



FASEB

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for Experimental Biology

Science
Research
Conferences

The Ion Channel Regulation Conference

Organizer Bio: Isabelle Deschenes, PhD

Professor and Chair, Department of Physiology and Cell Biology, The Ohio State University, Columbus, USA

Dr. Deschenes studies the fundamental molecules that underlie electrical function: ion channels and their accessory subunits. Since establishing her independent research program 17 years ago, her research has mainly focused on the molecular basis of cardiac arrhythmias which are rooted in defects in ion channels.

Dr. Deschenes' lab utilizes electrophysiological, biochemical, molecular, and imaging techniques to study the involvement of ion channels and their accessory subunits in inherited arrhythmias, known as cardiac channelopathies, which can lead to sudden cardiac death. Since her PhD training, she has had a keen interest in studying ion channels and channelopathy with her research evolving from studying newly identified mutations in channelopathies, such as Long QT or Brugada Syndrome, to investigating the incomplete penetrance in affected families.