

Beda (Butch) E. Alvarez Jr., M.D.

*Curriculum Vitae*

University of South Carolina Beaufort  
One University Boulevard, Bluffton, S.C. 29909  
Science and Technology Building #230  
Office phone: 843-208-8324  
[balvarez@uscb.edu](mailto:balvarez@uscb.edu)

---

PROFESSIONAL SUMMARY

Specialize in the Biological Sciences for the pre-med, pre-nursing, and pre-professional courses such as Microbiology and Human Anatomy and Physiology I & II. Hold Bachelor of Science degree in Natural Sciences from Xavier University and Doctor of Medicine degree from Cebu Doctors' College of Medicine. Research interests include ongoing research with Dr. Edward D'Antonio on the development of new classes of inhibitor enzyme drug-targets for Neglected Tropical Diseases, especially Changa's disease. Member of the Human Anatomy and Physiology Society and the American Society for Microbiology.

EDUCATION

**Cebu Doctors' College of Medicine**  
Cebu City, Philippines  
*Doctor of Medicine*

April 2003

**Xavier University**  
Cincinnati, Ohio  
*Bachelor of Science in Natural Science*

May 1986

RESEARCH & PUBLICATION

**University of South Carolina Beaufort**  
*Research Fellow*

Bluffton, SC  
Since August 2014

Title: The Electrochemistry of Amphitrite ornate Dehaloperoxidase

Ongoing research on this and other related topics with Dr. Edward L. D'Antonio (Biochemistry and Structural Biology)

*Publication*

- Shane M. Carey, Sean P. Kearns, Matthew E. Millington, Gregory S. Buechner, Beda E. Alvarez Jr., Leily Daneshian, Brendan Abiskaroon, Maksymilian Chruszcz b, Edward L. D'Antonio. "At the outer part of the active site in Trypanosoma cruzi glucokinase: The role of phenylalanine 337", *Biochimie*, Volume 218, March 2024, pages 8-19

## ACADEMIC TEACHING EXPERIENCE

University of South Carolina Beaufort, (USCB)  
Natural Sciences Department

Bluffton, SC  
August 2014 – Present

- Instructor for Human Anatomy and Physiology I (lecture and lab, since 2012); “Functional anatomy and physiology of the human body, including integumentary, skeletal, muscular and nervous systems”
  - Fall 2023 – Currently teaching 4 Human A&P I Labs; sections 001, 002, 003, 007
  - Fall 2024 – Currently teaching Human A&P I Lecture – 2 sections (LC1 & LC2) and 1 lab (section 003)
- Instructor for Human Anatomy and Physiology II (lecture and lab, since 2012); “Functional anatomy and physiology of the human body, including cardiovascular, endocrine, excretory, reproductive, digestive and respiratory systems.”
- Instructor for Microbiology (lecture and lab, since 2012, online SU 2020); “Introduction to bacteria and viruses, emphasizing structure, metabolism and pathogenesis. Discussion of infectious diseases, antigen-antibody relationships and anti-microbial agents in chemotherapy.”
  - Fall 2023 – Currently teaching 3 Microbiology courses including an all online (section 01W); sections 001, 002, 01W
  - Fall 2024 – Currently teaching: 4 sections of Microbiology lecture and lab (001, 002, 01W (online); and 003 Lab only.
- Instructor for Human Physiology (lecture and lab, FA 2015); “Physiology of the human body, including nervous, sensory, endocrine, muscle, circulatory, immune, respiratory, digestive, urinary and reproductive systems.”

