

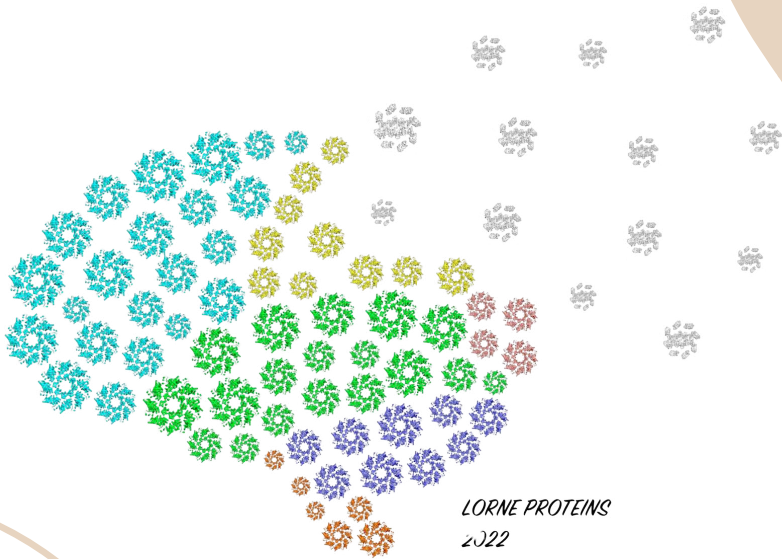
# 47<sup>th</sup> LORNE CONFERENCE ON PROTEIN STRUCTURE AND FUNCTION 2022

6 - 10 February  
2022

DELEGATE HANDBOOK



The Delegate Book Is Sponsored By: **ThermoFisher**  
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## 2022 Conference T-Shirt Design by Weixi Gu

The illustration presents a human brain, constructed from depictions of structures of the SARM1 protein in its inactive octameric state, as determined by cryo-electron microscopy. The different colours reflect brain anatomy. SARM1 is an executioner in axon degeneration. It is held in an inactive state in healthy axons, maintaining axon health. Upon injury, SARM1 is activated to initiate axon degeneration; this is depicted by white SARM1 molecules radiating from the brain. Axon degeneration leads to axon pathology in several neurodegenerative diseases, such as Alzheimer's and Parkinson's disease. Inhibiting SARM1 is a way to block axon loss, hence a therapeutic candidate to treat a wide range of neurodegenerative diseases.

Figley, M. D\*, Gu, W\*, Nanson, J. D\*, Shi, Y\*, Sasaki, Y., Cunnea, K., et al. (2021). SARM1 is a Metabolic Sensor Activated by an Increased NMN/NAD<sup>+</sup> Ratio to Trigger Axon Degeneration. *Neuron* 109, 1118–1136. doi:10.1016/j.neuron.2021.02.009.

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## **WELCOME & IMPORTANT INFORMATION**

We are very excited to welcome you to the 47<sup>th</sup> Lorne Conference on Protein Structure and Function 2022.

This year's meeting is a hybrid meeting taking place at the Mantra Lorne and via Pheedloop.

### **Bus Transfers:**

For arrival, buses will depart from Melbourne Airport and Southern Cross Station at 11:00 AM and 11:30 AM respectively on Sunday, 6<sup>th</sup> of February (AEDT).

At the conclusion of the conference, buses will depart from Lorne to Southern Cross Station and Melbourne Airport at 9:00 AM on Thursday 10<sup>th</sup> of February (AEDT).

### **Venue:**

All posters and Sponsor exhibitions will take place in the Convention Centre.

Plenary presentations will take place in the Heritage Ballroom, with the Heritage rooms reserved as extra viewing spaces.

### **In-Person Posters:**

There are three poster sessions over day two and three of the conference. You have been allocated a session and you will be required to stand by your poster during that session to answer questions and meet colleagues with similar research interests. At the conclusion of your allocated poster time, you will be required to pack up your poster so the next lot of presenters can use the space.

### **Virtual Platform:**

The virtual platform is available to ALL attendees and will house all e-posters for the duration of the conference. At the conclusion of the conference, content will be available on the virtual platform for post-conference viewing, except for presentations where publishing has been withheld.



