

MaxWell User Meeting 2021

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mw User Meeting 2021

*Every Cell Has A Story To Tell – Everyone
Has An Experience To Share*

In-Vitro 2D & 3D Neuronal Networks Summit (MaxWell User Meeting)

Every Cell Has A Story To Tell – Everyone

We are excited to announce that we are organizing the first Maxwell Biosystems User Meeting this April!

This interactive virtual event is open to everyone interested in Neuroscience, Cell Biology and Bioengineering! We prepared an exciting scientific program, with very interesting speakers, covering a wide range of topics, from iPSC-derived neurons to retinal and brain organoids. Whether you are an expert in microelectrode array technology, a newcomer in the field, or just wondering what the technology can be used for, there will be something for you to learn. We want to **bring scientists from all over the world together and foster scientific exchange and collaboration.**

The event will take place over two days: the first day will be **open to everybody** and the second day is **exclusive for MaxWell users**. Join us and connect with scientists in the field of in-vitro 2D and 3D neuronal networks worldwide!

When?

Thursday, **April 22, 2021** – Friday, **April 23, 2021**

Replays

Registration is now closed. If you would like to watch the replays, please follow this [link](#).

Confirmed speakers



Program (CET time)

Day 1 – Open to all

Morning **9:00 - 11:35 (CEST) | 16:00 - 18:35 (JST) | 3:00 - 5:35 (EDT) | 0:00 - 2:35 (PDT)**

09:00 – 09:05 **Dr. Marie Obien**, VP Marketing & Sales at MaxWell Biosystems, Host of the Meeting
– *Opening Remarks*

09:05 – 09:15 **Dr. Urs Frey**, CEO of MaxWell Biosystems
– *Welcome Address*

09:15 – 09:45 **Dr. Kenta Shimba**, Prof. Yasuhiko Jimbo Lab, University of Tokyo, Japan
– *Studying Axon Conduction with conventional and High-Density MEAs*

09:45 – 10:15 **Prof. Nael Nadif Kasri**, Radboud University Medical Centre,
– Department of Human Genetics, Donders Institute for Brain, Cognition
 and Behaviour, Netherlands

Combined Micro-electrode Array Recordings with Transcriptomics of Human-derived Neurons to Unveil Mechanisms Underlying Neurodevelopmental Disorders

10:15 – 10:30	Coffee Break
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10:30 – 11:00	Prof. Andreas Hierlemann , Bio Engineering Laboratory, D-BSSE. ETH Zurich, Switzerland <i>Development of HD-MEAs and Applications</i>
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11:00 – 11:30	Panel Discussion Invited Panelists are Dr. Kenta Shimba, Prof. Nael Nadif Kasri, Dr. Bruno Buisson, Dr. Silvia Ronchi and Dr. Carsten Pfeffer <i>Functional Characterization of Human iPSC-derived Neurons - Technologies and Challenges</i>
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11:30 – 11:35	Closing Remarks
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Afternoon	15:30 - 18:35 (CEST) 22:30 - 01:35 (JST) 9:30 - 12:35 (EDT) 6:30 - 9:35 (PDT)
15:30 – 15:35	Dr. Marie Obien , VP Marketing & Sales at MaxWell Biosystems, Host of the Meeting <i>Opening Remarks</i>
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15:35 – 15:45	Dr. Urs Frey , CEO of MaxWell Biosystems <i>Welcome Address</i>
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15:45 – 16:15	Martina de Gennaro , Group of Prof. Botond Roska, Institute of Molecular and Clinical Ophthalmology Basel, University of Basel, Switzerland <i>Morphological, Functional, Transcriptomic Correlation of Retinal Organoids to the Human Retina</i>
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16:15 – 16:45	Ana Rita Gomes , Group of Prof. Joaquim M. Sampaio Cabral, Department of Bioengineering and IBB and Associate Laboratory i4HB, Instituto Superior Técnico, University of Lisbon, Portugal <i>Modelling Rett Syndrome with Human Patient-Specific Forebrain Organoids</i>
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16:45 – 17:00	Coffee Break
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- 17:00 – 17:30 **Dr. Silvia Benito-Kwiecinski**, Group of Prof. Madeline Lancaster,
– MRC Laboratory of Molecular Biology, Cambridge Biomedical Campus, England
An Early Cell Shape Transition Drives Evolutionary Expansion of the Human Forebrain
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- 17:30 – 18:00 **Prof. Kenneth Kosik**, Neurobiology Lab, UC Santa Barbara, USA
– *Intrinsic Network Activity in Human Brain Organoids*
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- 18:00 – 18:30 **Panel Discussion**
– Invited Panelists are Martina de Gennaro, Ana Rita Gomes, Dr. Silvia Benito-Kwiecinski,
Prof. Kenneth Kosik, Dr. Tal Sharf
Current Advancements in Brain Organoid / Spheroid Research and Applications
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- 18:30 – 18:35 **Closing Remarks**
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Day 2 – Exclusive to MaxWell Users

Morning

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- 09:00 - 09:05 – **Dr. Marie Obien**, VP Marketing & Sales at MaxWell Biosystems, Host of the Meeting
Opening Remarks
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- 09:05 – 09:40 – **Dr. Urs Frey**, CEO of MaxWell Biosystems
Dr. Marie Obien, VP Marketing & Sales at MaxWell Biosystems
MaxWell Biosystems Presentation
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- 09:40 – 10:25 – **Panel Discussion**
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- 10:25 – 10:55 – **Dr. Mojtaba Bandarabadi**, Prof. Mehdi Tafti Lab, University of Lausanne, Switzerland
In-vitro Generation of Sleep Spindles and Slow Waves Using Thalamo-Cortical co-cultures
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- 10:55 – 11:40 – **“Tips & Tricks” Discussion**
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- 11:40 – 11:50 – **Closing Remarks**
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- 11:50 – 12:30 – **Networking Session**
Breakout Rooms

Afternoon

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- 16:00 - 16:05 – **Dr. Marie Obien**, VP Marketing & Sales at MaxWell Biosystems, Host of the Meeting
Opening Remarks
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- 16:05 - 16:20 – **Dr. Urs Frey**, CEO of MaxWell Biosystems
Summary of MaxWell Biosystems Presentation
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- 16:20 – 16:40 – **Q&A Session**
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- 16:40 – 17:15 – **Showcase**
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- 17:15 – 17:45 – **Dr. Pierre Yger**, Institut de la Vision, France
Spyking Circus - Fast and accurate spike sorting for thousands of channels
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- 17:45 – 18:15 – **“Tips & Tricks” Session**
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- 18:15 – 18:30 – **Closing Remarks**
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- 18:30 – 19:10 – **Networking Session**
Breakout Rooms