susan	James	CSIRO
Thien Nhan	Lu	Monash University
Tom	Peat	CSIRO
Trent	Ashton	Walter and Eliza Hall Institute of Medical Research
Wesam	Alwan	Monash University
William	Nguyen	Walter and Eliza Hall Institute of Medical Research

Wim  
Ylva  
Yogesh  
Yun

Meuermans  
Bozikis  
Khandokar  
Shi

Vast Bioscience  
Cancer Therapeutics CRC  
Monash University  
Griffith University, Institute for Glycomics