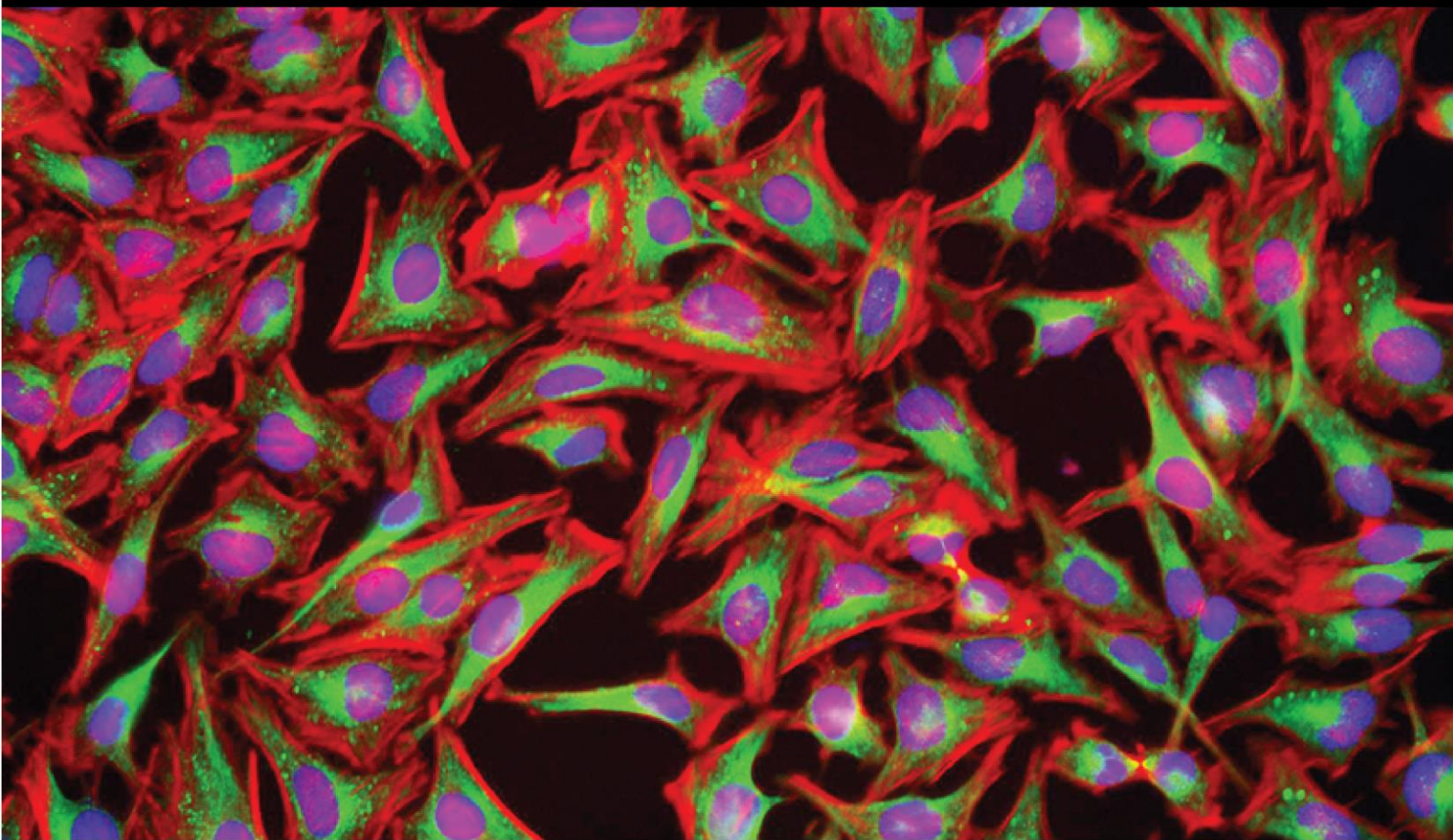


FHTTA 2019 Meeting

Program

October 30th-31st 2019
The John Curtin School of Medical Research
The Australian National University
Canberra, Australia



Functional High Throughput Technologies
AUSTRALIA

FHTTA 10th Anniversary Meeting

We would like to thank the following sponsors for their support of this years' meeting:

Foundation Sponsors



Supported by



Australian National University

Frank and Bobby Fenner Trust

Gold Sponsors



Silver Sponsors



Program – Day 1 (30th October)

Day 1: Wednesday 30th October

8:50-9:00 Conference Welcome (including Acknowledgement of Country)

SESSION 1

9:00-9:45 Introduction to High Content Screening: from Imaging to Analysis
Kaylene Simpson (Peter MacCallum Cancer Centre, VIC)

9:45-10:20 High-Content Phenotypic Screens
Keynote: Justin Boyd (Pfizer Boston, USA)
Supported by Pfizer

10:20-10:50 Morning Tea (JCSMR Foyer)

10:50-11:25 The OrganoPlate®: 3D Human Organ-on-a-Chip Models for High Throughput Drug Screening
Keynote: Tania Fowke (Mimetas, The Netherlands)
Supported by SBI2

11:25-11:45 High-Content Imaging Approaches to Quantitate Stress-Induced Changes in Nucleolar Morphology
Jinshu He (Australian National University, ACT)

11:45-12:05 Identifying Novel Therapeutics for Paediatric Leukaemia Using High Throughput Drug Screening
Joyce Oommen (Telethon Kids Institute, WA)
Travel Award: Compounds Australia

