

George Sherman Union, Boston University, Boston 22 to 25 September 2024

### Sunday, 22 September 2024

1:30 PM Registration opens

2:00 PM Workshop

**Introduction to Fragment-Based Design** 

Dr. Dan Erlanson, Frontier Medicines & Dr. Ben Davis, Vernalis Research

5:00 PM **Exhibition opens** 

6:00 PM Networking Welcome Reception

We are delighted to invite you to join us for our Networking Welcome Reception in the Ziskind Lounge. This reception will be an excellent opportunity to mingle with fellow attendees, speakers, and industry leaders in a relaxed and informal setting. Please come and enjoy an evening of networking, drinks, and finger food as we kick off what promises to be an exciting conference.

8:30 PM End Day 1

#### Monday, 23 September 2024

8:00 AM Registration Opens & Poster Breakfast

Session 1 – Fragments Past and Present 8:30 AM to 10:30 AM

8:30 AM Welcome Note

Dr. Joe Patel, Nexo Therapeutics

8:45 AM **Opening Keynote** 

25 Years of Thinking Small

Dr. David Rees, Astex Pharmaceuticals

9:30 AM Invited Speaker

*Using Fragments to Answer Questions in Exploratory Drug Discovery* Prof. Rod Hubbard, University of York and Vernalis Research

10:00 AM FBDD Approaches to Tackle Emerging Multi-Component Therapeutic Targets

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Dr. Juliet Morgan, Sygnature Discovery

Chair: Dr. Joe Patel, Nexo Therapeutics



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Dr. Andrea Pica, ALPX

10:30 AM	Networking Break				
	ssion 2 – Methods Chair: Dr. Tony Giannetti, Carterra :00 AM to 12:15 PM				
11:00 AM	Photoactivated Covalent Capture of DNA-Encoded Fragments to Identify Ligands for Challenging Targets Dr. Ben Davis, Vernalis Research				
11:30 PM	Expanding Chemical Diversity in Drug Discovery Through Novel Amine-Acid Coupling Ruheng Zhao, University of Michigan				
12:00 PM	Biophysical and Structural Biology Methods Enable Fragment-Based Ligand Discovery  Dr. Moran Jerabek-Willemsen, WuXi AppTec				
12:15 PM	Networking Lunch				
12:30 PM	Lunchtime Workshop: Fragment-based Design: Scaffold Hopping, Fragment Growing and Bioisosteric Replacements Dr. Michael Drummond, Chemical Computing Group				
	Session 3 – Crystallography Chair: Dr. Ben Davis, Vernalis Resear 2:00 PM to 3:45 PM				
2:00 PM	Invited Speaker High-Quality Hits from Xchem with Fast-Forward Fragments Combining HT Crystallography, Fragment Merging and Low-Cost Robotics Prof. Frank von Delft, Oxford University/Diamond Lightsource				
2:30 PM	Fast fragment hit-to-lead in drug discovery for novel drug targets Dr. Debanu Das, Xpose Therapeutics				
3:00 PM	Crystallographic fragment screening identifies diverse chemical scaffolds for Zika NS2B-NS3 protease inhibitor development Dr. Xiaomin Ni, Oxford University	viru:			
3:30 PM	Accelerating Drug Discovery: Advanced Structural Biology Solutions at ALPX	X			



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3:45 PM	1 Networking Break		
	- Computational I Chair: Prof. Rod Hubbard, University of Yo	ork	
4:15 PM	Invited Speaker Al-First Fragment-Based Drug Discovery at Isomorphic Labs Dr. Rebecca Paul, Isomorphic Labs		
4:45 PM	Computational Hot Spot Mapping for Fragment-Based Lead Discovery Prof. Diane Joseph-McCarthy, Boston University		
5:15 PM	High-Throughput Activity-Based Fragment Screening with Ulysses™: SpiroChem Generating Robust Datasets for Machine Learning-Driven Drug Discovery Thomas Fleming, Spirochem/Actoris	em NOVATE.	

5:30 PM Poster Session

5:30 PM Poster Flash Talks

Join us for a drink and finger food during our poster and networking session. Make the most of the chance to talk to the speakers and fellow delegates. Discover more collaboration opportunities or get answers to your burning questions on fragment-based lead discovery that go beyond the topics discussed today.

7:00 PM End Day 2



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#### Tuesday, 24 September 2024

8:00 AM Poster Breakfast

Session 5 – Success Stories 8:45 AM to 10:15 AM Chair: Dr. Dan Erlansson, Frontier Medicines

8:45 AM Invited Speaker

Fragment-Based Discovery of Novel and Potent STING Agonist

Dr. Chaohong Sun, Abbvie

9:15 AM Fragment-Based Discovery of Allosteric Modulators of 6-Glucocerebrosidase

Dr. Puja Pathuri, Astex Pharmaceuticals

9:45 AM Identification and Development of Fragment-Derived Chemical Matter in

Previously Unknown Allosteric Sites of WRN

Dr. Daniel Wyss, Merck & Co.

