

**Erica Suchman**

**Teaching CV Example: Domain 4**

**F. EDUCATIONAL RESEARCH / SCHOLARSHIP**

*Educational Research is defined as “a field of inquiry aimed at advancing knowledge of education and learning processes and development of tools and methods necessary to support this endeavor.” [American Educational Research Association]*

*Educational Scholarship produces resources and materials specifically designed “to fulfill an educational purpose” and that have been peer-reviewed and disseminated for use by others in the field. [MedEdPortal, AAMC]*

**Grant Proposals: funded**

2011-2012: CSU Institute for Learning and Teaching Course re-design MIP300 to align with TILT learning ecologies. (5,000) PI, summer salary

2012-2013: CSU Institute for Learning and Teaching Course re-design MIP420 to align with TILT learning ecologies. (5,000) PI, summer salary

**Grant Proposals: Submitted but not funded**

2014: Pharos grant, Engaging Kids in Science and Health co-PI with T. Clapp, Extramural

2015: Pharos grant, Engaging Kids in Science and Health co-PI with T. Clapp, Extramural

**Selected Presentations (of 92 since 1998)**

2009: Fostering Critical Thinking in Large Lecture Courses. Speaker, submitted session idea, accepted. CSU Professional Development Institute, Fort Collins, CO. January 8.

2012: E Suchman and J McCLean. What is New in Teaching Technology? PowerPoint Annotation Using Notebook computers or Tablets to Create Interactive Lectures Which are Captured Using Lecture Capture Software. American Society for Microbiology Conference for Undergraduate Educators. June 15 and 16, San Francisco, CA. Peer reviewed abstract.

2012: The Critical Thinking Question Bank (CTQB): MicrobeLibrary's Newest Collection. Poster. Gary Kaiser, **Erica Suchman**, Samantha Elliott, and Lucy Kluckhohn Jones. American Society for Microbiology Conference for Undergraduate Educators. June 16, San Francisco, CA. Co-presenter.

2013: Creating a course where students acquire the skills you think are important. Invited Speaker, The Institute for Learning and Teaching Colorado State University. May 2

2014: Teaching your students to think like a microbiologist, let them practice what you preach. Invited plenary speaker. ASM, Boston, MA, May 18

2014: Identification of Antibiotic Producing Microbes Found in Soil for use on ESKAPE Pathogens. Heberlein, N. **E. Suchman**. Poster. American Society for Microbiology General Meeting. Boston, MA. May 19. *Student presentation of Small World Initiative work to isolate novel antibiotic producing bacteria. Non-peer reviewed abstract.*

2014: What concepts should you teach in undergraduate virology courses? Invited speaker. ASV, Fort Collins, CO June 22

2014: Writing an Effective CV. Invited speaker. ASM Kadner Institute Webinar August 22. *Teaching graduate students and post docs how to create a CV in preparation for job searches. I read, edit and critique all ~30 participants CV's and then discuss issues noted on a webinar.*

2014: CSU Institute for Learning and Teaching: Teaching students to think like Scientists. Invited Speaker. Fort Collins, CO October 30.

2015: CSU Institute for Teaching and Learning: Writing Effective Tests. Invited speaker. Fort Collins, CO February 19.

2015: Inaugural Lecture for the Gary Larkin Endowed Lecture Series: Let your students practice what you preach. Invited Speaker, Kent State Ohio, April 3.

2015: Writing an Effective CV. Invited speaker. ASM Kadner Institute Webinar August 26. *Teaching graduate students and post docs how to create a CV in preparation for job searches. I read, edit and critique all ~30 participants CV's and then discuss issues noted on a webinar.*

#### **Selected Publications (of 60 since 1998)**

Suchman, E.L., R. Knodle. (2014) Student Learning Assessments in Microbiology Database, 34 Tier 2 Critical thinking questions accepted. The American Society for Microbiology, MicrobeLibrary, <http://www.MicrobeLibrary.org>, 1752 N Street NW, Washington, DC 20036-2804

Suchman, E.L. (2014) Changing academic culture to improve undergraduate STEM education Trends in Microbiology 22(12) 657-659.

Kaiser, G., E.L. Suchman (2014) Generalized Transduction animation. The American Society for Microbiology, MicrobeLibrary, <http://www.MicrobeLibrary.org>, 1752 N Street NW, Washington, DC 20036-2804

Kaiser, G., E.L. Suchman (2014) Transformation animation. The American Society for Microbiology, MicrobeLibrary, <http://www.MicrobeLibrary.org>, 1752 N Street NW, Washington, DC 20036-2804

Suchman, E.L. (2015) Encouraging Microbiology Students To Think Like Scientists. *Microbe*. 10(2) 1-5.

Suchman, E.L. (2015) The Use of On-Line Pre-Lab Assessments Compared with Written Pre-Lab Assignments Requiring Experimental Result Prediction Shows No Difference in Student Performance. *Journal of Microbiology and Biology Education*. Accepted for publication.

McLean, J., E.L. Suchman. (2016) Using Magnets and Classroom Flipping to Promote Student Engagement and Learning about Protein Translation in a Large Microbiology Class. *Journal of Microbiology and Biology Education*. Accepted Dec 2015

**Commented [PM1]:** These excerpted lists are very helpful. Are the 60 overall publications all instructional or does that number include other areas of research?

#### **Selected Meetings/Sessions Chaired (of 12)**

2004: Session Convener, "Innovations in Education: Using the Web to Improve Your Teaching" American Society for Microbiology Meeting, New Orleans, LA. May 23-27.

2009: Co-Chair, American Society for Microbiology 16<sup>th</sup> Annual Undergraduate Education Conference Fort Collins, CO May 29-31.

2015: Co-chair, UNESCO-American Society for Microbiology Leadership for International Educators Program Pre-conference workshop, Austin, TX May 28 Note have co-chaired this meeting since 2010)

#### **Current Educational Research Project(s)**

I am currently working on assessing the effectiveness of online quizzing tools (created with course re-design grant awards 2011, 2012) where students take randomized quizzes every two weeks to help them practice answering concept questions in preparation for examinations in collaboration with Dr Jenny McClean at CSU.