### Parents Viewing Room:

The Walter and Eliza Hall Institute of Medical Research will again be supporting parents with young children attending the Lorne Proteins Conference in 2022. The room will have space for activities and play for children while parents will be able to listen to the presentations with the same AV projection. The Lorne Proteins Committee once again applauds this initiative. We are grateful to The Walter and Eliza Hall Institute of Medical Research for offering sponsorship to this initiative again that will offer a significant enhancement of access for all parents at the meeting.

### Exhibitor Prize Draw:

Tickets can be earned from exhibition booths and placed in the competition box at the registration desk for the prize draw at the end of the conference.

Please note, for every FULLY filled in exhibitor prize draw card the Lorne Proteins Committee will donate \$5 to the Lorne Hospital.

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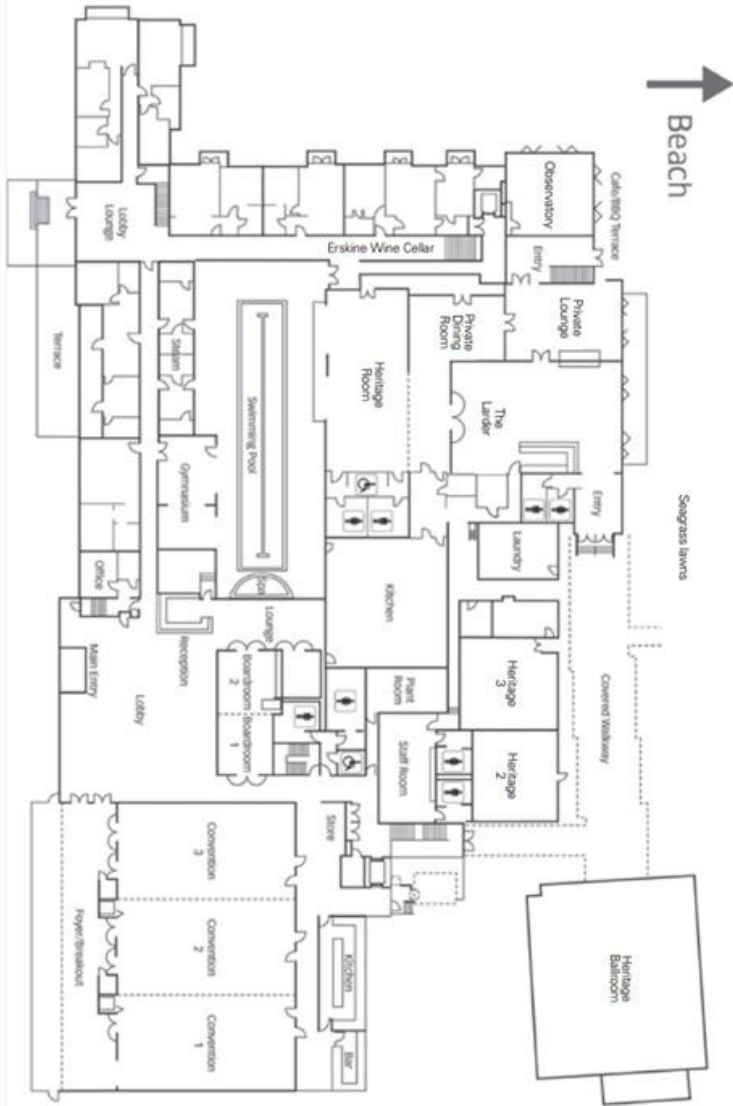
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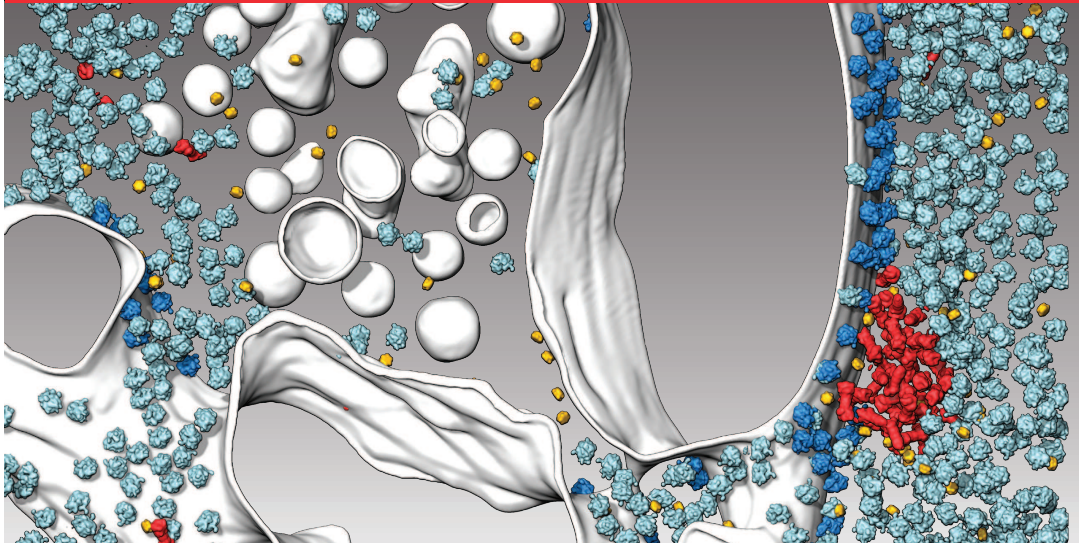
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# MAPS AND LAYOUTS