### *Nursing & Health Professions Department*

- Instructor for Biophysical Pathology (in-person and online since SU 2013); “Overview of the molecular, cellular and organ system changes that occur with common diseases and their impact on total body function. Focus is on the mechanism of the underlying disease, knowledge of which is necessary for effective preventive and therapeutic health care measures.”
- Co-Instructor for Clinical Pharmacology (FA 2015): This course provides an overview of the chemical therapeutic measures which assist patients in reducing the physical and emotional effects of illness and in improving or promoting health. Focus is on the mechanism of action of these interventions as they affect underlying physiological and pathophysiological processes.
- Adjunct Professor for Human Anatomy and Physiology I & II, and Microbiology (August 2012 – August 2014)

Medical University of South Carolina  
Division of Healthcare Studies College of Health Professions

Charleston, SC  
January 2019 – April 2019

- Part-time, Online Instructor Etiology and Pathophysiology of Chronic Diseases (Dual Employment, January 2019 – April 2019); “Broad overview of the most common chronic diseases. Explored aspects of disease epidemiology, diagnosis, and treatment. Provided foundational vocabulary and concepts, as well as broad analysis of the most common chronic diseases. Established framework for the basic disease

processes before discussions of specific organ systems. Concluded with a consideration of diseases that impact multiple organ systems.”

### SPECIAL ACADEMIC ASSIGNMENTS

- Member of the faculty and staff “Student Success Coach” Team. (August 2023 and 2024)
  - We help support and guide students throughout their first year in college.
- Attended and help present at the ITLC Lilly Conference in Asheville, North Carolina, August 2023 – In Experiential Learning - “Cross-Disciplinary Strategies for Implementing Scenario-Based Pedagogy”. Speakers: Butch Alvarez, Jena Chojnowski, Jo Kuehn, Amy Leaphart, Libby Ricardo, Murray Skees
  - Continuing membership and participation with USCB Faculty Learning Center (FLC) to help promote experiential learning. (since 2022)
- Participated in Career Day (on being a Scientist) for Elementary Schools in our Beaufort County area, Spring 2023, 2024.
- Science Fair Judge for Hilton Head Prep – February 15, 2023
- Science Fair Judge for Whale Branch Early College High School – November 16, 2023
- Member of the USCB Public Health Response Team for COVID-19, Leader – Subcommittee on Campus Education (Fall Semester 2020)
- University of South Carolina Beaufort Student Research and Scholarship Day Judge (April 2017, 2018, 2022, 2023, 2024)
- Planned and Conducted Summer Programs – 2022, 2023, 2024
  - YMCA – “Mad Scientist” Summer camp.
    - A week long day camp in which we engage students 8 – 12 years old to discover the Lowcountry through hands on exploring and experimenting including a kayaking trip, and even blasting off a water rocket. (Co-coordinator)
  - Beaufort County Public Library – Summer Program
    - This program is a collaboration between the library and local schools to encourage reading for all ages. We read a book to the young students followed by an activity to engage the students in science. (Co-Coordinator)
- Served on the Faculty Search Committee to hire 4 new Faculty for the Nursing Department. (Spring & Summer 2022)

### MEMBERSHIP & HONORARY PROFESSIONAL SOCIETIES

- Human Anatomy and Physiology Society, member since August 2015
- American Society for Microbiology, member since May 2016

### AWARDS & ACCOMPLISHMENTS

- Nominated for “Outstanding First-Year Instructor of the Year” – First-Year Student Awards 2023 - 2024
- University of South Carolina Beaufort Adjunct Professor of the Year, 2014

## CERTIFICATIONS & LICENSURE

- Educational Commission for Foreign Medical Graduates (ECFMG) Certifies, 1986
- “USCB Getting Ready to Teach Online” Certified, 2020

## COMMUNITY SERVICE

- Knights of Columbus, Fourth Degree Knight, 2010 – present
  - Grand Knight 2022 -2023, 2023 – 2024, 2024 - 2025
- St. Peter’s Catholic School and Church of Beaufort, SC, Events Volunteer, 2010 – present

## LANGUAGE FLUENCY

- Tagalog (Filipino dialect): Comprehension – Advanced; Spoken - Intermediate

## HOBBIES & INTERESTS

- Active with the Knights of Columbus and with the affiliated church and school supporting neighborhood communities in Beaufort, SC
- Golf, Basketball, Softball, Tennis, Pickle Ball, Cooking
- Spending quality time with family and friends

Updated November 2024