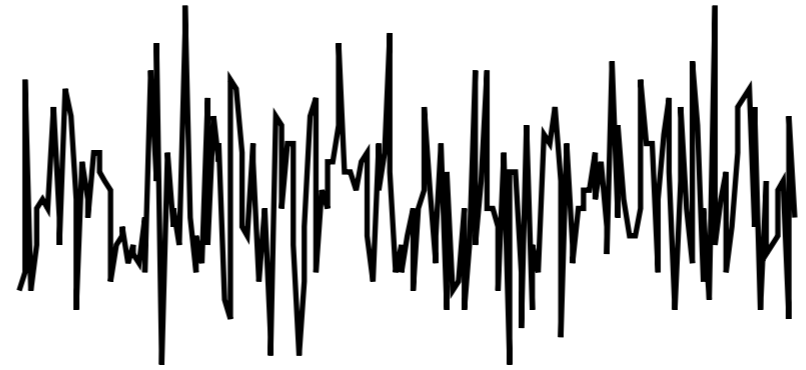
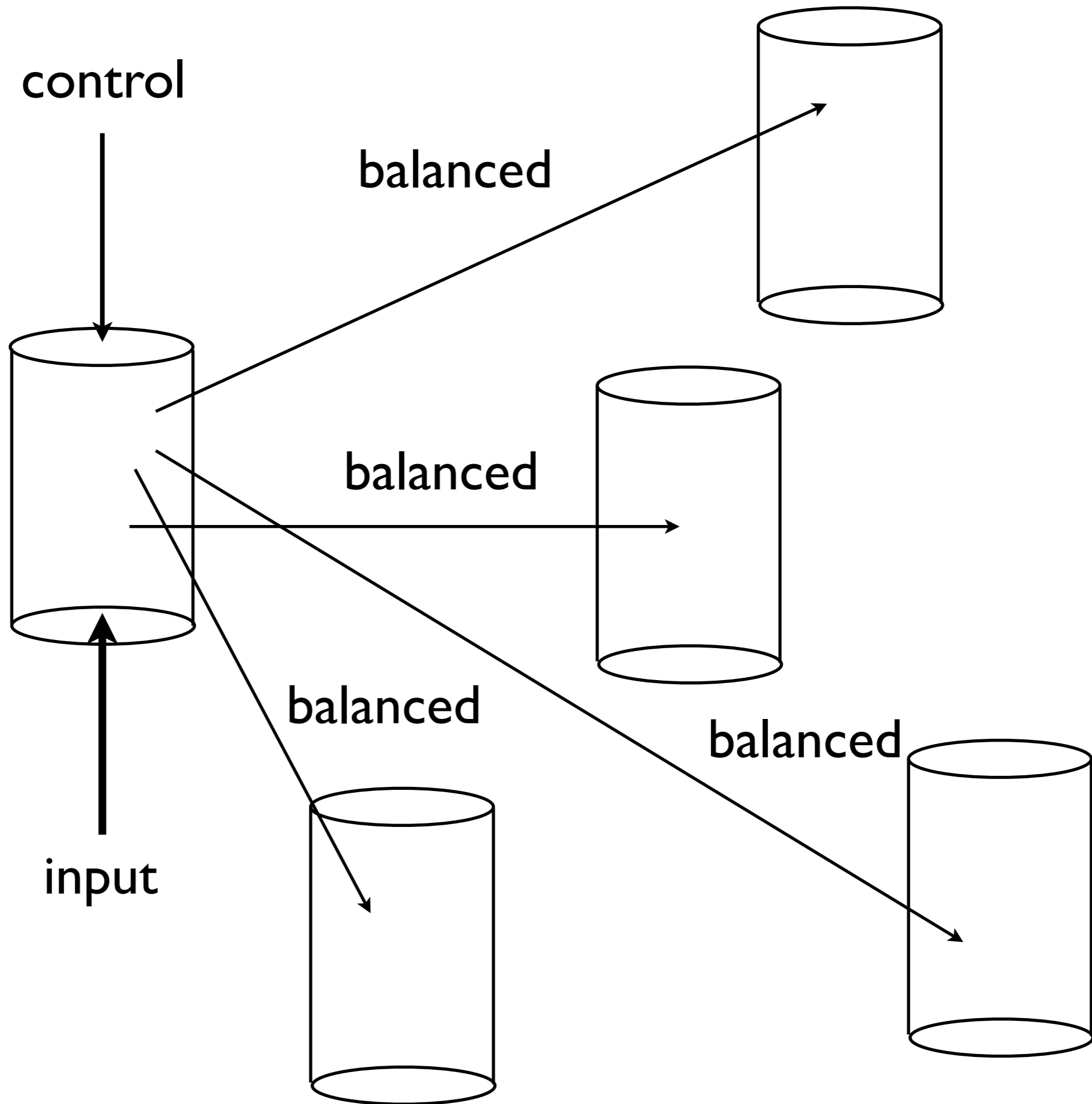


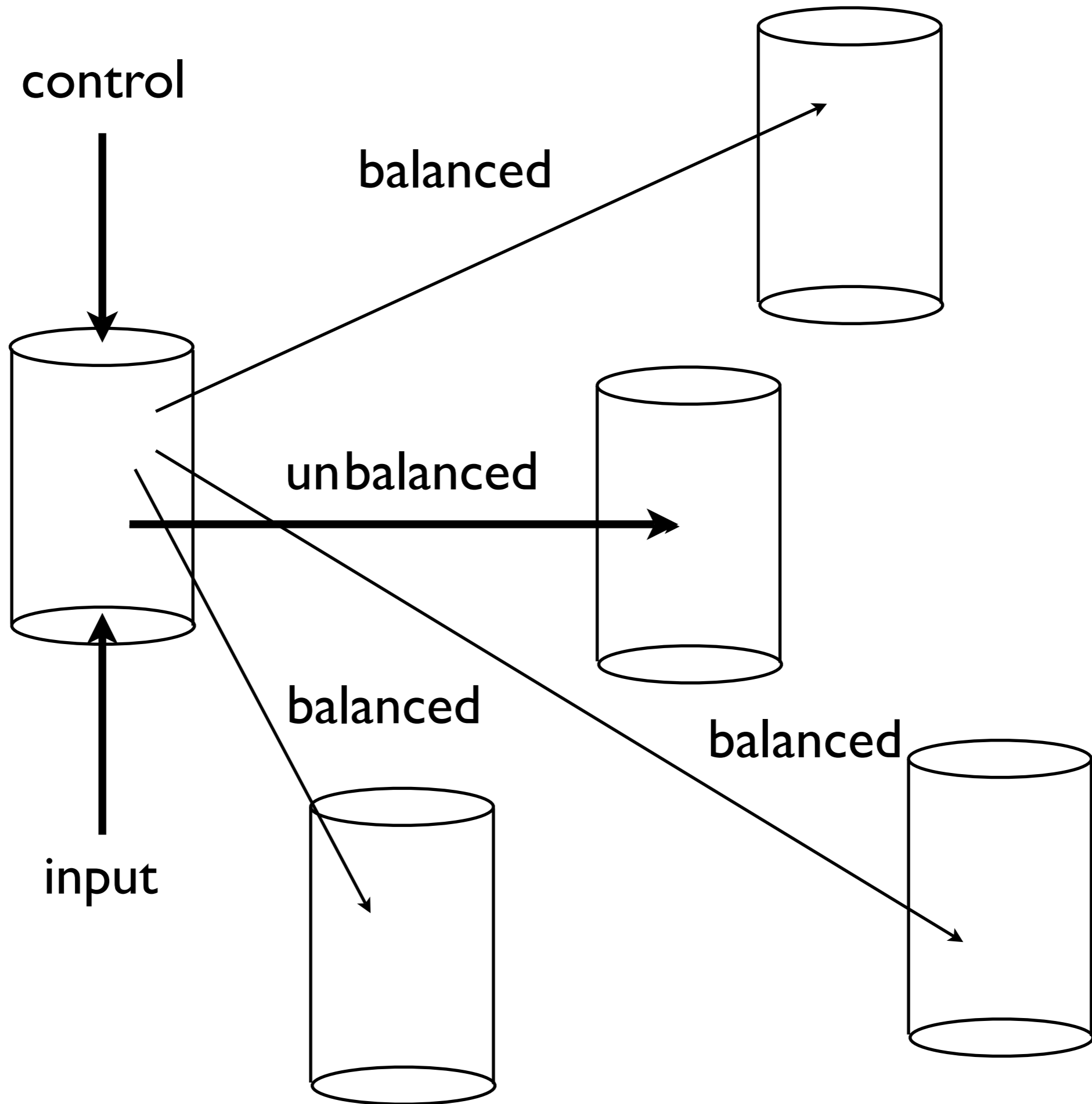
balanced input

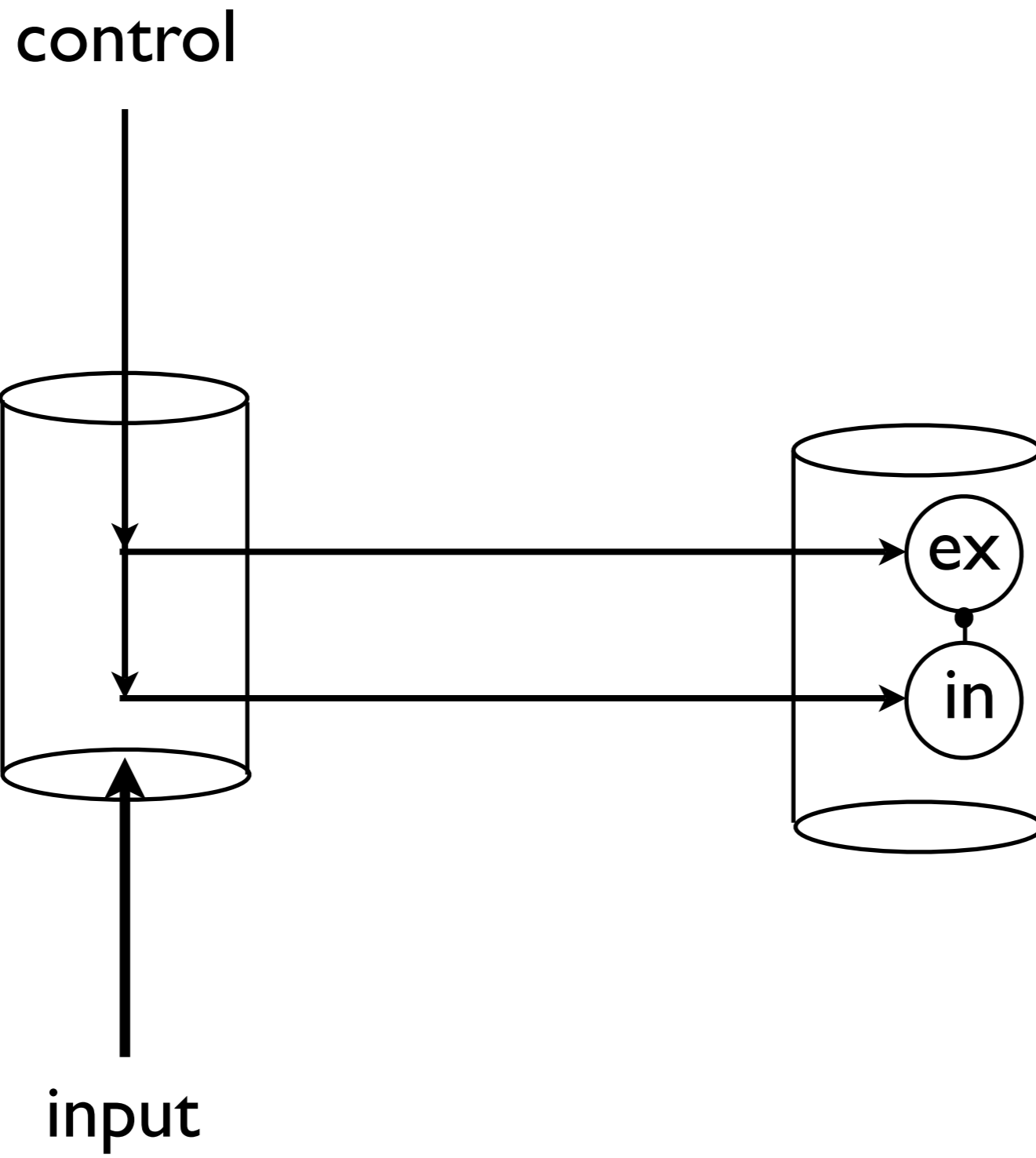


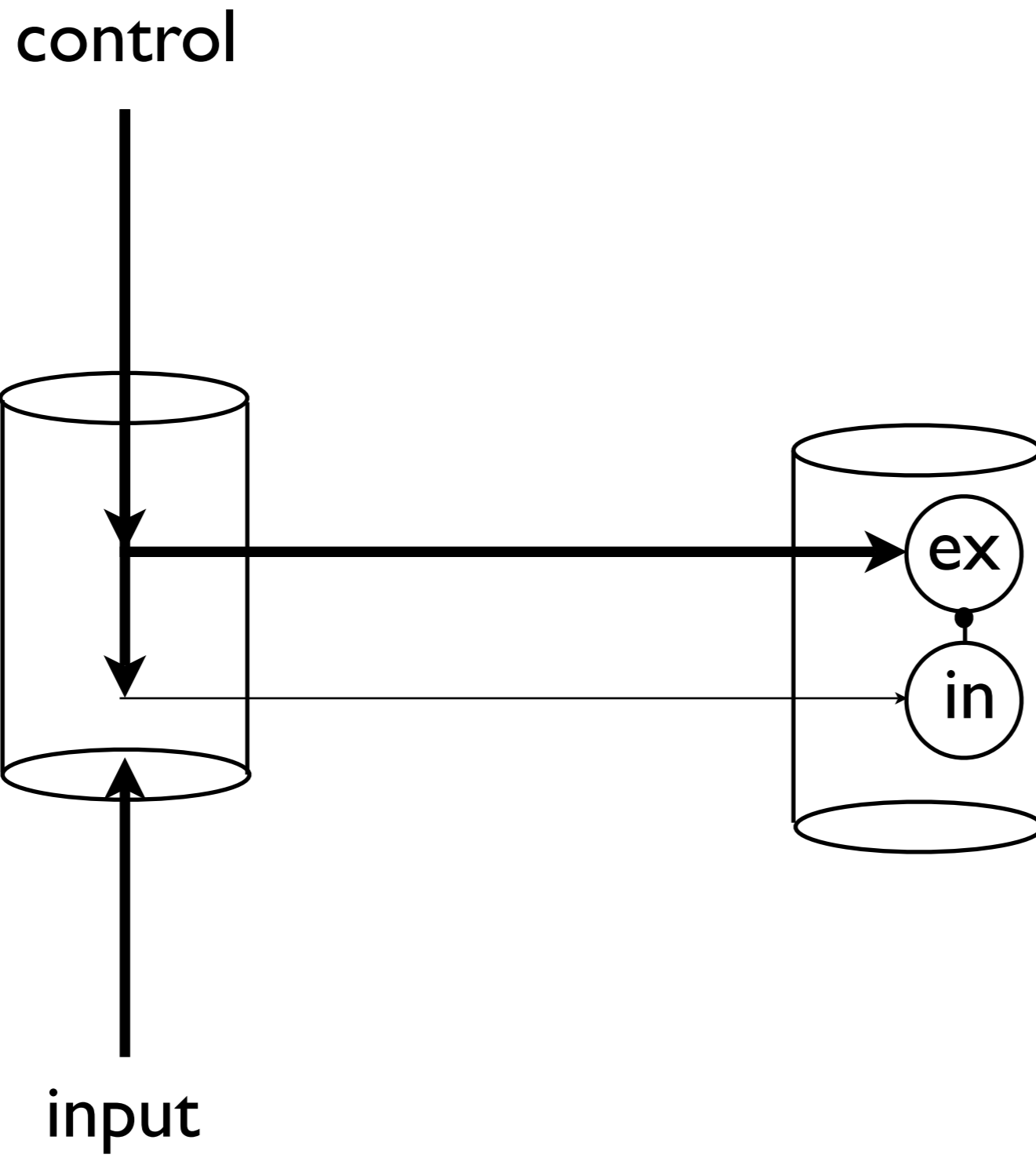
Shadlen & Newsome
Amit & Brunel
Van Vreeswijk & Sompolinsky
Anderson, Lampl, Gillespie, & Ferster
Troyer and Miller

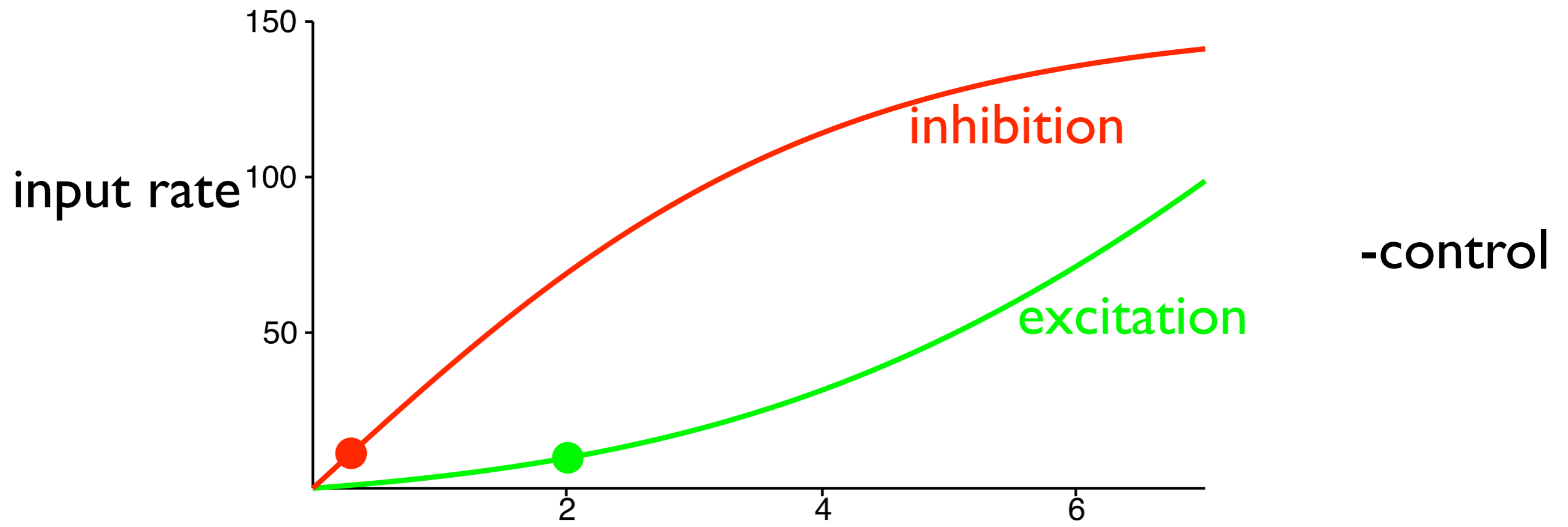
with Tim Vogels

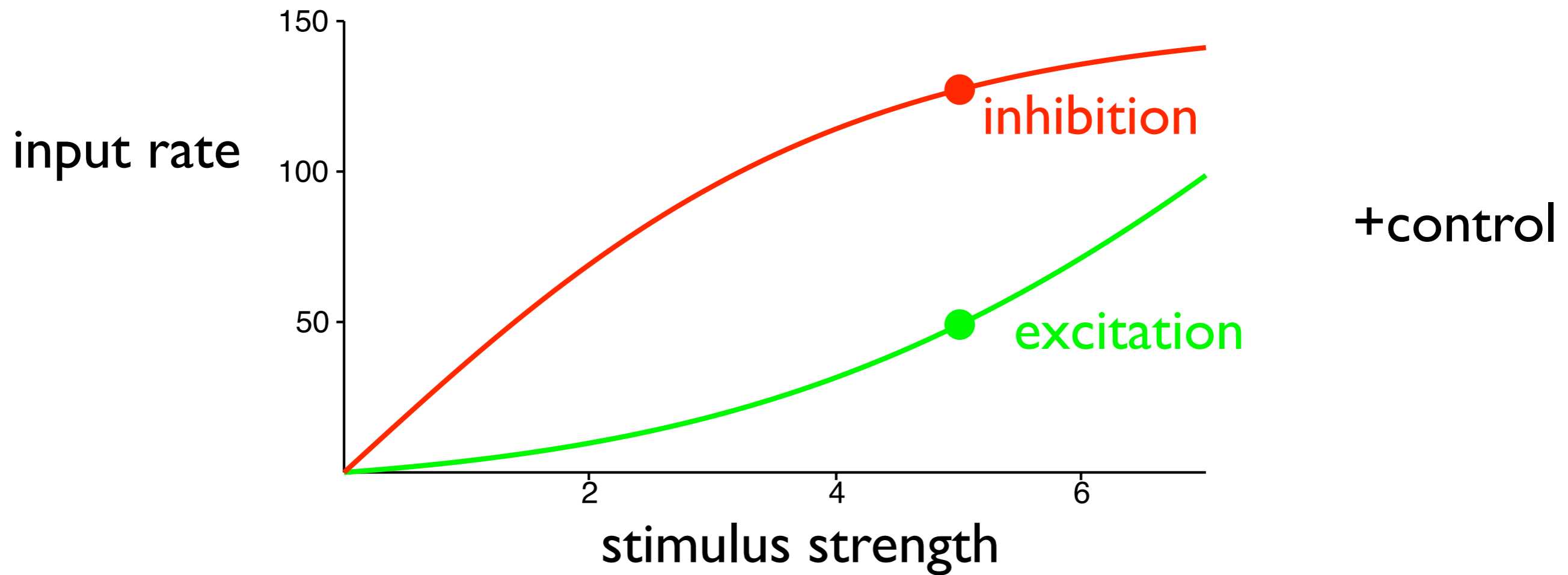
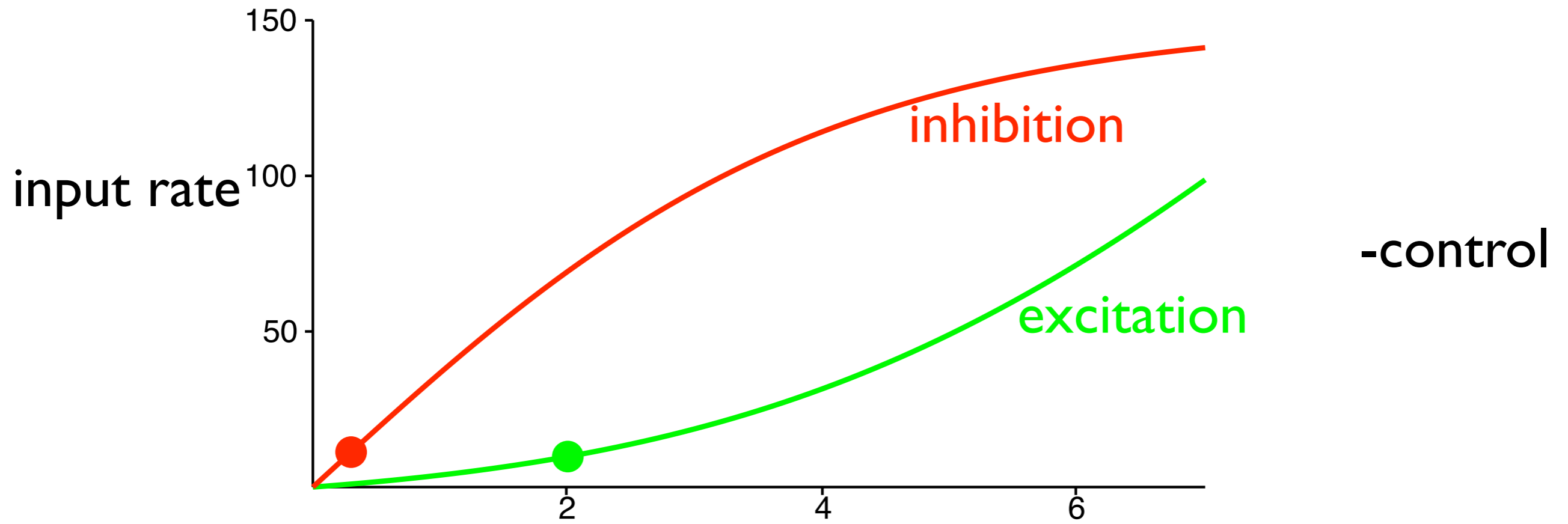


