IonLab/Sophion Workshop

“Towards Automated Patch-Clamp Electrophysiology of Immune Cells”

October 23, 2026 | NYU Langone Health, New York, NY

12:00-1:30 PM | Scientific Session

Short Research Presentations
Location: Smilow 601A, Conference Room
10-minute presentation + 2-minute Q&A

Dr. Murali Prakriya — “*CRAC Channel Electrophysiology: Principles and Practice*”

Dr. Zhaozhu Qiu — “*From VRAC to PAC: Discovery of Novel Chloride Channels*”

Dr. Bimal Desai — “*Ion channel TRPM7 in the Endolysosomal Physiology of Macrophages*”

Dr. Shivashankar Othy — “*Role of Calcium Signaling in T Cell Motility*”

Dr. Axel Concepcion — *“Current Limitations in the Biology and Pharmacology of Anion Channels and Transporters”*

IonLab and Sophion QPatch II Overview
30 minutes

Dr. Daniel Sauter, Dr. Soomin C. Song, & Dr. Pietro Scaduto

Overview of IonLab and its research program

Introduction to the Sophion QPatch II automated patch-clamp platform

Applications of automated patch-clamp electrophysiology in immune-cell research

1:30-2:00 PM | Lunch (& Informal Discussions)

Location: Smilow 601A, Conference Room

2:00-4:00 PM | Hands-On Session

Practical Experience with the Sophion QPatch II Automated Patch-Clamp System
Location: Smilow 603, IonLab

Demonstration of the QPatch II platform in the IonLab

Experimental workflow and applications

Discussion of potential applications to immune-cell electrophysiology

4:00-5:30 PM | Discussion Session

Informal Discussion on Experimental Approaches, Collaborations, and Future Directions
Location: Smilow 601A, Conference Room

Workshop Participants

Selected Workshop Attendees
Ingo Koomoa-Lange
Ana Laura Lopez Serrano
Amedee des Georges
Henrique Borges da Silva
Dirk Trauner
Kalai Mangai Muthukumarasamy

Invited Speakers
Murali Prakriya
Zhaozhu Qiu
Bimal Desai
Shivashankar Othy
Axel Concepcion

Sophion Team
Pietro Scaduto
Daniel Sauter

NYULH & IonLab Team
Stefan Feske
Sooming Song
Xianming Lin
Marta Maltese