THE CHINESE UNIVERSITY OF HONG KONG
Department of Physics &
School of Life Sciences
JOINT SEMINAR

Electrophysiology: Unplugged. Chemical Tools to Measure and Monitor Membrane Potentials in Living Cells

by

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Date: January 29, 2024 (Monday)
Time: 11:30 a.m. - 12:30 p.m.
Place: L4, Science Centre, CUHK

ALL INTERESTED ARE WELCOME
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Abstract

Cells spend a substantial portion of their energy budget to maintain an electrochemical potential difference across the plasma membrane. Optical methods to measure changes in cellular membrane potential provide a powerful complement to traditional, electrode-based methods by providing spatial resolution. My lab has been developing synthetic, voltage-sensitive fluorescent indicators that respond to changes in membrane potential via a photoinduced electron transfer mechanism. In this presentation, I will discuss my group's recent efforts to apply fluorescent indicators to living cells to interrogate cellular physiology.