



**Tuesday, February 22**  
**9:30 AM – 11:00 AM**  
**Esplanade, Room 157**  
**Sophion Bioscience A/S**

**Use of iPSC-Derived DRG Neurones on Sophion Bioscience Systems. Screening For Sodium Channel and K<sub>Ca</sub> Modulators and Positive Allosteric Modulators For GABA Channels. Development of Assays For Novel Targets on the Qube.**

Successful ion channel drug discovery requires the integration of multiple technologies and workflows. Sophion Bioscience is a leader in automated patch clamp technology, providing low, medium and high throughput patch clamp systems to the drug discovery industry and academia. The QPatch and Qube are fully automated patch clamp systems, executing simultaneous 16, 48 or 384 parallel patch clamp recordings in conjunction with computer controlled liquid handling and on-board cell handling. The QPatch Compact is a manual patch clamp system that can execute individual or simultaneous 8 patch clamp recordings. Sophion provides customers with robust, ion channel and electrophysiological workflows for drug development of ion channel targets. During this workshop, three industry speakers will provide insight into the use of these systems in the drug discovery process. Dr Daniel Sauter will present automated patch clamp data to show use of iPSC-derived neurons on Sophion Bioscience systems. Professor Heike Wulff will present data and discuss screening for sodium channel and K<sub>Ca</sub> modulators and positive allosteric modulators for GABA channels. Dr Adam Hyman will present data on novel lysosomal and mechanically activated ion channel targets on the Qube automated patch clamp platform.

**Speakers**

Adam Hyman, Senior Scientist, Charles River Laboratories  
Daniel Sauter, Scientific Sales Manager, Sophion Bioscience A/S  
Heike Wulff, University of California, Davis