

NeuroLab

Teacher registration is now open for NeuroLab, a professional development and classroom learning experience rooted in 30 years of clinical and basic neuroscience research

Location	Coastal Marine Biolabs, Ventura Harbor, CA
Format	In-person
Dates	July 31 to August 08, 2022
Contact email	info@NeuroLabSEPA.org

Program Snapshot. NeuroLab is a multi-lesson, storyline-based instructional unit that links student questions about a rare and unusual movement disorder (the anchoring phenomenon) to interconnected science concepts, ideas, and data that span a diversity of life science disciplines. During this immersive nine-day summer institute, our scientists and partners will present resources and strategies that were designed to help students build – in stepwise fashion – an explanatory model of the movement disorder as they pursue their questions in a collaborative classroom learning community. To develop their models, your students will explore converging lines of behavioral, electrophysiological, neuroanatomical, molecular genetic, cellular, developmental, and neuroimaging data obtained from studies of human subjects and model organisms over the last several decades. The discoveries made by students through the analysis and interpretation of authentic data – which includes big data presented in authoritative databases used by biomedical scientists and physicians – are gradually assimilated into working models that form a major focus of classroom discourse. These models undergo periodic revision and gradually increase in complexity and explanatory power as students progress through the NeuroLab sense-making pathway.

Classroom Resources. Teachers will receive a comprehensive suite of curriculum supports to: 1) help students identify concepts, ideas, and data most relevant to their model-building mission; 2) keep students connected to the anchoring phenomenon and the questions they formulate about its cause, diagnosis, management, etc.; 3) assist students in recognizing the interrelationships between various forms of scientific data that they encounter and the discoveries they make; and 4) aid students in assimilating new discoveries into their evolving models.

Registration. Registration is open to 11th and 12th-grade science teachers. Visit the following URL to join the NeuroLab team and participate in this unique experience:
<http://neurolabsepa.org/get-involved.html>

