

Jennifer L. Osterhage, Ph.D.

Assistant Professor and Director of Undergraduate Studies

University of Kentucky

Department of Biology

Jennifer.osterhage@uky.edu

EDUCATION & TRAINING

- **Faculty Fellow, Presentation U**, University of Kentucky, present
- **Women's Executive Leadership Development Program**, University of Kentucky, present
- **Graduate, Biology Scholars Writing and Publishing Course**, American Society for Microbiology, 2016
- **Graduate, E-Learning Innovation Initiative**, University of Kentucky, 2014-2015
- **Postdoctoral Training**, University of Kentucky, Department of Microbiology, Immunology, and Molecular Genetics, Lexington KY, 2010-2011
- **Ph.D.**, Vanderbilt University, Department of Biological Sciences, Nashville, TN, 2007
Dissertation Title: "Cell-Cycle Regulation of Telomerase Assembly in Yeast"
- **Graduate, Teaching Certificate Program**, Vanderbilt University Center for Teaching, 2007.
- **B.S., Biology**, University of Kentucky, Lexington, KY, 2002

TEACHING, ADVISING, AND ADMINISTRATIVE EXPERIENCE

Assistant Professor, Department of Biology, University of Kentucky, 2017-present

Senior Lecturer, Department of Biology, University of Kentucky 2016-2017

Lecturer, Department of Biology, University of Kentucky, 2011-2016

Courses Taught/ Coordinated:

- BIO 148 (Introductory Biology I) Spring 2012-present
- Online BIO 148 Summer 2017
- BIO 304 (Principles of Genetics) Fall 2014, Spring 2015
- BIO 304 Laboratory Fall 2011-Spring 2015
- Fast Track Biology (pre-first year preparation program), August 2014 and August 2016
- BIO 425 (Senior Seminar) Fall 2016, Spring 2017
- BIO 325 (Ecology) Laboratory Fall 2011

Director of Undergraduate Studies, Department of Biology, University of Kentucky, August 2015-present

- Chair Biology Undergraduate Affairs Committee
- Co-lead biology teaching assistant training workshops
- Conduct undergraduate program assessment
- Direct Biology Learning Center peer tutoring program
- Coordinate group advising and degree exceptions
- Serve as departmental representative at university events

Major Advisor

Department of Biology, University of Kentucky, 2013-present

- Advise 40-100 junior and senior biology majors each year

Department of Biology, Hanover College, 2007-2010

- Advised 15-30 biology majors each year

Assistant Professor of Biology, Hanover College, 2007-2010

Courses Taught (each with laboratory component):

- BIO 161 (Heredity and Evolution)
- BIO 165 (Principles of Biology)
- BIO 185 (Biology of the Cell)
- BIO 221 (Genetics)
- BIO 314 (Molecular Biology)
- BIO 360 (Genetic Basis of Human Disease)
- BIO 307 (Directed Study – Cancer Biology)
- BIO 471 (Independent Study)

Teaching and Learning Activities

Pedagogical Professional Development

- Faculty Fellow, Presentation U, 2017
- Coordinated a revamping of the Fast Track Biology experience for incoming students
- Graduate of ASM Biology Scholar's Biology Education Writing and Publishing Course, 2016
- Co-facilitator of a faculty learning group on self-regulated learning sponsored by CELT (Center for the Enhancement of Learning and Teaching), 2016-2017
- Participant in Universal Design Community of Practice, 2016-present
- Collaborated with Dr. Ellen Usher (Dept. of Educational Psychology) to investigate the development of student self-regulation, 2014-2016
- Graduate of E-learning Innovation Initiative to develop skills necessary for developing online and hybrid courses, 2014-2015
- Graduate of Howard Hughes Gulf Coast Summer Institute, July 2014
- Attended professional development seminars as part of UK's Leadership Development program. 2013
- Completed multiple online training courses; attended seminars and webinars on effective teaching, 2013-present
- Participant in Exploring the Nature of Science Through Tropical Ecology course, Summer 2012
- Audited EDC 706: STEM Education Research, University of Kentucky, Fall 2011
- Member, Committee on Learning and Teaching, Hanover College, 2008-2010
- Course Design Group Participant, Vanderbilt University, 2006
- Teaching Affiliate, Vanderbilt University Center for Teaching, 2005
- Teaching observation and consultation by the Center for Teaching and Learning Enhancement, 2013
- Teaching Assistant, Vanderbilt University, 2005-2006
- Teaching Pedagogy Course Participant, Vanderbilt University, Fall 2004
- Howard Hughes Medical Institute Community of Scholars Participant, Vanderbilt University, 2004-06
- Teaching and Learning Research, UK, Hanover College and Vanderbilt University, 2004-present
- Teaching Certificate Program Graduate, Vanderbilt University, 2005-2007

