Crosby Lab Code

by

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Action Potential (AP) Analysis

AP Frequency t-test

Shapiro test

Wilcoxon Test

Summary plot

Individual plots

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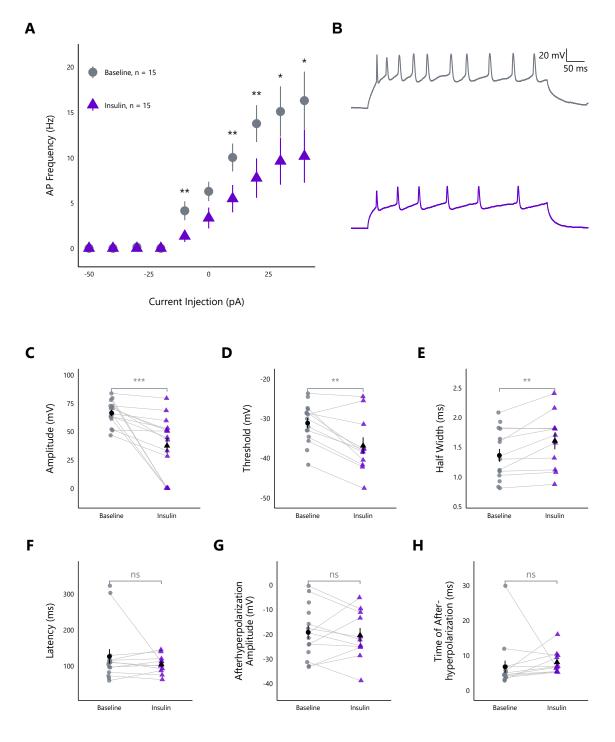


Figure I: Insulin decreases the excitability of DMH neurons. Data were recorded before and then after 25 minutes of insulin exposure. A) Insulin significantly decreases action potential frequency (mean \pm SE; n is the number of cells). B) Representative traces from a current injection of 40 pA (top: baseline, bottom: insulin). C) Insulin significantly decreases action potential amplitudes C) and thresholds D, while significantly increasing half-widths E). Insulin does not significantly affect latency to fire F), after-hyperpolarization amplitude G) or after-hyperpolarization time H). Overlay on Figures C-H: mean \pm SE. n = 15 for baseline and n = 11 for insulin because 4 cells did not fire any action potentials after insulin exposure. Wilcoxon signed-rank test, *=p < 0.05, **=p < 0.001.

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