

Introducing the Panorama Player, a Revolutionary Audiovisual Teaching Tool

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Have you ever taught an intricate concept and had students forget the beginning before you got to the end? Or struggled with keeping all the details in play while engaging students in critical analysis? We have. Transposon mutagenesis is an intricate and elegant experiment that takes our students minutes to perform and days to understand. Students struggle with connecting the intricacies of the experimental design to the desired and actual outcomes. Preparation and review are integral to their understanding but blackboards are impermanent, powerpoints lack flexibility, and videos have a limiting linear progression. Since implementing our innovative video technology, the Panorama Player, we have made big strides in analytical analysis. This flexible lecture capture platform allows students to see the entire blackboard at the same time as a close-up view of the segment currently being explained. Students can also view a different segment of the blackboard without rewinding or pausing the audio. This technology has received enthusiastic reviews from faculty, instructional assistants, and students. Workshop participants will begin by attempting the most salient transposon mutagenesis questions based on assigned reading. Following a demonstration of our technology, we will explore extensions to the experiment permitted by clear conceptual understanding.

Keywords: Panorama Player, AV technology

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Citing This Article

Chilukuri L. 2019. Introducing the panorama player, a revolutionary audiovisual teaching tool. Article 26 In: McMahon K, editor. *Tested studies for laboratory teaching*. Volume 40. Proceedings of the 40th Conference of the Association for Biology Laboratory Education (ABLE). <http://www.ableweb.org/volumes/vol-40/?art=26>

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