

Enhancing Laboratory Education with Student-Created Videos

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While videos of many laboratory techniques are available online, these lack the details necessary to be useful as preparation for our specific laboratory courses. To address this, students in the upper-level Experimental Genetics Lab Class at Carnegie Mellon University were assigned a video project with the goal of clearly demonstrating a concept or technique for use as a current and accurate reference for pre-lab preparation. Videos were assessed based on criteria of usefulness, content, clarity, accuracy, as well as peer, class and partner assessment. During the planning stages, the instructors carefully considered the advantages and dis-advantages of this project, as it replaced an experiment in the current lab curriculum. This workshop will cover the planning and implementation of the videos, from topic assignment to the film screening and evaluation day in class. We will demonstrate some video projects, and discuss the challenges this project presented. Finally, we will ask for feedback on the projects.

Mission, Review Process & Disclaimer

The Association for Biology Laboratory Education (ABLE) was founded in 1979 to promote information exchange among university and college educators actively concerned with teaching biology in a laboratory setting. The focus of ABLE is to improve the undergraduate biology laboratory experience by promoting the development and dissemination of interesting, innovative, and reliable laboratory exercises. For more information about ABLE, please visit <http://www.ableweb.org/>.

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