MANTRA LORNE



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Cryo-electron tomography reveals a phase-separated protein degradation microcompartment at the ER membrane. Data courtesy of Dr. Benjamin Engel, formerly Max Planck Institute for Biochemistry, now Helmholtz Zentrum München. Data visualization with Thermo Scientific Amira™ Software.

## Resolve protein structures inside cells

Cryo-electron tomography allows you to visualize and study proteins in their functional cellular environments at unprecedented resolution. This 3D imaging technique provides insights into complex supramolecular structures and assemblies that cannot be achieved by conventional purification and structural imaging methods.

The Thermo Scientific™ Aquilos™ 2 Cryo-FIB is a cryo-DualBeam™ (focused ion beam/scanning electron microscope) system dedicated to the preparation of frozen, thin lamella samples from biological specimens, now with automated workflow software. It maintains the vitrified cellular sample's structural integrity and ensures its accessibility for tomographic imaging in a cryo-transmission electron microscope such as the newly released Thermo Scientific Krios™ G4 Cryo-TEM.

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## Conference Program

### Sunday, February 6<sup>th</sup>

**2:00 PM**      **REGISTRATION OPEN**

**3:30 PM**      **OPENING REMARKS**

---

#### **SPARROW SESSION 3:45 PM – 5:45 PM**

*Chairs: Lindsay Sparrow & Leann Tilley*

##### **Alastair G Stewart**

The six steps of the complete F1 -ATPase rotary catalytic cycle

##### **Onisha Patel**

Structural basis for small molecule targeting of Doublecortin Like Kinase 1 with DCLK1-IN-1

##### **Senthil Arumugam**

Early Endosomal Acrobatics (EEA) of EEA1 drives an emergent time-keeping in endosomal maturations

##### **Stephanie Gras**

Spike specific T cell mediated immunity in vaccinated and COVID-19 recovered individuals

---

**5:45 PM**      **WELCOME RECEPTION**

---

#### **YOUNG INVESTIGATOR AWARD SESSION 7:45 PM – 9:00 PM**

*Chairs: Renae Ryan & Richard Birkinshaw*

##### **Josh Hardy**

Viral metamorphoses: using cryo-EM to understand the maturation of flaviviruses

##### **Lisanne M. Spenkellink**

The E. coli helicase does not use ATP during replication

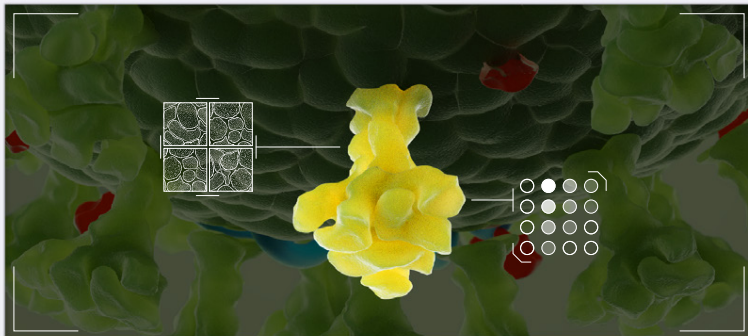
##### **Raphael Trenker**

Structures of the active HER2/HER3 receptor complex reveal dynamics at the dimerization interface induced by binding of a single ligand