10:15 AM

#### **Networking Break**

Session 6 – Computational II 11:00 AM to 12:30 PM Chair: Prof. Diane Joseph-McCarthy, Boston University

11:00 AM Invited Speaker

Combining Active Learning, Synthesis on Demand Libraries, and Fragment Screening in Early Drug Discovery

Dr. Pat Walters, Relay Therapeutics

11:30 AM Marrying Structures with Computation for Augmented Fragment-Based Drug Discovery

Dr. Paul Mortenson, Astex Pharmaceuticals

12:00 PM Fragment-Based Identification and Analysis of Cryptic Ligand Binding Sites

Dr. Sandor Vajda, Boston University



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12:30 PM	Networking Lun	ch
Socian 7 Eragments Ag	ainst SARS CoV 2	Chair: Dr. Daniel Wyss, Morsk 9 Co.

Session 7 – Fragments Against SARS-CoV-2 1:45 PM to 3:15 PM Chair: Dr. Daniel Wyss, Merck & Co.

1:45 PM Invited Speaker

The SARS-CoV-2 Macrodomain and How to Inhibit it Prof. James Fraser, University of California, San Francisco

2:15 PM Utilizing FBDD Screening to Develop a Novel Class of Inhibitors for SARS-Cov-2

Papain-Like Protease

Dr. Ashley Taylor, Vanderbilt University

2:45 PM Fragment-Based Lead Discovery Against SARS-CoV-2 nsp3 Macrodomain

Dr. Thomas Vargo, PostEra

3:15 PM	Networking Break	

### Session 8 – SARS-CoV-2 and Beyond 3:45 PM to 5:30 PM

Chair: Prof. Martin Scanlon, Monash University

3:45 PM From Fragments to In-Vivo Optimized Leads for the SARS-CoV2 Nsp3 Macrodomain Mac1 – An Emerging Target in Antiviral Therapy

Prof. Adam Renslo, University of California, San Francisco

4:15 PM Development of EcDsbA Inhibitors as Antivirulence Agents
Dr. Yildiz Tasdan, Monash University

4:45 PM Accelerating Structure Enabled Antiviral Discovery Through Crystallographic Fragment Screening with The Xchem Platform

Dr. Blake Balcomb, Oxford University/Diamond Lightsource

5:15 PM Every Crystal Matters

Holger von Möller, Molox GmbH

5:30 PM End Day 2

#### 7:00 Conference Dinner at Nightshift Brewing

Join us for an unforgettable evening of networking and dinner at Night Shift Brewing at Boston's Lovejoy Wharf. Overlooking the Boston Harbour, this venue provides an excellent opportunity to delve further into today's topics. Savour delicious local brews and gourmet bites while fostering your network.



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#### Wednesday, 25 September 2024

8:00 AM Poster Breakfast

Session 9 – Finding New Sites with Fragments
9:00 AM to 10:15 AM

Chair: Dr. Heike Schönherr, Relay Tx

9:00 AM Biological Validation of a Novel eIF4E Binding Site Identified by Fragment Screening Using Mutational Analysis and Targeted Protein Degradation

Andrew Woodhead, Astex Pharmaceuticals

9:30 AM Enabling NMR Fragment Screening and Hit-to-Lead Medicinal Chemistry

via NMR for SAR

Prof. Steven LaPlante, NMX Research and Solutions Inc

10:00 AM Exploring the Power of Structural Biology on Degrader Discovery

Larry Jin, Biortus Biosciences Co. Ltd.

**BI**ORTUS

10:15 AM Award Ceremony & Announcements
Dr. Heike Schönherr, Relay Therapeutics

10:30 AM Networking Break

### Session 10 – Fragments in the Future 11:00 AM to 12:45 PM

Chair:

11:00 AM Invited Speaker

Sample multiplexing combined with profiling covalent cysteine libraries for FBDD Prof. Steven Gygi, Harvard University

11:30 AM Fragment Screening of Adenosine A2a Receptor Using Native Lipid Nanodiscs
Philip Rawlins, Domainex

12:00 PM Closing Keynote

Prospective Discovery of Molecular Glues Using Site-Directed Fragments Prof. Michelle Arkin, University of California, San Francisco

12:45 PM *Closing remarks*Joe Patel, Nexo Therapeutics

1:00 PM End FBLD 2024