NeuroLab

Teacher registration for the 2023 session of the NeuroLab PD institute is now open.

Location	*Coastal Marine Biolabs, Ventura Harbor, CA*
Format	*In-person*
Dates	*July 9 to July 17, 2023*
Contact email	*info@NeuroLabSEPA.org*

Program Snapshot. NeuroLab is a PD and classroom learning opportunity rooted in 30 years of clinical and basic neuroscience research. The upcoming institute will prepare teachers to implement 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; 4) aid students in assimilating new discoveries into their evolving models; and 5) provide suggestions for NGSS aligned student performance demonstrations.

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

NIH National Institute of General Medical Sciences

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Supported by the National Institutes of Health

NeuroLab is hosted by Coastal Marine Biolabs and supported by an award from the National Institute of General Medical Sciences, the National Institutes of Health (NIH). The content is solely the responsibility of the authors and does not necessarily represent the official views of the NIH.