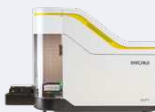
##### **Katrina A. Black**

Ion currents through Kir potassium channels are gated by anionic lipids

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9:00 PM TRADE MIXER

---

END OF DAY 1

Monday, February 7<sup>th</sup>

7:00 AM BREAKFAST

---

**SESSION 3 8:30 AM – 10:30 AM**

*Chairs: Jon Oakhill & Erinna Lee*

**Chuck Sanders**

Super-Trafficking of an Ion Channel as a Disease Mechanism

**Fiona Whelan**

Periscope Proteins' at the host:microbe interface

**Bernhard C. Lechtenberg**

Structural basis of chain-type specificity and regulation of the Gordon-Holmes syndrome RBR E3 ubiquitin ligase RNF216

**Jeanne Stachowiak**

Stochastic mechanisms in membrane organization and curvature

---

10:30 AM MORNING TEA

---

**SESSION 4 11:00 AM – 1:00 PM**

*Chairs: Fasseli Coulibaly & Sarah Piper*

**Jian Payandeh**

Trapping and visualization of outer membrane protein folding intermediates

**Andrew M. Ellisdon**

Autoinhibition of the RAS master regulator neurofibromin revealed using cryo-EM

**Ashleigh Davey**

Improving safety and efficacy of chimeric antigen receptor (CAR)-T cell therapies

**Allison Kraus**

High resolution structures of infectious mammalian prions

---

1:00 PM LUNCH

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1:15 PM SYNCHROTRON USERS GROUP MEETING



# Let's join forces to achieve the impossible

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of medicine.

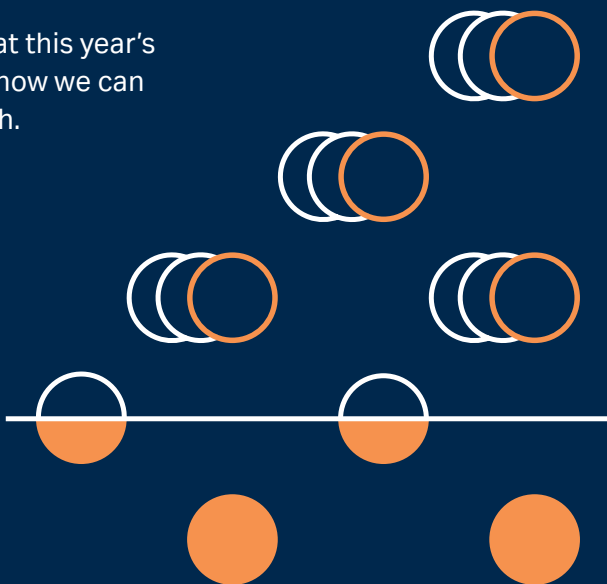
Visit us at booths 5 and 6 at this year's  
Lorne Proteins to find out how we can  
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<b>3:00 PM</b>	<b>THERMO FISHER WORKSHOP</b>
<b>4:00 PM</b>	<b>POSTER SESSION A</b>
<b>6:00 PM</b>	<b>DINNER AT LEISURE</b>
<b>8:00 PM</b>	<b>POSTER SESSION B &amp; TRADE MIXER</b>

---

END OF DAY 2

## Tuesday, February 8<sup>th</sup>

**7:00 AM BREAKFAST**

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**SESSION 7 (Session 1 of Satellite Meeting) 8:30 AM – 10:30 AM**

*Chairs: Jane Allison & Yu Heng Lau*

**Adrian Elcock**

Toward molecular simulations of the bacterial cell

**Lynn Kamerlin**

Loop Dynamics and Evolution in the Protein Tyrosine Phosphatases Superfamily

**Elisa Fadda**

Fine-tuning the Spike: Role of the nature and topology of the glycan shield in the structure and dynamics of SARS-CoV-2 S

---

**10:30 AM MORNING TEA**

---

**SESSION 8: LIGHTNING TALKS 11:00 AM – 1:00 PM**

*Chairs: Nicole De Weerd & Brett Collins*

**Ashleigh S. Paparella**

Inhibition of Clostridium difficile TcdA and TcdB toxins with transition state analogues

**Chris Horne**

Membrane permeabilisation is mediated by distinct epitopes in mouse and human orthologs of the necroptosis effector, MLKL

**David M Thal**

Structural and dynamic mechanisms of allostery at the M4 muscarinic acetylcholine receptor



# AQS<sup>3</sup>PRO MEASURES PREVIOUSLY UNDETECTABLE SECONDARY STRUCTURE

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**Higher order structure analysis** quantified with the fractional content of different secondary structure motifs.

