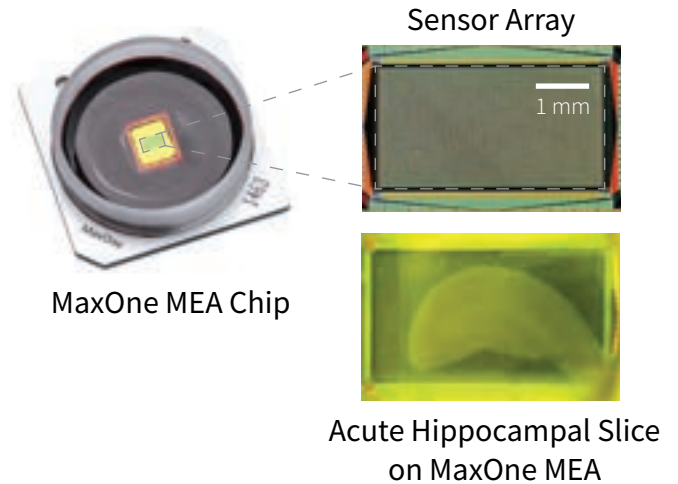
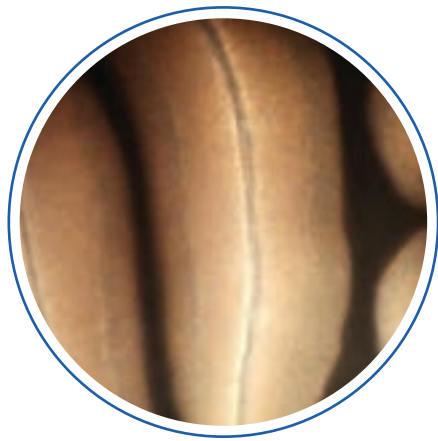


MaxOne for Brain Slice Studies



MaxOne, a high-resolution microelectrode array (MEA) system, is best suited for label-free analysis of intact brain networks *in vitro*.

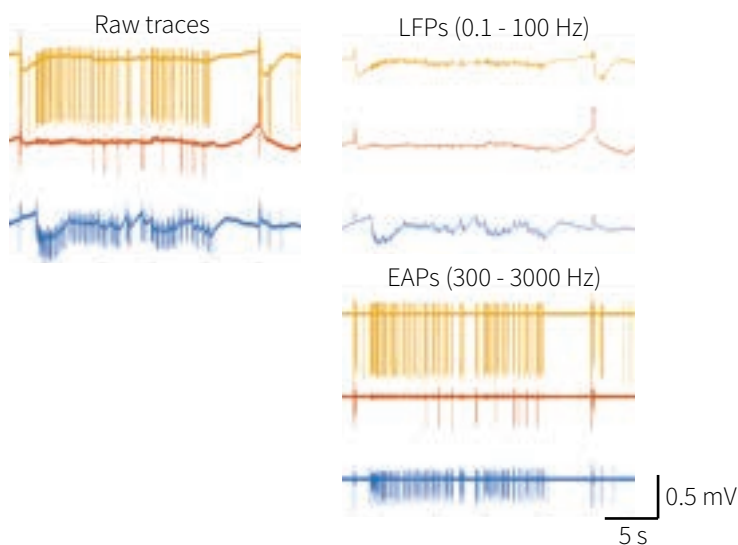
- ⚡ Acute brain slices
- ⚡ Organotypic brain slice cultures and organoids
- ⚡ Ex-vivo brain preparation (e.g., eye-brain from turtles)

MaxOne's large sensor array at high-resolution enables recording of every active cell across multiple areas of any biological sample.

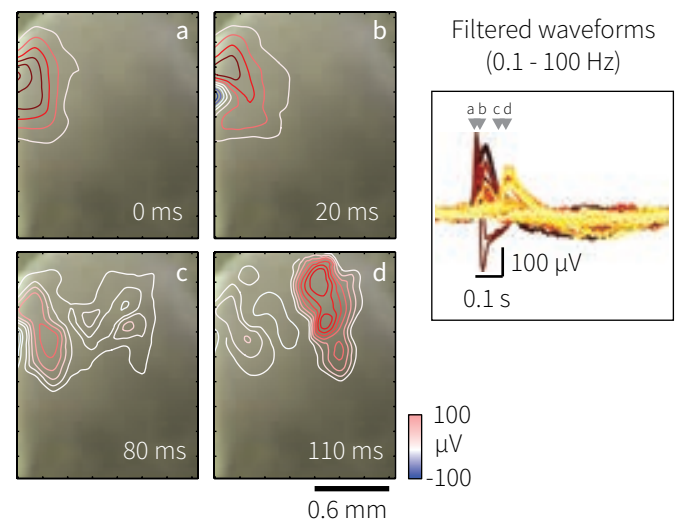
- ⚡ 26,400 electrodes
- ⚡ 8 mm² sensor area
- ⚡ 3,265 els. per mm²
- ⚡ Low noise (2.4 μV_{rms})
- ⚡ 20 kHz sampling rate
- ⚡ Up to 78 dB amp. gain

Capture Single Neuron and Network-Wide Field Potentials

Local Field Potentials (LFPs) and Extracellular Action Potentials (EAPs)



Propagating Slow Field Potentials in an Acute Cortical Slice



Record high quality signals from active neurons on the MEA.

MaxOne enables recording of neuronal activity across multiple scales at high spatio-temporal resolution.

- ⚡ Both local field potentials and spikes from intact brain networks can be detected simultaneously.
- ⚡ Low noise signals facilitate the extraction of neuronal activity features from experiments.
- ⚡ Propagating field potentials across brain areas can be captured and analyzed.