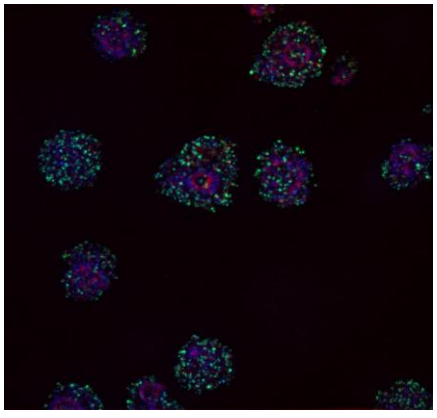
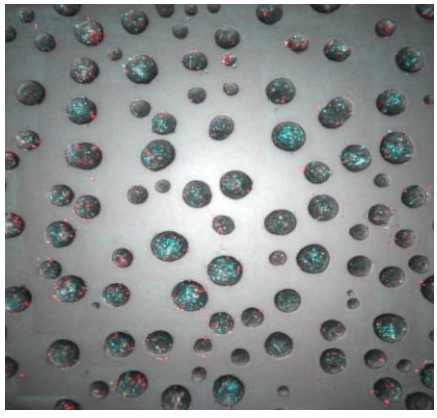
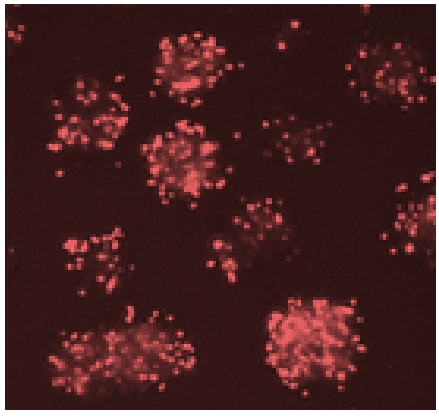
Functional High Throughput Technologies Australia

Organoid Nexus 2026: Advancing organoid technologies for clinical translation

When: November 18, 2026
Time: 8:45 arrival for 9:00 start, concludes at 16:30
Where: Ian Potter Auditorium, The Florey Institute of Neuroscience and Mental Health, 30 Royal Parade, Parkville VIC
Attendance: In-person only

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The Florey Advancing Brain Research



Program

The program brings together researchers and clinicians to explore the latest advances in organoid science. The meeting will highlight the development of complex and disease-specific organoid models, innovations in high-throughput screening, emerging approaches to data analysis and applications in drug discovery. Presentations will also examine the growing role of organoids in clinical trials and precision medicine, focusing on how these transformative technologies can accelerate the translation of laboratory discoveries into improved patient outcomes.

Welcome	
8:45-9:00	**Registration** **Tea and coffee on arrival**
9:00-9:10	*Conference welcome and housekeeping* **Twishi Gulati and Louise Winteringham**
9:10-9:50	**Session 1: Developing niche organoid models for high throughput screening**
Chair	**Amee George**
	Developing bone marrow organoids for patient-specific drug screening in Myelodysplastic Syndromes **Olivia Stonehouse, University of New South Wales**
	Recreating the Human Lung from Stem Cells to Study Respiratory Disease **Rhiannon Werder, Murdoch Children's Research Institute**
	Mimicking cancer cell communications using assembloids as advanced models of breast cancer **Jasveena Kaur, Cabrini Health**
	MOLBOs: Microglial and Oligodendrocyte Lineage Brain Organoids for studying demyelination and microglial behaviour **Giovanni Pietrogrande, University of Queensland**
	Organoids in suspension: Built to scale **Farhad Soheil, Corning Life Sciences**
9:50-10:35	**Session 2: Generating complex organoid models for high throughput screening**
Chair	**Alison Ferguson**
	Screening in context: human stem cell-derived macrophage and airway models identify repurposable drugs against non-tuberculous mycobacteria **Sohinee Sarkar, Murdoch Children's Research Institute**
	Integrating 3D biology, high-throughput approaches and cellular age in human stem cell models of Alzheimer's Disease **Nathalie Saurat, Monash University**
	Engineering human cerebellar organoids for medulloblastoma modelling: An integrated platform for medulloblastoma modelling and therapeutic screening **Kaveh Baghaei, Monash University**