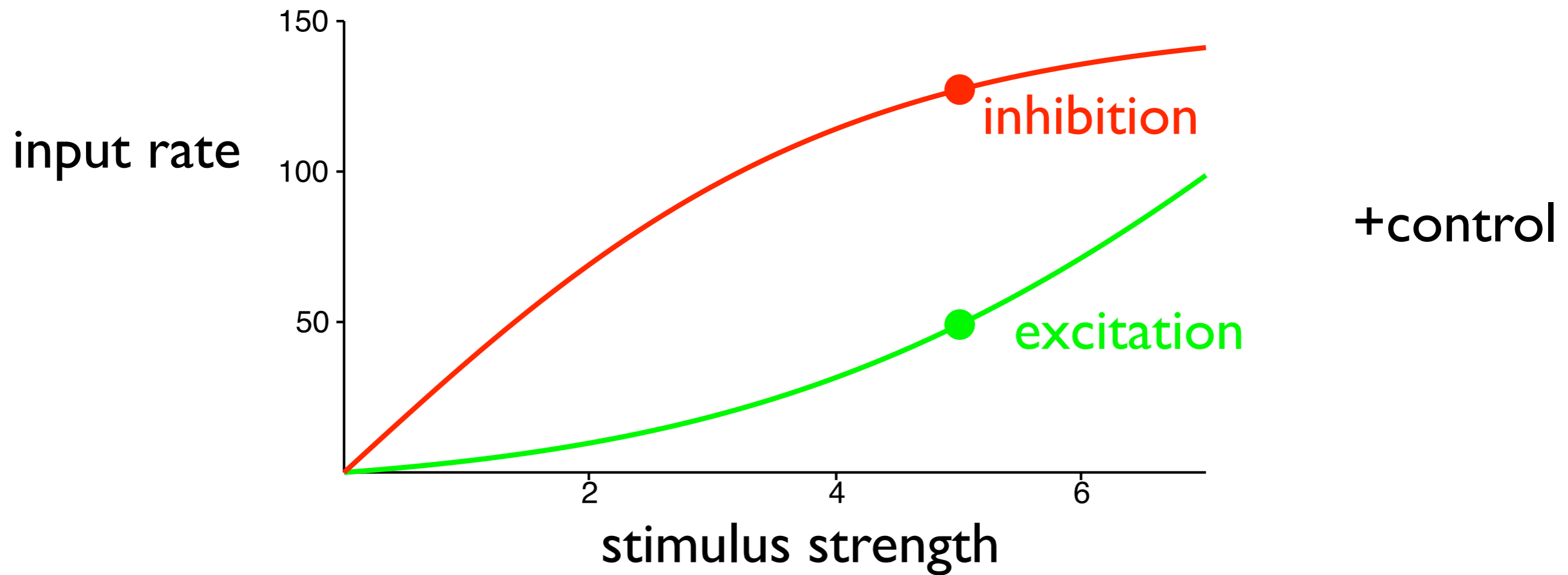
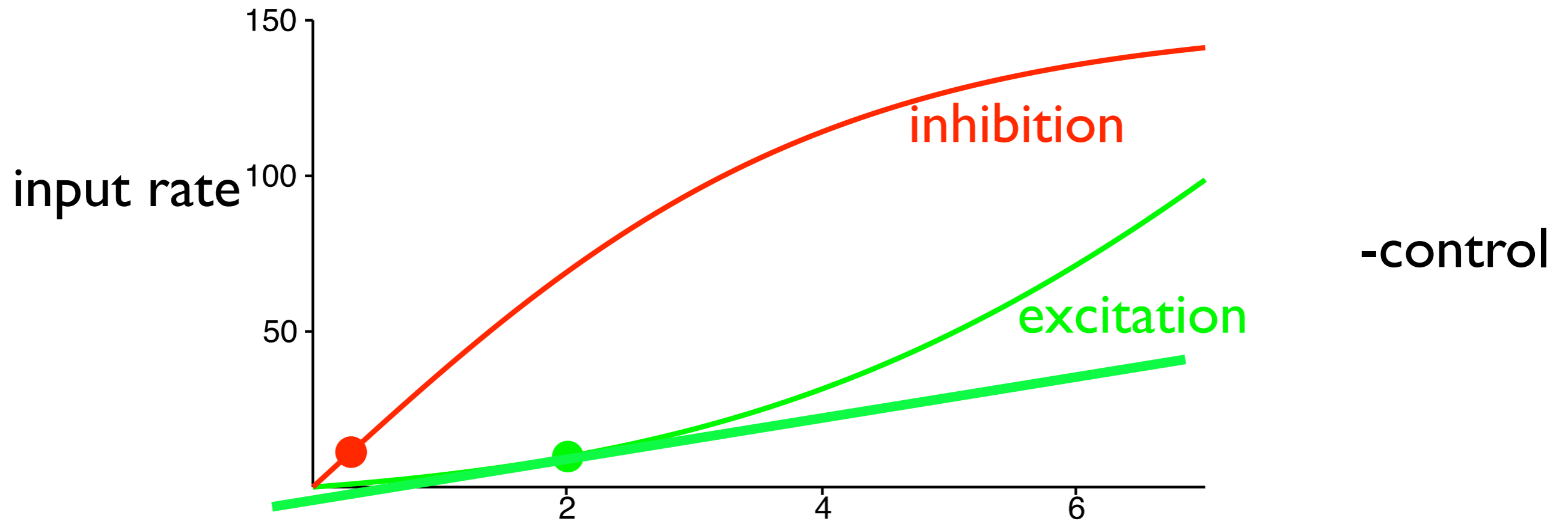


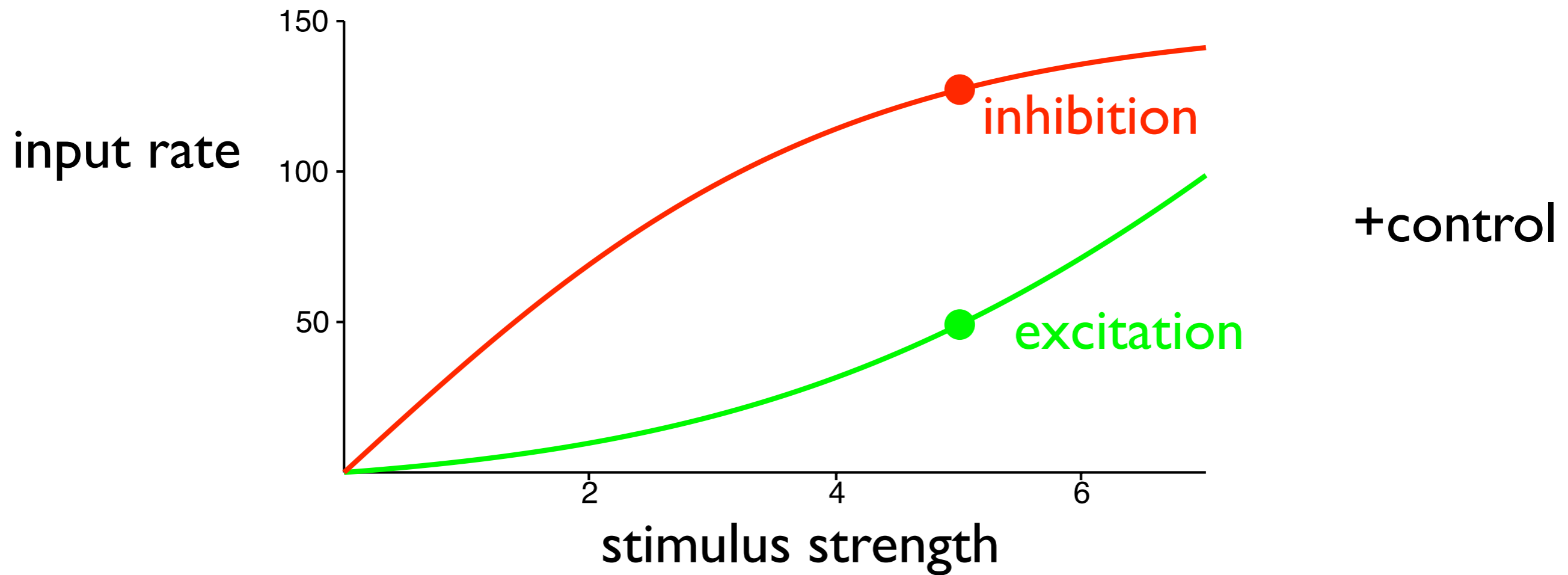
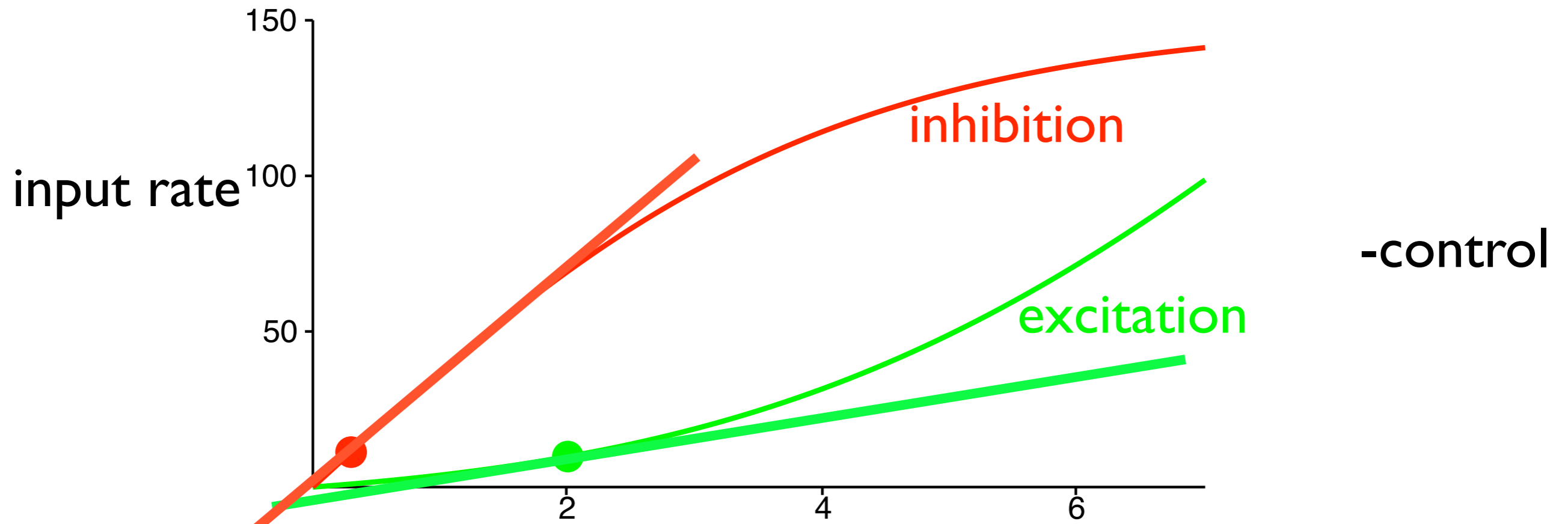


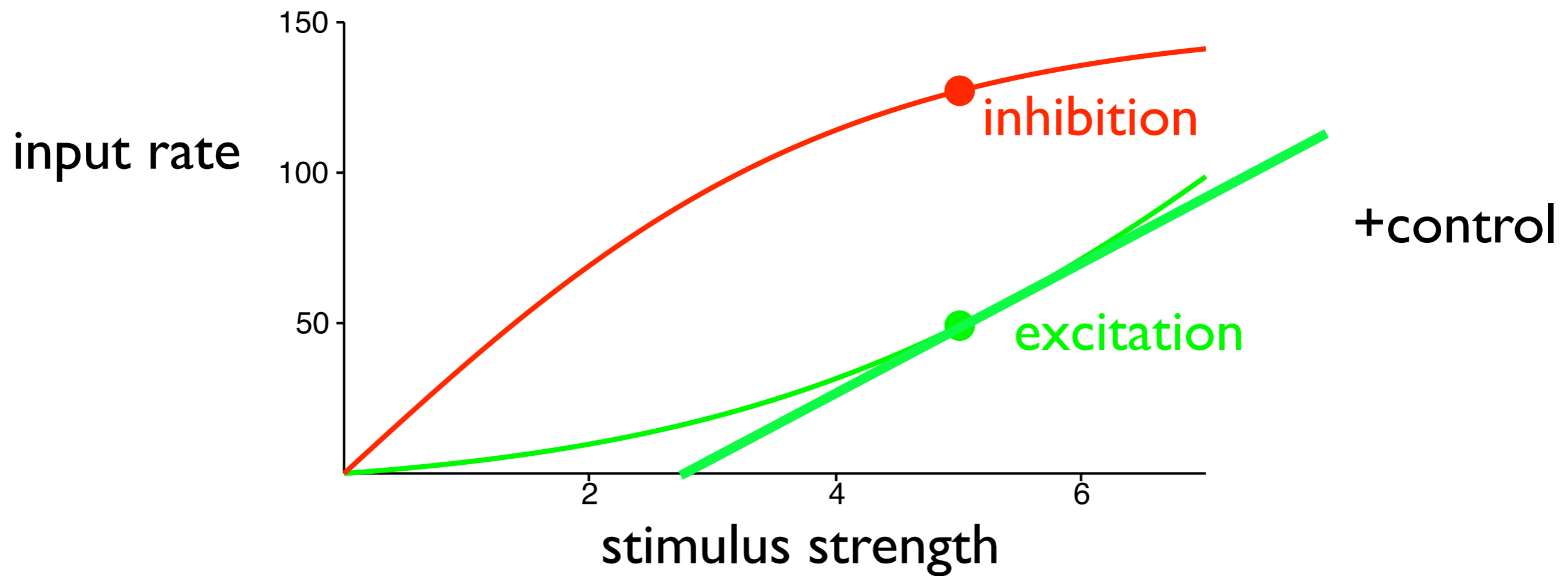
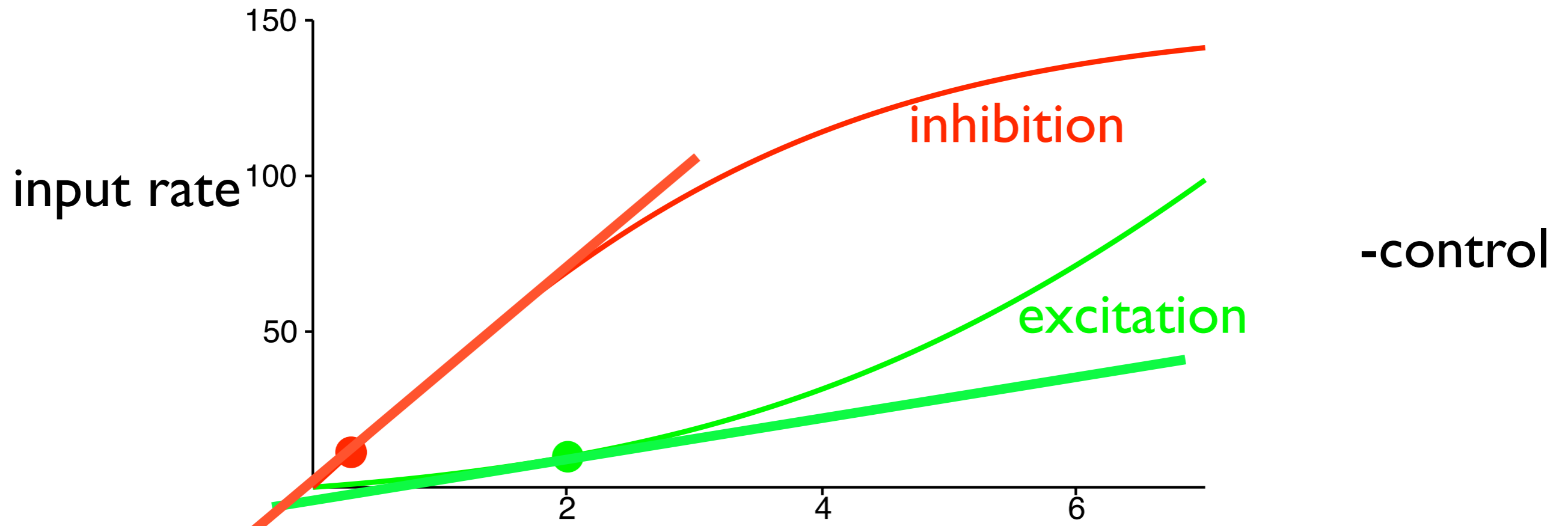


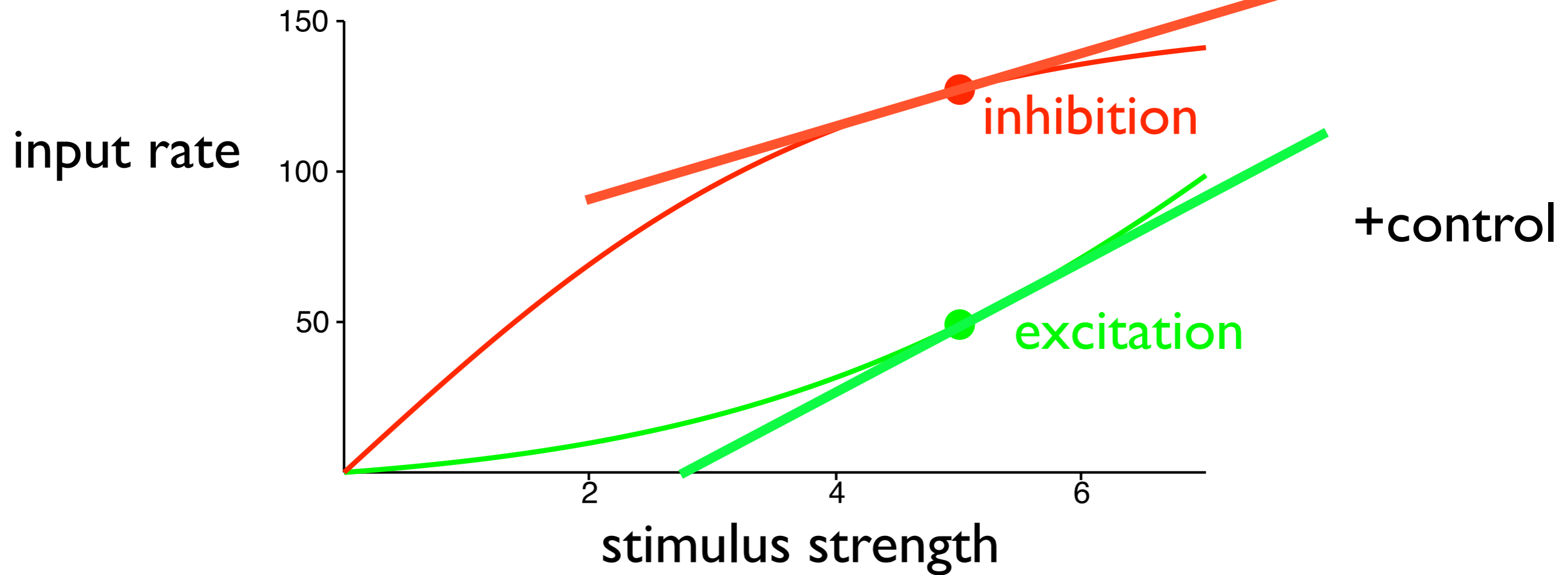
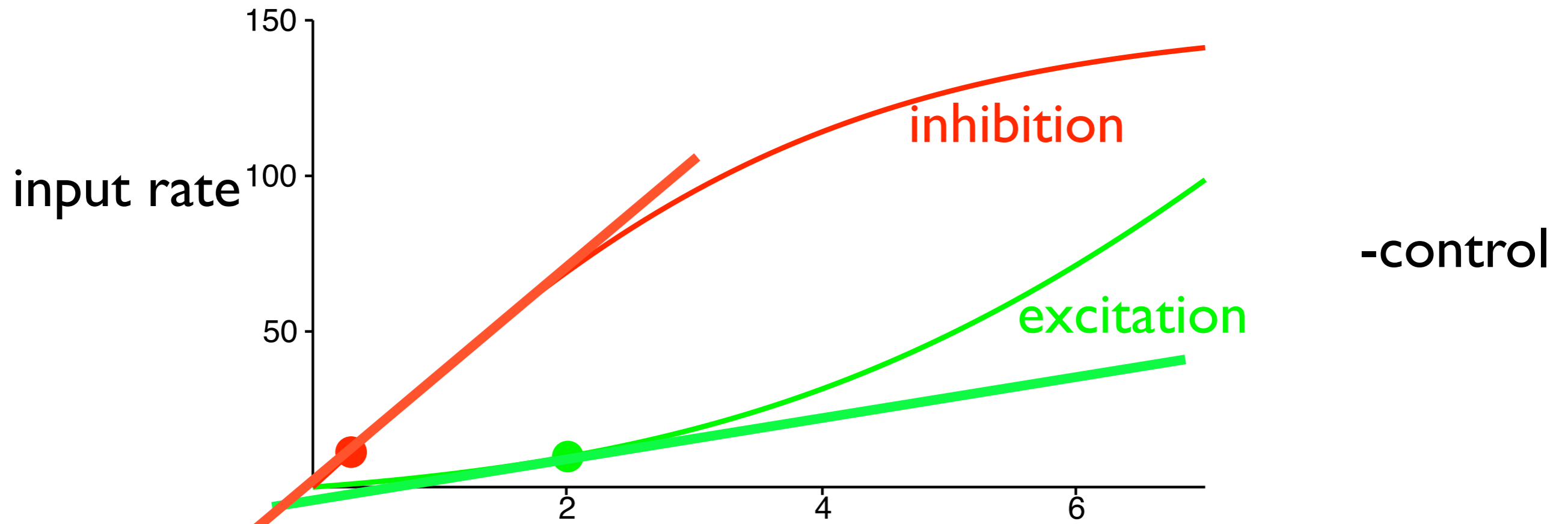




