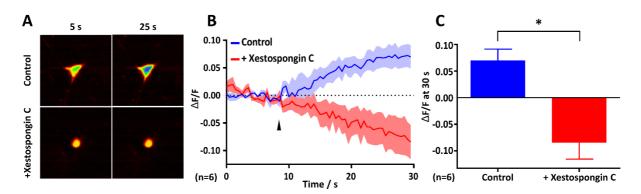


Supplementary Figure 1 mGluR1-mediated depolarisation unlikely to occur via transient receptor potential (TRP) channel activation. A. Diagram showing the experimental configuration, whole cell current clamp recordings were performed on CA1 pyramidal neurons whilst mGluR1 was pharmacologically isolated and L-glutamate was bath applied. B. Representative voltage recordings during application of extracellular glutamate (180 s, black arrow indicates where glutamate enters bath) C. columns show mean Δ V_M of CA1 pyramidal neurons before and after glutamate perfusion (indicated by red bars in B) for each pharmacological manipulation undertaken. Drugs were added to the bath solution at the following concentrations: La³+ (100 μ M), flufenamic acid (FFA) (20 μ M). Error bars display SEM. n.s. = non-significant difference in mean membrane potential compared to control.



Supplementary Figure 2 Xestospongin C inhibits somatic IP₃ mediated Ca²⁺ release in CA1 pyramidal neurons in the hippocampus. CA1 pyramidal neurons were filled with the Ca²⁺ indicator OGB-1 (1 mM) via patch pipette for one minute. After recovery, a series of confocal images were collected whilst cells were re-patched (at 9 s) with internal solution containing IP₃ (100 μ M) under control conditions or with pre-incubation with the IP₃ receptor antagonist Xestospongin C (2 μ M, 20 minutes). **A.** Representative confocal images taken before (5 s) and after break through (25 s). **B.** Δ F/F over the imaging time course, break through with IP₃ containing internal solution is shown by the arrow at 9 s. **C.** Columns show mean Δ F/F at 30 s. Error bars show SEM (n = 6 for both groups). Significant differences are displayed by asterisks, where * = P < 0.05.