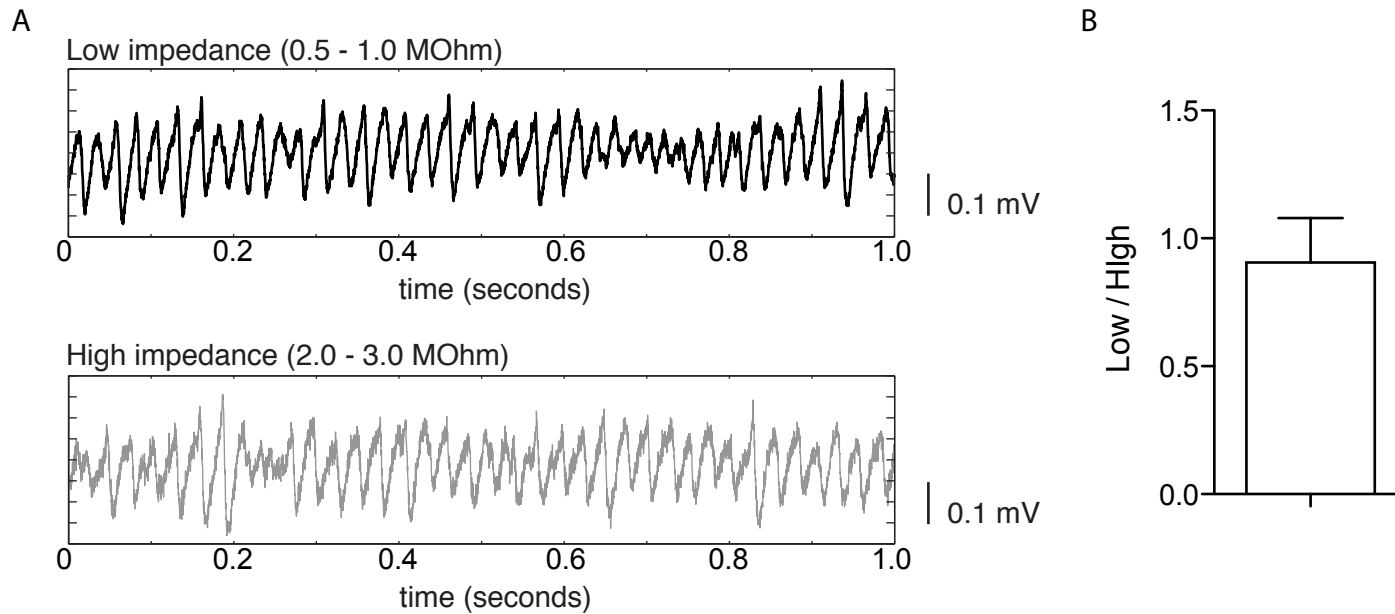


Supplementary Figure 1:



A) Electrode impedance: kainate induced gamma oscillation recordings were performed with low- and high-impedance electrodes and gamma power was analyzed. B) Ratio of gamma power measured by low-impedance / high-impedance electrodes was 0.9060 ± 0.1732 , with a $p = 0.41$ when compared to a ratio of low-impedance / high-impedance of 1.0. There was no statistically significant difference in the measured gamma power between the electrodes of different impedances (low-impedance: 0.5-1.0 MOhm and high-impedance: 2.0-3.0 MOhm).