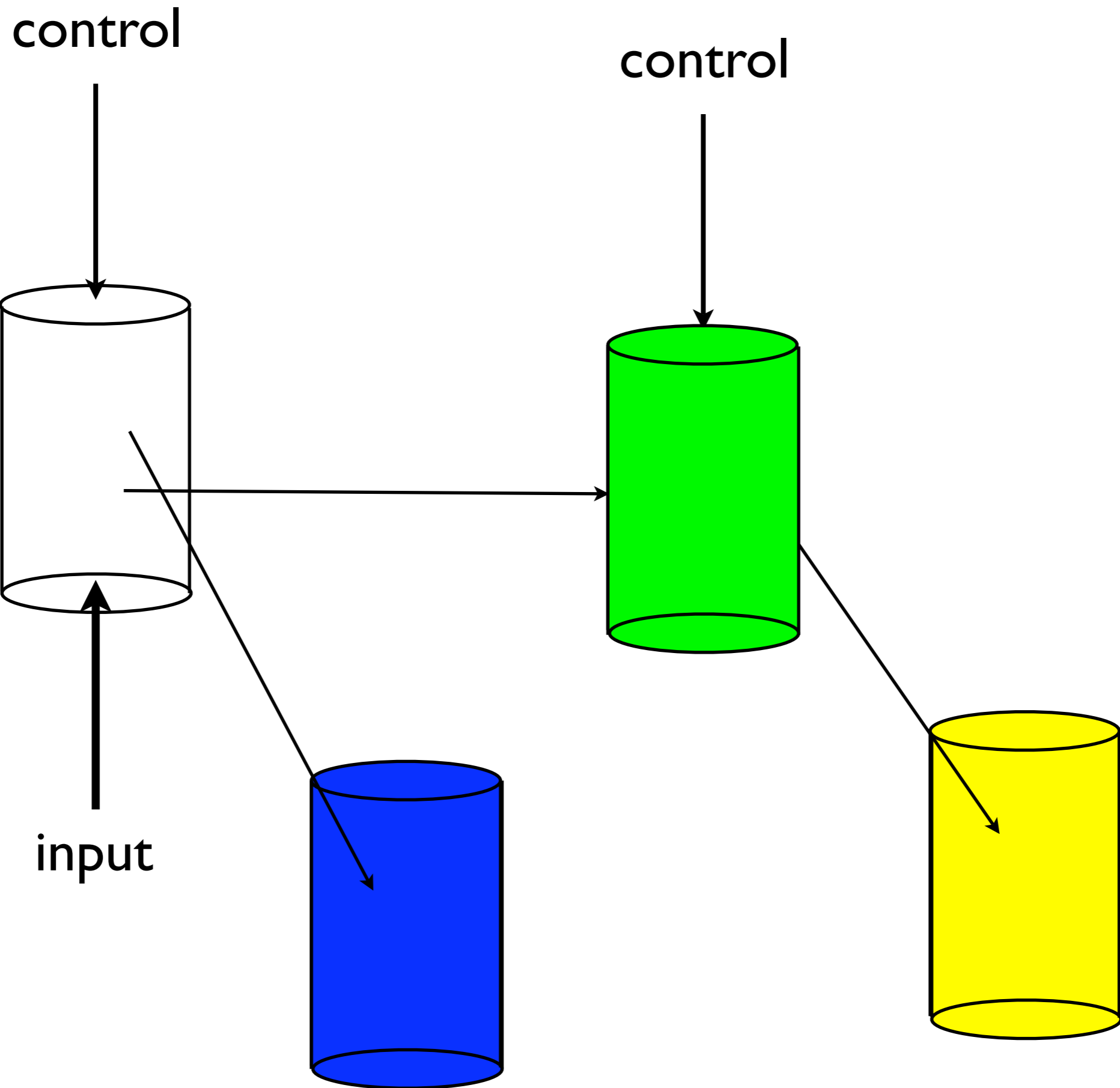








Control Demo



Network Demo

Network Balance

Inhibitory

[pA]

150

Mem. Current

-150

Excitatory

[mV]

-50

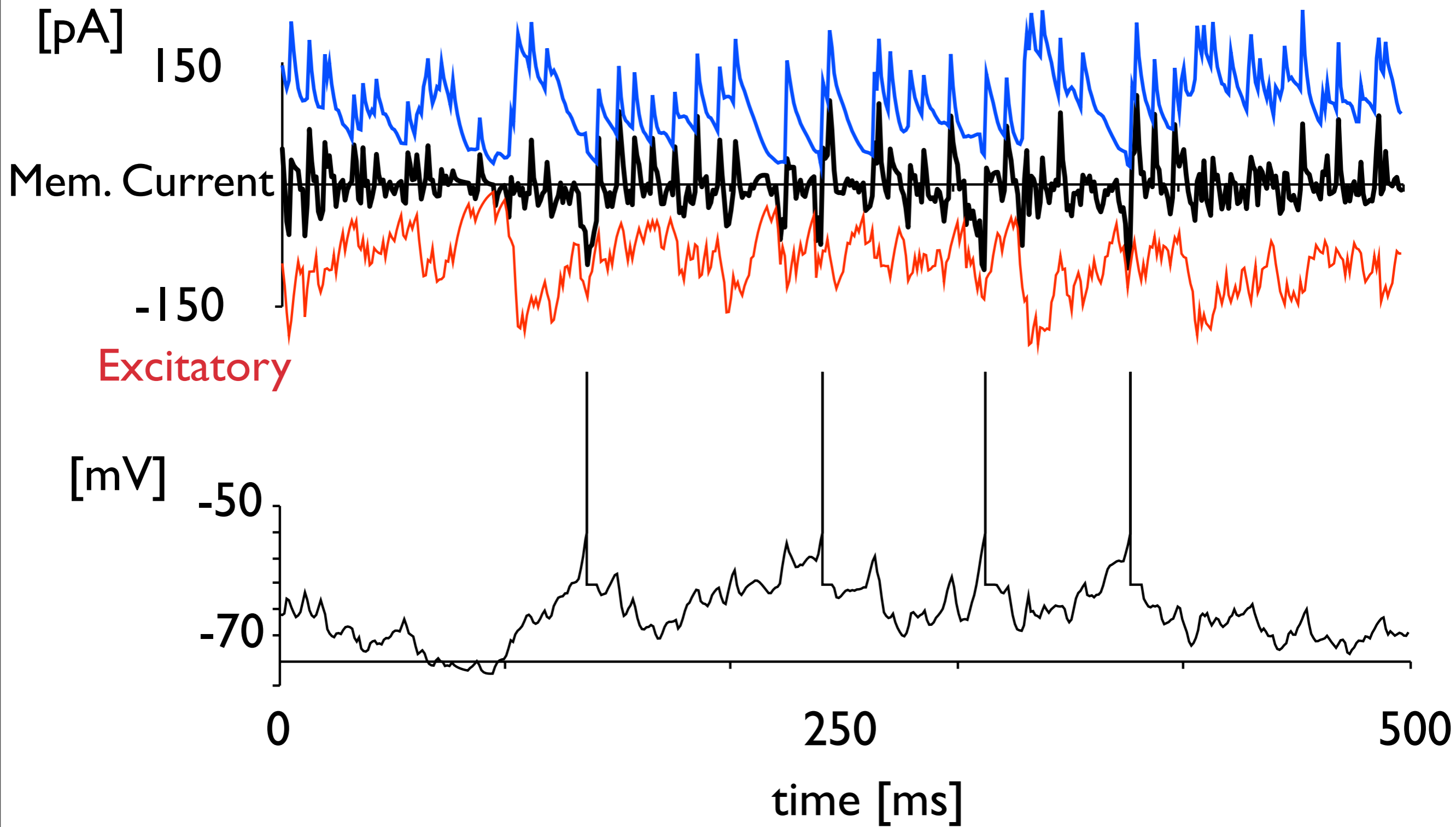
-70

0

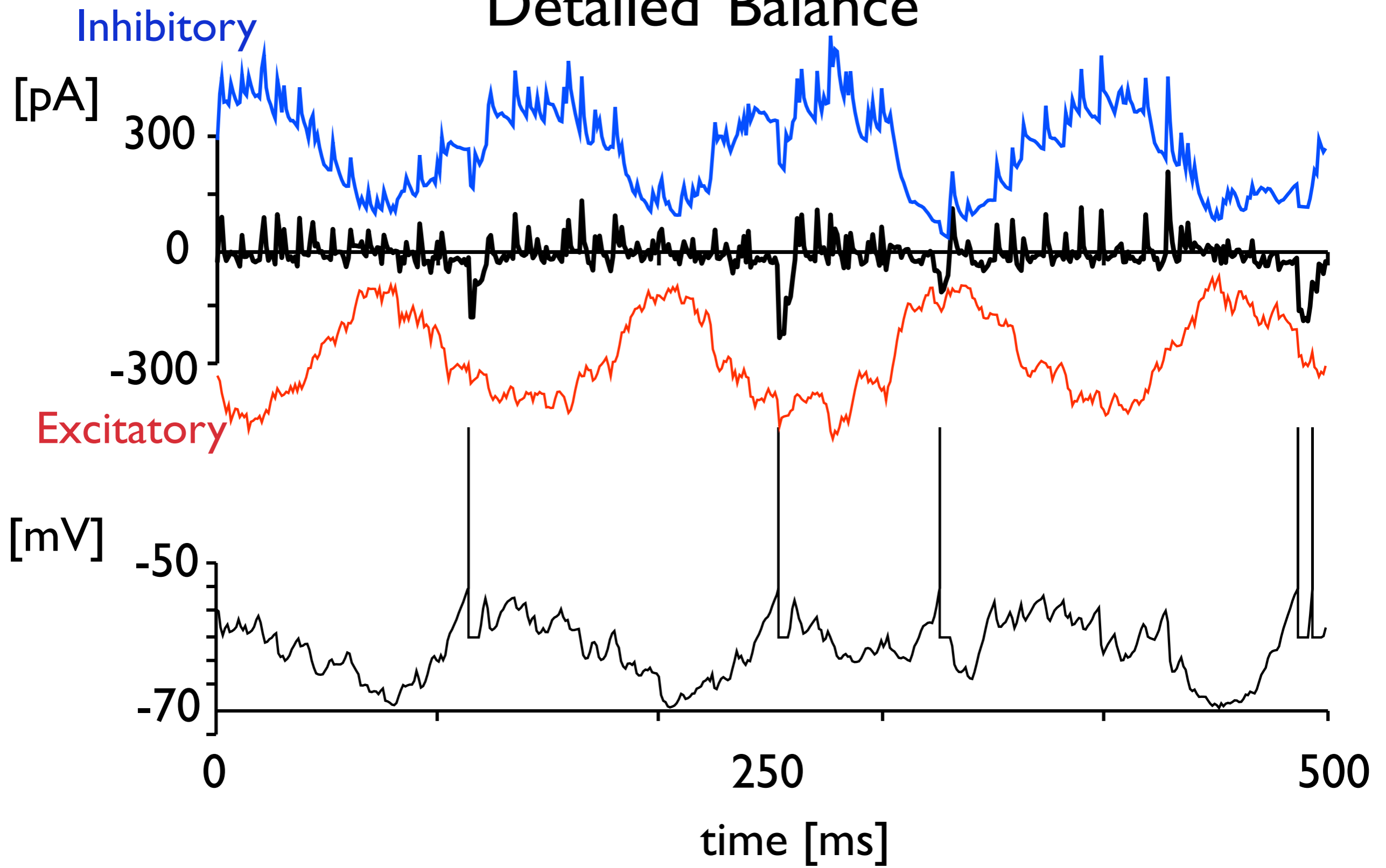
250

500

time [ms]



Detailed Balance



Unbalance

Inhibitory

[pA]

300

0

-300

Excitatory

[mV]

-50

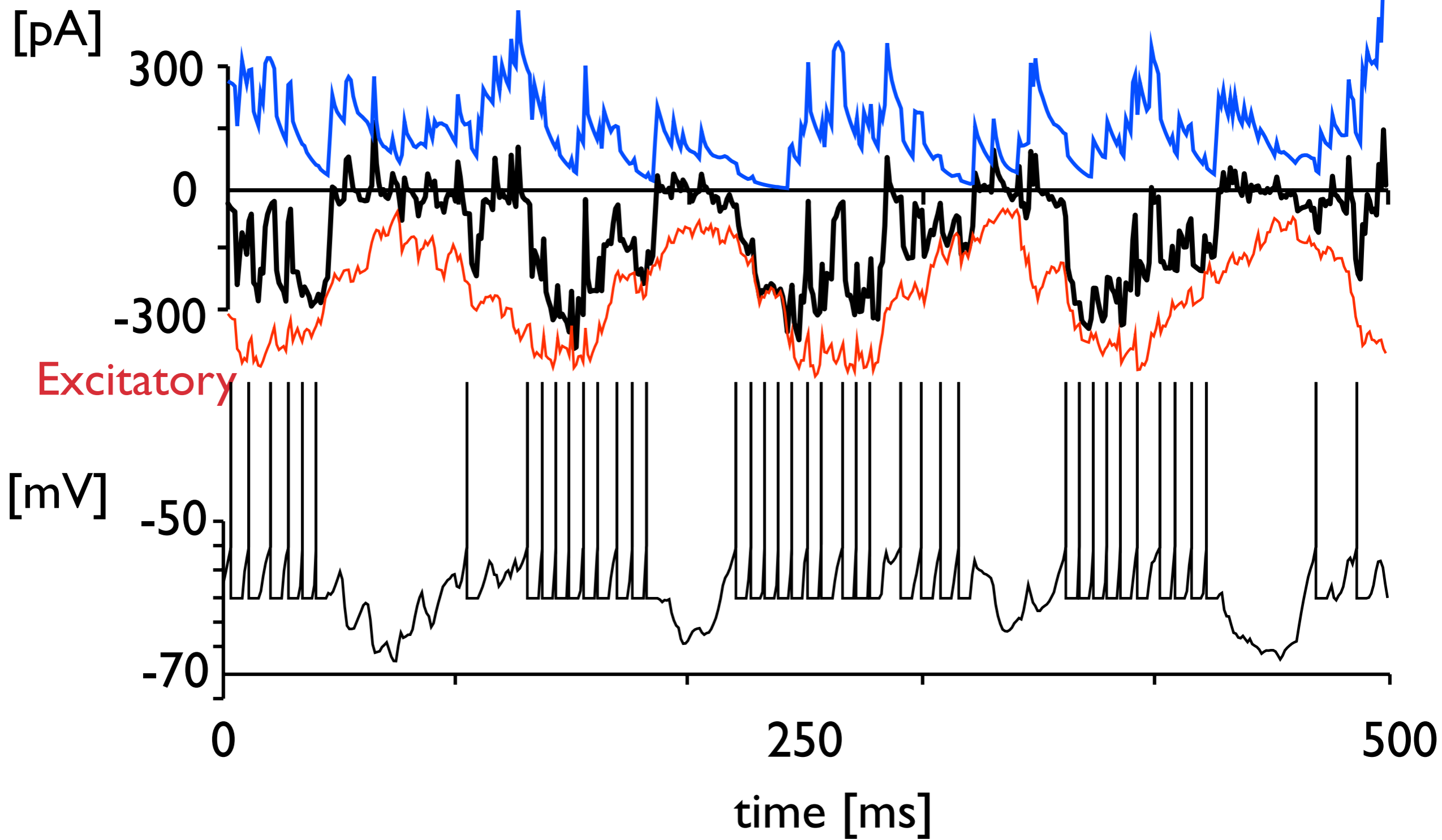
-70

0

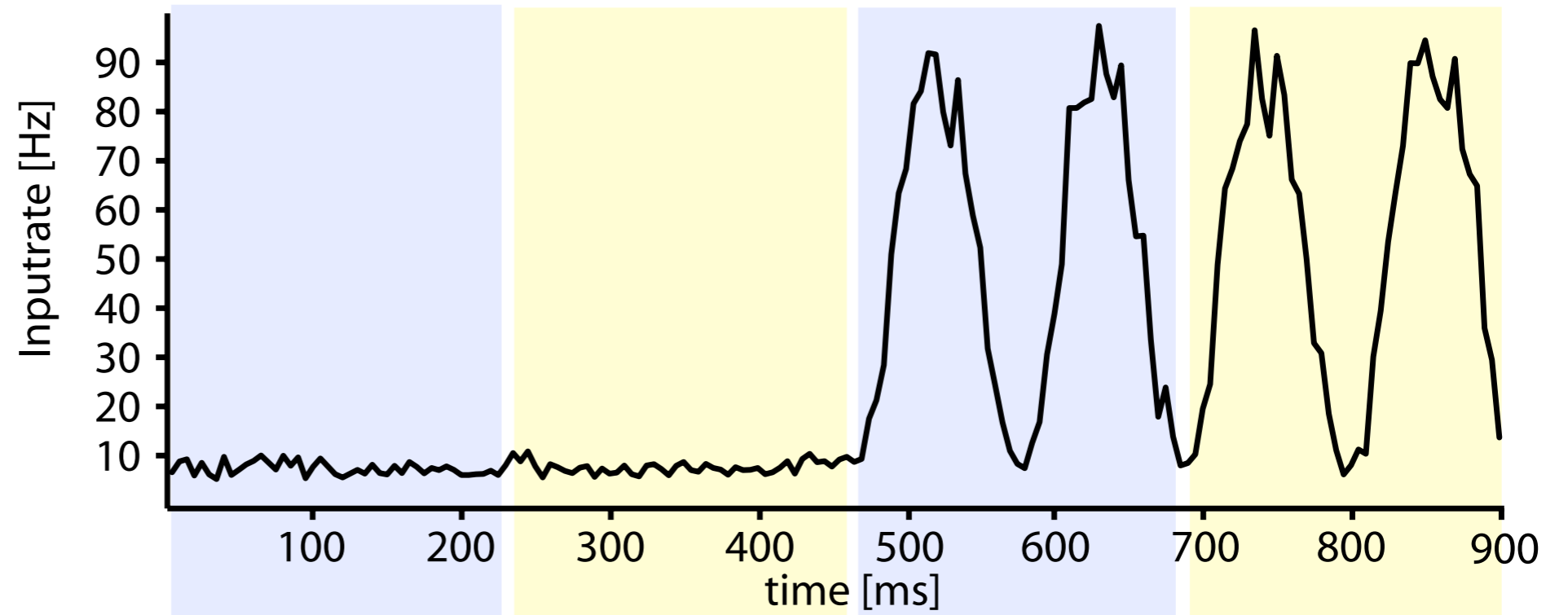
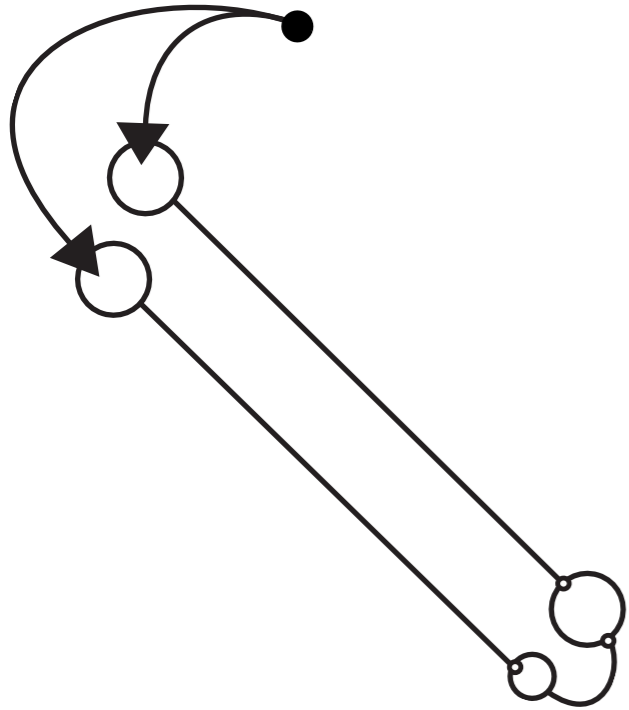
250