Presentations/Panels

- Invited Speaker, Presentation U Faculty Fellows Showcase, 2017
- Invited Speaker, Teaching First Year Students Conversation, 2017
- Invited Panelist, Teaching Large Classes Workshop, 2017
- STEM Teaching Enhancement Workshop and Forum, 2015 and 2016
- Poster Presentation, Biology Leadership Conference, 2014 and 2015
- Panelist, Prof101: Launching Successful Faculty Careers, Vanderbilt University, 2009
- Chair, Science Education Section, Indiana Academy of Science Meeting, 2009
- Learning Strategies for the Sciences Presentation, Learning Center, Hanover College, 2008 and 2009
- Lab-based Learning Workshop Moderator, Vanderbilt University, 2005

Conferences Attended

- Pedagogicon Conference, 2017
- Teaching First Year students symposium, University of Kentucky, 2016
- Biology Leadership Conference, March 2014, March 2015
- Kentucky Innovations Conference, Summer 2013

COMMITTEES AND WORKING GROUPS

- Chair, Undergraduate Affairs Committee, 2015-present
- Co-facilitator, Self-regulated Learning Faculty Learning Community, 2016-2017
- Member, Women's Executive Leadership Development Program, 2017-present
- Elected Member, Arts and Sciences Educational Policy Committee, 2016-present
- Elected Member, University Senate, 2017-present
- Member, University Senate Academic Planning and Priorities Committee, 2017-present
- Appointed Member, Undergraduate Council, 2017
- Member, Biology Executive Committee, 2015-present
- Member, Universal Design Community of Practice, 2015-present

HONORS AND AWARDS

- Arts and Sciences Outstanding Teaching Award, 2016
- IAmAWomanOfSTEM Woman of the Week, 2017
- Alternative Textbook Grant Program Recipient, June 2016
- E-learning Innovation Initiative Grant Recipient, September 2014
- Nominee, Arts and Sciences Outstanding Lecturer Award, 2014
- Recipient, Hickory Stick Teaching Assistant Award, 2005
- Nominee, Student Research Award, Vanderbilt University Department of Biological Sciences, 2004
- Recipient, Best Student Presentation Award, Southeastern Regional Yeast Meeting, 2004
- Recipient, Cellular, Biochemical, and Molecular Sciences Training Grant (NIH) 2003-05
- Recipient, Harold Stirling Vanderbilt Graduate Scholarship, 2002
- Baccalaureate awarded *summa cum laude* and with honors in Biology, 2002
- Recipient, Otis Singletary Scholarship, University of Kentucky, 1998

RESEARCH EXPERIENCE AND TRAINING

- Research Associate, The Field Museum of Natural History, 2008-2011
- Postdoctoral Scholar, University of Kentucky, Department of Microbiology, Immunology, and Molecular Genetics, 2010-2011
- Independent research program with undergraduates, Hanover College, 2007-2010
- Doctoral Thesis Research, Vanderbilt University, 2002-2007
- Undergraduate Research, University of Kentucky, 2001-2002

SELECTED COMMUNITY INVOLVEMENT & SERVICE

- Invited Speaker, Arts and Sciences Ambassadors Meeting, November 2017
- Guest Lecturer, BIO 315 (Introduction to Cell Biology), November 2017
- Invited Panelist, TA Development Meeting, The Graduate School, 2017
- Member, Search Committee for Biology Advisor, 2017
- IAmAWomanOfSTEM Mentor
- Invited Speaker, Teaching First Year Students Conversation, 2017
- Invited Panelist, Teaching Large Classes Workshop, CELT, 2017
- Invited Panelist, New Faculty Orientation 2016

- Invited Speaker, Health Sciences Welcome Day 2016
- UK 101 Guest Speaker, September 2015, September and October 2016
- Master's Committee Member, 2015-2016
- After Office Hours Volunteer, October 2015 and 2017
- Best Buddies Faculty Advisor, University of Kentucky, 2012-2015
- Lecturer Search Committee Member, 2014 and 2012
- Guest course facilitator, Teaching and Learning, Earth and Environmental Sciences Dept, 2014
- Scott County Public Library Animal Behavior Workshop Volunteer, June 2014
- Regional Science Fair Judge, February 2014
- Volunteer for Run This Town youth mentoring program, 2013
- Departmental Representative, A&S Majors Fair, 2013-2015
- Participant in Big Brothers Big Sisters of the Bluegrass, 2011-2013
- Arboretum Strategic Planning Committee member, 2012-2013
- Undergraduate Student Advisor, 2012-present
- Best Buddies Volunteer, University of Kentucky, 2011
- Friendly Visitors Volunteer, Lexington KY, 2011
- Pre-health Careers Committee member, Hanover College, 2007-2010
- Participant in Big Brothers Big Sisters of Jefferson County, 2009-2010
- Faculty Advisor for Best Buddies student organization, Hanover College, 2007- 2010
- Central Muscatatuck Watershed Quality Monitoring Volunteer, Madison IN, 2008
- Vanderbilt University Volunteers for Sciences Participant, Nashville TN, 2003-2004

