

Alison Barth

Professor at Carnegie Mellon University

Pittsburgh, PA, US

Alison Barth's work focuses on understanding how experience transforms the properties of neurons to encode memory.

Biography

Alison Barth studies plasticity in neurons. Her work focuses on understanding how experience transforms the properties of neurons to encode memory. Barth developed and patented the first tool to locate and characterize neurons activated by experience in a living animal, a transgenic mouse called the "fosGFP" mouse. These mice, which have been licensed to every major pharmaceutical company in the United States and distributed to more than 80 researchers worldwide, have facilitated studies into a wide range of neurological diseases as well as the study of learning and memory. Barth also conducts research on epilepsy. Her lab has identified a novel anticonvulsant target, an ion channel called the BK channel, whose activity is increased in response to a seizure. Barth has received the Society for Neuroscience's Research Award for Innovation in Neuroscience and Career Development Award.

Industry Expertise

Research, Education/Learning

Areas of Expertise

Research Design, Neural Plasticity, Biophysics, Neuroscience

Education

University of California, Berkeley

Ph.D. Molecular and Cell Biology

Brown University

A.B. Biology

Stanford University School of Medicine

Postdoctoral Appointment Neurophysiology

Accomplishments

Research Award for Innovation in Neuroscience

Society for Neuroscience

Career Development Award
Society for Neuroscience

Bessel Research Award
Humboldt Foundation

[Please click here to view the full profile.](#)

This profile was created by [Expertfile.](#)