08:30  Tea/Coffee
08:50  Welcome
09:00  Invited Lecture – Shila Ghazanfar (The University of Sydney)
       Data integration for molecule-resolved spatial gene expression
09:30  Yingxin Lin (The University of Sydney)
       Large scale single-cell multi-sample multi-condition data integration using scMerge2
09:45  Hani Jieun Kim (Children’s Medical Research Institute)
       Comprehensive Characterisation of Fetal and Mature Retinal Cell Identity to Assess
       the Fidelity of Retinal Organoids
10:00  Zheng Su (UNSW Sydney)
       Post-transcriptional regulation supports the homeostatic expression of mature RNA
10:15  Morning tea
10:45  Invited Lecture – Jie Lu (University of Technology Sydney)
       Data – Machine Learning - Decision: methodologies and Innovation
11:15  Jason Ross (CSIRO)
       Batch effect detection, correction and characterisation in Illumina Methylation
       Beadchip data
11:30  Lijia Yu (The University of Sydney)
       Benchmarking clustering algorithms on estimating the number of cell types from
       single-cell RNA-sequencing data
11:45  Fast Forward presentations (2 minute each, 1 optional slide)
12:30  Lunch & Poster session
14:00  Ingrid Tarr (Victor Chang Cardiac Research Institute)
       Familial spontaneous coronary artery dissection cases are at increased polygenic risk
       of disease
14:15  Yue Cao (The University of Sydney)
       scFeatures: Multi-view representations of single-cell and spatial data for disease
       outcome prediction
14:30  Allegra Angeloni (Garvan Institute of Medical Research)
       Epigenetic signatures of invertebrate CpG island-like sequences
14:45  Angelita Liang (UNSW Sydney)
       The RNA Atlas: The Splicing "Seq"uel
15:00  Aditya Sethi (The Australian National University)
       Quantifying native RNA integrity from nanopore signals
15:15  Afternoon tea
15:45  Invited Lecture – Antoine de Weck (Children’s Cancer Insitute)
       Computational Biology in Oncology Drug Discovery
16:15  Invited Lecture – Leonard Goldstein (Garvan Institute of Medical Research)
       Cancer genomics for liquid biopsy studies
16:45  Prizes & Closing
17:00  Drinks
Presentation Format
Oral Presentations: 13 mins + 2 mins Q&A
Fast Forward presentations: strictly 2 mins, no Q&A, optionally at most 1 slide
Poster Presentation: The size of the poster is at A0 in size in the portrait orientation

Location: The University of Sydney - Sydney Nanoscience Hub

The organising committee:
Dominik Beck (UTS), Eleni Giannoulatou (VCCRI), Sarah Kummerfeld (Garvan Institute), Marc Wilkins (UNSW), Jean Yang (USYD), Pengyi Yang (CMRI)

[Map of Sydney University and Sydney Nanoscience Hub]

[Logos of UTS, Victor Chang Cardiac Research Institute, Garvan Institute of Medical Research, UNSW, Sydney Medical Research Institute, Children's Medical Research Institute, Jeans for Genes, Australian Bioinformatics and Computational Biology Society]