500

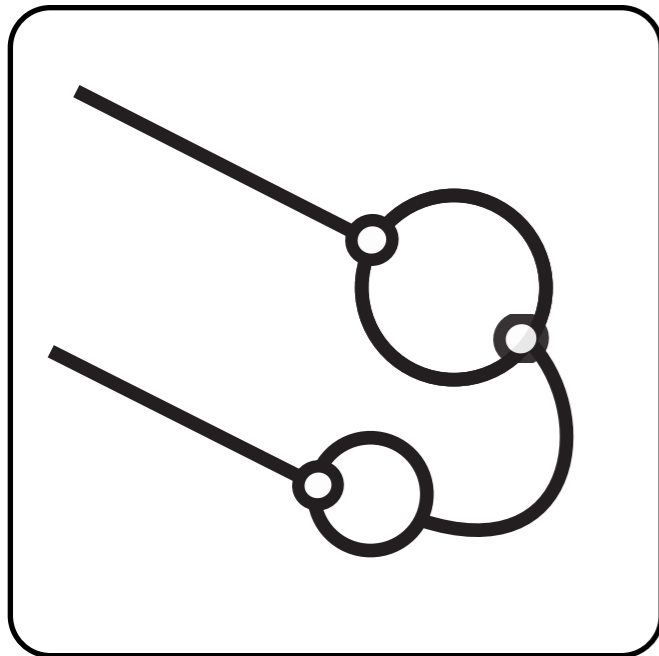
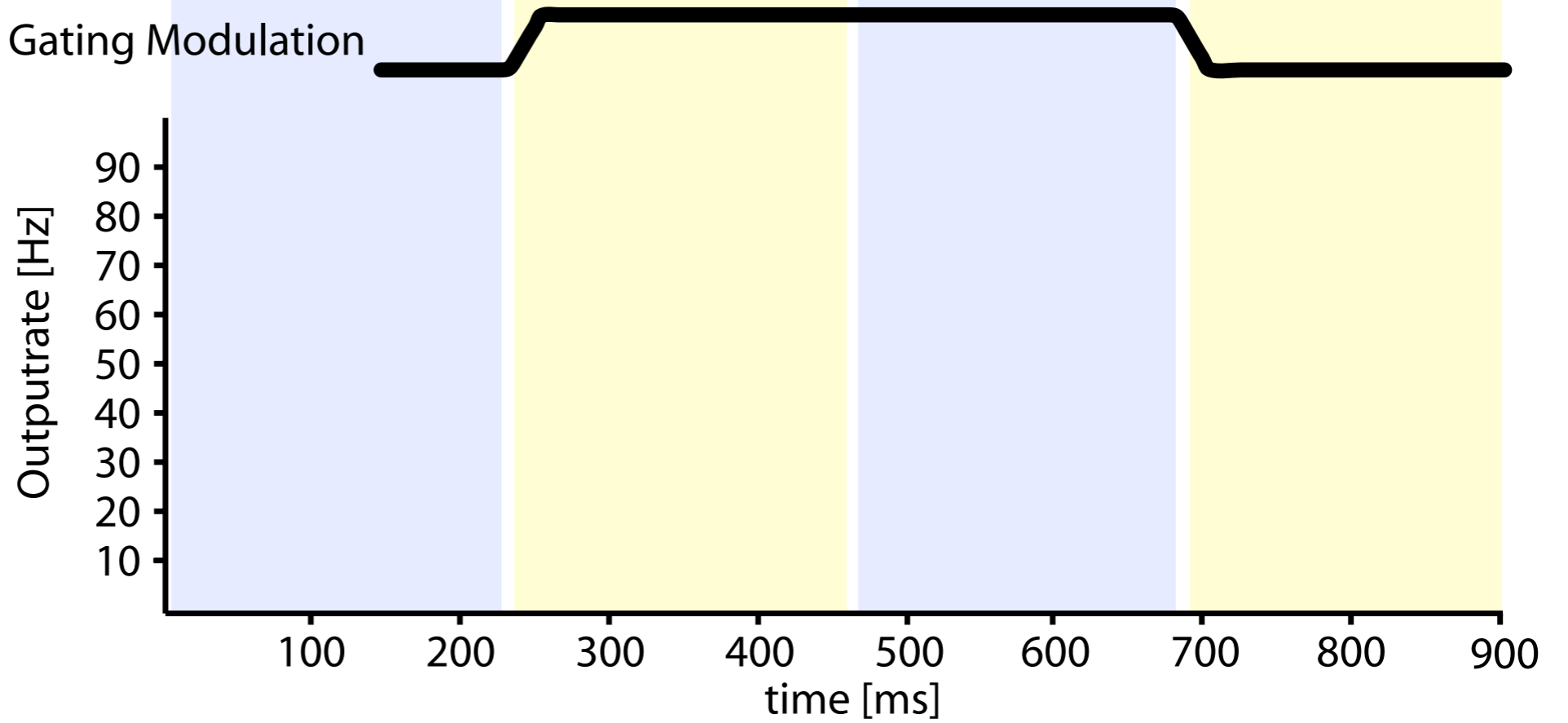
time [ms]



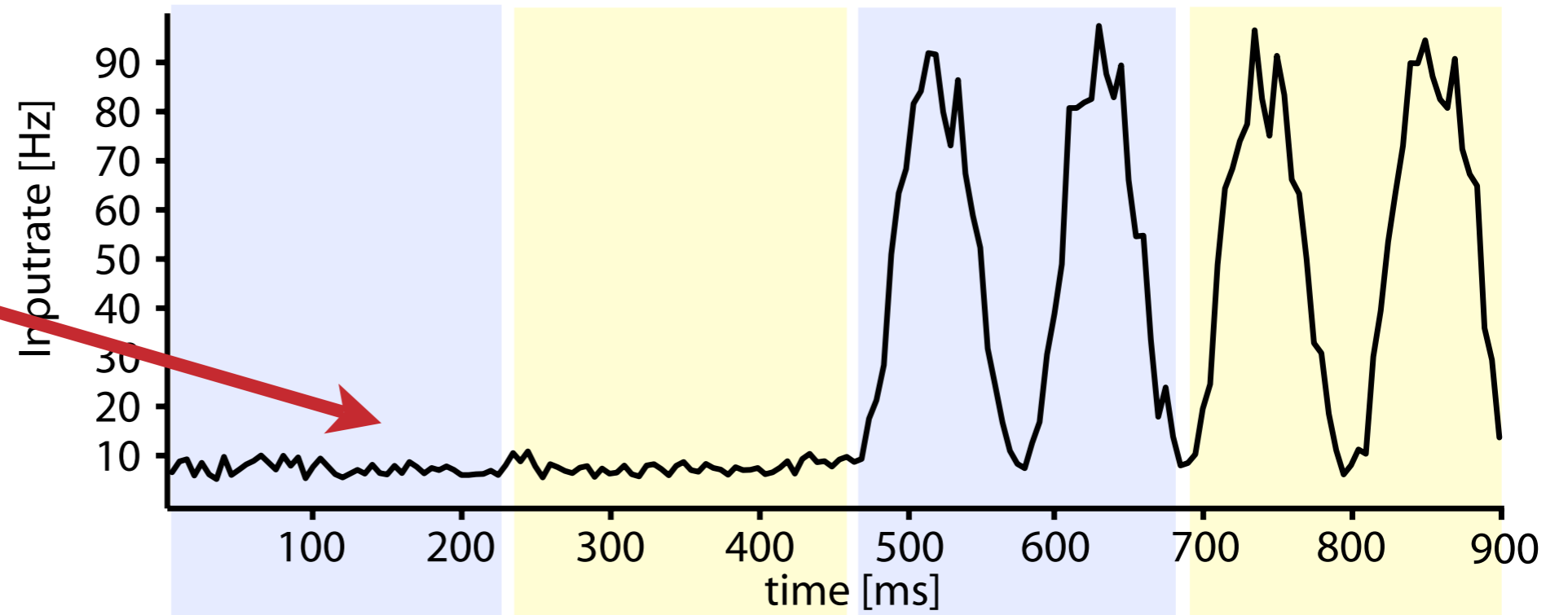
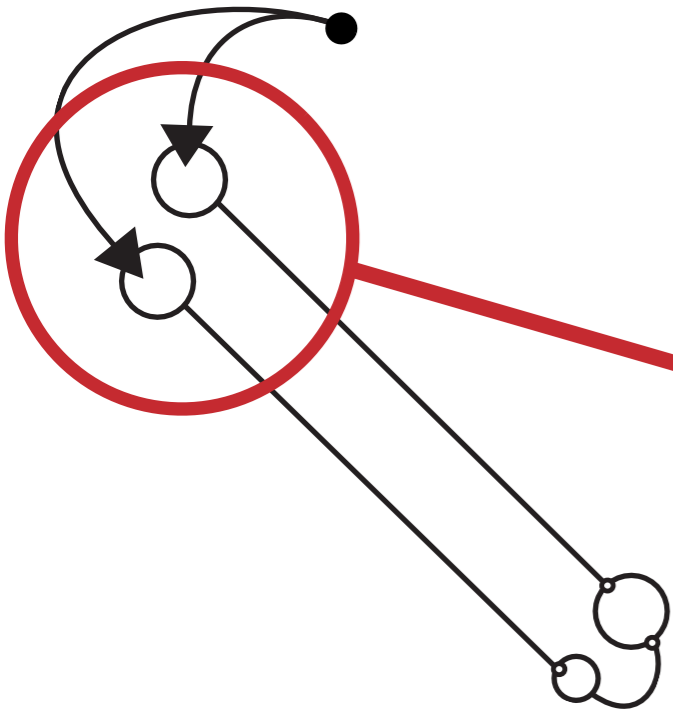
Detailed Balance



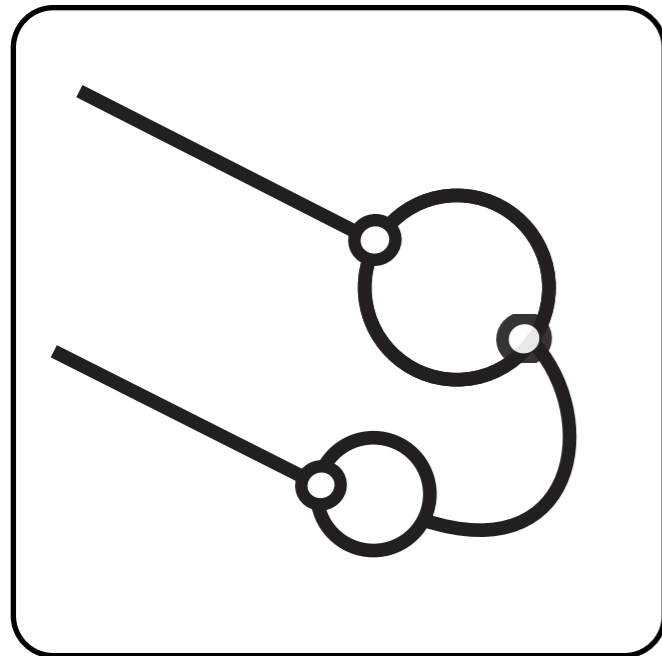
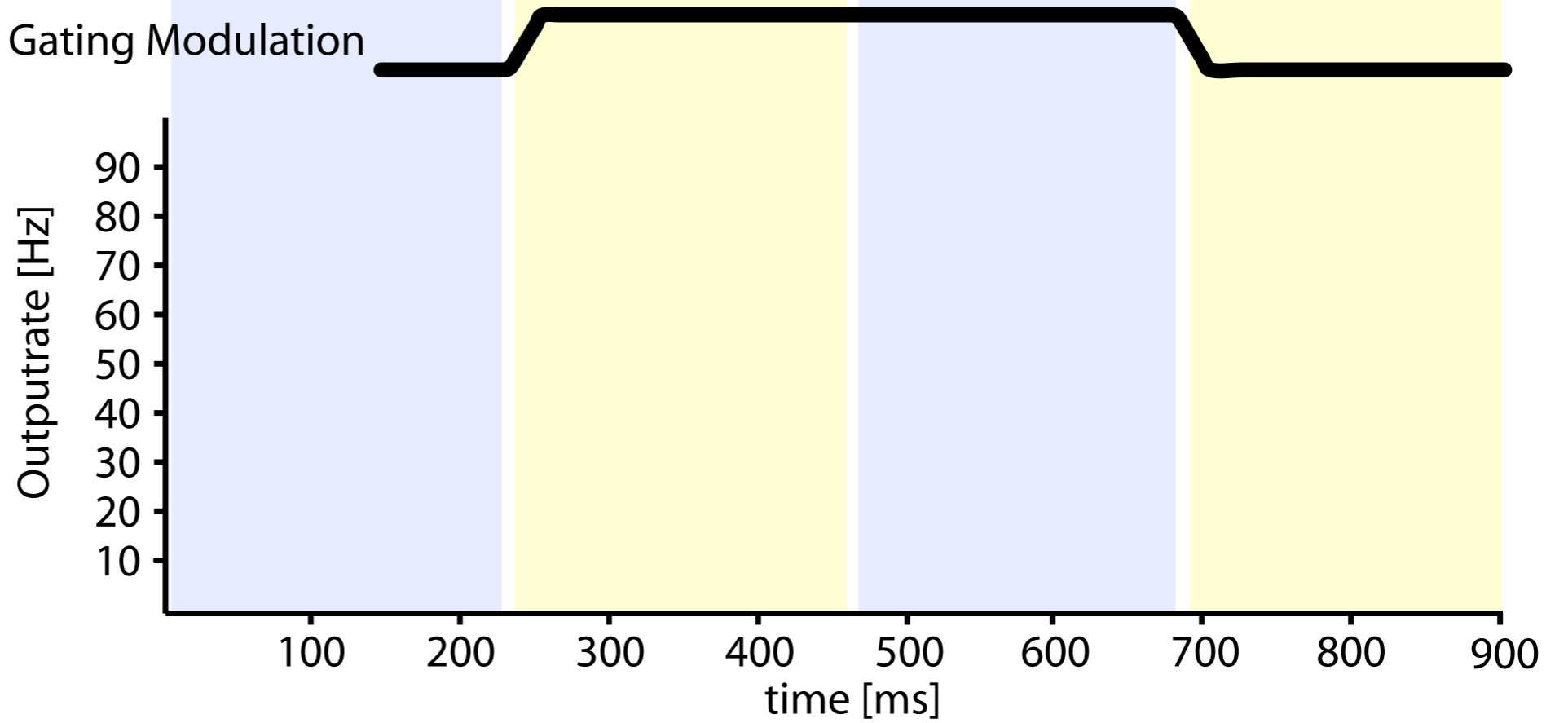
Gating Modulation



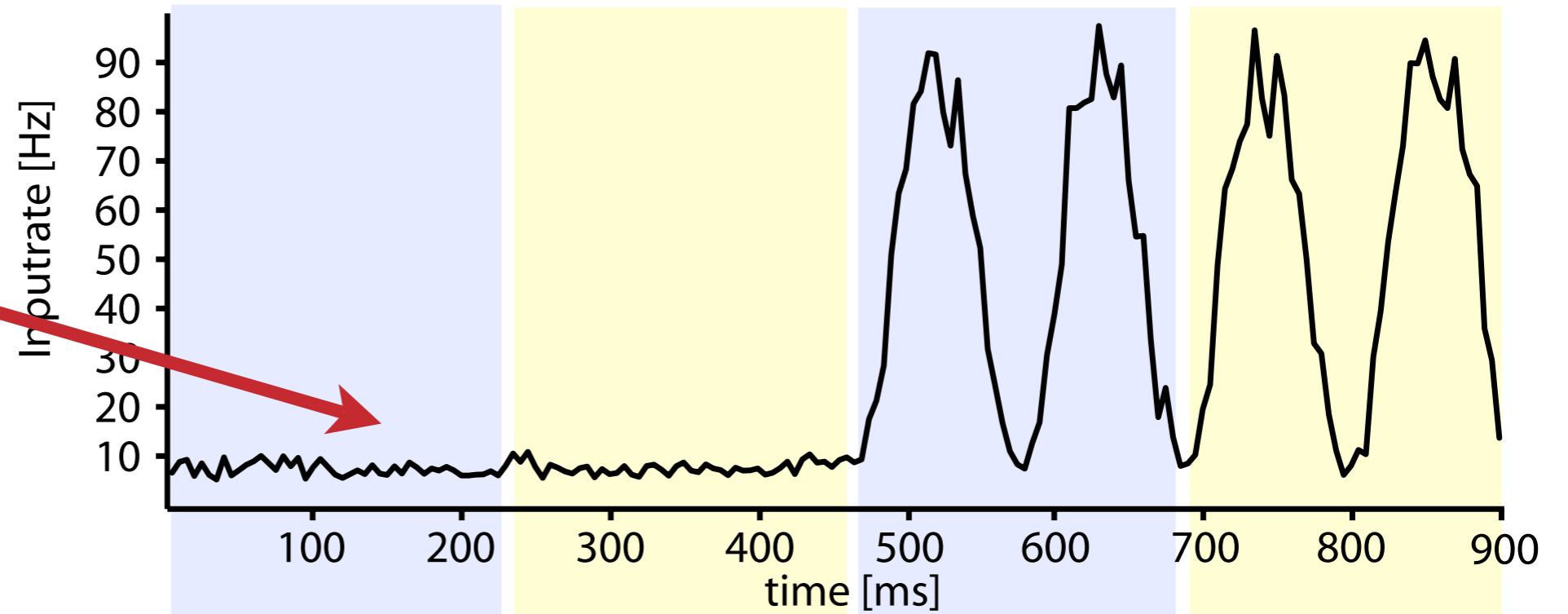
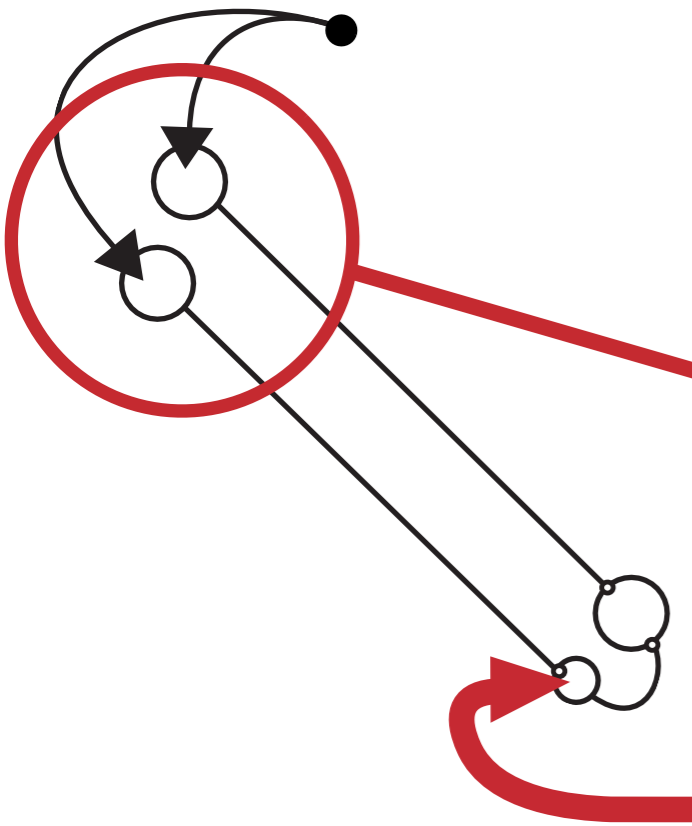
Detailed Balance



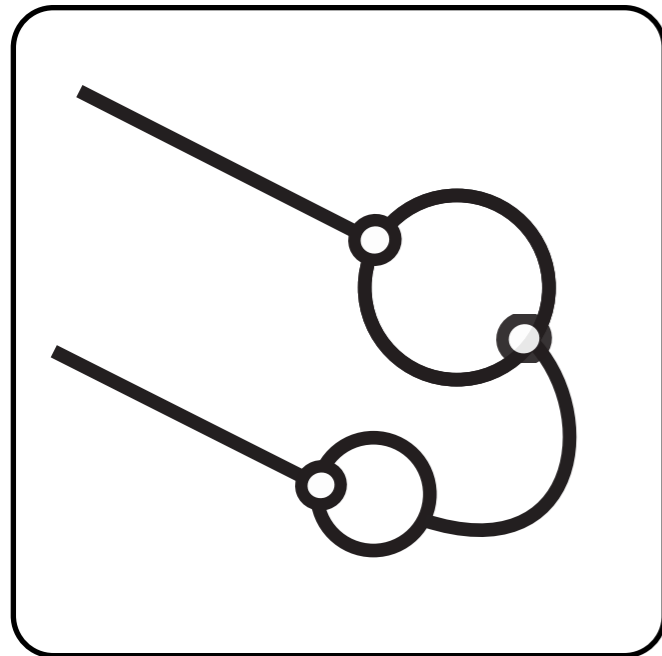
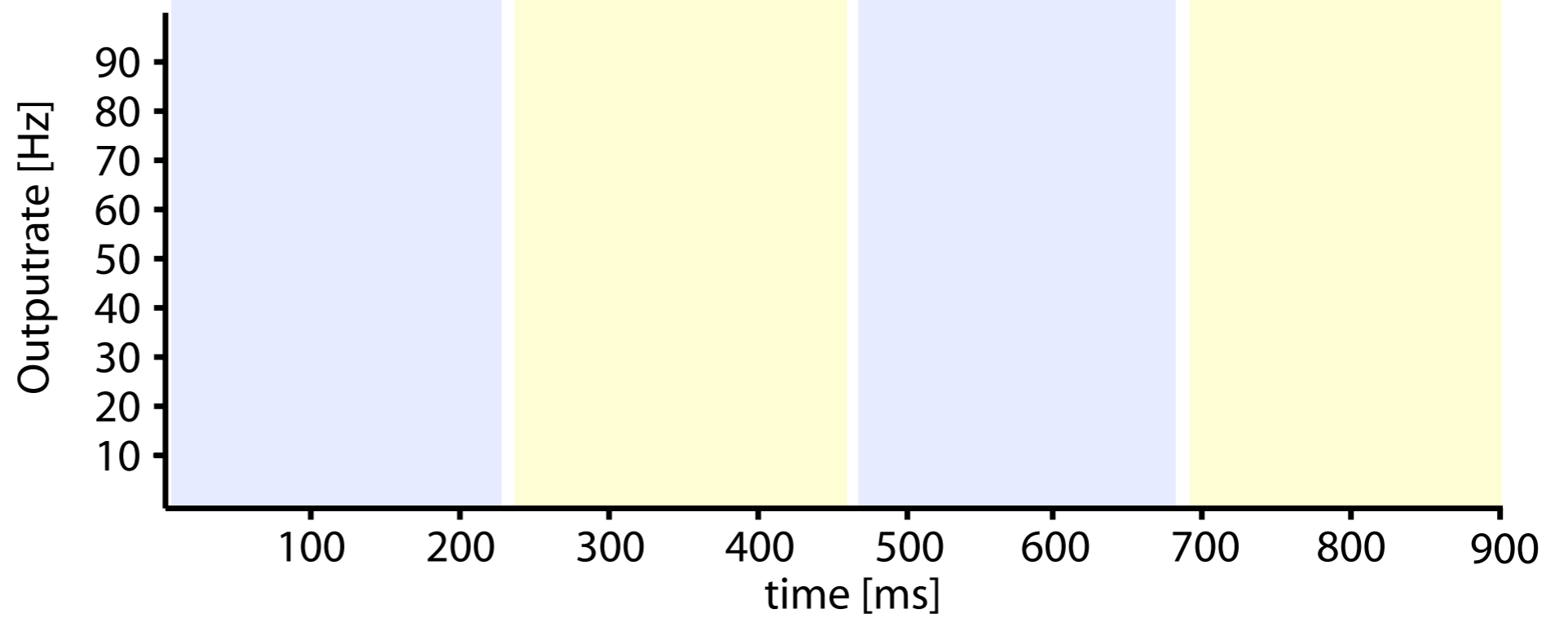
Gating Modulation



