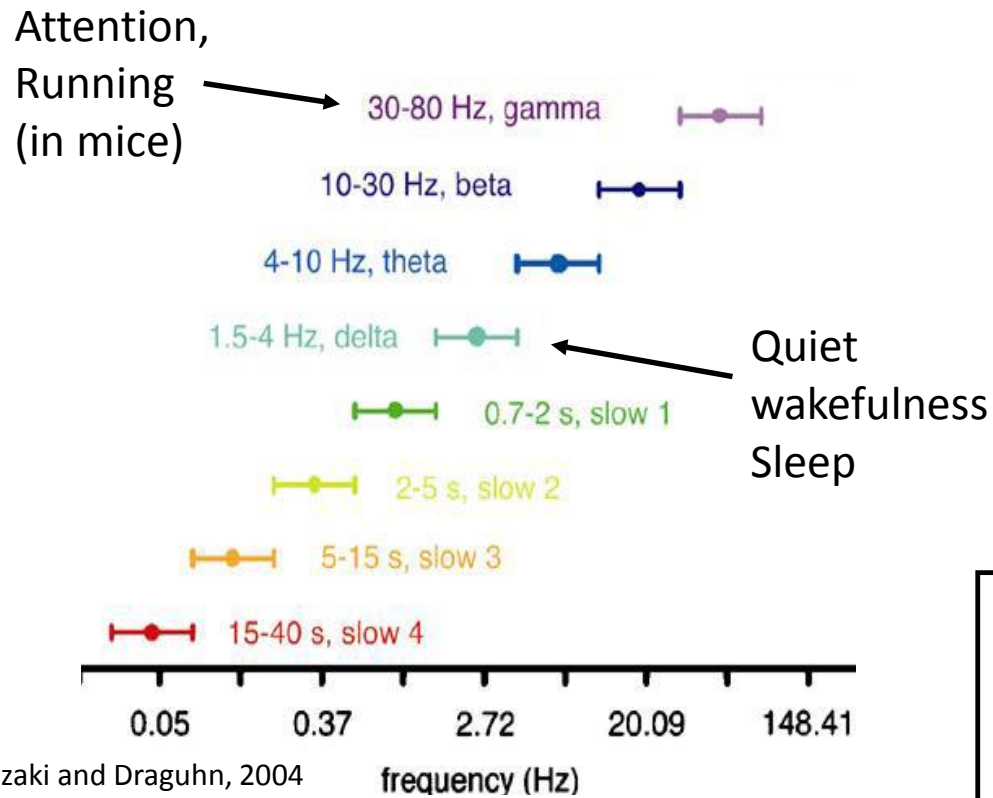


Behavioral state-dependent cell-type specific gamma-band synchronization in V1 of the awake mouse

