

# **Infusing faculty research into an introductory biology laboratory**

Elisabeth Schussler, University of Tennessee, Division of Biology

**Course: Organization and Function of the Cell**  
**Second semester majors' course**  
**>900 students per academic year**

**Previous lab: cookbook, techniques**

**In 2011, identified research of four UTK faculty  
members to be the basis of new guided inquiry  
laboratories**

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**Each lab,**

**Week 1: background and techniques, collect and analyze preliminary data, brainstorm hypothesis and experimental design for another experiment given supplies available**

**Week 2: collect data, analyze data, compile and present an oral communication**

**Follow-up: Written lab communication**

**End of semester: Group presentation on how they would continue experimentation on one of the systems they worked with that semester**