Understanding Adaptation and Reproductive Isolation through Experimentation and Data Analysis with HHMI’s™ Lizard Evolution Virtual Lab

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The Lizard Evolution Virtual Lab from HHMI-BioInteractive™ engages students in the collection and analysis of authentic data on Anolis lizards to investigate adaptation, convergent evolution, reproductive isolation, and speciation. The lab is organized in four modules, providing flexibility and scalability for use in a variety of courses and settings. This workshop will introduce the second two modules of the lab. Students practice and explore experimental design, quantitative measurement, basic statistical analysis, and interpretation of data in the context of two key evolutionary concepts: adaptation and reproductive isolation. Participants of this workshop will experience the lab as a student, collecting data and answering questions through the virtual lab platform, while also gathering tips and suggested modifications from an educator who has used this virtual lab in her course. Connections to Vision and Change will be integrated into the presentation.

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