Pregabalin modulation of neurotransmitter release is mediated by change in intrinsic activation/inactivation properties of CaV2.1 calcium channels.

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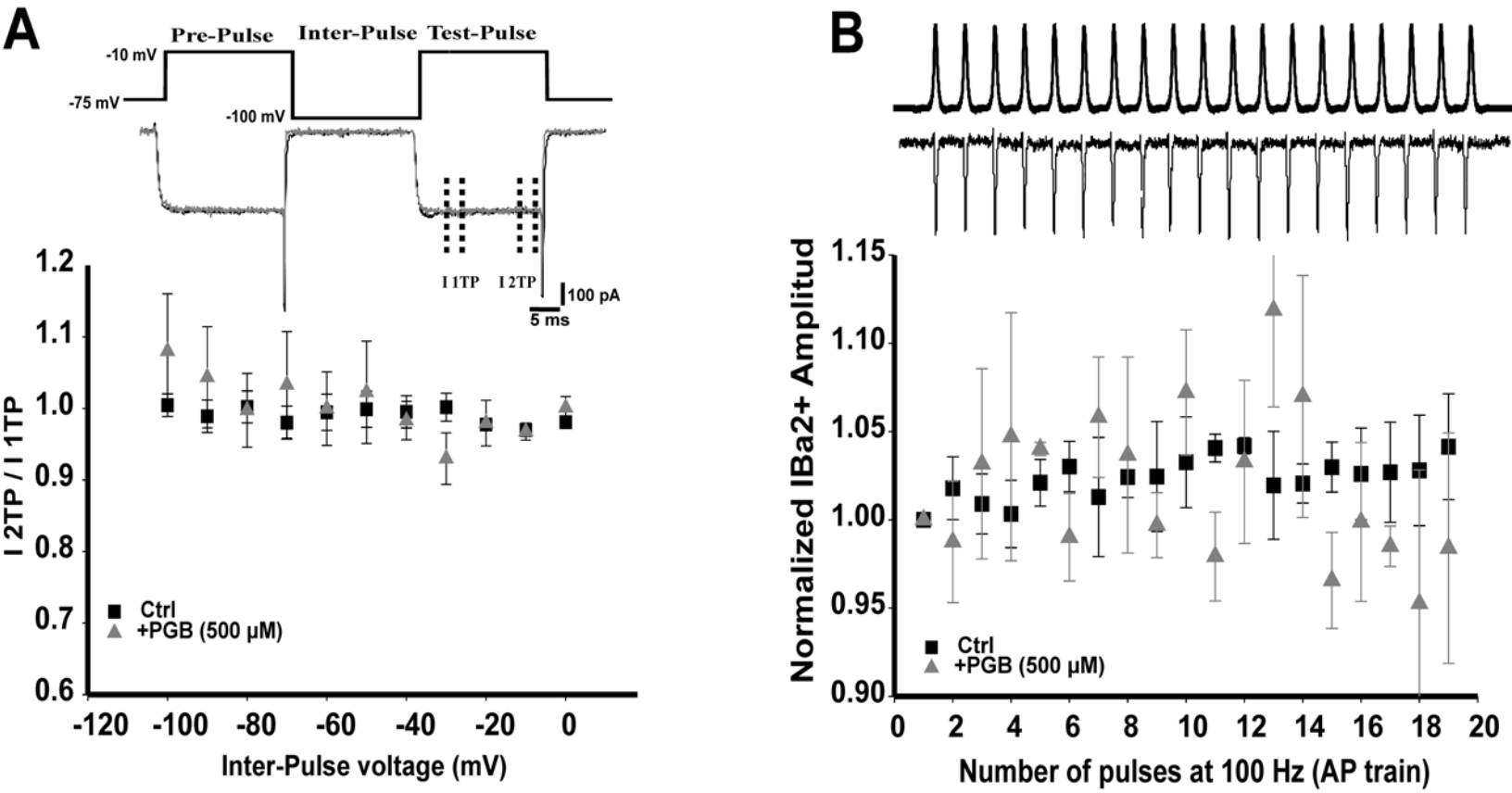
Supplementary Figure 2



Supplementary Figure 2. Calcium-dependent processes are modified in presence of barium (Ba2+) as the charge carrier.
Ca2+ was replaced by Ba2+ (2 mM) as the charge carrier in the extracellular solution. A. Inactivation protocol consisting of paired square pulses to -15 mV (pre-pulse, PP, and test pulse, TP) separated by depolarizing voltage steps (inter-pulse voltage VIP from -75 mV to -10 mV, 10 mV increments) together with representative calcium currents for an interpulse at -100 mV. are shown for control and +PGB 500 µM condition. I2TP/I1TP ratio at Test-Pulse (TP) versus VIP is plotted (bottom). No significant differences were found between Ctrl and +PGB (500 µM). B. Normalized current amplitudes during 100 Hz. train of APs. Ba++ current facilitation observed in the absence of PGB (maximum of 104±3%, n=3) was similar than in the presence of 500 µM PGB (106±6%, n = 3).