12:05-12:25 What Happens After You Screen?
Paul Stuppel (Cancer Therapeutics, VIC)

12:25-12.35 Q&A

12:35-13:35 Lunch (JCSMR Foyer)

Program – Day 1 (30th October)

SESSION 2

- 13:35-14:10 The Power of High Content Imaging in Immuno-oncology Research
Keynote: Bhaskar Mandavilli (ThermoFisher Scientific Biosciences Division, USA)
Supported by ThermoFisher
- 14.10-14.35 Towards High-Throughput 3D Screening
Susanne Ramm (Victorian Centre for Functional Genomics, VIC)
Supported by Inventia Life Science
- 14:35-14:55 A Novel Brain Organoid High-Throughput Platform to Study Glioblastoma Using Multimodal High-Content Fluorescence Microscopy
Guillermo Gomez (Centre for Cancer Biology, SA)
Travel Award: BioTools

14:55-15:30 Afternoon Tea (JCSMR Foyer)

- 15:30-15:50 Screening for Molecules that can Restore hERG Function
Chai Ng (The Victor Chang Cardiac Research Institute, NSW)
Supported by Lonza
- 15:50-16:10 Functional Genomic Screen In 1536 Format: The Case Study of a Whole Genome Arrayed CRISPR Screen to Identify Synthetic Lethal Genes Involved in Colon Cancer
Hélène Jousset Sabroux (Walter and Eliza Hall Institute, VIC)
- 16.10-16.30 Compounds Australia's Vision 2020 Project – What it Means for Our Researchers
Moana Simpson (Compounds Australia, Griffith Institute for Drug Discovery, QLD)
- 16.30-17.15 **Special 10th Anniversary Plenary**
Drug Discovery, A HCS Perspective – What Does The Future Hold?
Vicky Avery (Griffith Institute for Drug Discovery, QLD)
Supported by Scientific Data, Australian Phenomics Network, Therapeutic Innovation Australia
- 17:15-19.00 **Networking Cocktail Function (JCSMR Foyer)**

Program – Day 2 (31st October)

Day 2: Thursday 31st October

8:55-9:00 Conference Messages

SESSION 3

9:00-9:35 Understanding Gene Expression Heterogeneity Using High-Throughput Imaging
Keynote: Scott Berry (University of Zurich, Switzerland)
Supported by FHTTA

9:35-9.55 Harnessing Genome-Wide CRISPR Perturbation Screens to Develop Novel Therapeutic Strategies to Treat Oesophageal Adenocarcinoma
Kenji Fujihara (Peter MacCallum Cancer Centre, VIC)
Travel Award: BMG Labtech

9.55-10.15 BioDive: a VR-ready data visualisation platform integrating biomedical images and derived quantitative data for enhanced analysis and communication
John Lock (University of New South Wales, NSW)

10:15-10:40 Morning Tea (JCSMR Foyer)

10:40-11:15 Prioritising Drug Candidates in Precision Oncology for Rare Cancer: A Case Study in Thai Liver Fluke-Associated Cholangiocarcinoma
Keynote: Somponnat Sampattavanich (Mahidol University, Thailand)
Supported by Perkin Elmer

11:15-11:35 Discovery of Novel Differentiation Agents Using High Content Image Based Screening in Breast and Prostate Cancer
Jean Winter (University of Adelaide, SA)
Travel Award: CTx

11:35-11:55 Developing Novel Combination Therapy Using FDA-Approved Compounds for Triple-Negative Breast Cancer
Prahlad Raninga (QIMR Berghofer, QLD)
Travel Award: AXT

11:55-12:15 How To Publish Your Screen
Moderated by the FHTTA committee

12:15-13:15 Lunch (JCSMR Foyer)

Program – Day 2 (31st October)

SESSION 4

- 13:15-13:50 Using a Multi-Modal Cell Types Characterization Pipeline to Identify Electrophysiological and Morphological Types in the Mouse Visual Cortex
Keynote: Staci Sorensen (Allen Institute for Brain Science, USA)
Supported by FHTTA
- 13:50-14:10 Integrative Approaches in Functional Genomics to Identify Genetic Dependencies in Paediatric Cancer
Claire Sun (Hudson Institute, Monash University, VIC)
Travel Award: Dotmatics
- 14:10-14:30 Building Tools to Regulate Chloroplast and Drought Signalling in Plants: SAL1 Chemical Inhibitors
Nay Chi Khin (Australian National University, ACT)
- 14:30-14:50 Synthetic CRISPR and RNAi Screens to Identify Regulators of mRNA Processing and Export
Toby Williams (Peter MacCallum Cancer Centre, VIC)
Travel Award: Tecan

14:50-15:25 Afternoon Tea (JCSMR Foyer)

- 15:25-15:50 High content imaging provides new insights into tumour biology
Ben Finnin (Miltenyi Biotec, VIC)
Supported by Miltenyi Biotec
- 15.50-16:15 High Throughput Drug Screening with Patient iPSC Derived Neurons
Chris Bye (Florey Institute of Neuroscience, VIC)
Supported by BioStrategy
- 16:15-16:50 Interrogating Oncology-Relevant Drug Targets & Pathways Utilizing CRISPR Screening and Complementary Approaches
Vicki Racicot (Horizon Discovery, USA)
Supported by Millennium Science
- 16:50 **Conference Wrap Up and Close**