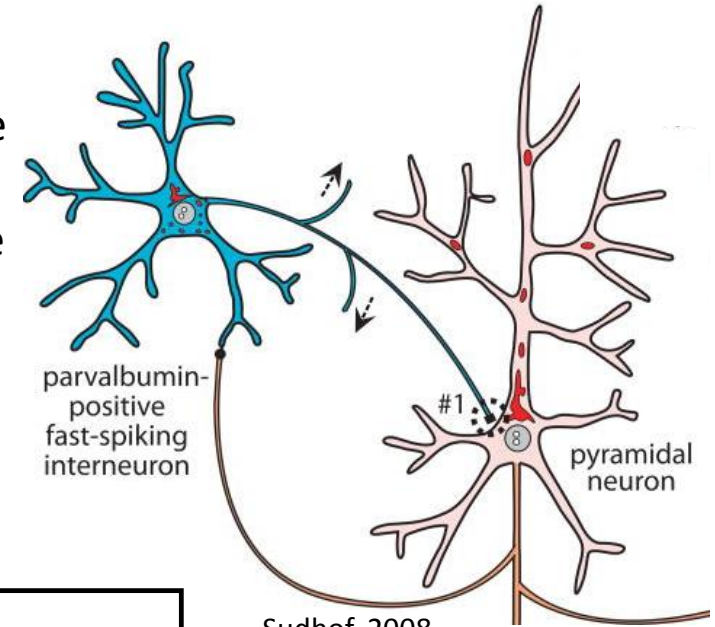
Network Level: Local Field Potential



Cellular Level: Action Potentials

PV+

- Low membrane resistance