PROFESSIONAL ORGANIZATIONS

- Society for the Advancement of Biology Education Research (SABER)
- Association for Biology Laboratory Education (ABLE)

RECENT ABSTRACTS

Trisha Turner, Ellen Usher, and **Jennifer Osterhage**. Evaluating and Promoting Student Calibration. STEM Teaching Enhancement Workshop and Forum, University of Kentucky, April 2016

Osterhage, Jennifer, Trisha Turner, and Ellen Usher. Evaluating and Promoting Student Self-evaluation. STEM Teaching Enhancement Workshop and Forum, University of Kentucky, April 2015

Osterhage, Jennifer. Active Study Guidance: Learning through Practice. Biology Leadership Conference, Austin, TX, March 2015.

Osterhage, Jennifer. Promoting Self-evaluation in a Large-enrollment Introductory Biology Course. Biology Leadership Conference, Amelia Island, FL, March 2014.

Peterson, M.L., **J. Osterhage** and R. Burnside. The spatial relationship between poly(A) sites and RNA polymerase pause sites in the Ig gene. Eukaryotic mRNA Processing Meeting, Cold Spring Harbor, NY, August 2011.

Adney, Danielle, B. Carbaneau, A. Lubrano, and **Jennifer Osterhage**. Vacuolar Proteins and Telomere Length Maintenance. Butler Undergraduate Research Conference, Indianapolis IN, April 2010.

Osterhage, Jennifer. Nature versus Nurture: Sequencing The God Gene in an Upper-level Genetics Course. Indiana Academy of Science Meeting, Kokomo IN, October 2009.

Osterhage, Jennifer. Concept Maps: Revealing and Remodeling Student Knowledge Structures by the Use of Absolute vs. Conditional Terms. Indiana Academy of Science Meeting, Bloomington IN, October 2007.

Osterhage, Jennifer. Concept Maps: Revealing and Remodeling Student Knowledge Structures by the Use of Absolute vs. Conditional Terms. Graduate Student Research Day, Vanderbilt University, April 2007.

RESEARCH PRESENTATIONS

- Teaching First Year Students Conversation, 2017
- Department of Biology Seminar Speaker, University of Kentucky, 2017
- STEM Teaching Enhancement Workshop and Forum, University of Kentucky, 2015 and 2016
- Department of Microbiology, Immunology, and Molecular Genetics Seminar Speaker, University of Kentucky, 2010
- Indiana Academy of Science, Kokomo IN, 2009 (oral presentation)
- Hanover College Faculty Research Seminar, Hanover, IN, 2008
- Indiana Academy of Science, Bloomington IN, 2007 (2 oral presentations)
- Invited Seminar Speaker, Department of Biology, University of Kentucky, Lexington KY, 2007

PUBLICATIONS

Osterhage, Jennifer, and Katherine L. Friedman. Chromosome End Maintenance by Telomerase. *J Biol Chem.* 284(24):16061-5 (2009).

Osterhage, Jennifer, Jennell Talley, and Katherine L. Friedman. Proteasome-dependent degradation of Est1p regulates the cell cycle-restricted assembly of telomerase in *Saccharomyces cerevisiae*. *Nature Structural and Molecular Biology* **13(8)**, 720-728 (2006).

Karns, Daryl R., Vimoksalehi Lukoschek, **Jennifer Osterhage,** John Murphy, and Harold Voris. Phylogeny and biogeography of the *Enhydryis* clade (Serpentes: Homalopsidae). *Zootaxa* 2452, 18-30. ISSN 1175-5334 (2010).

Vimoksalehi Lukoschek, **Jennifer Osterhage,** Daryl R. Karns, John C. Murphy, and Harold K. Voris. Phylogeography of the Mekong mud snake (*Enhydryis subtaeniata*): the biogeographic importance of dynamic river drainages and fluctuating sea levels for semi-aquatic taxa in Indo-China. *Ecology and Evolution* 1(3), 330-42 (2011).

REFERENCES

Katherine Friedman, Ph.D.
Associate Professor of Biological Sciences
Director of Graduate Studies
Vanderbilt University
(615) 322-5143
Katherine.friedman@vanderbilt.edu

Peter Mirabito, Ph.D.
Associate Professor of Biology
University of Kentucky
Pmmira00@uky.edu
(859) 340-2022

Katherine Rogers-Carpenter, Ph.D.
Assistant Professor
Writing, Rhetoric, and Digital Studies
University of Kentucky
k.rogers-carpenter@uky.edu
(502) 314-6741