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Results

Simulations

 $D = D = \frac{1}{2}$ $D = \frac{1}{2}$



F. e E 4

Recording with bMEA and cMEA under optical excitation. Voltage response vs. time of optogenetically-transfected HEK-293 cells for the bMEA (upper) and cMEA (lower) devices in sensing regions at indicated distances d from backside-illuminated (0.5 s duration, shaded regions) stimulation location (d = 0). Large extracellular potentials were evident at the site of stimulation and nearby electrodes in the bMEA but only at the site of stimulation on the cMEA. All windows correspond to 1.5 s recordings.





Funding

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Conflict of interest

Publisher's note

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