

Papers

Keler, C., Balutis, T. Bergen, K., Laudenslager, B. and Rubino, D. *Serial Dilution Simulation Lab*. The American Biology Teacher. 72:305-307. 2010

M. J. Babcock, M. J. Buttner, C. H. Keler, B. R. Clarke, R. E. Morris, C. G. Lewis and M. E. Brawner. Characterization of the *rpoC* gene of *Streptomyces coelicolor* A3(2) and its use to develop a simple and rapid method for the purification of RNA polymerase. *Gene* 196:31-42. 1997.

C. Hardesty, C. Ferran, and J.M. DiRienzo. Plasmid mediated sucrose metabolism in *Escherichia coli*: Characterization of *scrY*, the structural gene for a phosphoenolpyruvate dependent sucrose phosphotransferase system outer membrane porin. *J. Bact.* 173:449-456. 1991.

C. Hardesty, G. Colon, C. Ferran, and J.M. DiRienzo. Deletion analysis of sucrose metabolic genes from a *Salmonella* plasmid cloned in *Escherichia coli* K12. *Plasmid* 18:142-155. 1987.

J.M. DiRienzo, J. Alexander, and C. Hardesty. Cloning and expression of a sucrose operon in *Escherichia coli*. Mapping of sucrose metabolic genes. *Ann. N.Y. Acad. Sci.* 478:278-280. 1986.

Oral Presentations

“Introducing the Gut Microbiome Using Fruit Flies as a Model System” Microbrew presentation, ASMCUE, May 2015

“Are Viruses Living” Led a pilot *Learning Lab* session ASM, Boston MA, 2014

Panelist “What works in Virology Education” ASV 2012

“Isolation and Characterization of Plant Growth Promoting Bacteria: A semester long group experiment” Microbrew presentation ,ASMCUE, 2011

Sessions at Montgomery County Science Teachers’ Association Mini-Conference:

- Isolation and Host Range of Tobacco Mosaic Virus: Investigating Plant Pathology 2009
- I can’t live Without You: Looking at Beneficial Symbiotic Relationships 2010
- Microbial Slime Lab Exercise 2012
- What Microbe are You? 2013
- Are Viruses Living? 2014

Posters

Cynthia Keler, Deanna Parkton, and Ben Rusiloski, *Structuring a Student Research Course to Increase Participation and Meet Experiential Learning Requirements*, CUR June 2105

Cynthia Keler, *Isolation and Characterization of Plant Growth Promoting Bacteria: A Themed Semester Long Microbiology Lab*, ASMCUE , May 2015

Cynthia Keler, *Isolation and Characterization of Plant Growth Promoting Bacteria: A Themed Semester Long Microbiology Lab and Starting Point for Undergraduate Research Projects*, ASM Conference on Beneficial Microbes, Washington, DC 2014

Posters with Students

Mariah Beaver, Cassie Leggour and Cynthia Keler, *Degradation of Glyphosate Utilizing Plant Growth Promoting Bacteria* PAS 2015

Mariah Beaver, Cynthia Keler, and Angelo Telatin, *Bacteria Growth in the Equine Sheath*. ISES, Denmark 2014

Charles Jester and Cynthia Keler, *Isolation and Characterization of a Plant Growth Promoting Strain of Serratia marcescens* ASM Conference on Beneficial Microbes, Washington, DC 2014

Kathryn Timko and Cynthia Keler, *Efficacy of Disinfectants and Antiseptics Against Navel Ill Causing Bacteria in Newborn Foals*, Annual Regional Microbiology Educators Summer Research Symposium 2012

Courtney Dickinson and Cynthia Keler, *The Effect of Plant Growth Promoting Bacteria on Lettuce in Varying Salt Concentrations*. PAS 2012

Courtney Dickenson and Cynthia Keler, *The Affect of Plant Growth Promoting Bacteria on Sun Flowers in Varying Salt Concentrations*, PAS 2011

Courtney Wolfe and Cynthia Keler, *Effect and Efficiency of the Plant Growth Promoting Bacteria, Frateuria aurantia in improving market crop Maturity rates*. PAS 2011