Jamie Ellen Henzy jamie.henzy@bc.edu

EDUCATION

Tufts University School of Medicine

Ph.D., Molecular Microbiology

Dissertation title: Retroviral Envelope Proteins: Structure and Evolution

Advisor: Dr. John Coffin

Harvard University

School of Extension Studies

M.L.A., Natural Sciences

Thesis title: The Theory of Ecomorphology as Developed in the Soviet Union

Advisor: Prof. Everett Mendelsohn

University of Kentucky

B.A., Linguistics

TEACHING EXPERIENCE

Boston College, Biology Department

Undergraduate Courses Semesters

Instructor and developer of course syllabus and material:

Phages: Viruses That Rule the World S19

Introduction to Genomics F16, S17, F17, S18, F18, S19

Co-instructor and developer, with Prof. Jeffrey DaCosta:

Bioinformatics Bootcamp, a workshop Summer 2018

Graduate Courses

Instructor and developer of course syllabus and material:

Graduate Bioinformatics F15, S16, F16, F17, F18

Viruses and Evolutionary Theory F15

Co-instructor, with Prof. Welkin Johnson

Viruses and Evolutionary Theory F14

RESEARCH EXPERIENCE

Boston College

Biology Department

Postdoctoral researcher, Welkin Johnson lab January, 2012—November, 2016 Studied the longterm evolution of retroviruses in relation to their hosts, through analyzing the genes and noncoding elements of endogenous retroviruses-sequences that came into the genome when a retrovirus infected a germ cell. Methods used were mostly phylogenetics, but also included generating constructs for expressing retroviral genes.

Tufts University

Molecular Microbiology program

Postdoctoral researcher, John Coffin lab

Student in laboratory of Dr. John Coffin

September, 2004—April, 2011

Student in laboratory of Dr. John Coffin

Studied the envelope gene of retroviruses and its longterm evolution as documented by endogenous retrovirus sequences in host genomes. Methods used included basic biochemical and DNA techniques, as well as genome analysis.

PUBLICATIONS IN RESEARCH JOURNALS

Henzy JE, Gifford RJ, Kenaley CP, Johnson WE. 2016. An intact retroviral gene conserved in spiny-rayed fishes for over 100 million years. Mol. Biol. Evol. DOI: 10.1093/molbev/msw262.

Henzy JE, Johnson WE. 2016. Phylogenetic sleuthing reveals pair of paralogous genes. Elife **5**. doi: 10.7554/eLife.17224.

Henzy JE, Gifford RJ, Johnson WE, Coffin JM. 2014. A novel recombinant retrovirus in the genomes of modern birds combines features of avian and mammalian retroviruses. J. Virol. **88**:2398–2405. PMID:24352464.

Henzy JE, Johnson WE. 2013. Pushing the endogenous envelope. Philos. Trans. R. Soc. Lond., B, Biol. Sci. **368**:20120506. PMID:23938755.

Henzy JE, Coffin JM. 2013. Betaretroviral envelope subunits are noncovalently associated and restricted to the mammalian class. J. Virol. **87**:1937–1946. PMID:23221553.

BOOK CHAPTERS

Henzy, **JE**. 2018. Margaret Dayhoff: Catalyst of a Quiet Revolution. *In* R. Whitaker and H. Barton, (ed), *Women in Microbiology*, 1st ed. ASM Press, Washington, DC.

BOOK CHAPTERS, continued

Henzy, JE. "Measuring Up". *In the Company of Microbes: Ten Years of Small Things Considered*. ME Schaechter. Washington, D.C. ASM Press, 2016. 263-264. Print.

ASM-SPONSORED BLOG

Selected publications as an Associate Blogger on "Small Things Considered", a website sponsored by the American Society for Microbiology

Henzy, JE. "The Human Story, As Told by Our Genomes" Small Things Considered, ASM, September 11, 2018.

Henzy, JE. "A Naturalist's Book of Viruses" Small Things Considered, ASM, February 20, 2017.

Henzy, JE. "The Invention of Nature: Big Picture Science, with Passion" Small Things Considered, ASM, September 12, 2016.

Henzy, JE. "Need Protection? Hire a Virus!" Small Things Considered, ASM, September 12, 2016.

Henzy, JE. "An Ongoing Phage Drama" Small Things Considered, ASM, July 27, 2015.

Henzy, JE. "Retroviruses, the Placenta, and the Genomic Junk Drawer" Small Things Considered, ASM, June 2, 2014.

PROFESSIONAL MEMBERSHIP AND SERVICE

Faculty Advisor, Life Sciences Journal (Boston College student publication)

Structure/content editor, Chapters 17 and 18

Textbook, Microbe, 2nd Edition, published by ASM

January-March, 2016

Judge, ASM annual Agar Art Contest

Associate Blogger, ASM sponsored site Small Things Considered

American Society for Microbiology (ASM)

Peer Reviewer, Journal of Virology, PLoS Genetics, and others

Academic year 2017-18

January-March, 2016

2015 - present

2013 - present

2010 - present

ongoing

ADDITIONAL TRAINING

The Marine Biological Lab, Woods Hole, MA
Molecular Evolution Workshop Summer, 2012

Two-week intensive course covering current topics in molecular evolution and methods of analysis, including phylogenetic analysis, comparative genomics, and various software packages, such as BEAST, MAFFT, and PAUP*.

ACADEMIC CONFERENCE PRESENTATIONS

Henzy, Jamie and John M. Coffin. Species distribution and evolution of two envelope phenotypes of Class II retroviruses. Poster presentation at **Annual Retroviruses Conference** (Cold Spring Harbor NY, 2010).

Henzy, Jamie and John M. Coffin. The envelope subunits of betaretroviruses are non-covalently associated. Poster presentation at **Annual Retroviruses Conference** (Cold Spring Harbor NY, 2009).