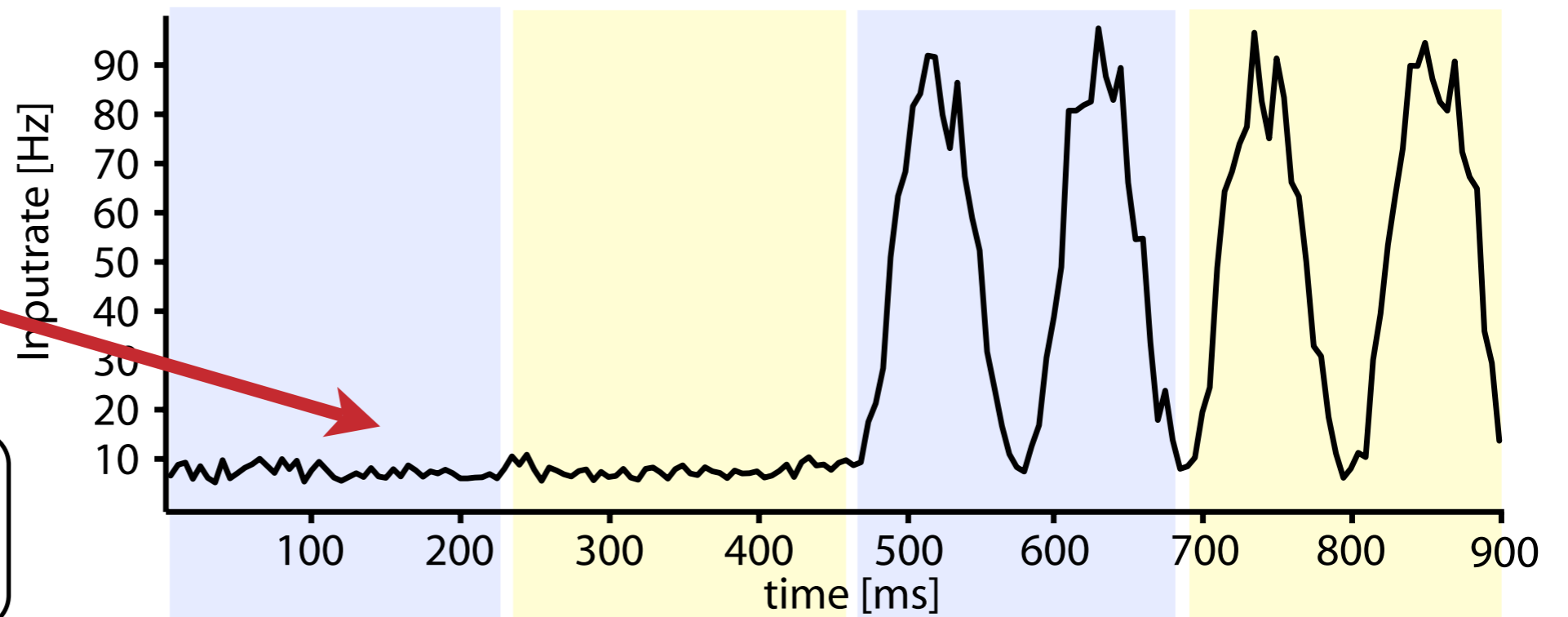
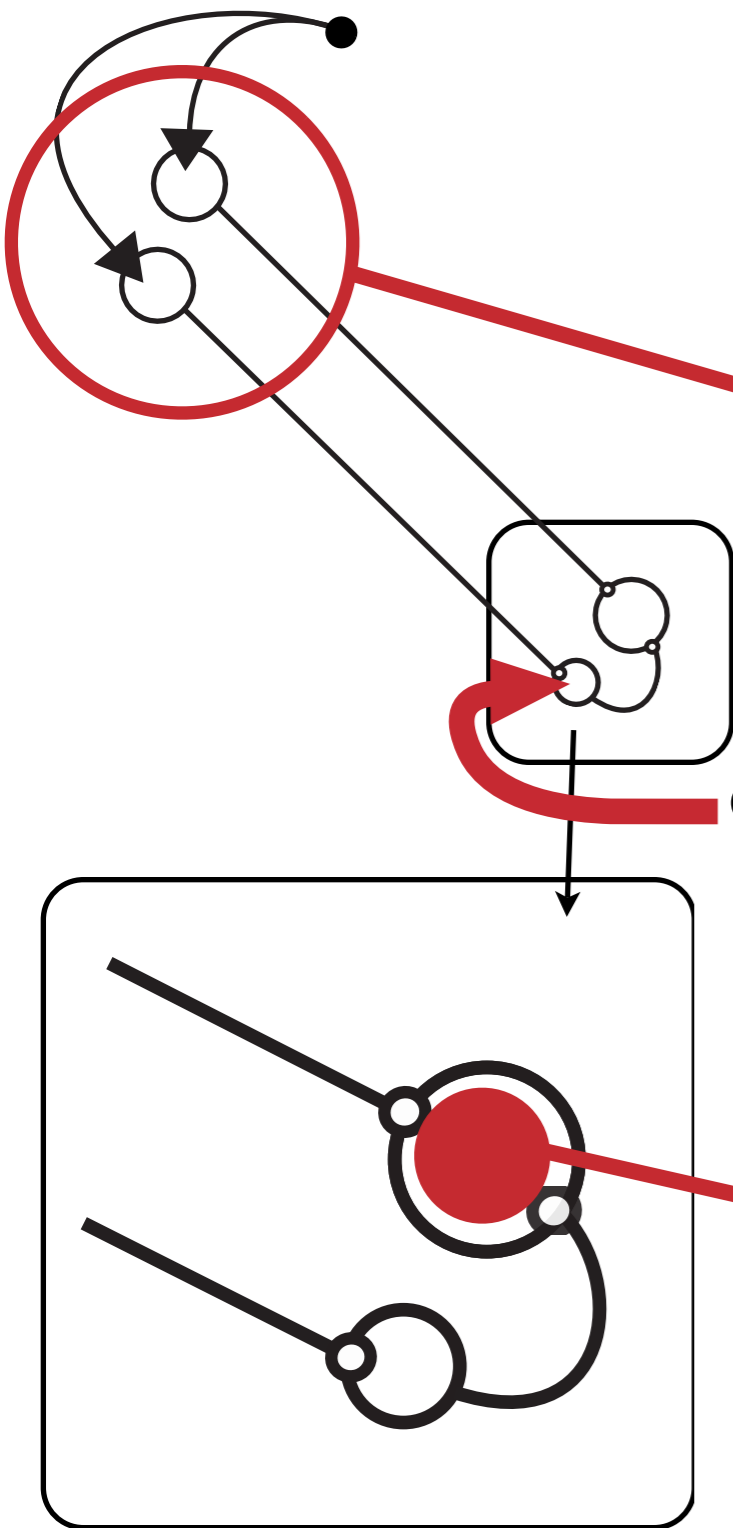
Detailed Balance



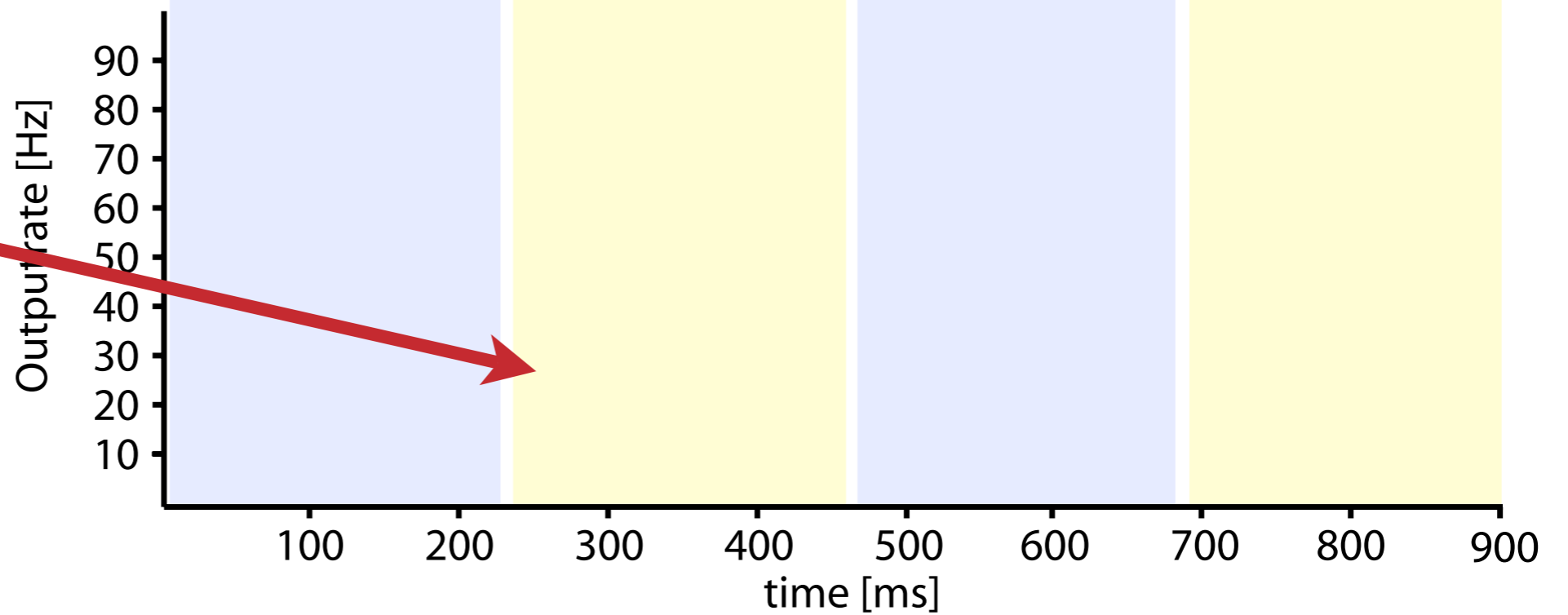
Gating Modulation



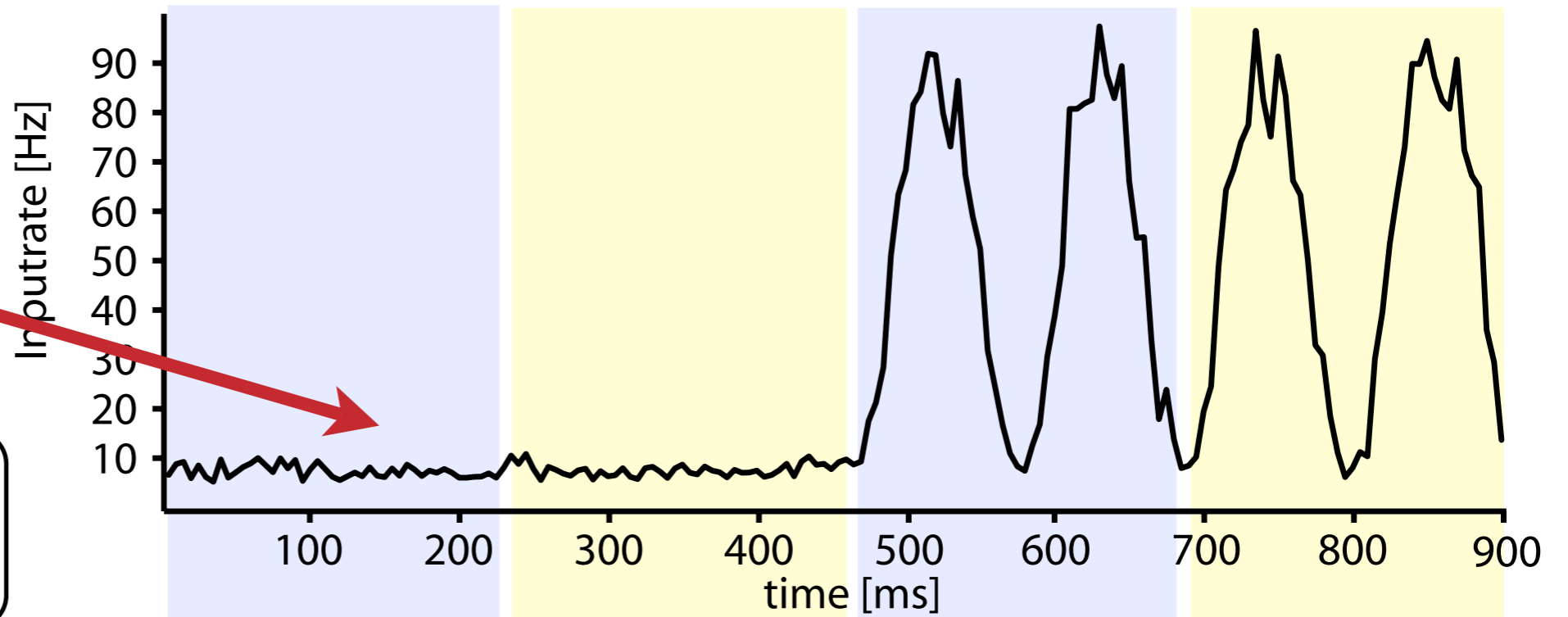
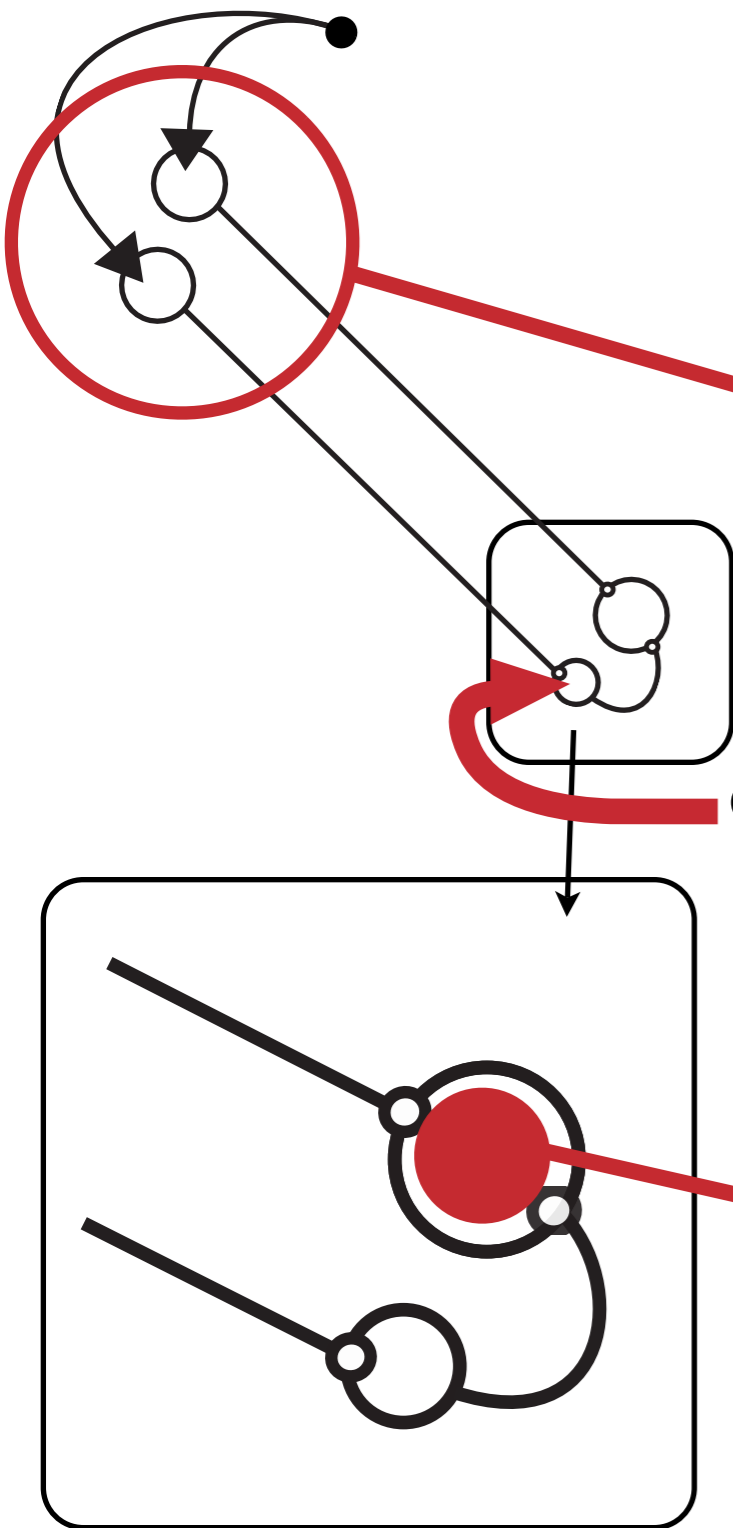
Detailed Balance



