

The Center for Microelectrode Technology Electrode Service Center now has sufficient production capacity to sell our ceramic-based microelectrode arrays (MEAs) to anyone wishing to purchase them for use in any electrochemical or electrophysiological recording system.

While initially designed for ultra-low current ( $\mu\text{A}$ ) range electrochemical measurements these MEAs have been successfully used for measuring field potentials and single unit recording of neural activity in several studies (References below).

Our biomorphic array technology has been successfully employed by users of the FAST system (Quanteon LLC) for directly measuring low levels of tonic or phasic release of neurotransmitters (e.g. glutamate) and metabolic molecules (e.g. glucose) in the CNS and other biological systems.

We have had numerous requests to expand the availability of our MEAs for not only the technique of electrochemical detection but for electrophysiological single-unit or multi-unit recordings.

Performance, function and adaptability of these MEAs cannot be guaranteed for use other than in combination with the FAST recording systems. Buyer accepts all risk and responsibilities in purchasing these MEAs.

#### References –

##### Field potentials

- Dash et al., Journal of Neuroscience. 29,3, 2009
- Zhang et al., Journal of Neuroscience Methods. 179, 2009

##### Neural activity recordings

- Opris et al., Journal of Cognitive Neuroscience. 23, 6, 2011
- Opris et al., Frontiers in Neural Circuits. 6, 88, 2012
- Hampson et al., Journal of Neural Engineering. 9, 2012