**Protein structural similarity** to detect **< 2% Structural difference** between samples.



**TALK TO OUR SPECIALIST TEAM TODAY!**

**Rhiannon Morris**

Structural and functional analysis of target recognition by the lymphocyte adaptor protein LNK

**Adam M. Damry**

Electrodetection of small molecules by conformation-mediated signal enhancement

**Melanie Deitrich**

Blocking malaria transmission with nanobodies

**Josh Ramsay**

Structure-function studies of regulatory factors controlling quorum sensing and horizontal gene transfer in nitrogen-fixing symbiotic bacteria

**Lizelle Lubbe**

Insight into somatic angiotensin-1 converting enzyme structure and dynamics revealed by cryo-EM

**Jacob S. Lewis**

Cryo-EM studies of replication origin activation

---

**Session 2: Computational Biology 11:00 AM – 1:00 PM**

This session is sponsored by

*Chairs: TBC*

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S C I E N T I F I C

**Megan O'Mara**

Lipid modulation of neurotransmitter transporter function

**Carlos Rodrigues**

Computational Tools to Help Understand and Map Protein-Protein Interactions

**Sarah J. Piper**

Dynamic drug targets: Using Cryo-EM data and MD simulations to create realistic 3D animations of GPCR complexes

**Albert Ardevol**

structure and in-silico based protein engineering

**Haibo Yu**

Disruption of water networks is the cause of human/mouse species selectivity in urokinase plasminogen activator (uPA) inhibitors derived from hexamethylene amiloride (HMA)

**Carus Lau**

Structural Basis of Rapid and Voltage Dependent Inactivation of HERG Potassium Channels

**Stephanie Portelli**

Harnessing RNA polymerase protein structure to predict drug resistance in tuberculosis and COVID-19

---

**1:00 PM**                      **LUNCH**

---

**1:00 PM**                      **TWIST BIOSCIENCE WORKSHOP**

---

**2:00 PM**                      **COMPUTATIONAL BIOLOGY WORKSHOPS**

---

**4:00 PM**                      **POSTER SESSION C**

---

**6:00 PM**                      **DINNER AT LEISURE**

---

**THE EUROPE SESSION 10 7:45 PM – 9:00 PM**

*Chairs: Charlie Bond & Begoña Heras*

**Adrian Mulholland**

Multiscale simulation of enzyme catalytic mechanisms: dynamics, evolution and design

**N. Amy Yewdall**

Approximating the nucleoli with proteins and RNA: shaping condensate dynamics with ATP:Mg<sup>2+</sup>

**Robert Tampé**

Machineries and Supercomplexes in Cellular Quality Control and Adaptive Immunity



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**10:00 PM**                      **TRADE MIXER**

---

**END OF DAY 3**



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- Uniform thickness along bottom and side walls, along with a smooth top surface, which is ideal for optimum sealing.



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- V shaped bottom. Storage volume capacity from 1.2ml to 2.2ml.
- High-quality polypropylene (PP) resistant to alcohols and other mild organic solvents.
- Sterilized by high temperature and high pressure

## Wednesday, February 9<sup>th</sup>

### 7:00 AM BREAKFAST

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#### SESSION 11 8:30 AM – 10:30 AM

*Chairs: James Murphy & Bostjan Kobe*

##### **Hao Wu**

Inflammasomes – the next frontier

##### **Chi-Min Ho**

Structural Parasitology of Malaria Parasites

##### **Alisa Glukhova**

Understanding ligand binding to adenosine receptors using cryo-EM

##### **Henry Maun**

allosteric inhibition via exosite antibodies

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### 10:30 AM MORNING TEA

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#### SESSION 12 11:00 AM – 1:00 PM

*Chairs: Emily Furlong & Debnath Ghosal*

##### **Elizabeth Villa**

Opening Windows into the Cell: Bringing Structure into Cell Biology using Cryo-Electron Tomography

##### **Thomas Ve**

Crystal and Cryo-EM structures provide insight into how pro-neurodegenerative SARM1 is activated and cleave NAD<sup>+</sup>

##### **Phillip Pymm**

Development of Antibody-Based Therapeutics for COVID-19

##### **Junyu Xiao**

Molecular mechanism of secretory IgM and IgA

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### 1:00 PM ORACLE WORKSHOP

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### 1:00 PM LUNCH

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### 3:00 PM BRUKER WORKSHOP

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**LEACH LECTURE 4:00 PM – 5:30 PM**