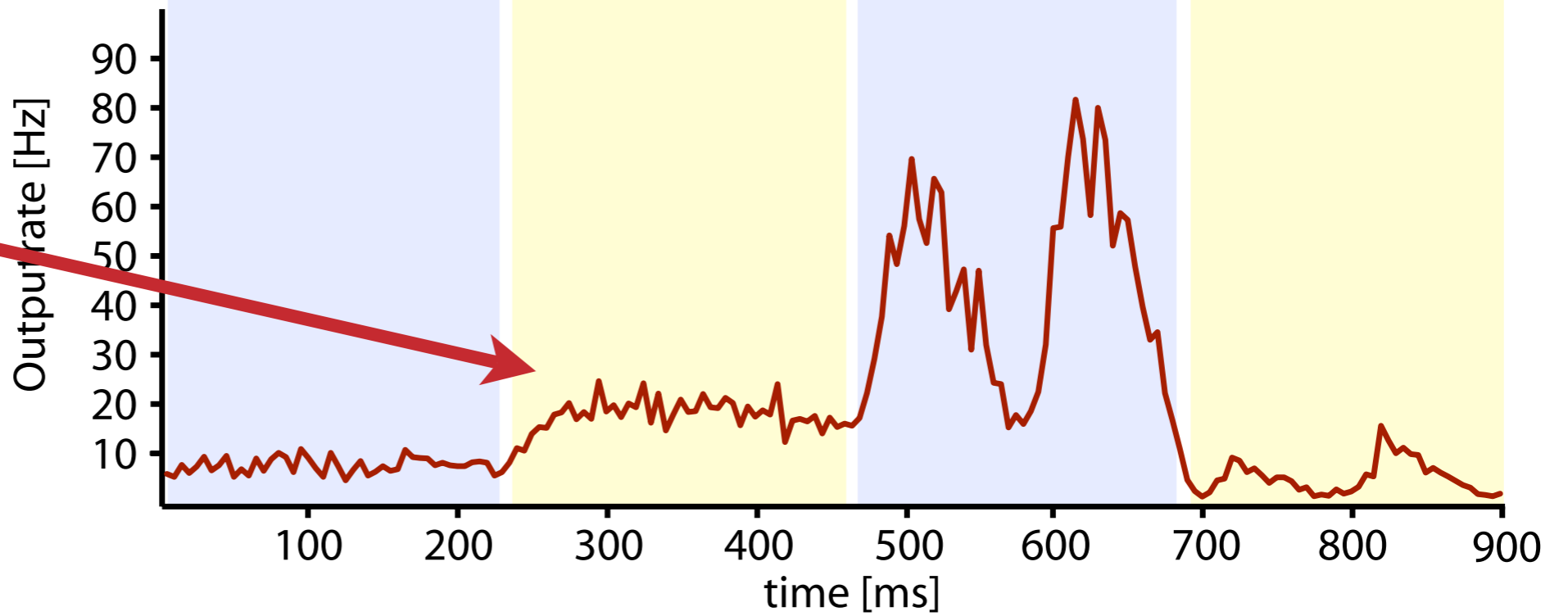
Gating Modulation



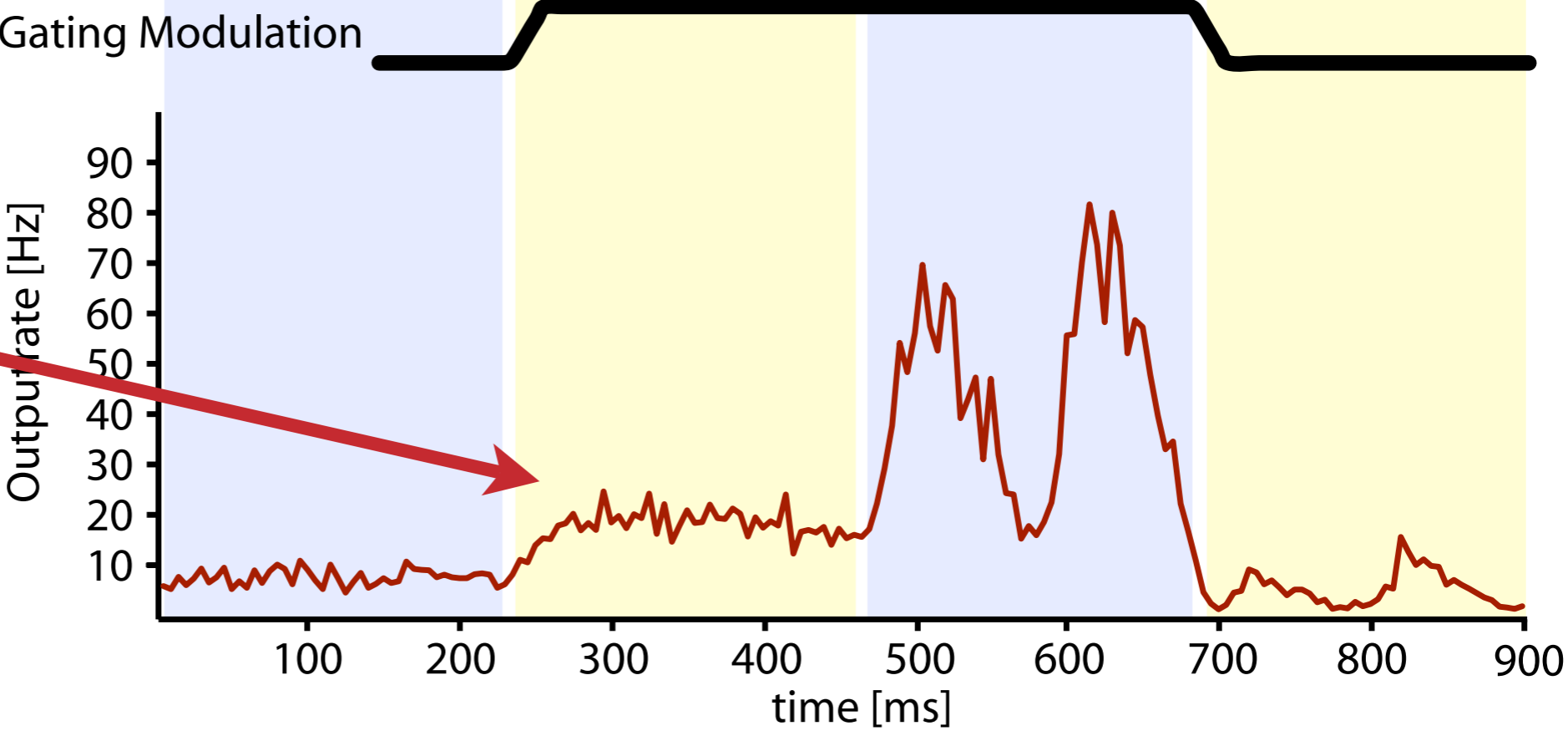
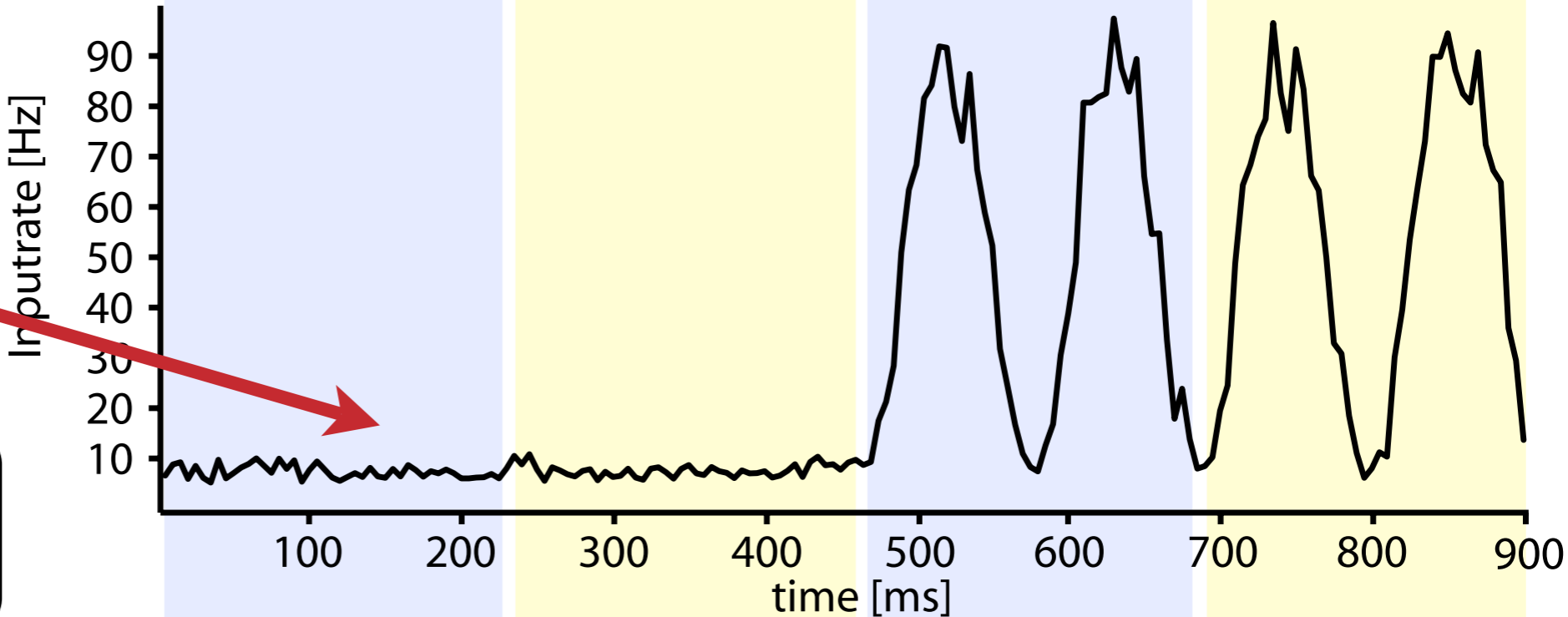
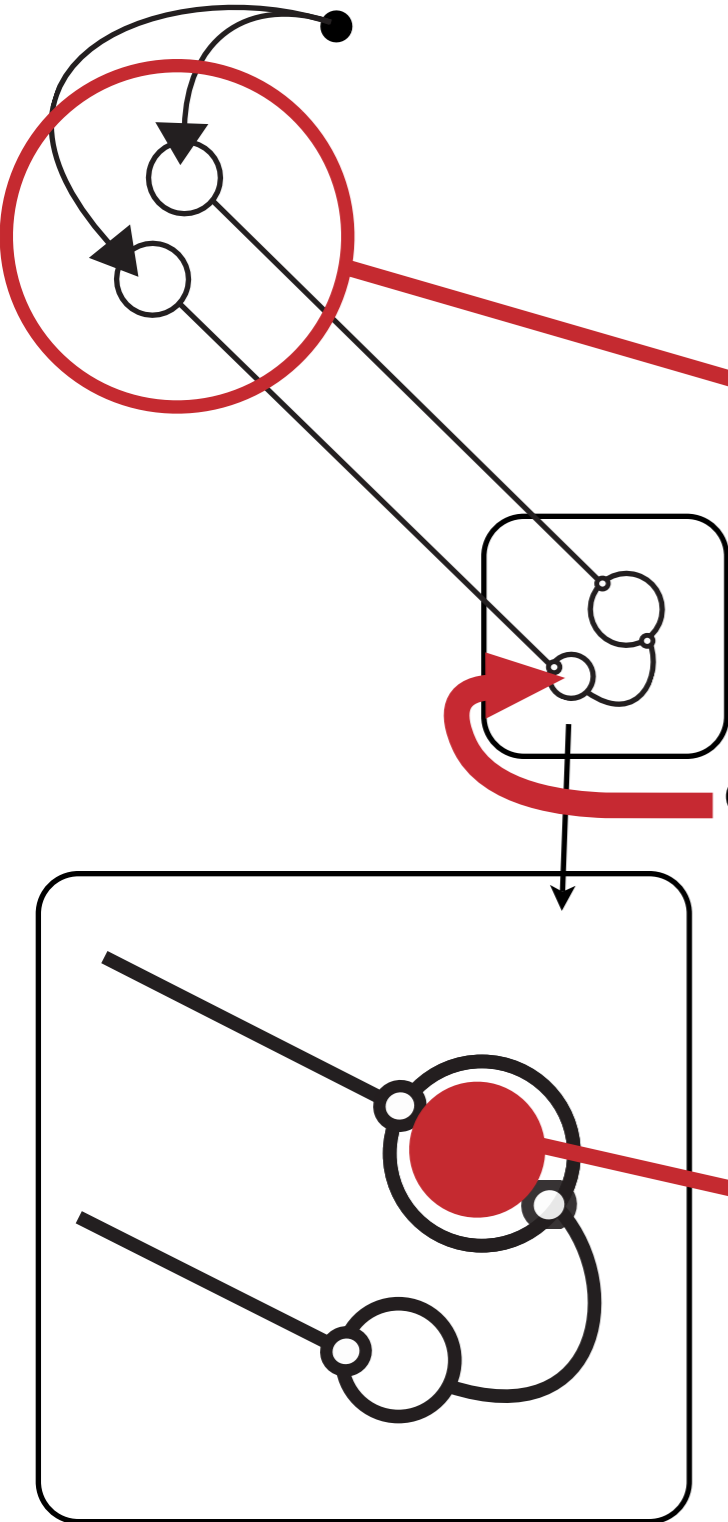
Detailed Balance



Gating Modulation

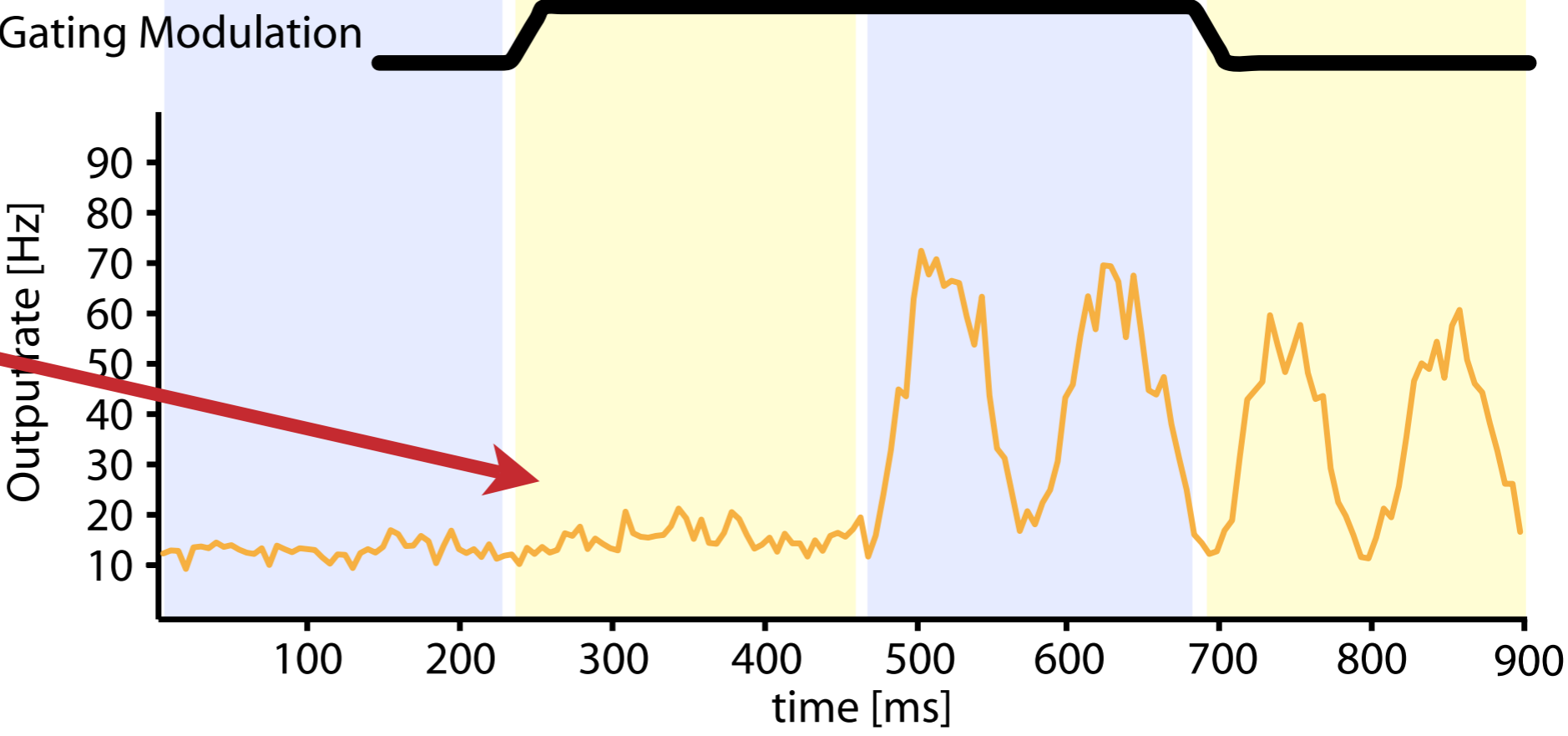
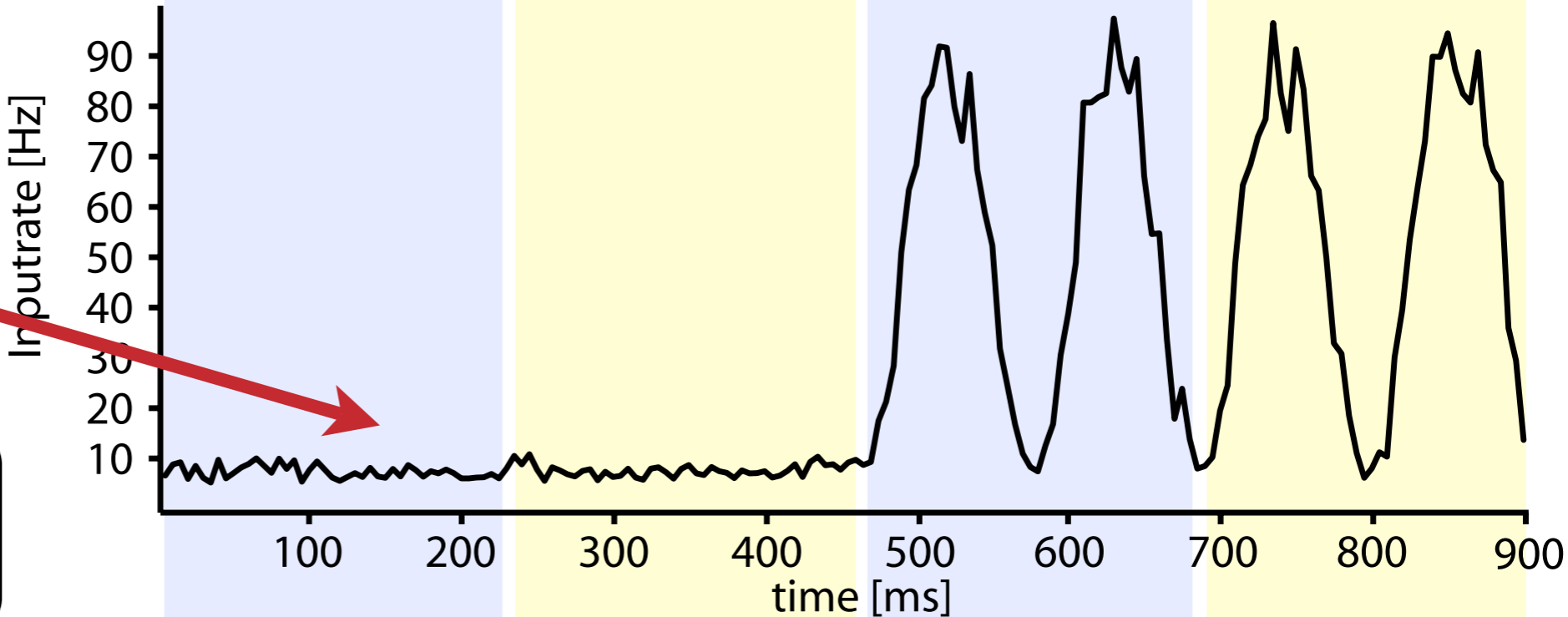
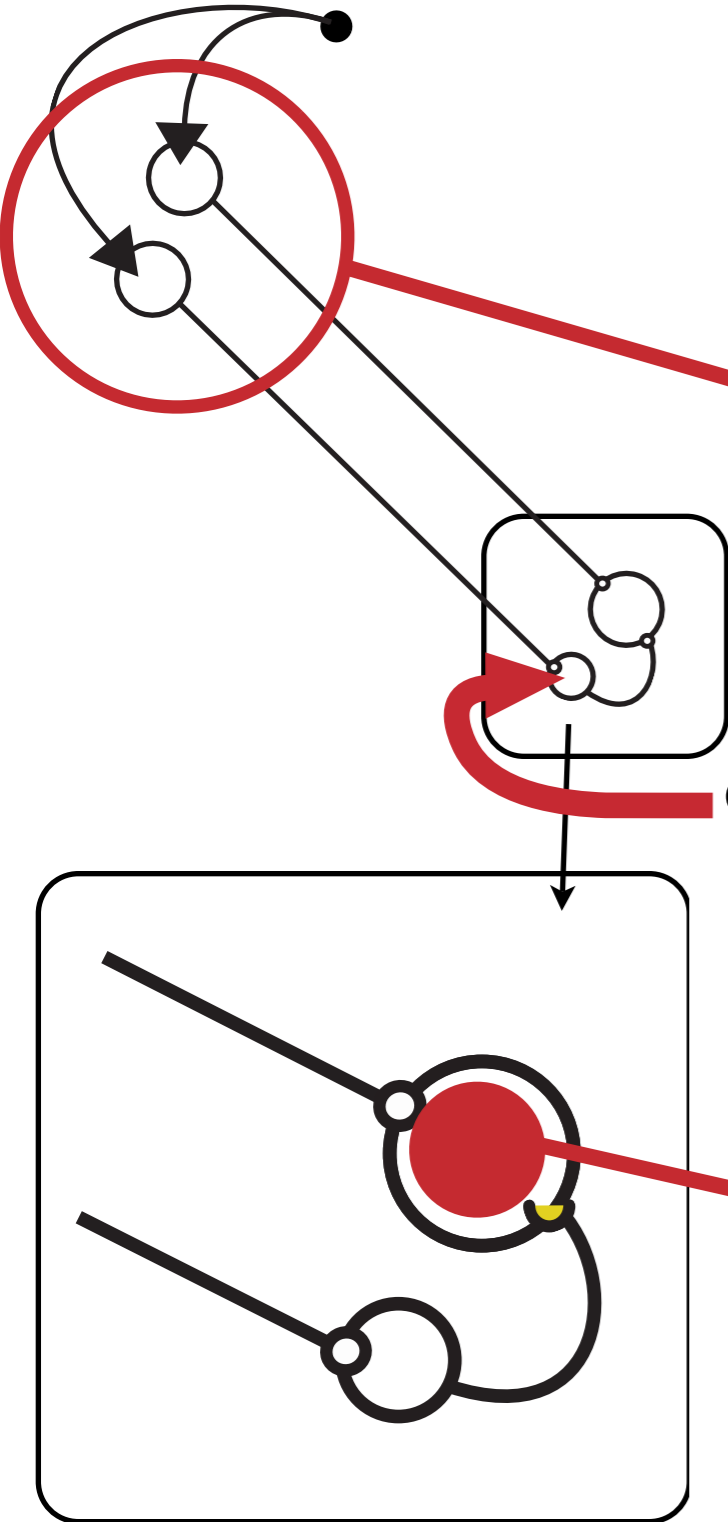


