



**Figure S29.** Microstimulation effect dependence on contraversive spatial selectivity and task. Monkey B. For each ROI, the effect of stimulation, defined as the difference between the BOLD response in stimulation and no stimulation trials, is plotted against its initial contraversive selectivity index (CSI in no stimulation trials) for contraversive memory saccade (blue), ipsiversive memory saccade (red), and fixation (green) task conditions. Each dot represents one ROI (filled circles – right hemisphere, empty circles – left hemisphere); solid lines show linear fits of stimulation effects across ROIs. See **Table 4** for the corresponding statistics.