- Fast membrane time constant

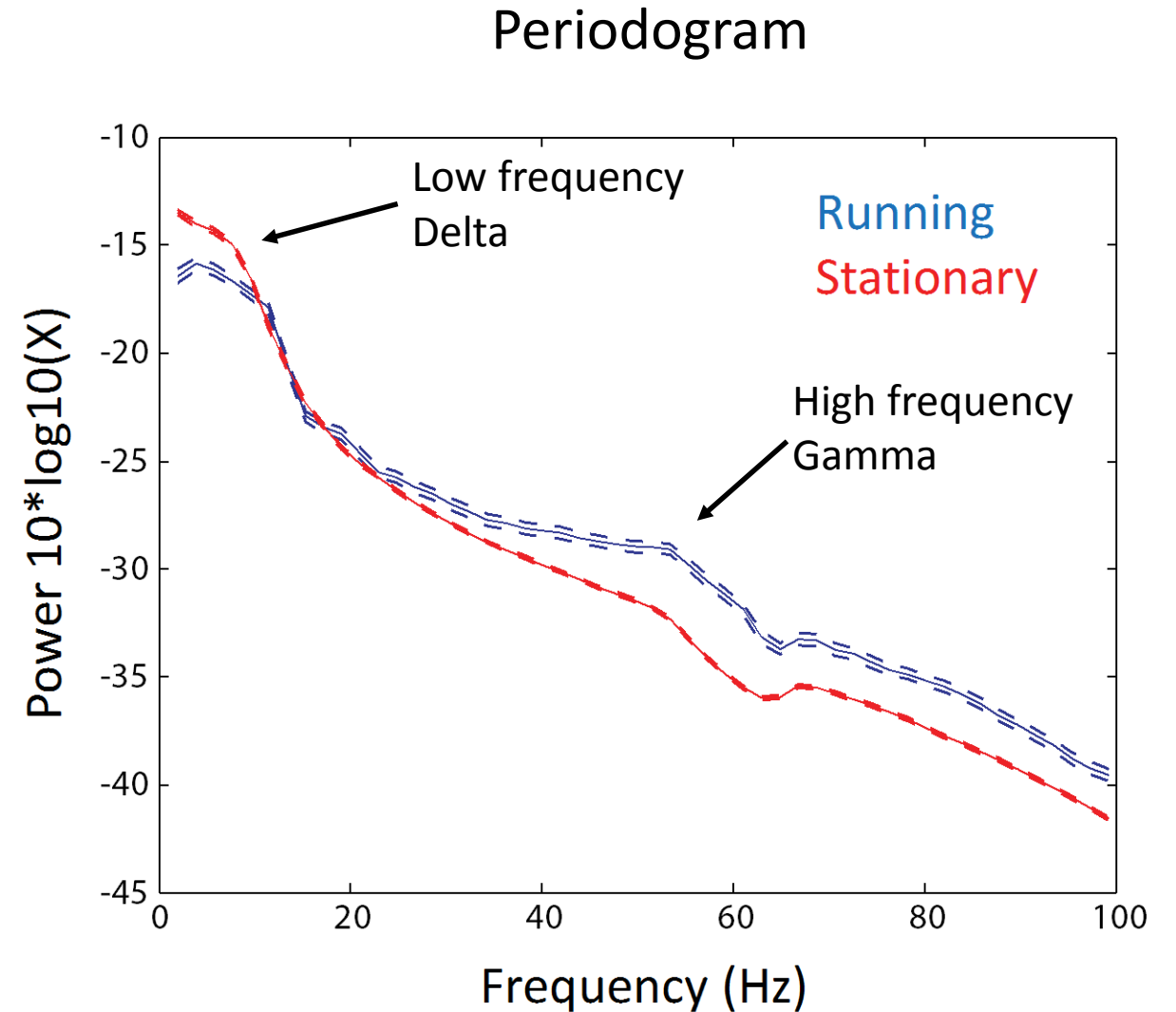
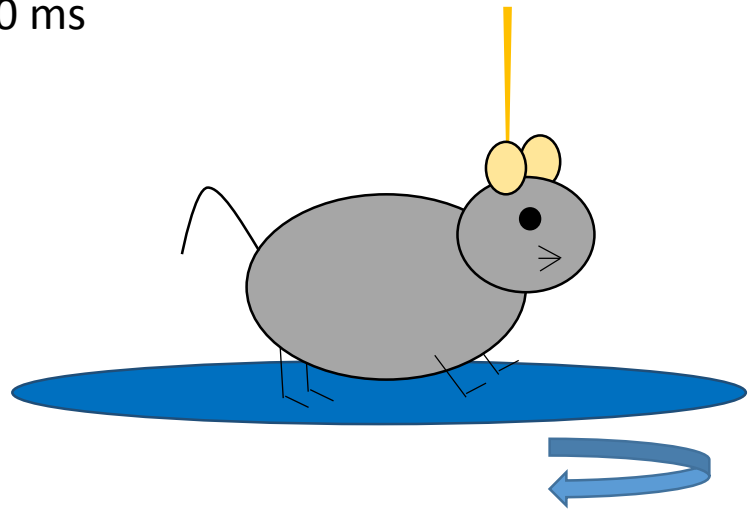
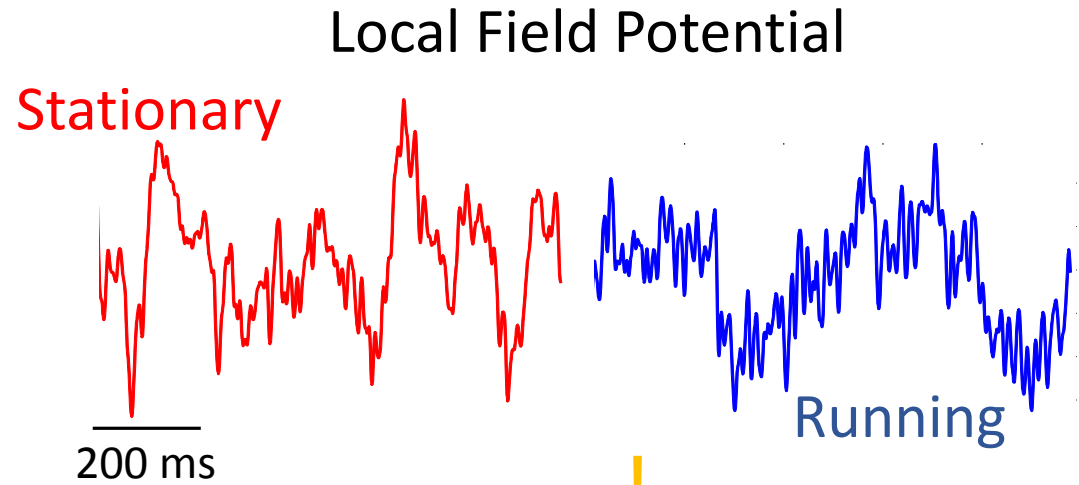


