

Nanion User Meeting 2023

October 24-25th. Munich, Germany

Tuesday, October 24th

Time	Activity
11:30 - 12:55 h	Lunch and Registration
13:00 h	"What is new at Nanion? Niels Fertig (CEO, Nanion Technologies)
13:10 h	"Ion Channel Research: Quo Vadis" Artem Kondratskyi (Nanion Technologies)
13:20 - 14:35 h	Session 1: (B)old and New Tools for Drug Discovery Chairperson: Marc Rogers
13:20 h	"Killing dynamics of human cytotoxic CD8 T cells" Michael Dudek (Technical University Munich)
13:40 h	"Using the Port-a-Patch to assess the efficacy of a bacteria-based oral drug delivery for the treatment of autoimmune diseases" Christine Beeton (Baylor College of Medicine)
14:10 h	"Developing new therapies targeting P2X receptors" Samuel Fountain (University of East Anglia, United Kingdom)
14:35 - 15:50 h	Extended coffee break: Demos & SyncroPatch 384 workshop
15:50 - 17:25 h	Session 2: Advances in cardiovascular research and stem cells Chairperson: Will Seibert
15:50 h	"PIEZO1 force sensing ion channel" David Beech (University of Leeds)
16:15 h	"My first time with Patchliner: from mexiletine selectivity to human myofiber precursors biophysical characterization" Alessandro Cerchiara (University of Bari)
16:35 h	"Optical pacing and machine learning for improved electrophysiological characterization of human iPSC cardiomyocyte disease models using CardioExcyte96" Björn Knollmann (Vanderbilt University)
17:00 - 17:10 h	Short bio break
17:10 h	"Overcoming cardiac risk related obstacles with cell monitoring technologies" Bettina Lickiss (innoVitro)
17:25 h	"Enlightening mechanisms of cardiac arrhythmias using iPSC-derived cardiomyocytes" Niels Voigt (University Medical Center Göttingen)
17:50 - 18:45 h	Poster session and beer
19:00 h	Nanion User Meeting Dinner

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Wednesday, October 25th

Time	Activity
09:00 - 10:20 h	Session 3: Automated Patch Clamp at its best Chairperson: Markus Rapedius
09:00 h	"A multi-platform approach for TMEM175 drug discovery" David Dalrymple (SB Drug Discovery)
09:20 h	"Osteoarthritis Pain: Can Biopolymer Therapeutics Be the Answer?" Sahar Avazzadeh (Relevium Medical)
09:40 h	"Drug screening reveals inhibitors of sodium channels and their variants" Ralf Hausmann (RWTH Aachen)
10:00 h	"Beyond the Limits: There is a Channel in every challenge" Riccardo Rizzetto (Axxam SpA)
10:20 - 10:55 h	Coffee and nibbles
10:55 - 12:15 h	Session 4: Membrane Transporters Chairperson: Cecilia George
10:55 h	"Dissecting the charge movements during adenine nucleotide exchange by the mitochondrial ADP/ATP carrier" Edmund Kunji (University of Cambridge)
11:15 h	"Functional characterization of human GAT1 through solid supported membrane-based electrophysiology " Rocco Zerlotti (Nanion Technologies)
11:35 h	"High-Throughput Screening strategies for electrogenic SLC transporters" Adam Hyman (GSK)
11:55 h	"The development and application of high-content SSM-based electrophysiology assays in drug discovery using the Nanion SURFE ² R technology for the measurement of electrogenic transporters." Felix Baerenz (Sanofi)
12:15 - 13:30 h	Lunch
13:30 - 14:40 h	Session 5: Small yet powerful: mini devices, big results Chairperson: Conrad Weichbrodt
13:30 h	"Molecular basis of TREK K2P channel gating - new insights from an integrated approach" Marcus Schewe (Kiel University)
13:50 h	"Single-molecule detection of protein post-translational modifications with a biological nanopore" Juan Francisco Bada (EPFL)
14:10 h	"RNA Origami Nanopores spanning lipid membranes" Alessandra Griffo (MPI for Medical Research)
14:30 h	Closing remarks Ali Obergrussberger
14:40 h	Coffee, nibbles and departure