*Chair: Melissa Call*

**Leann Tilley**

Seeing is believing: From cellular machinery to molecular movies to malaria therapies

---

**5:30 PM                      POSTER PRIZES AND CONFERENCE CLOSING**

---

**7:30 PM                      CONFERENCE DINNER**

---

**9:00 PM                      SUPPER PARTY**

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**END OF DAY 4**

Oryx protein crystallization robots from Douglas Instruments feature a **greater choice of experiments** than any other robot including

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Techniques such as **rMMS microseeding** can be used to get better diffracting crystals and to reliably control the number of crystals. Cross-seeding approaches can be used for crystallization of homologous proteins

- Screen with un-diluted seed stock for best results
- 1.5  $\mu$ l seed-stock required for a 96 well screen (10 nl per drop)



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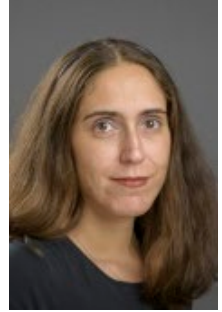
**Prof Adrian Elcock**  
*University of Iowa,  
USA*



**Dr Elisa Fadda**  
*Maynooth  
University, Ireland*



**Prof Chi-Min Ho**  
*Columbia  
University, USA*



**Prof Lynn Kamerlin**  
*Uppsala University,  
Sweden*



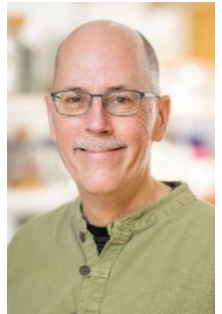
**Dr Allison Kraus**  
*Case Western  
Reserve University,  
USA*



**Prof Adrian  
Mulholland**  
*University of Bristol,  
UK*



**Dr Jian Payandeh**  
*Genetech Inc., USA*



**Prof Charles  
Sanders**  
*Vanderbilt  
University, USA*

## INVITED SPEAKERS



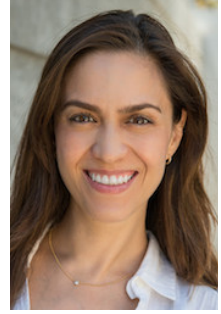
**A/Prof Jeanne Stachowiak**  
*The University of Texas, USA*



**Prof Robert Tampé**  
*Goethe University Frankfurt, Germany*



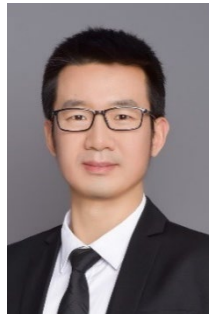
**Prof Leann Tilley**  
*University of Melbourne, Australia*