Pyr

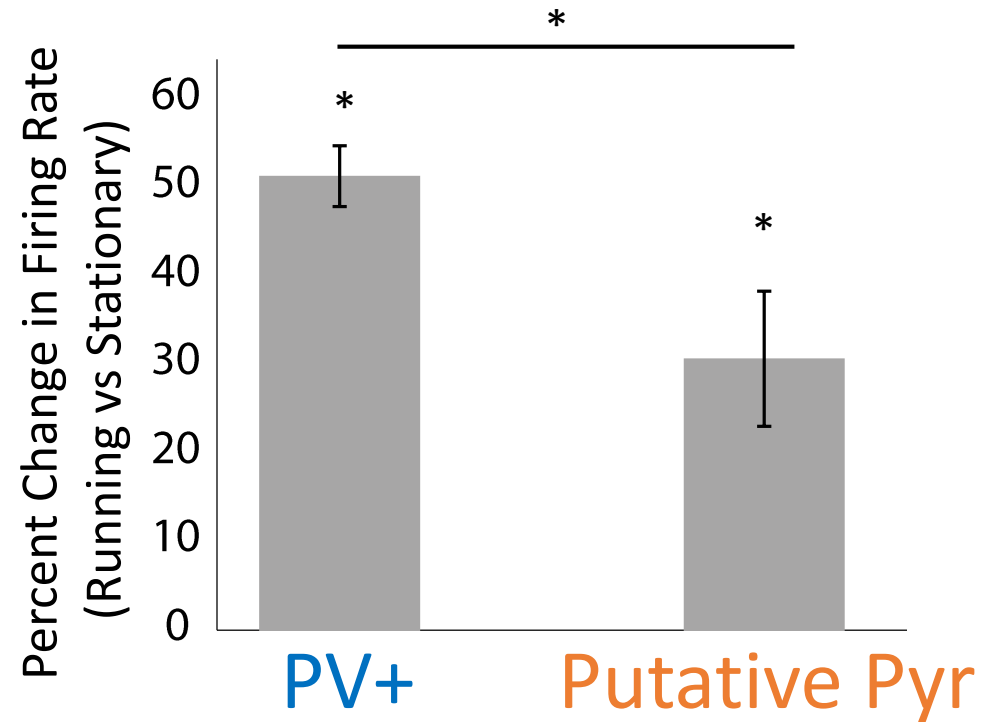
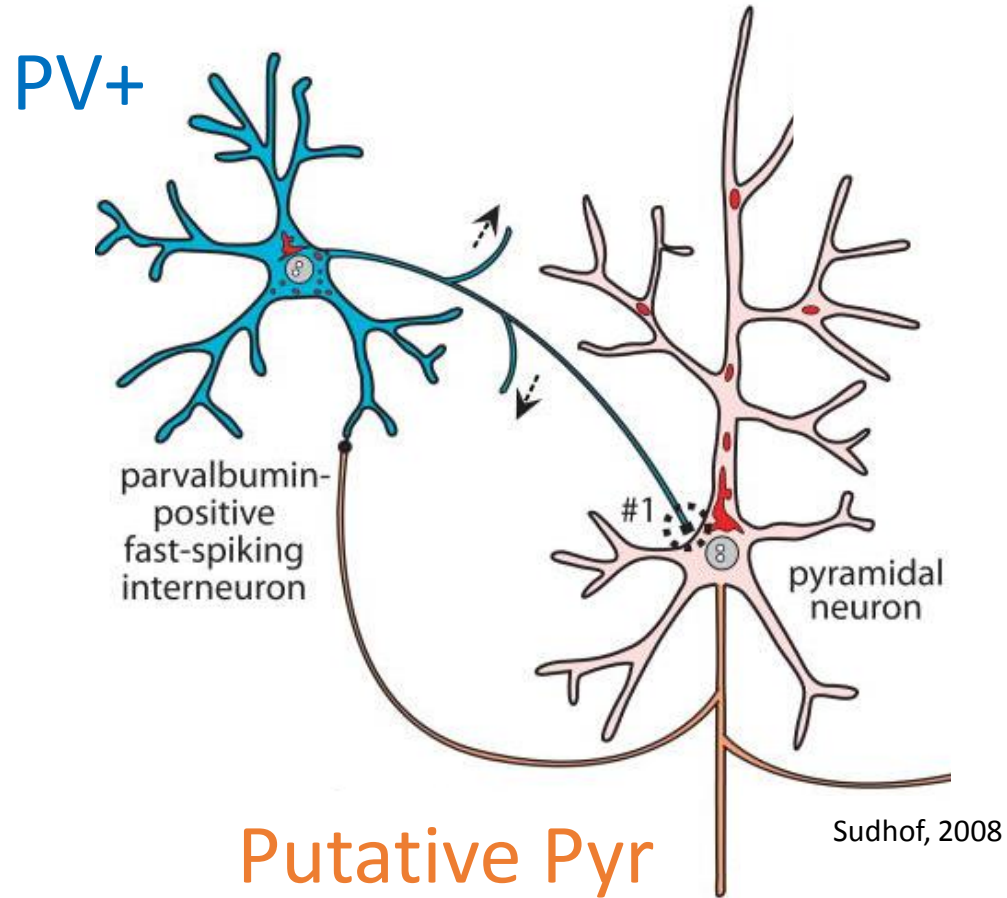
- High membrane resistance
- Slow membrane time constant

Do the membrane properties of PV+ and Pyr cells allow them to become selectively active during different behavioral states?

