

Innovation and Applications of High-Content Electrophysiology | MxW Workshop – Antwerp 2026

Thursday, July 16

9:00 - 10:00	Registration and Welcome Coffee	
10:00 - 10:10	Opening Remarks	
10:10 - 10:35	Scientific Talk	From Sparse to Dense: MEA Resolution in iPSC-Derived Neuronal Network Analysis Dr. Marina Hommersom Nael Nadif Kasri Lab, Radboud University, The Netherlands
10:35 - 11:00	Scientific Talk	From Dish to Brain: Translating MEA Network Dynamics into Clinical Insight Dr. Nina Doorn ETH Zürich, Switzerland
11:00 - 11:20	Company Talk	From Activity to Insight: Functional Phenotyping with HD-MEAs Giulio Zorzi MaxWell Biosystems, Switzerland
11:20 - 11:50	Morning Coffee Break	
11:50 - 12:15	Scientific Talk	Development of Human Relevant Brain Models to Study in Vitro Neurodegeneration Dr. Karan Ahuja KU Leuven, Belgium
12:15 - 12:40	Scientific Talk	Electrophysiological Mapping of Human Striatal Microcircuits Enables Parkinson's Disease Stratification Dr. Carles Calatayud Aristoy Patrick Verstreken Lab, VIB-KU Leuven, Belgium
12:40 - 13:00	Method Discussion	MEA Tips & Tricks: A Practical Focus on MEA Applications Through an ASO Case Study Dr. Marcus Kaji VIB, Belgium
13:00 - 14:30	Lunch Break and Poster Session	
14:30 - 14:35	Company Talk	Scalable iPSC-derived neural models for HD-MEA and New Approach Methodologies (NAMs) Dr. Sebastian Fielder Bit Bio, United Kingdom
14:35 - 15:00	Scientific Talk	Linking TMEM106B lysosomal function to synaptic dysfunction through ER-lysosomal contacts Miranda Lastra Osua Rosa Rademakers Lab, VIB-UAntwerp, Belgium
15:00 - 15:25	Scientific Talk	HD-MEA Applications in Pharmacological Research - Three Representative Studies Dr. Lidia Carotenuto VIB, Belgium
15:25 - 15:50	Scientific Talk	TBD Nina Dirckx VIB, Belgium
15:50 - 15:55	Closing Remarks	
16:00 - 17:30	Cocktail Hour	