

REALISE *the News* – September 2018

WELCOME BACK!

Welcome back to another inspiring year! We're so excited for all the upcoming REALISE modules that you will be able to participate in this year! The REALISE newsletter is sent out once or twice a month with information that could be beneficial for you. This newsletter consists of upcoming REALISE training modules, events, awards, and funding opportunities. If you have any questions, feel free to contact the REALISE program office at realise@ucalgary.ca.

UPCOMING REALISE TRAINING MODULES

To sign up for the upcoming modules please use the REALISE Intranet Site URL (unless otherwise noted): <https://ecs.ucalgary.ca/faculty/medicine/realise>

Neuro 0 Foundation Module Series: September 11-13, 2018

This module series has been designed with incoming graduate students in mind, however, registration is open to all HBI trainees interested in a refresher on one or more of the module topics.

Neuro 0 2018 - Foundation Module #1: Introduction to Neuroscience Research Methods

September 11, 2018 | 1:00-2:30pm

HSC G639

Presenter: Gavin Petrie and Rob Aukema

Module in brief: This module will review research tools and techniques commonly used to investigate cellular and molecular signaling and neurodevelopment. Among others, this includes calcium imaging, lineage tracing, FRET/BRET imaging, immunohistochemistry, Western Blot, PCR, CRISPR, optogenetics, and the CRE-Lox system.

Neuro 0 2018 - Foundation Module #2: Introduction to Electrophysiology

September 13, 2018 | 1:00-2:30pm

HSC G639

Presenter: Aaron Lanz

Module in brief: This module will orient trainees to the basic concepts of electrophysiology and its uses in research. Common laboratory techniques that can be used to measure properties of neurons will also be discussed.

Journey to Becoming a PI

October 17, 2018 | 1:00-3:00pm

G500

PI Panel: Dr. Sarah McFarlane, Dr. Grant Gordon, Dr. Deborah Kurrasch, Dr. Richard Wilson, and Dr. Shalina Ousman

Module in brief: Have you ever wondered what it takes to become a PI? Here is your opportunity to participate in an open panel discussion with the PIs from HBI. You'll hear about their individual

journeys, challenges, successes they've gone through to end up where they are today not only in the academic world, but also in their personal lives. Please send your questions by October 10th to realise@ucalgary.ca.

Purposeful Public Speaking

October 22, 2018 | 10:00am-12:00pm

HSC 1405B

Presenter: Gord Aker, PCC

Module in brief: In this two-hour workshop, you will discover the skills necessary to take that first step in becoming a more natural and confident public speaker and in so doing, open up a huge opportunity to increase your contribution and influence.

Modern Approaches to Optogenetics and Behavioural Neuroscience

October 22-29, Mondays and Wednesday | 10:00-11:50am

Location TBD

Presenters: Dr. Taylor Chomiak and Dr. Tamas Fuzesi

Module in brief: This module will provide an introduction to Optogenetics and Behavioural Neuroscience with a focus on basic principles and practical applications. Participants will be given an introduction as to how to effectively incorporate optogenetics and behavioural analysis into their research. Lectures will cover the basics and general principles guiding optogenetics and rodent behavioural testing and analysis. Participants will also become familiar with classic and more modern approaches for behavioural and statistical data analysis. An emphasis will be placed on ensuring proper controls are in place to ensure that reliable, high quality data are produced.