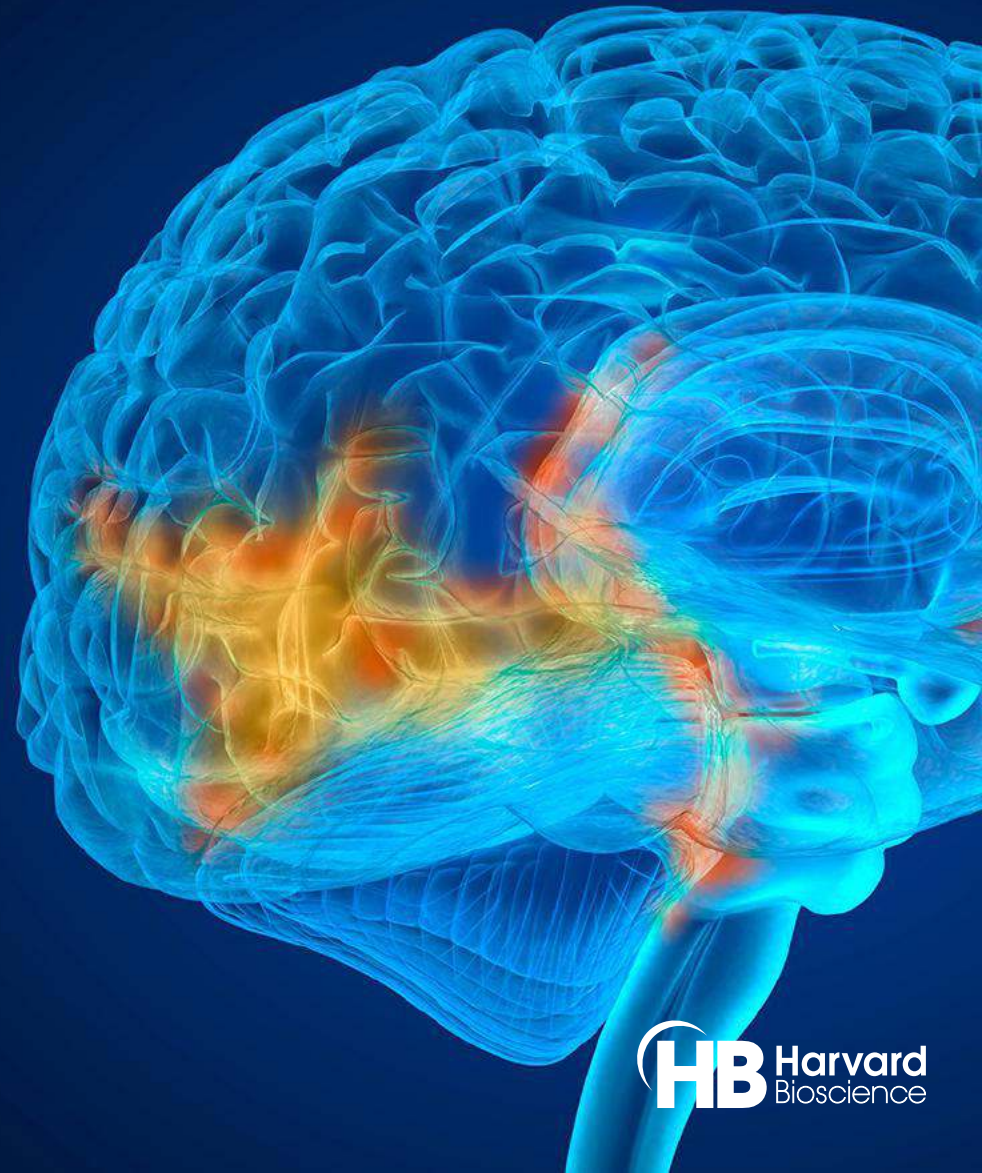


Society for Neuroscience 2021

Microelectrode Array (MEA)

November, 2021



Stronger. Together.



