



S 7. Fig. **Response of the network to an increase in the excitability.** Two different realizations of the numerical experiment reported in the subsection *Physiological relevance for biological networks under different experimental conditions* of the main text. First (third) column reports two realizations of the SETM estimated for $g = 8$ ($g = 1$). Second (fourth) column displays the number of coactive cells in the corresponding cases for $g = 8$ ($g = 1$). The other parameters for the reported simulations are $\Delta V = 5$ mV, $K = 20$, $N = 400$.