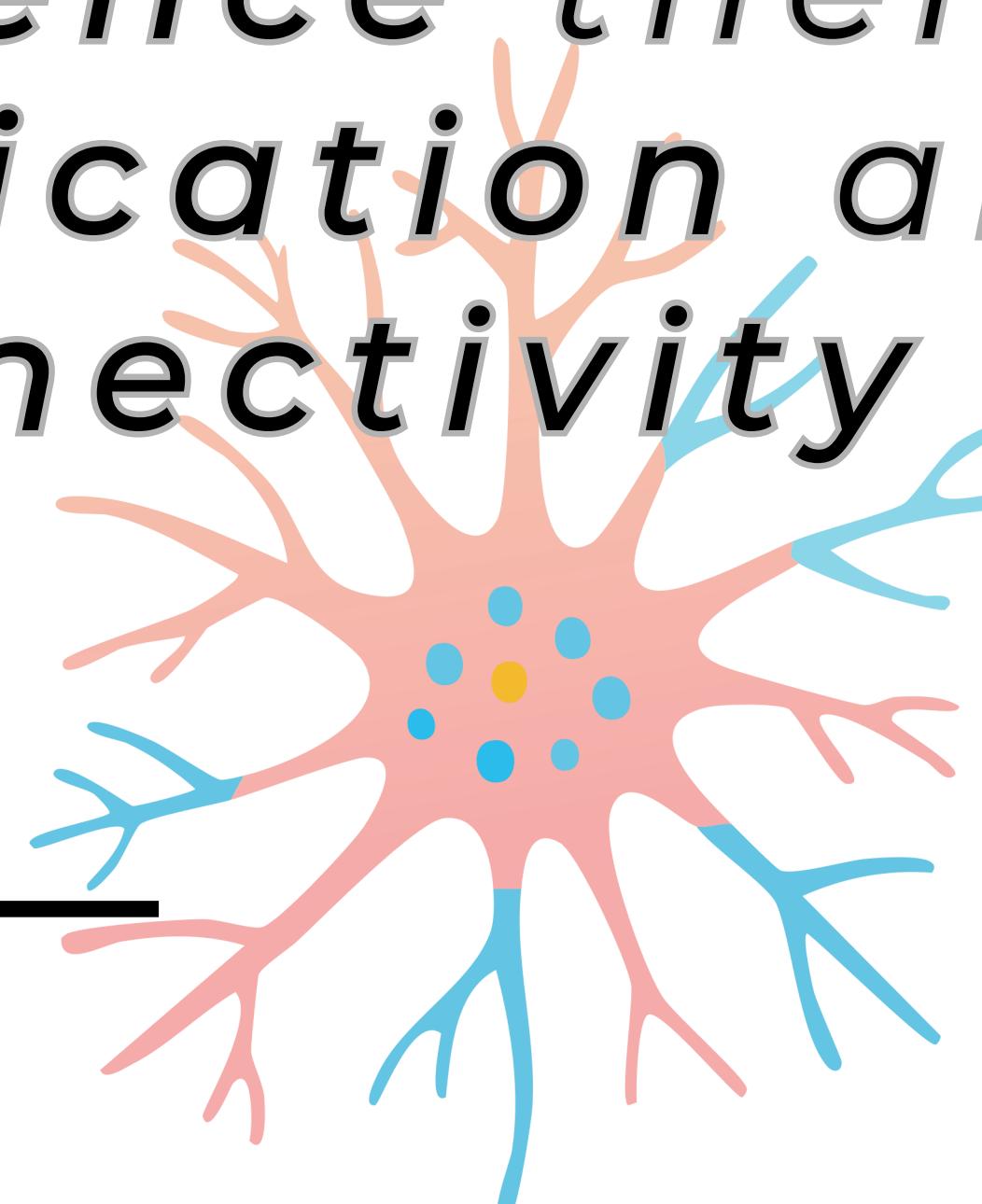


Neural Dynamics of Neighboring Cells

How does the *spatial proximity* of neurons influence their *synaptic communication* and *functional connectivity*



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Dale, Svoboda, and Druckmann

(2021) investigated how memory-related persistent activity is maintained through positive feedback between neurons. They used targeted two-photon photostimulation on small groups of neurons in mice performing a memory-guided response task, and observed the resulting activity patterns.

Original Study

- Laser-activated specific neurons
- Tracked cell communication
- Similar-function neurons connect strongly
- Small groups maintain memories

My Research

Does neuron location predict connections? Can physical maps explain memory circuits?

Why It Matters

- Reveals brain's wiring blueprint
- Maps memory networks in space
- Advances neural interfaces

