

Measure More Membrane: HTS Compatible Giga-Seal Patch Clamp, Cardiomyocytes and Artificial Bilayers

Sunday, July 19, 2015, 14:00 – 14:30

Hall 2

Dr. Ekaterina Zaitseva

Dr. Gerhard Baaken

Nanon Technologies is an innovative German-based company providing high quality devices for ion channel research and drug discovery. It is one of the leading providers of automated patch clamp systems, offering a diverse product portfolio covering a broad experimental range from single channel recordings to HTS-compatible ion channel screening from up to 768 cells in parallel.

The company has become known for its high quality instruments for ion channel research (Port-a-Patch, Patchliner and SyncroPatch product families) and has over the years expanded its product range to include cardiotoxicity screening (CardioExcyte 96), parallel bilayer recordings (Orbit 16 & Orbit mini), and parallel membrane transporter protein recordings (SURFE2R).

The main focus in this talk will be on the *Orbit 16* which is a parallel device for efficient formation of and recordings from up to 16 lipid bilayers at once, for parallel bilayer-reconstitution of ion channels and nanopores. Using Micro Electrode Cavity Array (MECA, IonerA), a 4 x 4 array of circular micro-cavities in a highly inert polymer, the bilayers are automatically formed by remotely actuated painting (IonerA- SPREAD), which all will be demonstrated during the session.

Join this presentation and see how these outstanding platforms can add up to your work:

SyncroPatch 384/768PE, Patchliner, CardioExcyte 96, Port-a-Patch and in detail **Orbit 16!**

We look forward to seeing you!