Pre-clinical solutions



Panlab



Cellular solutions



Molecular solutions



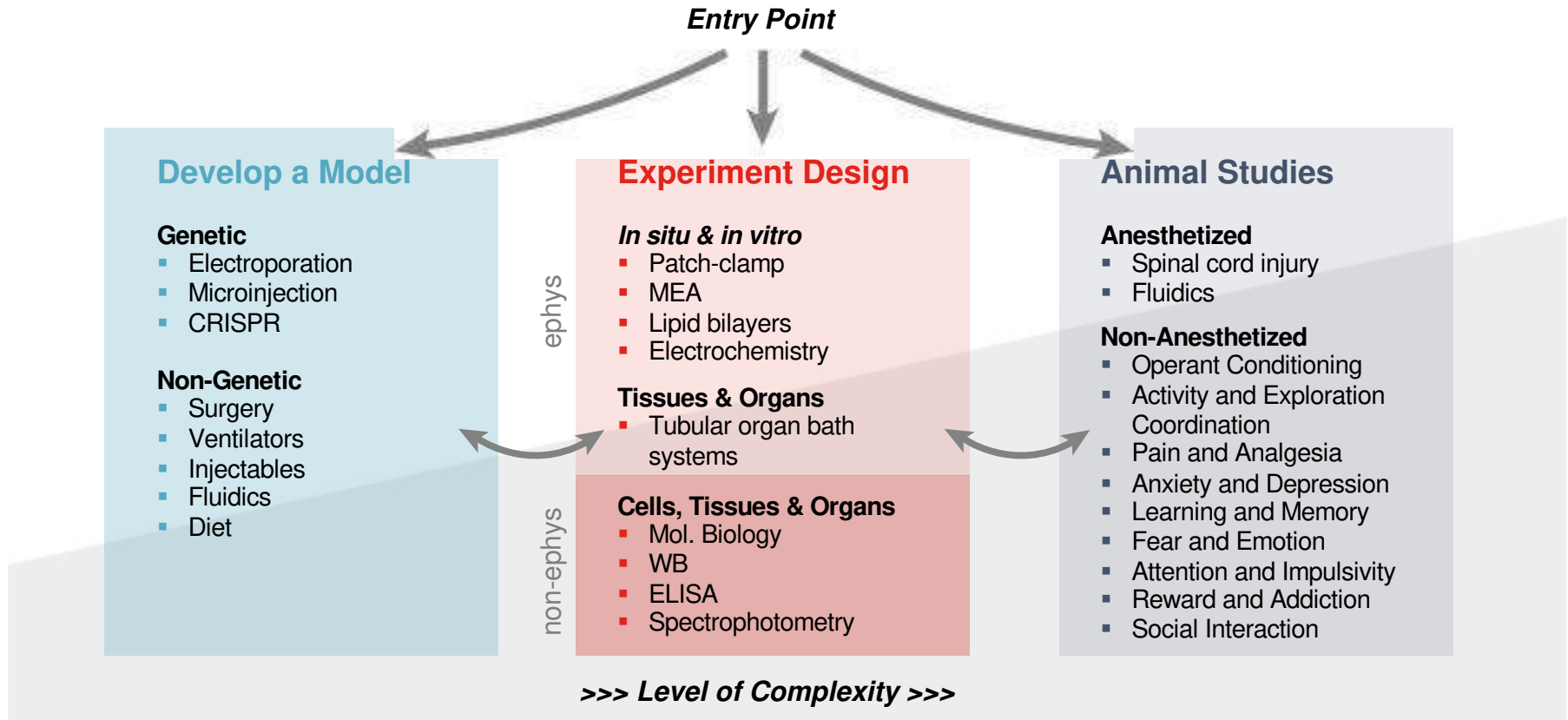
Support solutions



Powered by Harvard Bioscience, Inc.



