

Place cells

Today's papers

- Definitions for spatial units
- Figure capturing the essence of the paper

Hippocampal spatial unit

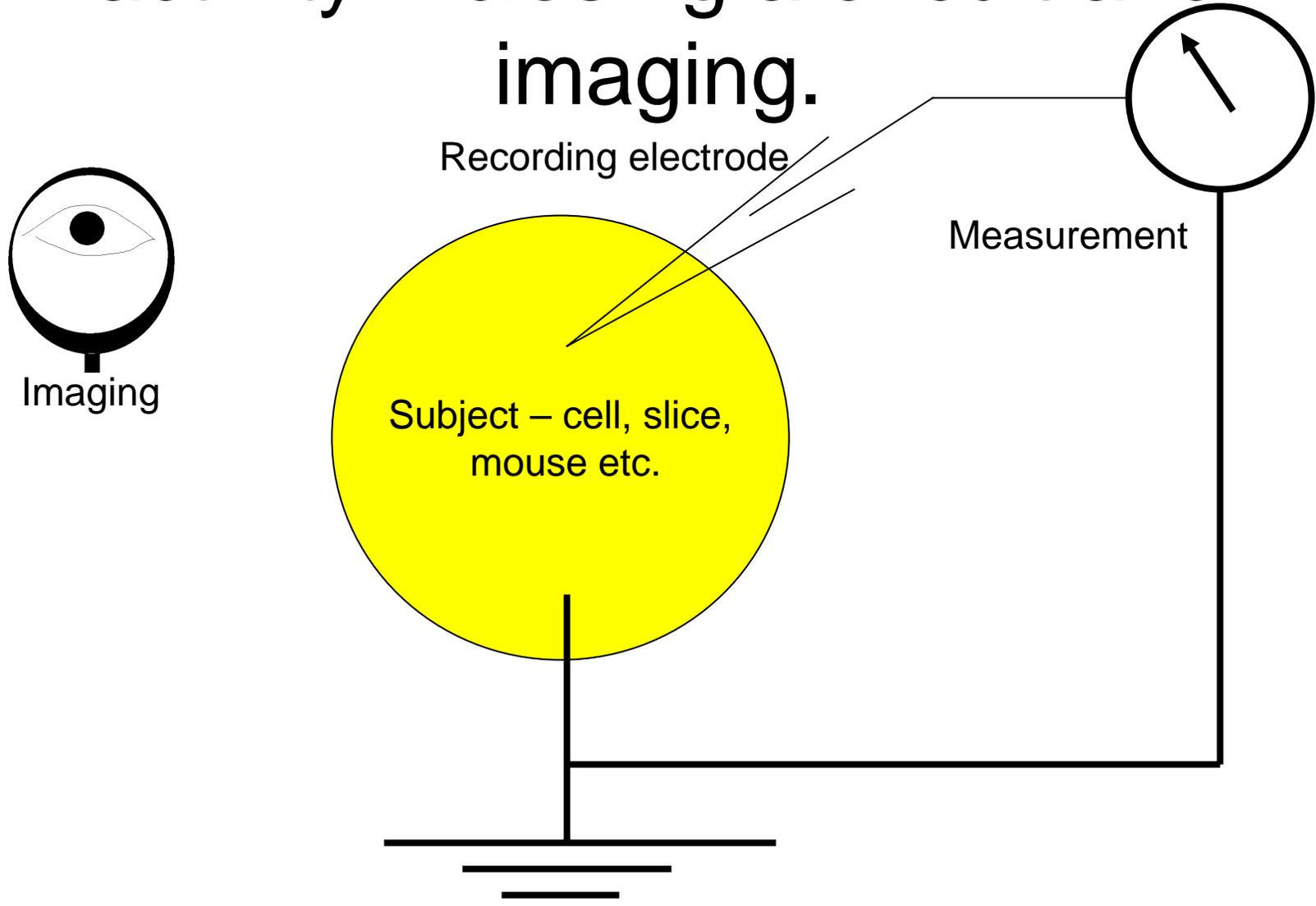
- A neuron or region of the hippocampus that deals with synapses made for directional thinking/ processing.
- A unit firing only when the rat was facing a specific direction and had a hand placed over its back with thumb and index finger on its shoulder and upper arm or when the rat moved while restrained in a specific direction.
- Units that responded solely or maximally when the rat was situated in a particular part of the testing platform facing in a particular direction.
- A cell or group of cells that fire at a certain place in a maze.
- A group of neurons in the hippocampus that responds only when the animal is placed in a particular spatial orientation (position in space and direction).

Your favorite figure?

Next week – Field trip.

- Meeting at the Tonegawa lab conference room. Building 46 5th floor.
- We will see many of the ways of studying neuronal plasticity discussed in the course.

Basic principle of studying neuronal activity – closing a circuit and imaging.



For next week

- No assigned reading
- Complete literature search assignment