**A/Prof Elizabeth Villa**  
*University of California San Diego & Howard Hughes Medical Institute, USA*



**Prof Hao Wu**  
*Boston Children's Hospital, USA*

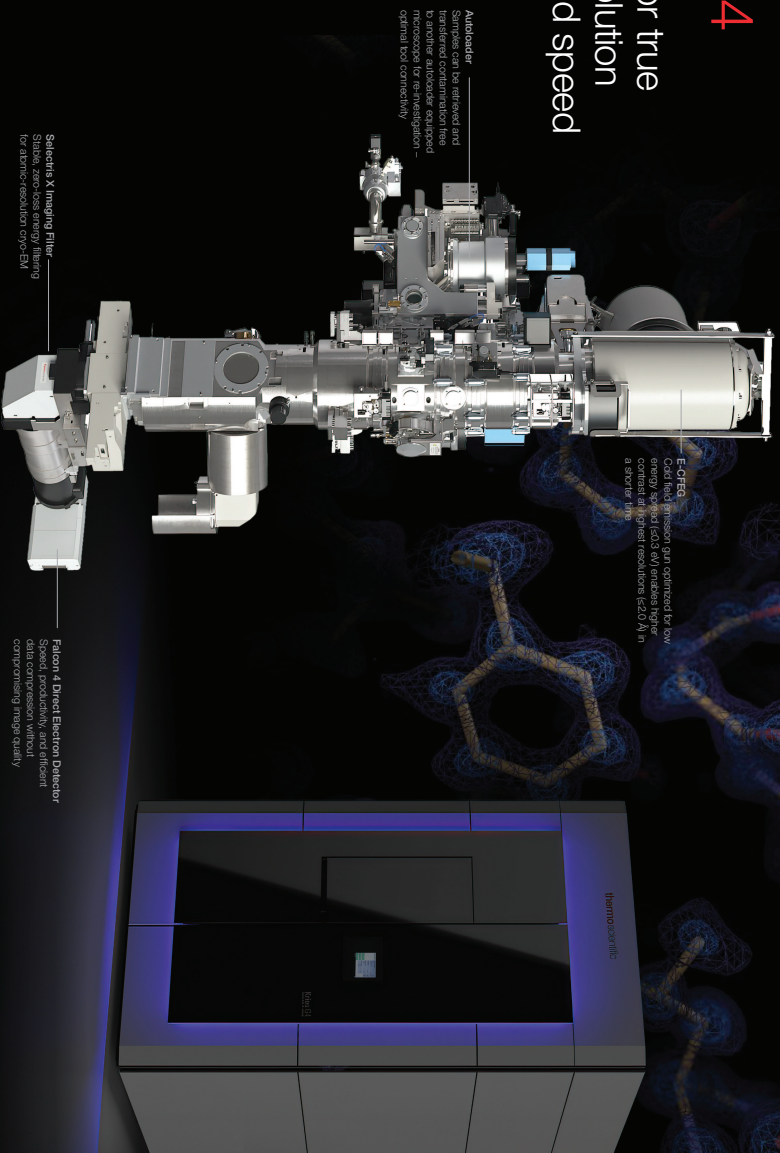


**Dr Junyu Xiao**  
*Peking University, China*

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## SESSION SPEAKERS

**Dr Albert Ardevol**

*CSIRO, Australia*

**Dr Senthil Arumugam**

*Monash Biomedical Discovery Institute,  
Monash University, Australia*

**Dr Katrina Black**

*Walter and Eliza Hall Institute of Medical  
Research, Australia*

**Dr Ashleigh Davey**

*Walter and Eliza Hall Institute of Medical  
Research, Australia*

**Dr Adam Damry**

*Australian National University, Australia*

**Dr Melanie H. Dietrich**

*Walter and Eliza Hall Institute of Medical  
Research*

**Dr Andrew M. Ellisdon**

*Monash University, Australia*

**Prof Stephanie Gras**

*La Trobe University, Australia*

**Dr Joshua Hardy**

*Walter and Eliza Hall Institute of Medical  
Research, Australia*

**Dr Chris R. Horne**

*Walter and Eliza Hall Institute of Medical  
Research, Australia*

**Dr Carus Lau**

*Victor Chang Cardiac Research Institute,  
Australia*

**Dr Bernhard Lechtenberg**

*Walter and Eliza Hall Institute of Medical  
Research, Australia*

**Dr Jacob Lewis**

*Francis Crick Institute, Australia*

**Dr Lizelle Lubbe**

*University of Cape Town, South Africa*

**Dr Henry Maun**

*Genentech Inc., USA*

**Dr Rhiannon Morris**

*Walter and Eliza Hall Institute of Medical  
Research, Australia*

**Dr Ashleigh S. Paparella**

*Albert Einstein College of Medicine, USA*

**Dr Onisha Patel**

*Walter and Eliza Hall Institute of Medical  
Research, Australia*

**Dr Phillip Pymm**

*Walter and Eliza Hall Institute of Medical  
Research, Australia*

**Dr Sarah Piper**

*Monash Institute of Pharmaceutical Sciences,  
Monash University, Australia*

## SESSION SPEAKERS

**Dr Stephanie Portelli**

*Baker Heart and Diabetes Institute, University of Queensland, Australia*

**Dr Joshua P. Ramsay**

*Curtin University, Australia*

**Dr Carlos Rodrigues**

*Baker Heart and Diabetes Institute, University of Queensland, Australia*

**Dr Lianne Spenkelink**

*University of Wollongong, Australia*

**Dr Alastair Stewart**

*Victor Chang Cardiac Research Institute, Australia*

**Dr David Thal**

*Monash Institute of Pharmaceutical Sciences, Monash University, Australia*

**Dr Raphael Trenker**

*University of California, USA*

**Dr Thomas Ve**

*Griffith University, Australia*

**Dr Fiona Whelan**

*University of Adelaide, Australia*

**Dr N. Amy Yewdall**

*Radboud University, Netherlands*

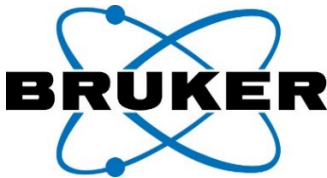
**Dr Haibo Yu**

*University of Wollongong, Australia*

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Booth 16



Booth 1



Booths 5 & 6

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Cytiva is a global provider of technologies and services that advance and accelerate the development and manufacture of therapeutics. We have a rich heritage tracing back hundreds of years, and a fresh beginning since 2020.

