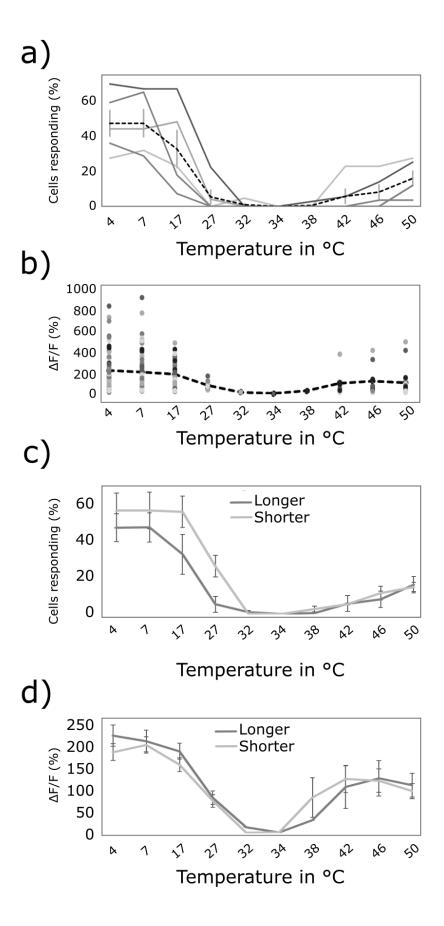


Supplemental figure 1. The effect of repeated stimulation on the response of lamina I projection neurons. a) Percentage of lamina I projection neurons responding to the first and second round of identical stimuli. A two-way ANOVA revealed no significant interaction between the percentage of responses with different stimulation temperature and the presence or absence of previous stimulation rounds, F(15, 64) = 0.365, p = .983. A direct comparison between the first and second stimulation showed a simple main effect of the order of stimuli (p = 0.020) but after Bonforroni correction for the number of comparisons (3x) this effect disappeared (p = 0.06). b) Intensity of lamina I projection neurons responses to the first and second round of identical stimuli. A two-way ANOVA revealed no significant interaction between the intensity of responses with different stimulation temperature and the presence or absence of previous stimulation rounds, F(12, 42) = 0.083, p = 1.000. A direct comparison between the first and second stimulation showed no simple main effect of the order of stimuli (p = 0.446). Data displayed as mean \pm SEM. N = 3 animals.



Supplemental figure 2. The duration of stimulation had little effect on the response profile of lamina I projection neurons. a) Percentage of lamina I projections neurons responding to each thermal stimulus. Continuous lines represent individual experiments. Dashed line represents the average ± SEM. N = 5. b) Intensity of the response to different types of thermal stimuli. Individual data points represent individual cells (shown with varying shades of grey), dashed line represents the average. N of animals = 5, n of cells = 128. c) Direct comparison between the percentage of cells responding during longer (30 seconds) and shorter (5 seconds) durations of thermal stimuli. Data displayed as mean ± SEM. A two-way ANOVA revealed no significant interaction between the percentage of responses with different stimulation temperature and the duration of stimulation F(9, 80) = 1.273, p = .998. A direct comparison between longer and shorter stimulation showed a simple main effect of duration of stimulation (p = 0.011). This effect was present also after Bonferroni correction (p = 0.033). d) Direct comparison between the intensity of responses during longer and shorter durations of thermal stimuli. Data displayed as mean ± SEM. A two-way ANOVA revealed no significant interaction between the intensity of response with different stimulation temperature and the duration of stimulation F(7, 49) = 0.100, p = .264. A direct comparison between longer and shorter stimulation periods showed no simple main effect of duration of stimulation (p = 0.925).