

Tuesday May 16 | Morning Session

8:00 - 10:00	Exclusive to MxW Users	MxW Users Exclusive Session
8:30 - 10:00	Open to all	MxW HD-MEA Interactive Workshop
10:00 - 10:30	Coffee Break	
Advanced Electrophysiology Methods		
10:30 - 10:35	Opening Remarks	Dr. Zhuoliang (Ed) Li MaxWell Biosystems, Switzerland
10:35 - 11:05	Scientific Talk	Effects of mGluR1 gain-of-function mutation on cerebellar and hippocampal circuits Prof. Dr. Edward O. Mann Mann Group, University of Oxford, United Kingdom
11:05 - 11:20	Short Talk	NDD-Ephys-dB: A human neurodevelopmental disorder electrophysiology database Prof. Dr. James Ellis Ellis Lab, The Hospital for Sick Children, Canada
11:20 - 11:35	Short Talk	Probing the synaptic basis of spiking using parallel HD-MEA and patch-clamp recordings Dr. Julian Bartram Bio Engineering Laboratory, ETH Zurich, Switzerland
11:35 - 11:55	Roundtable	Session Chair Dr. Zhuoliang (Ed) Li Panelists Prof. Dr. Edward O. Mann , Prof. Dr. James Ellis , and Dr. Julian Bartram
11:55 - 12:00	Closing Remarks	Dr. Zhuoliang (Ed) Li MaxWell Biosystems, Switzerland
12:00 - 13:00	Lunch	

Tuesday May 16 | Afternoon Session

13:00 - 14:00	Poster Session	
Disease Modeling & Drug Discovery		
14:00 - 14:05	Opening Remarks	Dr. Praveena Manogaran MaxWell Biosystems, Switzerland
14:05 - 14:35	Scientific Talk	Development of an iPSC derived 2D triculture MEA functional model for drug discovery in Neurodegeneration Dr. Melisa Ho and Dr. Dongyu (Doria) Wei GSK, USA
14:35 - 14:50	Short Talk Selected from Abstracts	Validation of novel targeted therapy for KCNQ2-related disorders in iPSC-derived neuronal model using high-density MEA Nina Dirx Peter De Jonghe Lab, VIB Center for Molecular Neurology Antwerp, Belgium
14:50 - 15:20	Sponsored Talk	Expanding Application of HD-MEA across 2D and 3D-cultured iPSC-derived iCell® Neuronal Cell Types Dr. Ouissame Mnie Filali FUJIFILM Cellular Dynamics Inc. (FCDI), Netherlands
15:20 - 15:50	Coffee Break	
15:50 - 16:20	Scientific Talk	Modelling NR2F1 deficiency in human brain organoids Dr. Michele Bertacchi Studer Lab, Institut de Biologie Valrose (iBV), France
16:20 - 16:50	Scientific Talk	A human in vitro model of the ischemic penumbra Prof. Dr. Monica Frega Frega Lab, University of Twente, Netherlands
16:50 - 17:05	Short Talk Selected from Abstracts	An <i>in-vitro</i> patient-specific sensory neuron model of pain for drug discovery Dr. Rowan Taylor Human Centric Drug Discovery, United Kingdom
17:05 - 17:20	Short Talk Selected from Abstracts	Modeling Dravet syndrome using human neurons plated on high-density multielectrode arrays Dr. Matt Kelley Pfizer, USA
17:20 - 18:00	Roundtable	Session Chair Dr. Praveena Manogaran Panelists Dr. Melisa Ho , Nina Dirx , Dr. Ouissame Mnie Filali , Dr. Michele Bertacchi , Prof. Dr. Monica Frega , Dr. Antigoni Katsikoudi , and Dr. Matt Kelley
18:00 - 18:05	Closing Remarks	Dr. Praveena Manogaran MaxWell Biosystems, Switzerland
18:05 - 19:00	Break / Transportation	
19:00 - 22:00	Conference Dinner	