

# Course outline for TriMED

2023-24 CIMED series

1:00 pm, BJC-IH, 9 A/B conference room

## Advanced Topics in Membrane Excitability: Part A (Fall 2023)

(Fundamental approaches)

- Sep 11<sup>th</sup> **EXCITE Seminar:** Filip Van Petegem, Jon Silva host
- \*Sep 18<sup>th</sup> Course Introduction
- \*Sep 25<sup>th</sup> Colin Nichols PhD (CBP): Ion Channels: Permeation and Selectivity
- Oct 2<sup>nd</sup> **EXCITE Seminar:** Willow Coyote-Maestas, Colin Nichols host
- \*Oct 9<sup>th</sup> **Fall Break**
- \*Oct 16<sup>th</sup> Baron Chanda PhD (Anesthesiology): Ion Channels: Sensing and Gating
- \*Oct 23<sup>rd</sup> Jon Silva PhD (BME): Gating models and numerical simulations
- \*Oct 30<sup>th</sup> Wayland Cheng MD PhD (Anesthesiology): Cryo-EM basics and structural analysis
- Nov 6<sup>th</sup> **EXCITE Seminar:** David Gutmann, Baron Chanda host
- \*Nov 13<sup>th</sup> Tao Che PhD (Anesthesiology): GPCR Structure, Activation, and Signaling
- \*Nov 20<sup>th</sup> WIP/JC: Rosa Scala / Qingwei Niu MCB
- \*Nov 27<sup>th</sup> WIP/JC: NONE
- \*Dec 4<sup>th</sup> WIP/JC Jenna Lin / Nathan York

## Journal Club and Work in Progress (Winter/Spring 2024)

- Jan 8<sup>th</sup> **EXCITE Seminar:** Rachele Gaudet, Polina Lishko host
- \*Jan 15<sup>th</sup> **Holiday**
- \*Jan 22<sup>nd</sup> **EXCITE Seminar:** Kenton Schwartz, Baron Chanda host
- \*Jan 29<sup>th</sup> Rajan Sah MD PhD (Cardiology/CBP): Ion Channels in the Regulation of Cardiac Function
- Feb 5<sup>th</sup> **EXCITE Seminar:** Dejian Ren, PhD (U of Penn), Rajan Sah host, "Lysosomal Ion Channels and Neurodegenerative Diseases"
- Feb 12<sup>th</sup> **Biophysical Society Meeting**
- \*Feb 19<sup>th</sup> Vitaly Klyachko PhD (CB&P/BME): High-resolution Imaging of Neuroexcitability - Advanced Topics in Membrane Excitability
- \*Feb 26<sup>th</sup> OPEN
- Mar 4<sup>th</sup> **EXCITE Seminar:** Rich Lewis, PhD, Stanford U, Jeanne Nerbonne host, "Proteins in motion: the multiscale dynamics of store-operated calcium channels"
- \*Mar 11<sup>th</sup> Mark Rutherford PhD (Otolaryngology): Neuronal Excitotoxicity
- \*Mar 18<sup>th</sup> OPEN

- \*Mar 25<sup>th</sup> Martha Bagnall PhD (Neuroscience): In Vivo Neural Circuitry Analysis
- \*Apr 1<sup>st</sup> Yuriy Kirichok PhD (BMB): Excitability in Mitochondrial Membranes
- \*Apr 8<sup>th</sup> OPEN – rescheduled to 5.13.24
- Apr 15<sup>th</sup> **EXCITE Seminar:** Stephan Pless, Baron Chanda host
- \*Apr 22<sup>nd</sup> Fellowship/Grants discussion
- \*Apr 29<sup>th</sup> WIP/JC: Javier Abello / Susovan Roy Chowdhury
- May 6<sup>th</sup> **EXCITE Seminar:** Amber Stratman, Colin Nichols host
- \*May 13<sup>th</sup> WIP/JC: Jose Caros de Lima (Kirichok) / John Tranter (Sah)
- May 21<sup>st</sup> Koster Lecture and Research Day
- May 27 **Holiday**

\*lunch will be provided beginning at 12:45 pm.