Network Level: LFP power increases in high and decreases in low frequencies during running



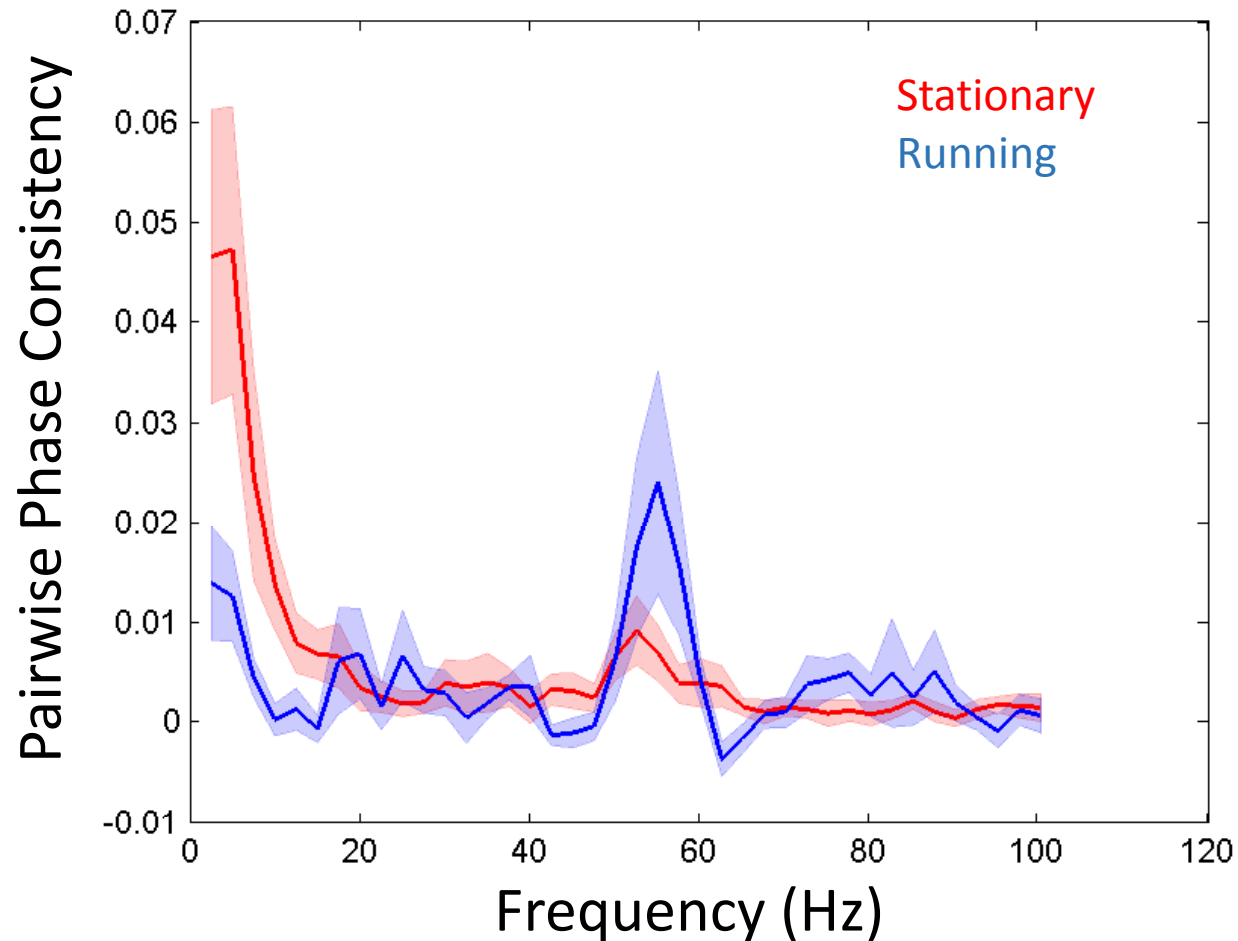
Cellular Level: Spontaneous firing rates increase in PV+ and putative pyramidal cells during running



*p < 0.05 Wilcoxon Signed Rank

Network and Cellular Level: PV+ cell spiking has increased gamma-band synchronization during running

PV+



Putative Pyr

