Cell Therapy Minisymposium

EnVISIONing reGENEration WITHIN tissues by enhancing cell-based plasticity

Wednesday January 19th 11:00am – 4pm EST

Cindi Morshead to give land acknowledgement and opening remarks

11:05am-11:35am

Penney Gilbert introduces Sally Temple
Sally Temple, Scientific Director, Neural Stem Cell Institute
Using stem cell technology to combat age-related neurodegenerative disease

Cell transplantation therapy to restore vision

11:55am-12:25pm

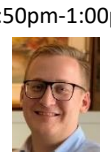
Valerie Wallace introduces Rachael Pearson
Rachael Pearson, Professor, King's College London
Stem cell-derived cone photoreceptor transplantation to restore vision

12:40pm-12:50pm

Arturo Ortin-Martinez, Scientific Associate, Krembil Research Institute
Modulating intracellular material transfer in transplanted photoreceptors

12:50pm-1:00pm

Margaret Ho, PhD Student, University of Toronto
A hyaluronan and methylcellulose-based hydrogel to perturb photoreceptor material transfer



1:00pm-1:10pm

Madison Gray, PhD Student, University of Toronto
Tracing synaptic connections in normal and regenerating retina

Gene therapy to promote neuroplasticity

1:20pm-1:50pm

Maryam Faiz introduces Shane Liddelow
Shane Liddelow, Assistant Professor, New York University
Reactive astrocyte heterogeneity in Inflammation and neurodegenerative disease

2:05pm-2:15pm

Justine Bajohr, PhD Student, University of Toronto
Astrocyte reprogramming for brain repair

2:15pm-2:25pm

Rikke Kofoed, Postdoctoral Fellow, Sunnybrook Research Institute
Kate Noseworthy, MSc Student, University of Toronto
Focused ultrasound mediates brain plasticity and viral vector delivery

2:25pm-2:35pm

Hussein Ghazale, Postdoctoral Fellow, University of Toronto
Glia to neuron conversion in a mouse model of amyotrophic lateral sclerosis

Stimulating endogenous repair in neural and muscle tissue

2:45pm-3:15pm

Julie Lefebvre introduces Joshua Sanes
Joshua Sanes, Professor, Harvard University
Enhancing neuronal survival and regeneration after retinal injury: insights from single cell transcriptomics

3:30pm-3:40pm

Emily Gilbert, Postdoctoral Fellow, University of Toronto
Metformin-mediated recovery following spinal cord injury: sex-dependent effects on inflammation and neural precursor cells

3:40pm-3:50pm

Erik Jacques, PhD Student, University of Toronto
Engineered bio-mimetic niche supports muscle stem cell quiescence

3:50pm-4:00pm

Danielle Jeong, PhD Student, University of Toronto
Characterization of neural stem cells and their niche during CNS remyelination

Molly Shoichet to give closing remarks

MEDICINE by DESIGN

[Information and Registration via this LINK]

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