Analyzing NEXUS/Physics Laboratory Curriculum in a Large-enrollment Environment¹ KIMBERLY MOORE, University of Maryland, Physics Education Research Group, WOLFGANG LOSERT, University of Maryland, Department of Physics — U Md- PERG’s NEXUS/Physics for Life Sciences laboratory curriculum, piloted in 2012-2013 in small test classes, has been implemented in large-enrollment environments at UMD from 2013-present. These labs address physical issues at biological scales using microscopy, image and video analysis, electrophoresis, and spectroscopy in an open, non-protocol-driven environment. We have collected a wealth of data (surveys, video analysis, etc.) that enables us to get a sense of the students’ responses to this curriculum in a large-enrollment environment and with teaching assistants “new” to the labs. In this talk, we will provide a brief overview of what we have learned and comparisons of our large-enrollment results to the results from our pilot study. Additionally, we will share data examining the changes in self-reported student goals, which we believe is an indication of our lab curriculum’s impact on student thinking.

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