Neuroscience Research



- HA Ventilators & pumps • BTX Electroporators • Warner Microinjectors • HEKA Patch-clamp • MCS MEA Systems •
- HSE Isolated Organ • Hofer & SciePlas WB • Biochrom AAA • DSI Telemetry • Panlab & Coulbourn Behavior •

Microelectrode Array (MEA)

Multi-site Extracellular Electrophysiology



Researchers typically require	How we support you
Flexibility	Modular Amplifier Suite for multiple applications
Reliability	Durable hardware, robust firmware, and intuitive software design
Precision	Best data resolution and bandwidth at excellent signal-to-noise ratio

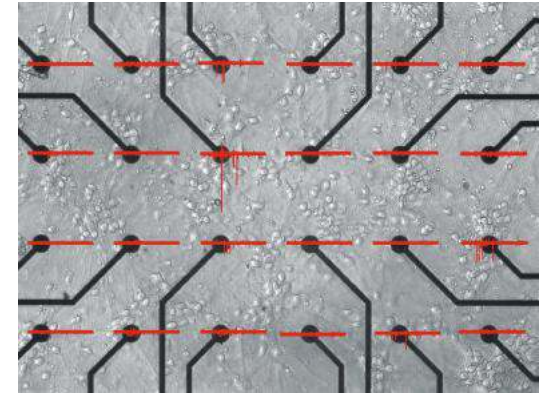
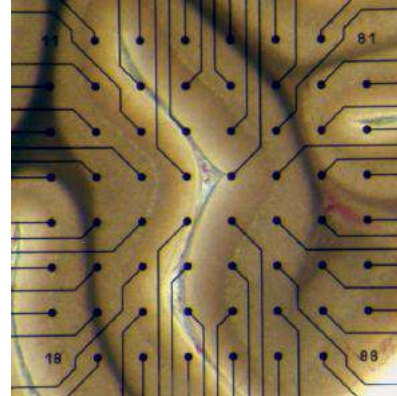
multichannel*
systems

Microelectrode Array (MEA)

For neuroscience in vitro or in vivo



- Largest choice of transparent microelectrode array layouts
- Modular and flexible amplifier suite for multiple applications
- 25+ years experience in signal amplification and processing



Microelectrode Array (MEA)

High-resolution and Increased Throughput Extracellular Electrophysiology



“In our hands the CMOS-MEA5000-System worked reliably since its introduction into market. The CMOS MEA chips themselves are robust, when treated with care. Three students completed their PhDs using the system (in combination with photo stimulation) and all of them published first-author papers.”

– *Univ. Prof. Dr. rer. nat. Günther Zeck* previously Head of the Research Group “Neurophysics” at *NMI* and currently Professor of Biomedical Electronics and Systems at the Faculty of Electrical Engineering and Information Technology, *Technical University of Vienna*



“The Multiwell-MEA system delivered the robust, reproducible and statistically-driven multiplexed readouts critical to our neurodevelopmental and neurodegenerative research. I recommend this system for any lab involved with electrophysiology studies requiring high throughput.”

– *Samie Patel, PhD*, previously a doctoral student at the *Stem Cell Institute Leuven (SCIL)*, and currently a Postdoctoral Researcher at the *Geschwind Lab, University of California Los Angeles*

Microelectrode Array (MEA)

Basic Research for Neuronal Applications and Working with MCS



“Our [Multi Channel System] MEA recording functionality is excellent. The system always works, we never have issues with the recordings and we do a lot of stuff with it.”

– *Timothée Levi, Associate Professor, University of Bordeaux, Bordeaux, France, IMS Lab member since 2010*



“I have had quite a good experience working with MCS since 2007 on a number of different publicly funded projects. They are very friendly, very helpful with troubleshooting and responsive as our research often requires equipment modifications...Overall our interaction is pretty neat.”

– *Dr. Udo Kraushaar, Group Leader Electrophysiology, NMI Natural and Medical Sciences Institute at the University of Tübingen*

Why Harvard Bioscience?



Do you experience these challenges?	How Harvard Bioscience supports you
Inefficiencies due to multiple vendor transactions	Harvard Bioscience delivers a full suite of solutions to tackle your needs and minimize your headaches
Disconnect between adjacent labs	With scientists on staff, we are uniquely positioned to understand the requirements of all your labs, and construct a proposal that ensures the solutions for one lab appropriately feed the results of the others
“We don’t know what we don’t know.”	Experienced representatives can conduct an assessment to help you determine the solutions that are right for you
Inefficiencies with grant proposal applications	A trusted and reputable partner, Harvard Bioscience can provide expertise to support your grant proposal submissions



Microelectrode Array (MEA)



For more information on our Microelectrode Array (MEA) products:
www.multichannelsystems.com

