MOLECULAR, CELLULAR, AND TISSUE ENGINEERING, PART I
10:00 - 11:20 AM

10:00 - 10:20 AM  Angiogenesis-primed Microfluidic Device for Brain Organoid Growth and Vascularization
Alia Alameri
Supervisor: Prof. David Juncker

10:20 - 10:40 AM  Bioinformatics Analysis of the Evolution of Protein-protein Interactions
Léah Pollet
Supervisor: Prof. Brandon Xia

10:40 - 11:00 AM  Prediction of Protein Adsorption for Biomedical and Industrial Applications
Maru Arias Montecillo
Supervisor: Prof. Dan Nicolau

11:00 - 11:20 AM  Stiffening matters: One-pot Synthesis of a Dual-cure PDMS for Dynamic Cell Culture
Pouria Tirgar Bahnamiri
Supervisor: Prof. Allen Ehrlicher

COFFEE BREAK
11:20 - 11:40 AM

MOLECULAR, CELLULAR, AND TISSUE ENGINEERING, PART II
11:40 - 12:40 PM

11:40 - 12:00 PM  A Novel Culture Platform to Study In Vitro Placental Trophoblast Fusion
Prabu Karthick Parameshwar
Supervisor: Prof. Christopher Moraes

12:00 - 12:20 PM  Process Intensification and Functionality Assessment of Lentiviral Vectors.
Michelle Tran
Supervisor: Prof. Amine Kamen

12:20 - 12:40 PM  Decellularized Extracellular Matrix (dECM) Microparticle Based Hydrogels for Vocal Fold Tissue Engineering
Mika Brown
Supervisor: Prof. Nicole Li-Jessen
LUNCH BREAK
12:40 - 1:30 PM

IMAGING AND MODELLING
1:30 - 2:50 PM

1:30 - 1:50 PM  
Imaging of the Gerbil Incudostapedial Joint  
Sajjad Feizollah  
Supervisor: Prof. Robert Funnell

1:50 - 2:10 PM  
Finite-element Modelling of Middle-ear Vibrations Under Pressurization  
Tina Qian  
Supervisor: Prof. Robert Funnell

2:10 - 2:30 PM  
Mapping T1 to Crossing White Matter Fibres in a Voxel with Inversion Recovery Diffusion-weighted Imaging  
Daniel Andrews  
Supervisor: Prof. Christine Tardif

2:30 - 2:50 PM  
Deep Learning for Intraoperative Multimodal Linear Registration  
Victoria Madge  
Supervisor: Prof. Louis Collins