Our customers undertake life-saving activities ranging from fundamental biological research to developing innovative vaccines, biologic drugs, and novel cell and gene therapies. Our job is to supply the tools and services they need to work better, faster and safer, leading to better patient outcomes.

Cytiva is a trusted partner to customers that range in scale and scope, Cytiva brings efficiencies to research and manufacturing workflows, ensuring the development, manufacture and delivery of transformative medicines to patients.



Booth 15

Genesearch is home of the e•Freezer and Australian distributor of Cell Signaling Technology antibodies; Cisbio HTRF assays; Thompson filter vials and flasks; GENEWIZ gene synthesis and NGS services; Preomics peptide sample prep kits; Hello Bio small molecules and biochemicals; Geneware plasticware, and New England Biolabs molecular biology reagents.



GenScript is the world's leading biotech company providing life sciences services and products. With gene synthesis, peptide, protein, antibody, and preclinical drug development service capabilities, we are internationally recognized as a leading biotech company specializing in fundamental life sciences research and early-phase drug discovery services. Driven by the corporate mission of "making people and nature healthier through biotechnology", GenScript strives to become the most trustworthy biotech company in the world



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## SARTORIUS

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Sartorius is a partner of the life science research and biopharmaceutical industries, empowering biotech scientists and engineers across the world with application support to simplify and accelerate progress in the development and manufacturing of medications and achieve technological breakthroughs in new therapeutics that lead to better health for more people.



# ThermoFisher SCIENTIFIC

Booths 13 & 14

Thermo Fisher Scientific is the world leader in serving science. We serve both academic and industrial life sciences researchers, providing an unmatched combination of complete workflow solutions ranging from cryo-EM structural determination of macromolecular complexes and protein sociology, in the native state, to reconstruction of 3D architecture of tissues and cells. Our solutions help researchers unlock the mysteries of underlying protein function and cellular process and bridge the gap between basic science and translational therapeutics. We also supply innovative solutions for the world's pharmaceutical and biopharmaceutical industries. With applications that span the drug development process—from drug discovery through large-scale commercial production—we provide a broad range of products and services including single-use technologies, customized fluid transfer systems, high-quality media and sera, freezing and storage equipment, and innovative consumables and reagents, purification, and analytics.



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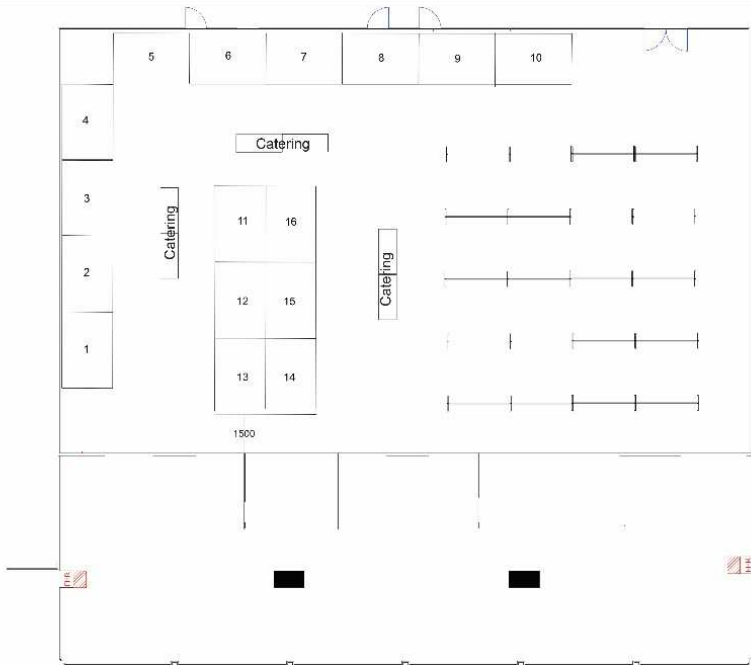


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## EXHIBITION AND POSTER HALL LAYOUT





**Mantra Lorne**