

# Diane K. Vorbroker, Ph.D.

- Professional Summary** Experienced Biology and Biotechnology professor with 15 years' experience teaching at community college level. Started, designed curriculum for, and served as Program Chair for Biotechnology A.A.S. program. Dedicated partner to TechPrep of SW Ohio and other community agencies whose goal is to increase student interest and dual enrollment opportunities in biotechnology, including collaboration with workforce development programs for short term training of workers transitioning to biotechnology or biomanufacturing fields. Passionate supporter of programs that aim to increase student success and retention, and proud author of curricula that emphasize soft skills in addition to key prerequisite concepts.
- Skills** +Strong lecturer in the classroom and effective written communicator to students and colleagues +Exemplary ability to break down tough concepts for and encourage critical thinking in students +Adaptable to unexpected changes to curriculum or lab schedule +Proficient in lab techniques for studies of DNA, RNA and proteins as well as biomanufacturing regulations +Strong collaborator with community partners in education +Able to stay organized and meet deadlines while teaching a full load of classes +Approachable and personable but not afraid to have tough conversations
- Teaching Experience**
- Adjunct Instructor** 2017- present  
**St. Petersburg College**  
Courses taught: General Biology for Science Majors, Anatomy and Physiology, Intro to Anatomy and Physiology, Biotechnology; Baccalaureate Biology courses in Genetics, Cell Biology, Biotechnology and Developmental Biology.
- Adjunct Professor** 2014-present  
**Cincinnati State Technical and Community College**  
Distance courses taught: Integrated Biology, Human Genetics, Biomanufacturing regulations, Anatomy and Physiology
- Professor, Tenured 2012** 2005-2014  
**Cincinnati State Technical and Community College**  
**Program Chair for Biotechnology A.A.S.**  
Courses taught: Concepts in Biology 1 and 3, Human Genetics, Genetics for Bio majors, Microbiology, \*Anatomy and Physiology (online), Basic and Advanced techniques for Biotechnology, Protein purification and identification, Molecular Genetics techniques, \*Biomanufacturing Regulations (all with lab except those with \*)
- Education** **Ph.D. Developmental Biology**, University of Cincinnati  
B.S. Biology, Furman University, *cum laude*
- Hobbies and Interests** I am involved in a startup education company whose goal is to provide innovative introductory curricula for students seeking to enter college but needing refresher coursework and activities to hone their study skills. In addition, I am a passionate volunteer with Clearwater Marine Aquarium in three different departments, with a focus on sea turtle conservation and education. (Volunteer of the Year, 2019)

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### Past College Leadership and Committees

- Biotechnology Program Chair (A.A.S degree)- initiated new BIOT/BSC program: *curriculum design, course design, lab design and purchases, recruitment, co-op placement, advising.*
- SW Ohio TechPrep Biotechnology consortium- *plan and help implement pathways between H.S. Biotechnology programs and Cincinnati State*
- Emerging Technologies and Language Academy planning committee- *help to write and implement a grant from the Board of Regents of Ohio to fund a dual enrollment summer program for High School students interested in Spanish, Renewable energy and Biotechnology.*
- Faculty Excellence Committee
- Human Relations Committee, Health and Public Safety Division
- Screening/Hiring Committee- Biology Faculty; Lab manager
- Semester Transition Project- Communications Committee
- Technology committee

### Textbook author

Banks, J., Johns, J., and Vorbroker, D.K. (2016) *Integrated Biology and Skills for Success in Science*. Cincinnati, OH: Socratis, LLC.

### Journal Publications (as primary author)

D. K. Vorbroker, W. F. Voorhout, T. E. Weaver, J. A. Whitsett. Posttranslational processing of surfactant protein C in rat type II cells. *Am. J. Phys. - Lung Cell. Mol. Phys.* (1995) 269 (6): L727-L733.

D. K. Vorbroker, S. A. Profitt, L. M. Noguee, J. A. Whitsett. Aberrant processing of surfactant protein C in hereditary SP-B deficiency. *Am. J. Phys. - Lung Cell. Mol. Phys.* (1995) 268 (4): L647-L656.

D. K. Vorbroker, C. Dey, T. E. Weaver, J. A. Whitsett. Surfactant protein C precursor is palmitoylated and associates with subcellular membranes. *BBA-Biomem.* (1992) 1105 (1): 161-169.

### Alternate contact information

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*Transcripts and References available on request*