Decreased Inhibitory Function



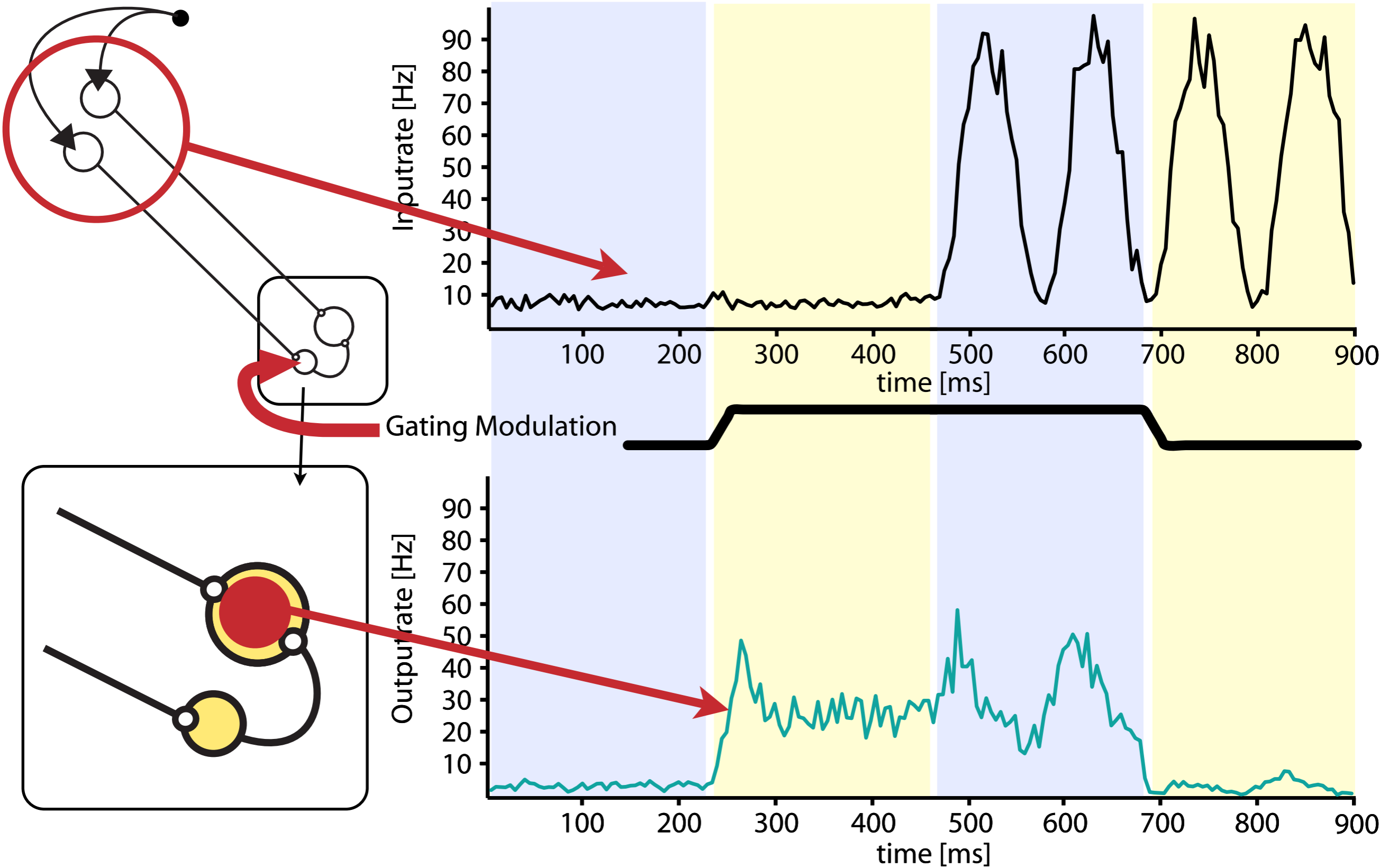
Gating Modulation

Decreased Inhibitory Function

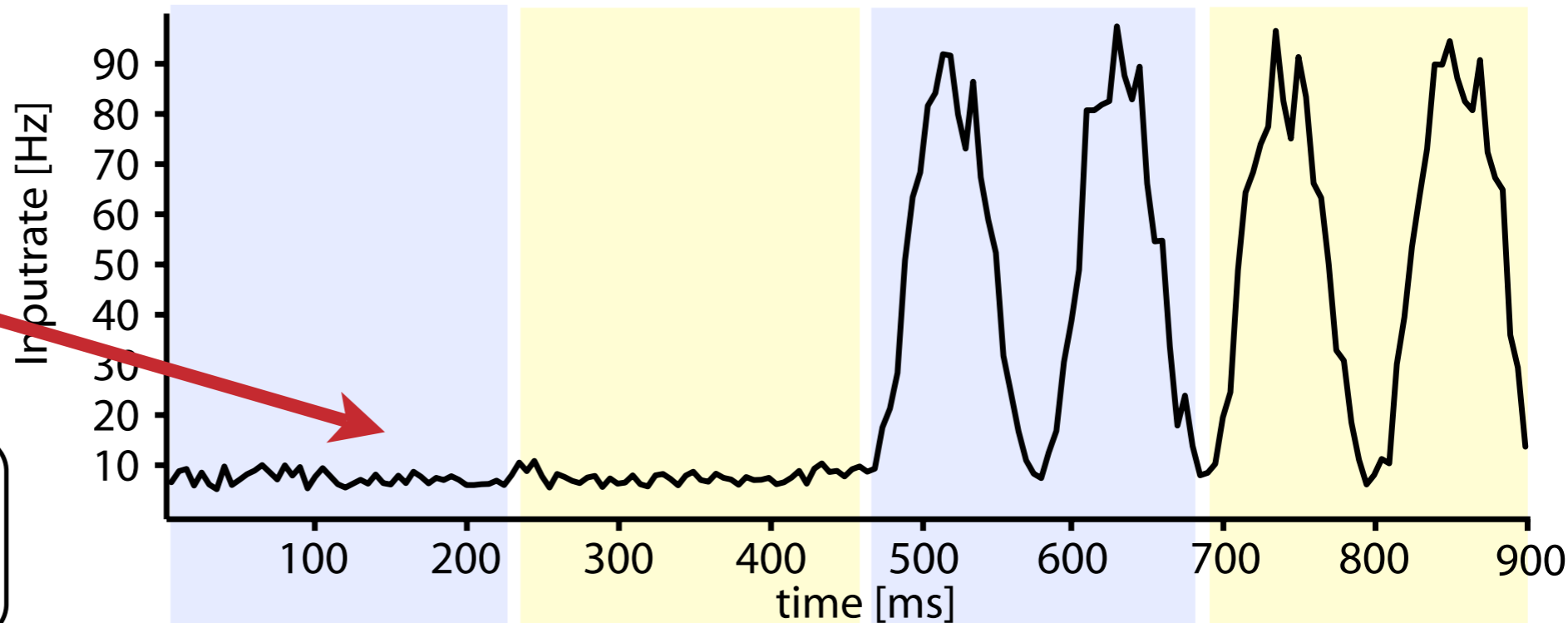
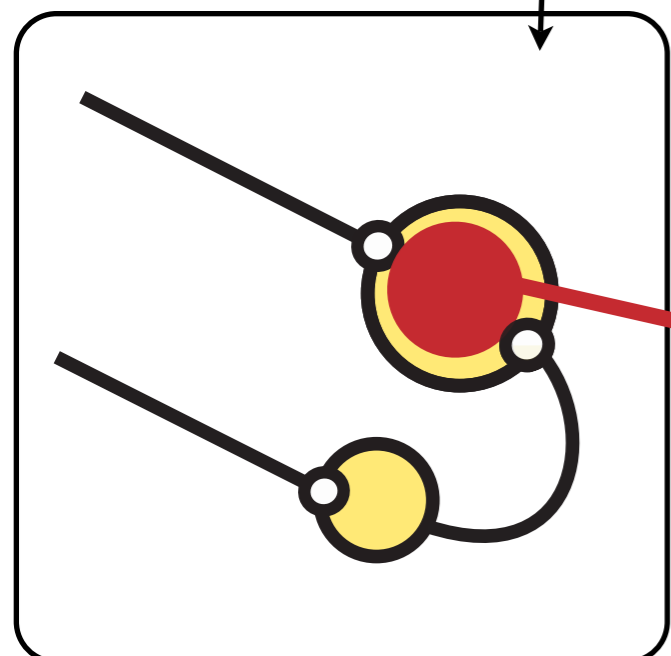
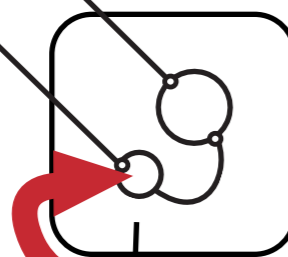
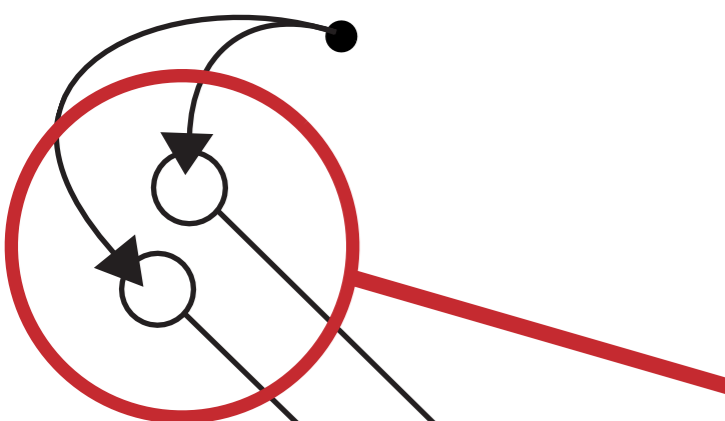


Gating Modulation

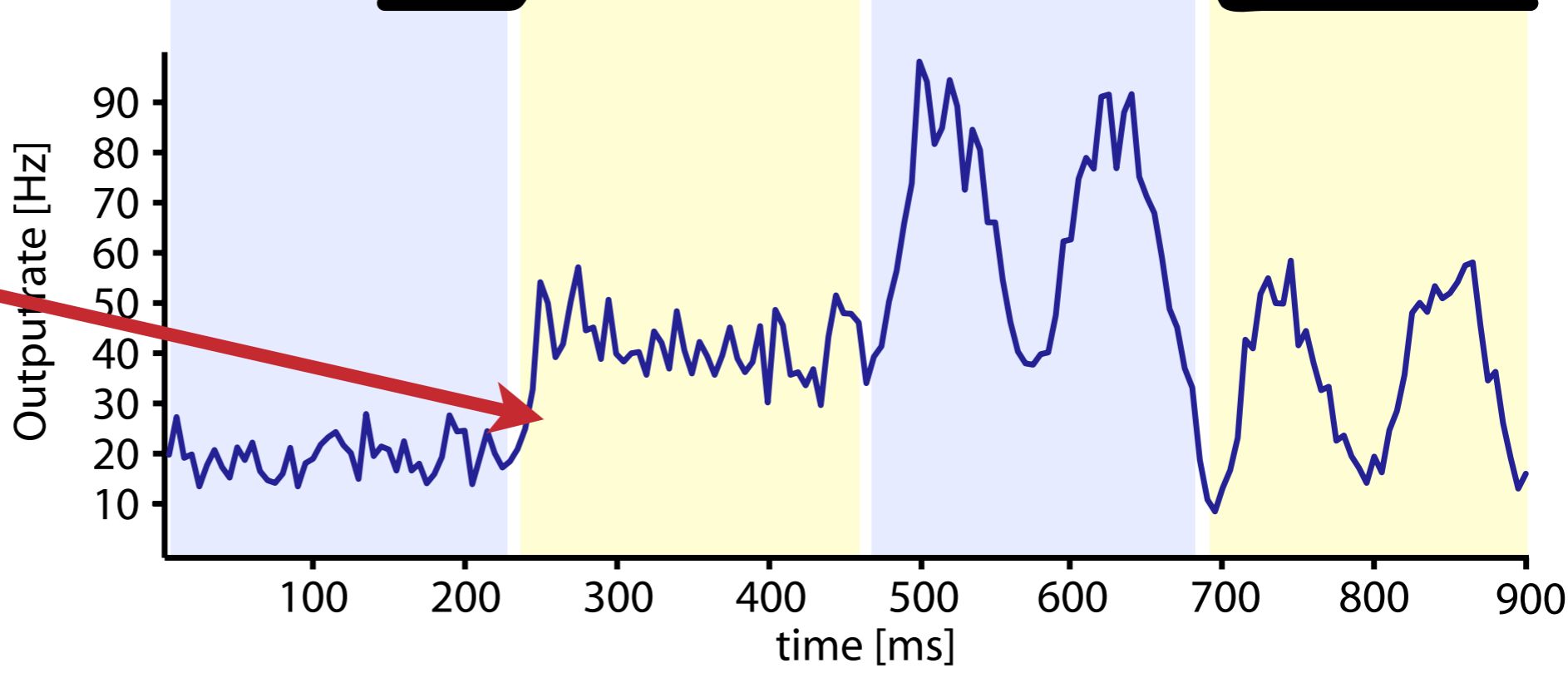
Hyperexcitability in the Target



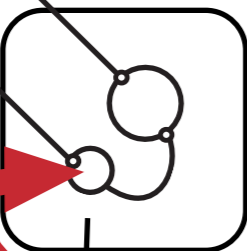
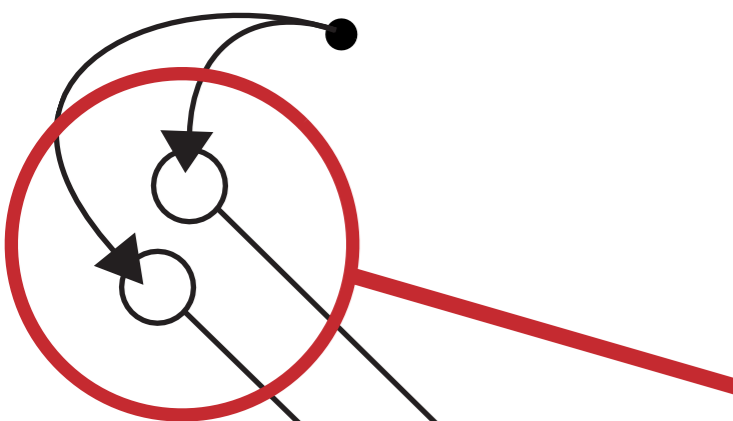
Hyperexcitability + Inhibitory Deficit



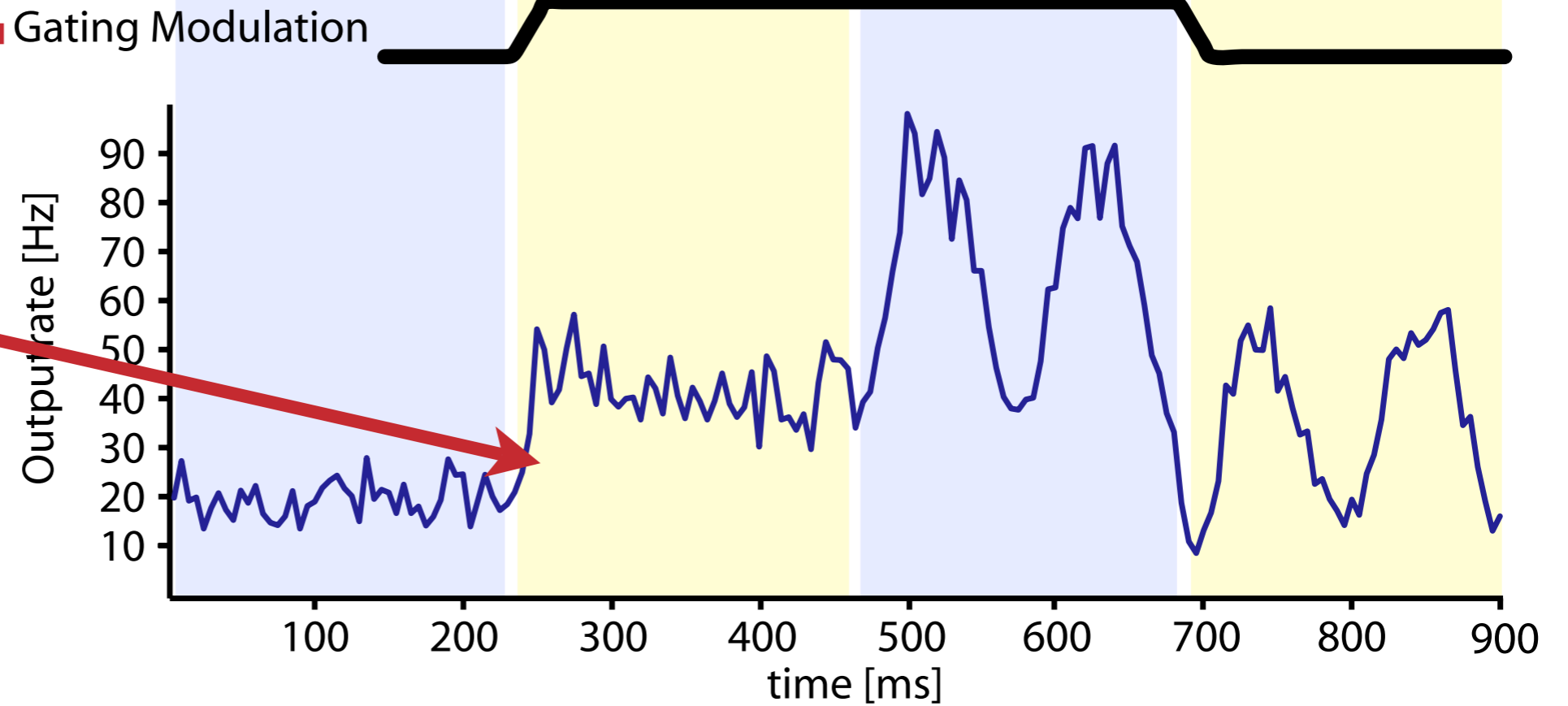
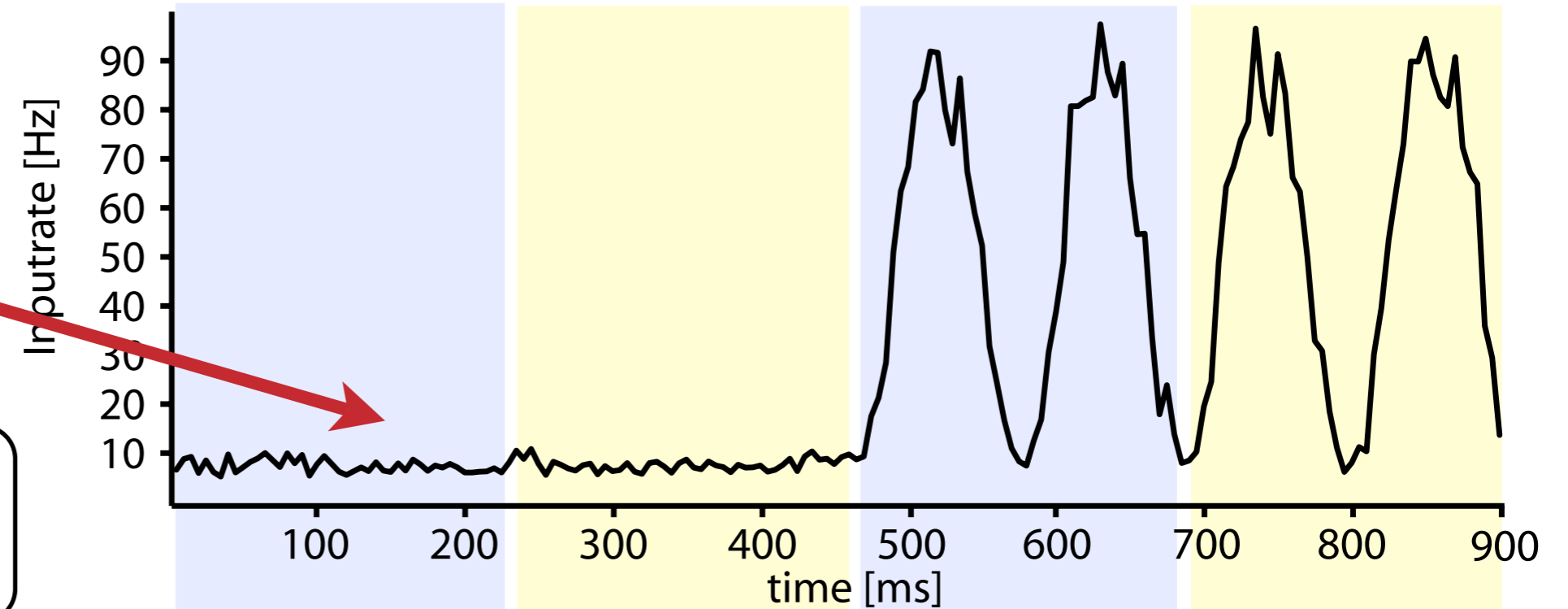
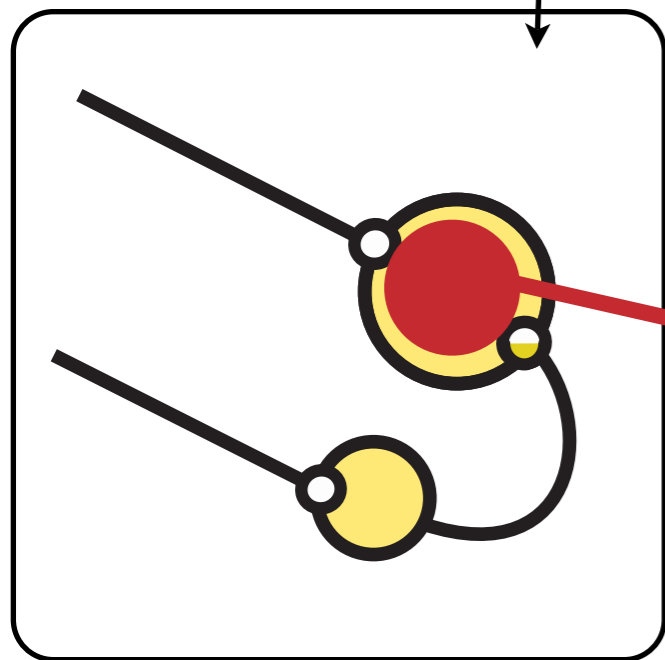
Gating Modulation



