Chanc VanWinkle Orzell
3093 Ridge Road
Randolph Center, Vermont 05061
chanceorzell@gmail.com
802-522-9769

Overview

My current work involves using multiplexed assays to analyze immune responses to vaccines, supporting experimental research trials. Important to this work is my maintaining a Good Clinical Laboratory Practices (GCLP) lab facility, which ensures the reproducibility of study results to the highest standards. Previously I used a wide repertoire of molecular techniques to study genes involved in retinal degeneration in *Drosophila melanogaster* and in embryonic development using *S. purparatus*. Having a dual career, I am also a copyeditor and writer for both scientific and humanities platforms.

Research and Laboratory Experience

Dartmouth College, Thayer School of Engineering **July 2019–present**
Position: Research Assistant II

- Characterization of immune responses via specialized techniques
- Fc Array using Luminex FlexMap 3D instrument
- ADA Assay to determine drug antibody response
- Maintain laboratory and equipment in accordance with Good Clinical Laboratory Practices (GCLP)

Dartmouth College, Biological Sciences **Nov. 2016–July 2019**
Position: Research Assistant

- Study of genes involved in cell death using *Drosophila melanogaster*
- Genetic manipulation of fly stocks
- Cloning, CRISPR
- RNA isolation, analyzation, and preparation for microarray
- qRT-PCR and basic data analysis
- Western blotting
- Tissue fixation and subsequent histology

Stowers Instituite for Medical Research **April 1998–July 1999**
Position: Research Technician

- Duties as listed below

University of Missouri-Kansas City **July 1993–April 1998**
Position: Research Assistant/lab manager

- Study of embryonic development of *S. purpuratus*
- Routine laboratory maintenance including ordering chemicals, inventory, regulating radioactivity

Resulting Publications:

Suprenant, K.A., Tuxhorn, J.A., Daggett, M.A.F., Ahrens, D.P., Hostetler, A., **VanWinkle, C.,** and Livingston, B.T. (2000) "Conservation of the WD-repeat, microtubule-binding protein, EMAP, in sea urchins, humans, and the nematode *C. elegans*." *Dev Genes and Evol*. 210: 2–10.

Livingston, B.T., **VanWinkle, C.,** and Kinsey, W.H. (1998) "Protein tyrosine kinase activity following fertilization is required to complete gastrulation, but not for initial differentiation of endoderm and mesoderm in the sea urchin embryo." *Developmental Biology* 193: 90–99.

Publishing and Communications Experience

Inner Traditions International **Feb. 2006–Nov. 2016**
Position: Project Editor

Elsevier Cell Press **Jan. 2005–Feb. 2006**
Position: Copyeditor for *Molecular Cell* and *Immunity*

Jamaica Plain *Bulletin* **Feb. 2004–Jan. 2005**
Position: 200-hour internship, subsequent freelance reporter

Harvard School of Public Health, **Immunology and Infectious Diseases, Harvard AIDS Institute** **Sept. 2000–Feb. 2004**
Position: Editorial Assistant III

Eaton Publishing/BioTechniques Books **July 1999–Sept. 2000**
Position: Assistant Editor/Project Editor

Education

CPC, Certificate of Publishing and Communications- Harvard Extension School, 2004
Graduate Studies- University of Missouri, Kansas City; Professional Writing Program, 1997–1999
Bachelor of Science- Kansas State University, General Biology, 1993