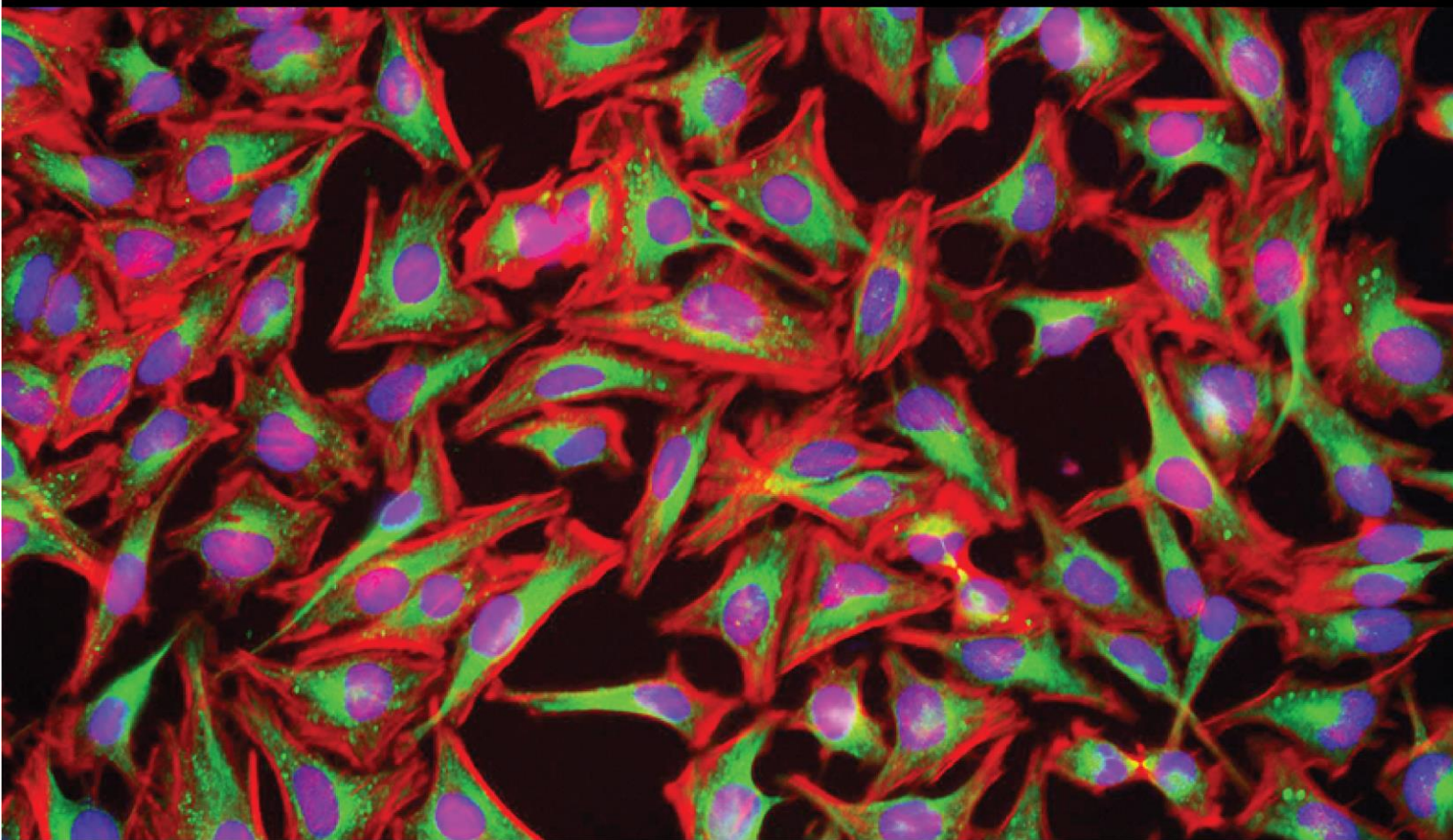


# FHTTA 2019 Meeting

## Program

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



Functional High Throughput Technologies  
AUSTRALIA

# FHTTA 10<sup>th</sup> Anniversary Meeting

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

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# 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)**

10:50-11:35 The OrganoPlate®: 3D Human Organ-on-a-Chip Models for High Throughput Drug Screening  
**Keynote: Tania Fowke (Mimetas, The Netherlands)**  
*Supported by SBI2*

11:35-11:55 High-Content Imaging Approaches to Quantitate Stress-Induced Changes in Nucleolar Morphology  
**Jinshu He (Australian National University, ACT)**

11:55-12:15 Identifying Novel Therapeutics for Paediatric Leukaemia Using High Throughput Drug Screening  
**Joyce Oommen (Telethon Kids Institute, WA)**  
*Travel Award: Compounds Australia*

12:15-12:35 What Happens After You Screen?  
**Paul Stuppel (Cancer Therapeutics, VIC)**

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

# Program – Day 1 (30th October)

## SESSION 2

13:35-14:10 Essential Tools for Fluorescence Microscopy and High Content Analysis  
**Keynote: Dan Beacham (ThermoFisher Scientific Biosciences Division, USA)**  
*Supported by ThermoFisher*

14.10-14.35 **Short talk**

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*

**14:55-15:25 Afternoon Tea (JCSMR Foyer)**

15:25-15:50 Towards High-Throughput 3D Screening  
**Susanne Ramm (Victorian Centre for Functional Genomics, VIC)**  
*Supported by Inventia Life Science*

15:50-16:10 **Short talk**

16.10-16.30 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  
**Helene Jousset-Sabroux (Walter and Eliza Hall Institute, VIC)**

16.30-17.15 **Special 10<sup>th</sup> Anniversary Plenary**  
Drug Discovery, A HCS Perspective – What Does The Future Hold?  
**Vicky Avery (Griffith Institute for Drug Discovery, QLD)**  
*Supported by Scientific Data*

17:15-19.00 **Networking Cocktail Function (JCSMR Foyer)**

# Program – Day 2 (31<sup>st</sup> October)

## Day 2: Thursday 31<sup>st</sup> 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 **Short talk**

### **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 (31<sup>st</sup> October)

## SESSION 4

- 13:15-13:50 Title: TBA  
**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)**

## SESSION 5

- 15:25-15:50 High content imaging provides new insights into tumour biology  
**Ben Finnin (Miltenyi Biotec, VIC)**  
*Supported by Miltenyi Biotec*
- 15.50-16:25 High Throughput Drug Screening with Patient iPSC Derived Neurons  
**Chris Bye (Florey Institute of Neuroscience, VIC)**  
*Supported by BioStrategy*
- 16:25-17.00 Interrogating Oncology-Relevant Drug Targets & Pathways Utilizing CRISPR Screening and Complementary Approaches  
**Vicki Racicot (Horizon Discovery, USA)**  
*Supported by Millennium Science*
- 17:00 **Conference Wrap Up and Close**