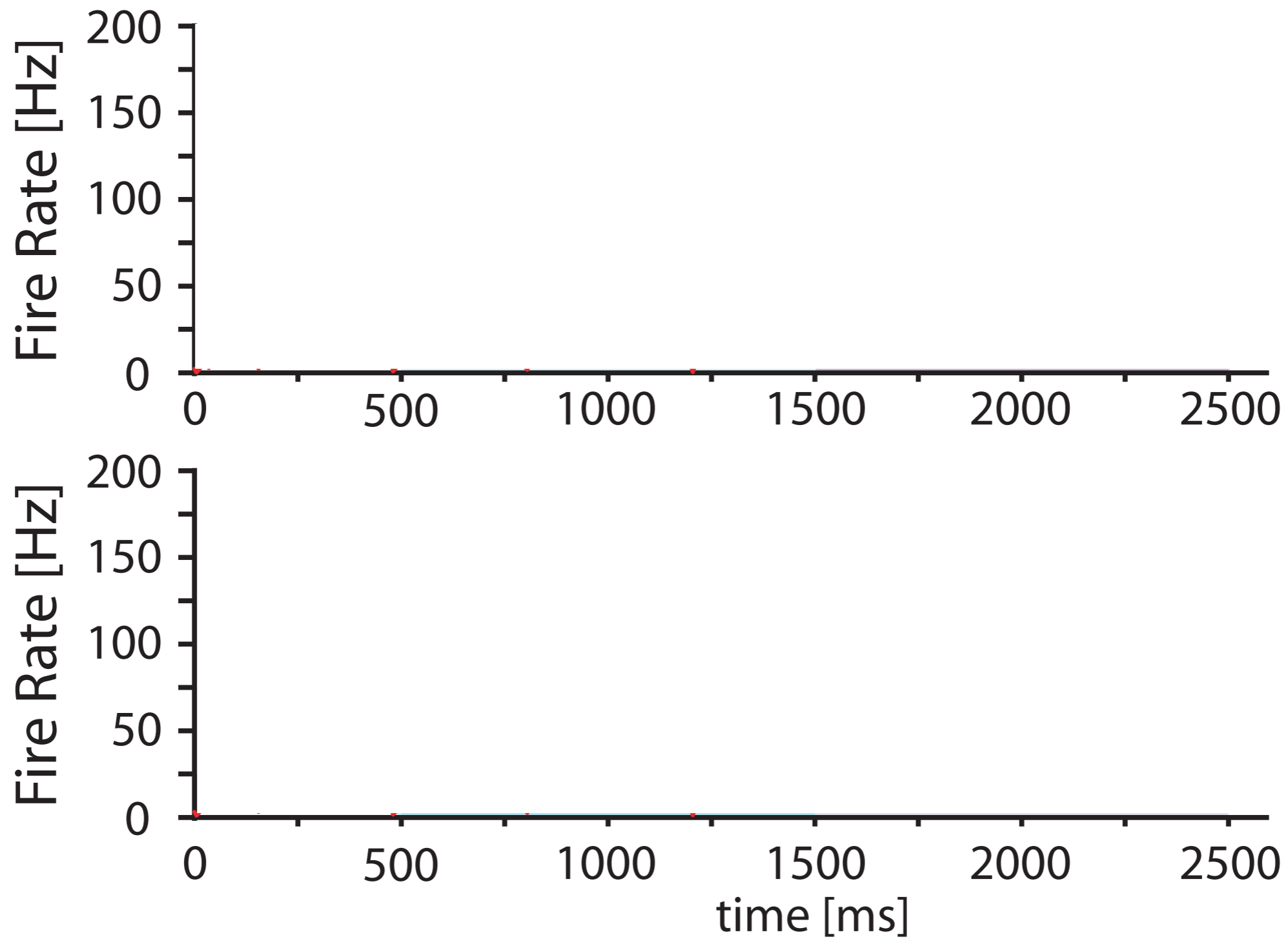
Hyperexcitability + Inhibitory Deficit



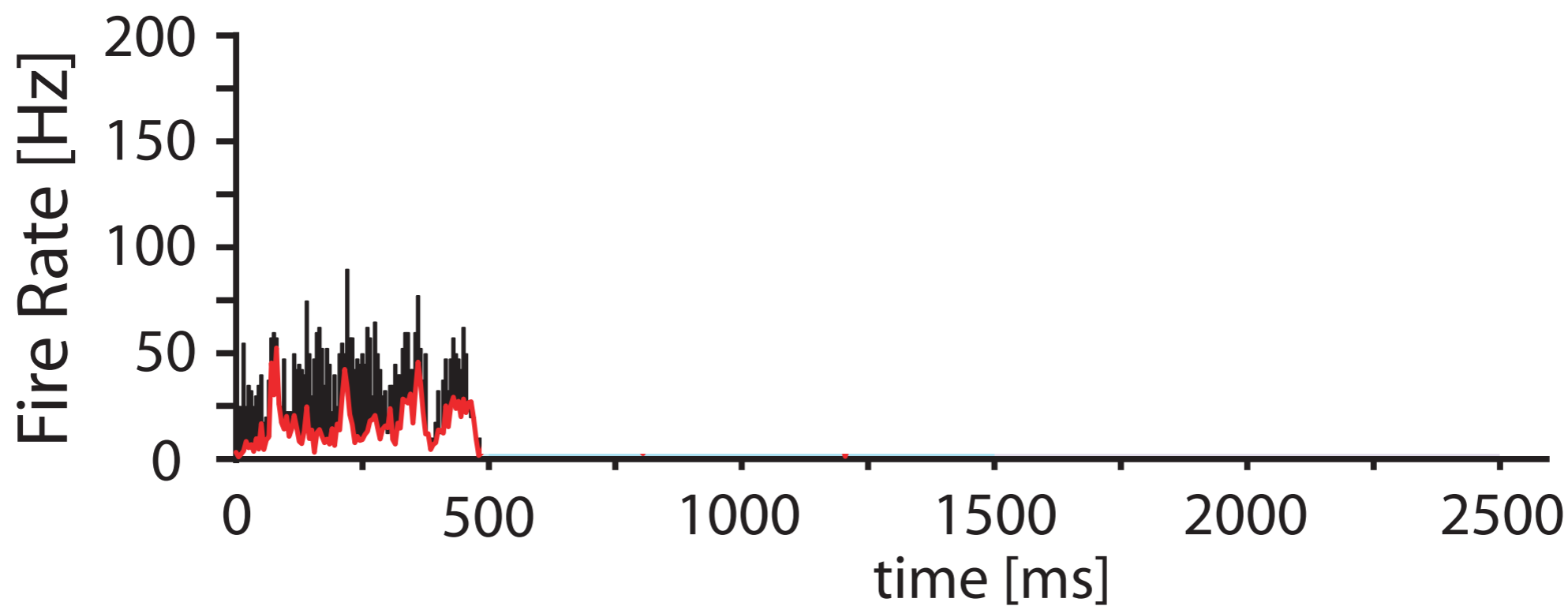
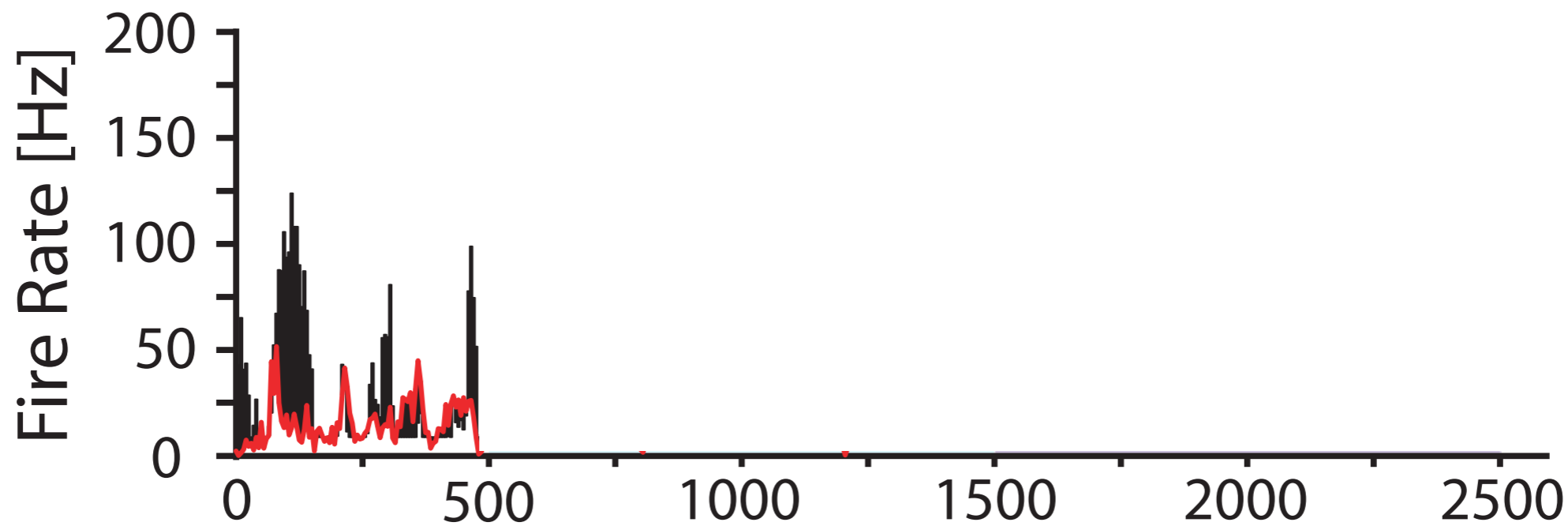
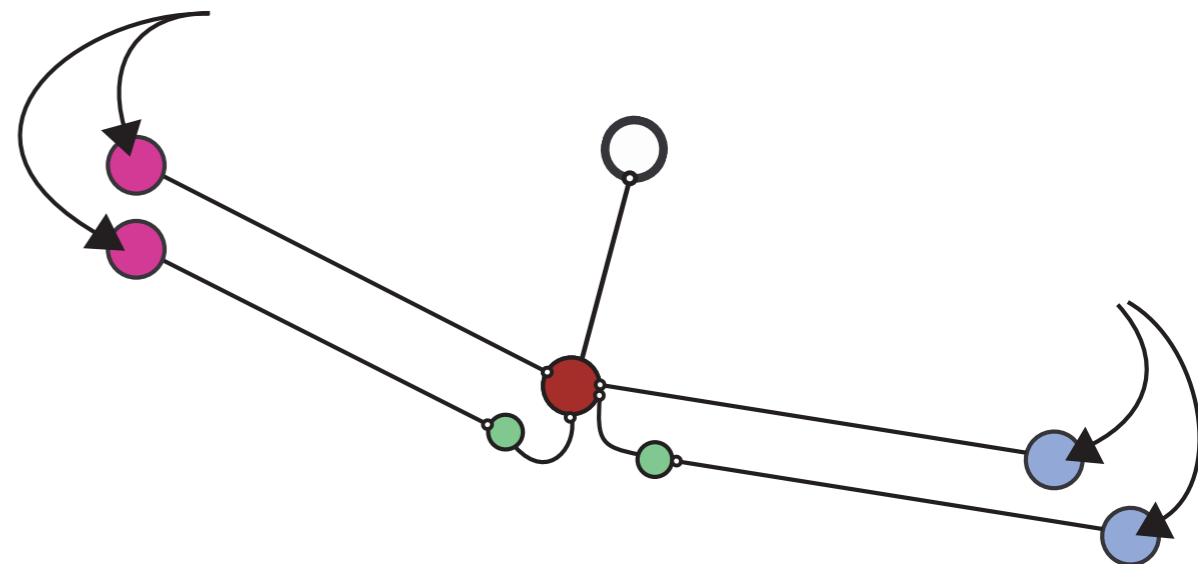
Gating Modulation



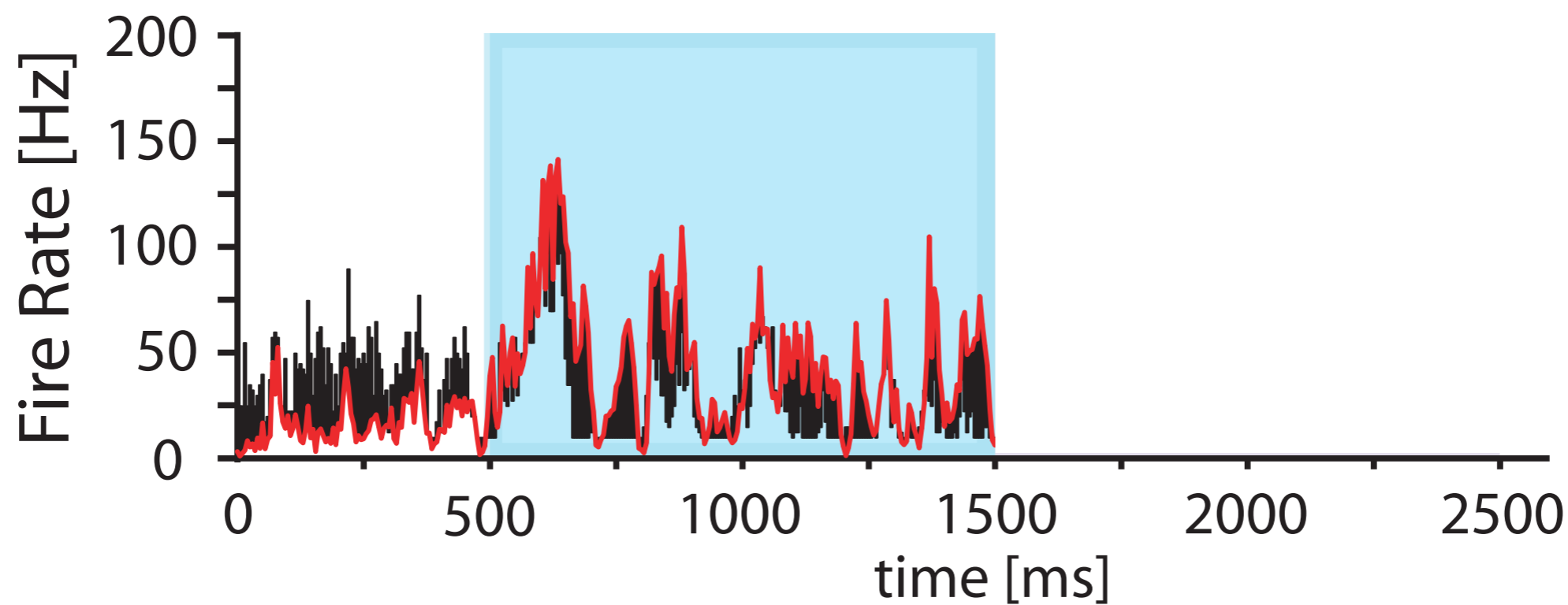
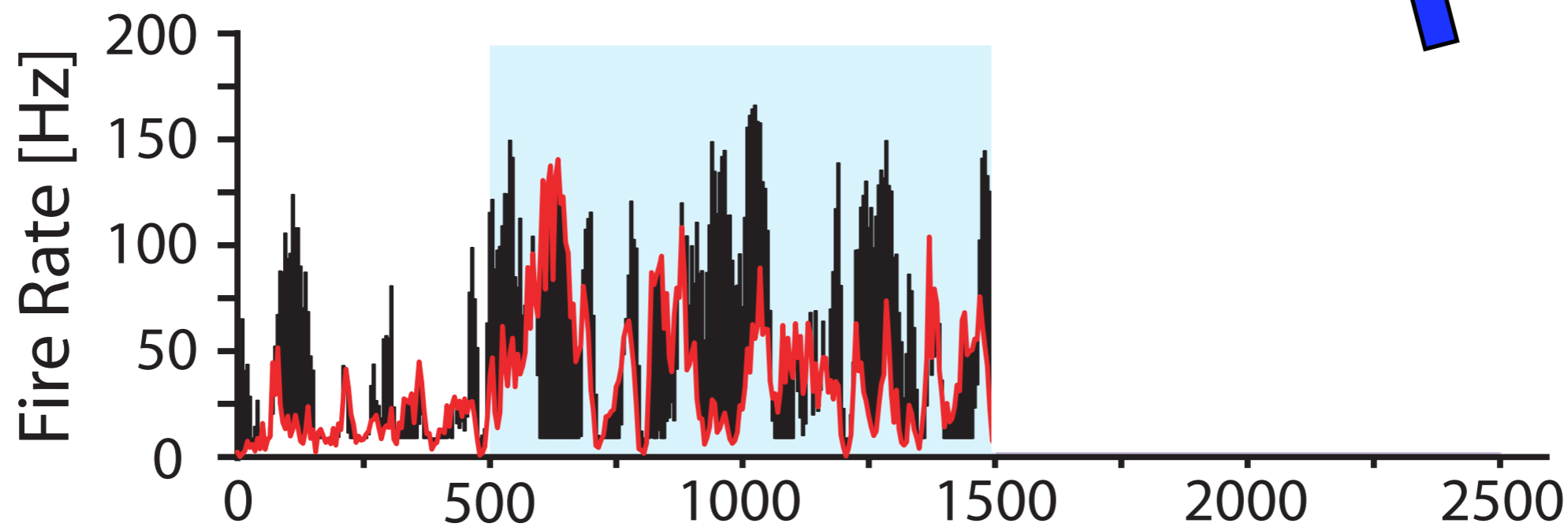
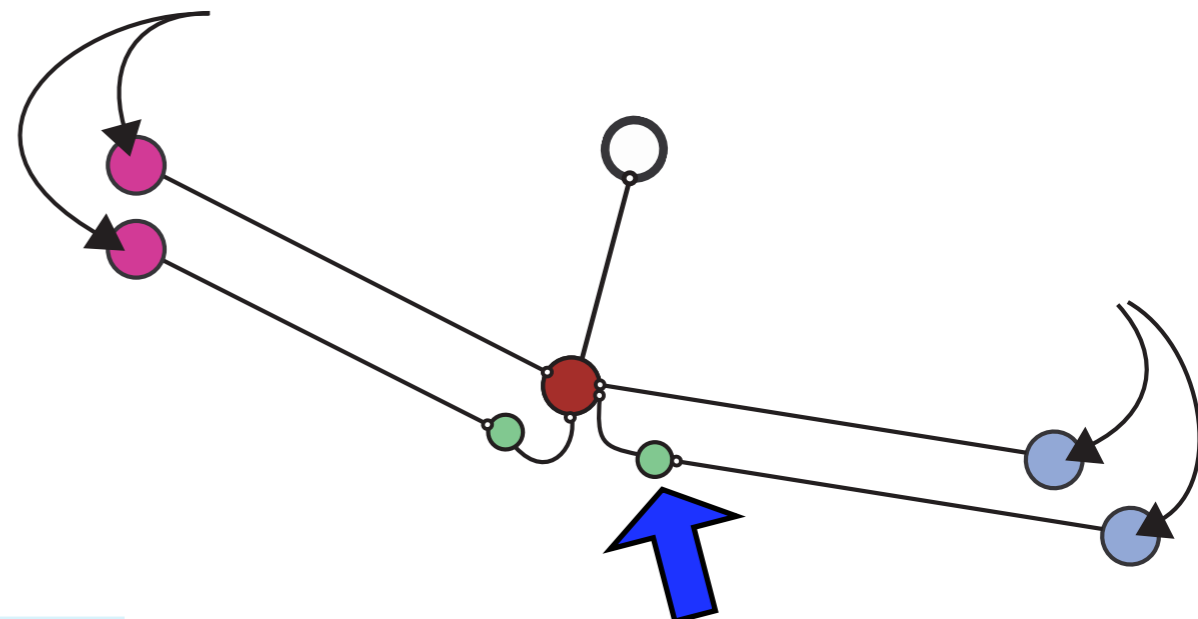
Multiple Signal Gating



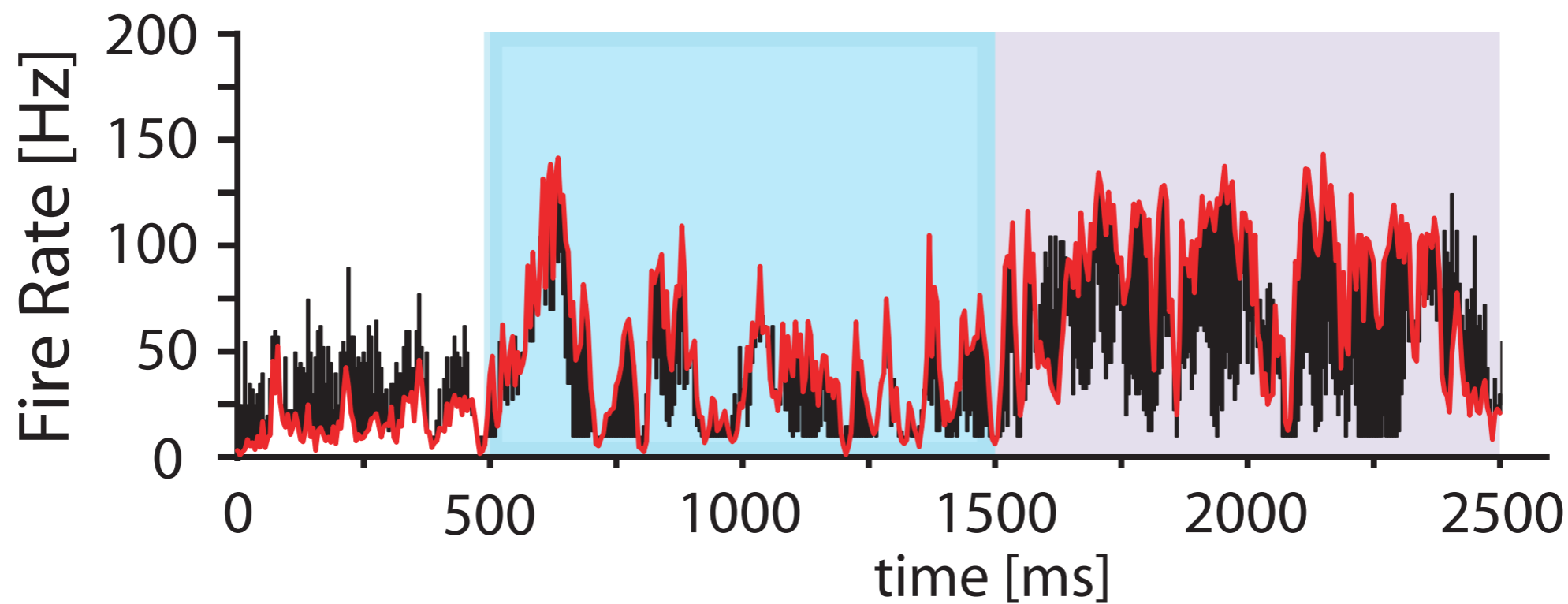
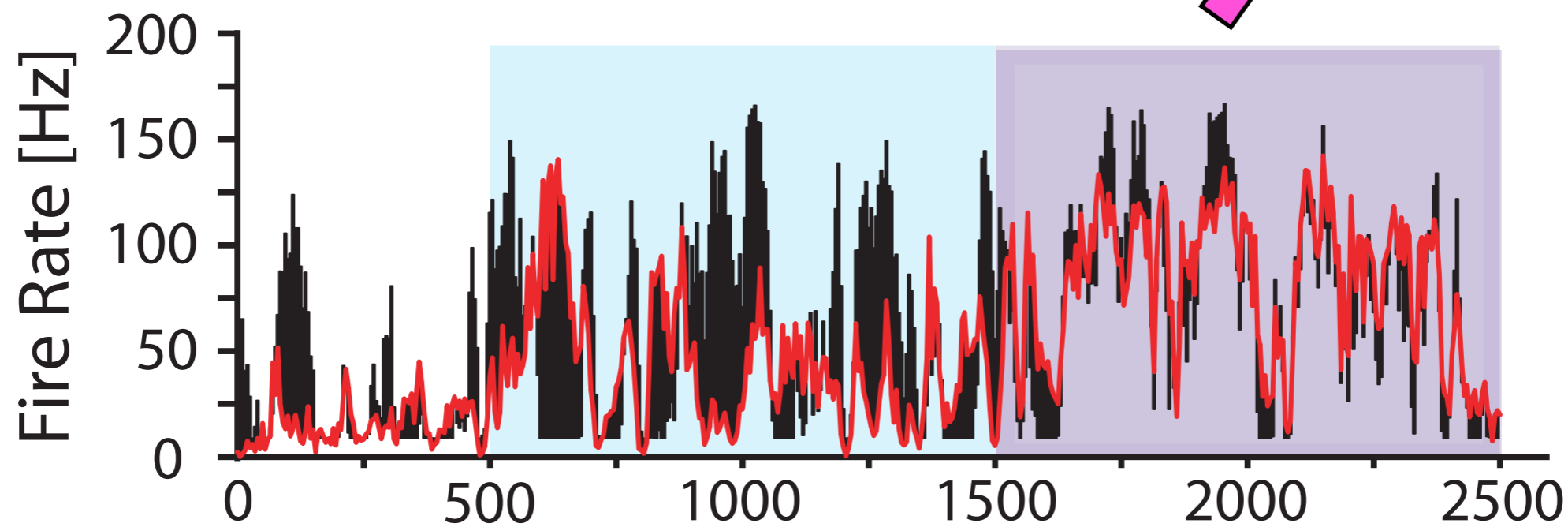
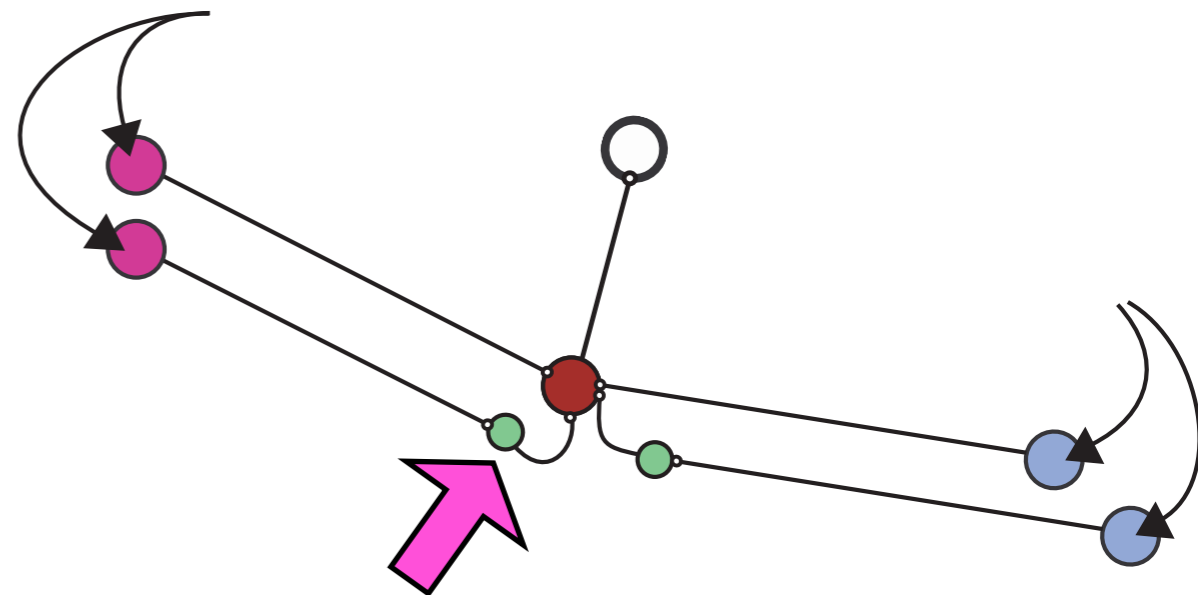
Multiple Signal Gating



Multiple Signal Gating



Multiple Signal Gating



200 inhibitory neurons