	Development of functional bovine mammary organoids for bacterial infection modelling **Dinusha Madhumali Gangoda Elapathage, University of Melbourne**
	One Platform – Multiple 3D Applications **Joachim Pavel, Scientifix**
	Accelerate your translational research with TIA **Heather Donaghy, Therapeutic Innovation Australia**
10:35-11:00	**Morning Tea**
11:00-11:45	**Session 3: Miniaturising organoid models for high throughput screening**
Chair	**Kaylene Simpson**
	Screening drugs for glomerulopathies using a novel stem cell model **Aude Dorison, Murdoch Children's Research Institute**
	High-throughput brain organoid screening identifies epigenetic modulators of neurodevelopmental disease phenotypes **Maria Giovanna Garone, Murdoch Children's Research Institute**
	From structure to transcription: modelling Crohn's disease-associated epithelial plasticity in intestinal organoids **Darasimi Kola-Ilesanmi, University of Calgary**
	A hypoxic macrophage niche drives regenerative reprogramming and chemoresistance in colorectal cancer **Ruobing Zhang, Monash University**
	AI and more; Revvity's organoid solutions **Jonathan Cechetto, Revvity**
11:45-12:30	**Session 4: Technical challenges of organoid screening**
Chair	**Twishi Gulati**
	Scaling up 3D: practical considerations for high-throughput organoid screening **Jennii Luu, Peter MacCallum Cancer Centre**
	Beyond monogenic models: the challenge of modelling clinical and pharmacodynamic heterogeneity **Elizabeth Qian, University of Melbourne**
	Turning menstrual effluent into organoids: A new platform for endometriosis research **Yu Yu, Curtin University**
	End-to-end workflows for 3D cell culture and characterisation **Oliver Trusler, Thermo Fisher**
	Hamilton in Australia: Our commitment to your research **Vince Marrazzo, Hamilton Company**
12:30-13:30	**Lunch**

13:30-14:15	**Session 5: Screening with organoids in clinical trials**
Chair	**Amee George**
	Organoids in Cancer Screening (OrCaS): Mucinous ovarian cancer **Olivia Craig, Peter MacCallum Cancer Centre**
	Gene addition therapy for neurodevelopmental disorders **Simone Borsani, Children's Medical Research Institute**
	Tracking disease evolution and treatment sensitivity in patients with peritoneal metastases **Josephine Wright, South Australian Health and Medical Research Institute**
	From organoids to the clinic: AAV9-CYP2U1 gene therapy rescues SPG56 in preclinical organoids and mice **Hannah Leeson, University of Queensland**
	Scaling Complex 3D Cell Models for High-Throughput Drug Screening **Joe Gillson, Inventia Life Science**
14:15-15:00	**Session 6: Innovative applications**
Chair	**Alison Ferguson**
	Comparing cell painting in patient-derived liver cancer organoids and reference cell lines using a multi-site EU-OPENSCREEN protocol **Ben Dwyer, Curtin University**
	From complexity to clarity: building DIVE dashboards for hit selection in organoid screens **Hermione Allen, Peter MacCallum Cancer Centre**
	Beyond bioprinting: Manufacturing living tissues at scale **David Collins, University of Melbourne**
	A Phenomics Australia voucher case study **John Parisot and Dilys Leung, Phenomics Australia**
	DKSH Scientific Solutions: Connecting Research with Innovation **Samira Sadeghi, DKSH**
15:00-15:30	**Afternoon Tea**
15:30-16:15	**Session 7: Plenary**
Chair	**Twishi Gulati**
	What should an HREC ask when a trial relies on NAMs? Bellberry's Checklist **Leanne Weekes, Bellberry**
16:15-16:30	**Open discussion – where to next?**
Chair	**Louise Winteringham**
16:30 onwards	**Join us for drinks at Naughtons Hotel (43 Royal Parade, Parkville)**