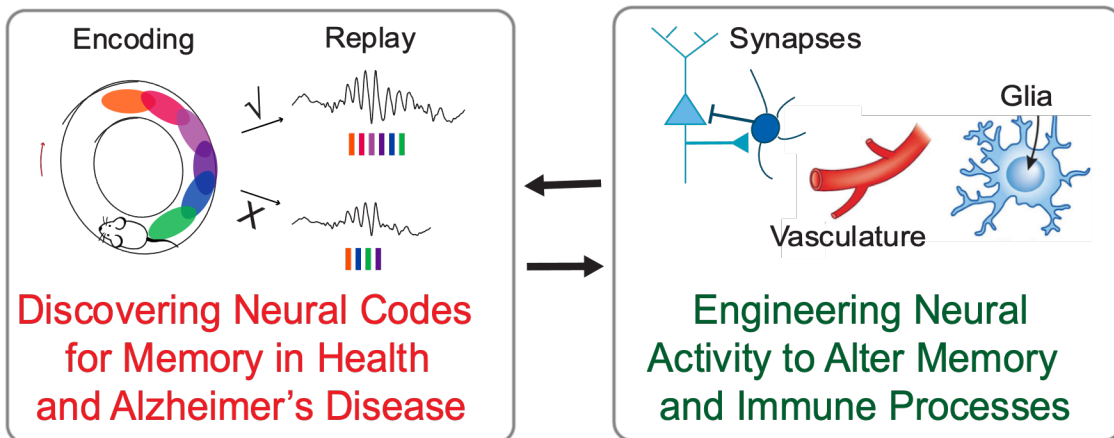


Singer Lab @ Georgia Tech

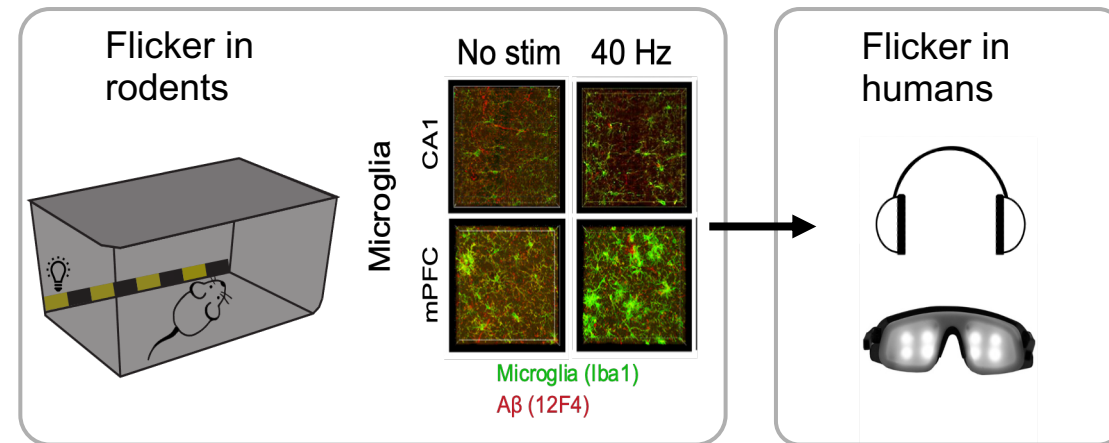
Decoding Memory in Health and Disease

We study neural mechanism of memory formation in health and disease and leverage these insights to develop novel sensory and neural stimulation approaches to disease

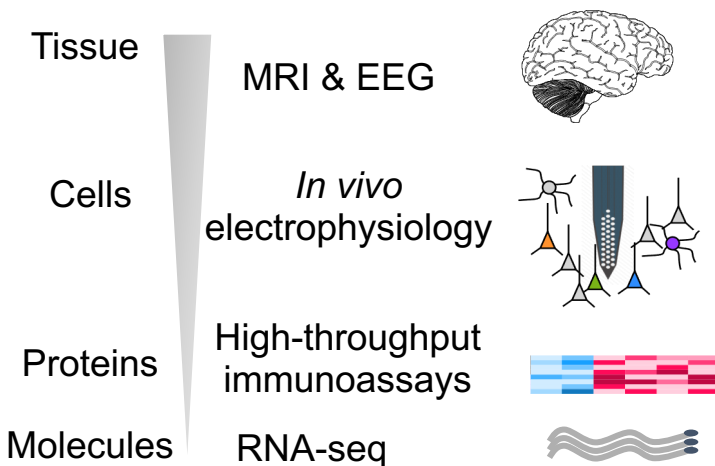


Translating basic science to clinical applications

We develop non-invasive stimulation to treat disease from preclinical testing in animal models to clinical trials in humans



Spanning spatial & temporal scales



Goals

- Uncover how neural circuits rapidly achieve fast & flexible learning
- Reveal how neural activity for memory fails in Alzheimer's disease
- Develop neural stimulation to treat Alzheimer's and other diseases
- Discover how neural & sensory activity affect brain immune function

