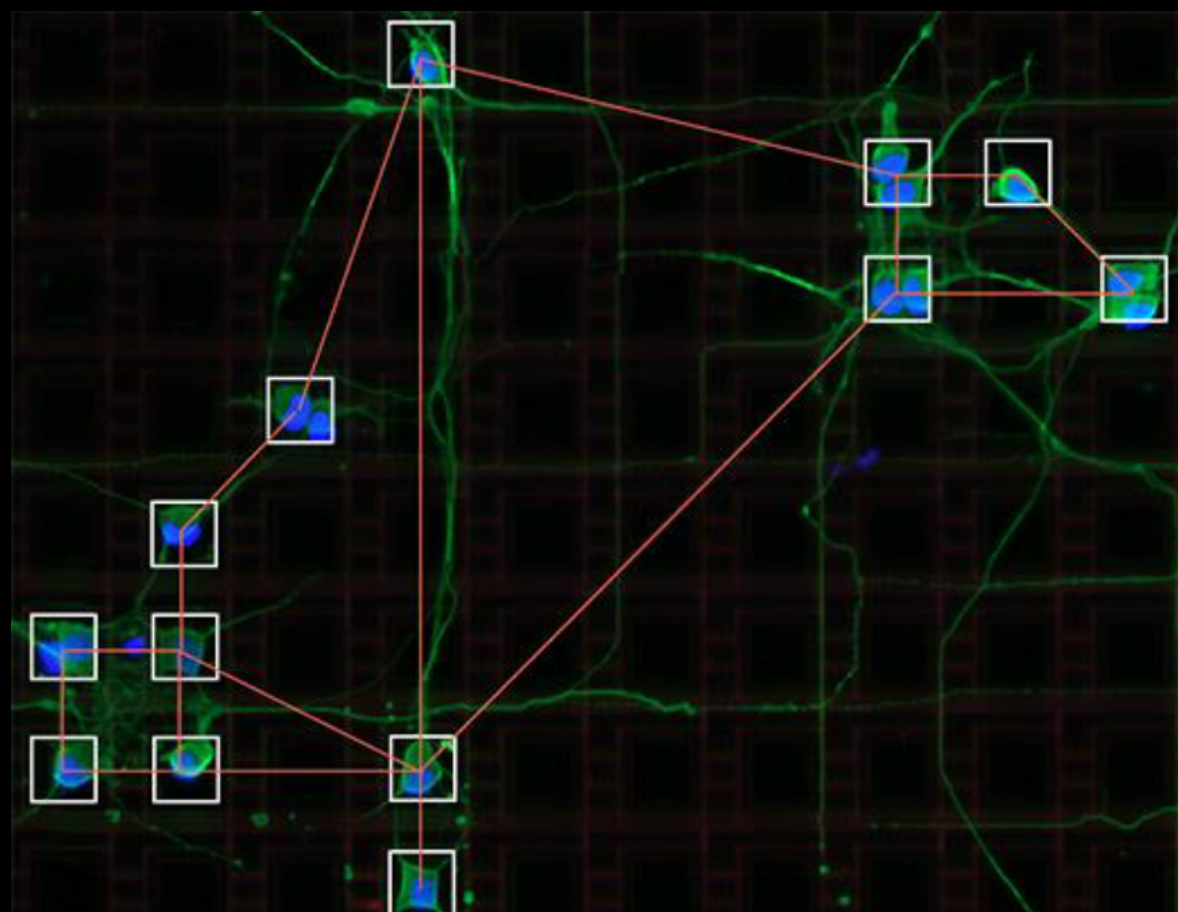


MEA technologies - New perspectives in Neuroscience

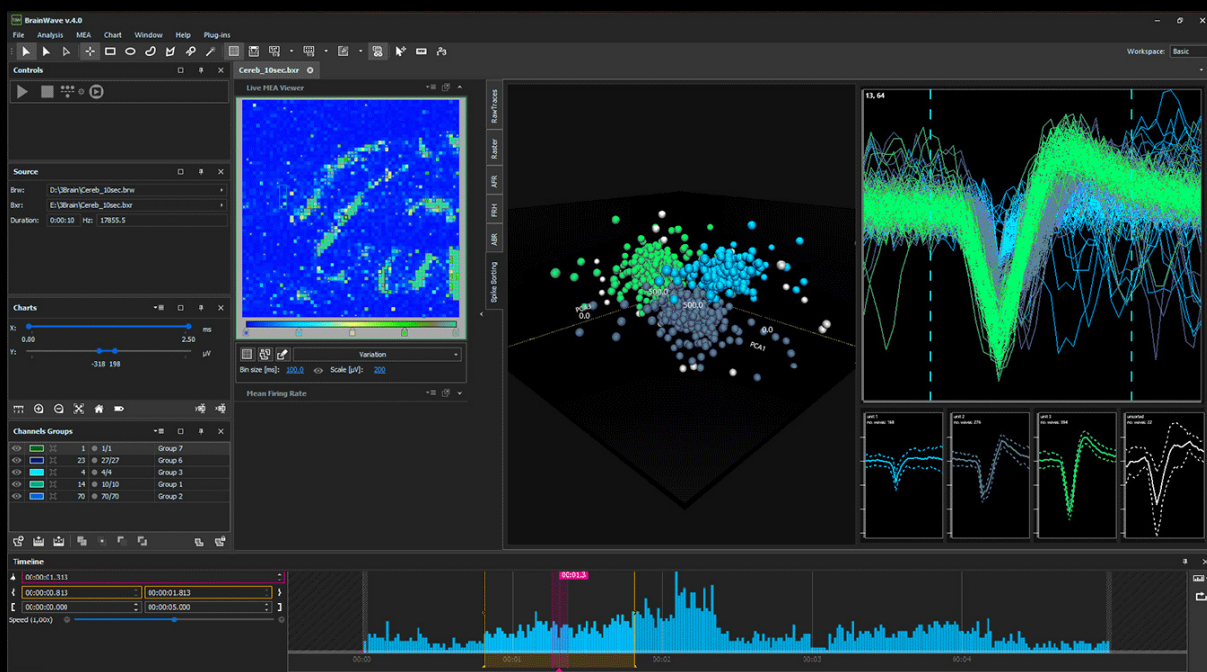
[26th of April 2022 at 15.00 in the "Aula-A- Molini Marzoli"](#)



Multi-electrode arrays (MEA) are extensively used in neuroscience to investigate neuronal networks. Whether neurons, cardiac cells, organoids or human stem cells, MEA technology opens new possibilities by enabling functional imaging assays, identifying network functional and dysfunctional states, and precise evaluation of pharmacological responses. Recent advancements are also opening up intriguingly new perspectives.



The evolution of the MEA technology originated from a few passive electrodes to the now new CMOS-based MEAs, integrated with thousands of electrodes. This current device will be presented together with its use in neuroscience and its potential to shed new light on neuronal network physiology and pathology research.



Moreover, 3Brain's team will show their unique CorePlate™ technology. An advanced MEA approach that integrates a semiconductor processing core, namely a BioSPU (BioSignal Processing Unit) with the standard plastic dishes.

This seminar can also be followed remotely : <https://bit.ly/NewPerspectivesNeuroscience>

