

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

Curriculum Vitae

Senior Instructor
University of South Carolina Beaufort
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PROFESSIONAL SUMMARY

Specializing 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. Active with community outreach including YMCA "Mad Scientist" Summer Camp, Local schools Career Days, City special events.

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, BIOL B243 (lecture and lab, since 2012); “Functional anatomy and physiology of the human body, including integumentary, skeletal, muscular and nervous systems”.
 - 4 credit course, includes lecture and lab
 - Fall 2023 – 4 Human A&P I Labs; sections 001, 002, 003, 007
 - Fall 2024 – Human A&P I Lecture – 2 sections (LC1 & LC2) and 1 lab (section 003)
- Instructor for Human Anatomy and Physiology II, BIOL B244 (lecture and lab, since 2012); “Functional anatomy and physiology of the human body, including cardiovascular, endocrine, excretory, reproductive, digestive and respiratory systems.”
 - 4 credit course, includes lecture and lab
 - Spring 2025 – Human A&P II Lecture – 2 sections (LC1 & LC2)
- Instructor for Microbiology (lecture and lab, since 2012, online since 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 – 3 Microbiology courses (lecture and lab) including an all online (section 01W); sections 001, 002, 01W,
 - Fall 2024 – 4 sections of Microbiology lecture and lab (001, 002, 01W (online); and 003 Lab only.
 - Summer 2025 – Online Section 01W (lecture and lab)
 - Fall 2025 - Currently teaching: 4 sections of Microbiology lecture and lab (001, 002, 01W (online); and LC1 Lab only.
- Instructor for Human Physiology, BIOL B34 – 001 (lecture and lab, Fall of 2015); “Physiology of the human body, including nervous, sensory, endocrine, muscle, circulatory, immune, respiratory, digestive, urinary and reproductive systems.”
- Instructor for Biological Principles II, BIOL BI02, Lab only.
 - Spring 2017 (Section 006)
 - Spring 2025 (Section 003)

Nursing & Health Professions Department

- Instructor for Biophysical Pathology, NURS B310 (in-person and online since Summer of 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, (Fall 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. Taught in the first month of the semester.

- Adjunct Professor for Human Anatomy and Physiology I & II, and Microbiology (August 2012 – August 2014)

[See Appendix A for listing of courses taught from Fall 2023 to Fall 2025]

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

- Alternate Faculty Senate Representative, 2024 – 2025; 2025 – 2026
- Academic Advisor for Biology and Premedical students.
- Member of the faculty and staff “Student Success Coach” Team. (August 2023, 2024, 2025)
 - We help support and guide students throughout their first year in college.
- Participated in USCB Campus Day where we showcase our department to prospective students. (on going)
- 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, 2025.
- 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, 2025)
- Planned, Directed and/or Participated in Community Outreach Programs – 2022, 2023, 2024, 2025
 - YMCA – “Mad Scientist” Summer camp.
 - A weeklong 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-director)

- 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)
- Have continued participation in several events in manning the tables/booth to showcase USCB at the several events in the Beaufort area, including the Beaufort Shrimp Festival and Beaufort Oyster Festival and Maritime Center events.
- 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
- Continued to participate in the Center for Teaching and Learning (CTL) webinars/seminars to help improve my teaching. I have continued to be a member of the USCB Faculty Learning Committee (FLC). We meet once a month to plan activities to get the faculty engage in experiential learning. Our FLC team in September 2024 organized a Gallery Walk showcasing experiential learning. It is our ongoing commitment to promote experiential learning university wide.

AWARDS & ACCOMPLISHMENTS

- Received the Certificate of Service for 10 years of loyal and faithful service to the citizens of the State of South Carolina, April 8, 2025.
- Nominated for “Outstanding First-Year Instructor of the Year” – First-Year Student Awards 2023 – 2024
- Promoted to Senior Instructor – April 15, 2021
- Academic Textbook Reviewer (Summer 2019) Reviewer for the Pre-Revision manuscript for *Super Simple Anatomy & Physiology: The Ultimate Learning Tool* by Nelson Kraus; Cognella, Inc.
- 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 September 2025

Appendix A – Listing of Courses Taught from Fall 2023 to Fall 2025

Courses Taught in Fall 2023

1. BIOL B230 - 01W Microbiology –27578– Fall 2023, (Lecture and Lab - 4 credits); Online, Asynchronous.
2. BIOL B230 – 001 Microbiology – 27579 – Fall 2023, (Lecture and Lab - 4 credits)
3. BIOL B230 – 002 Microbiology – 27581 – Fall 2023,(Lecture and Lab - 4 credits)
4. BIOL B243 – 001 Human Anatomy and Physiology I – 27584 – (4 credits, Taught the Lab only)
Fall 2023
5. BIOL B243 – 002 Human Anatomy and Physiology I – 27585 – (4 credits, Taught the Lab only)
Fall 2023
6. BIOL B243 – 003 Human Anatomy and Physiology I – 27586 – (4 credits, Taught the Lab only)
Fall 2023
7. BIOL B243 – 007 Human Anatomy and Physiology I – 31101 – (4 credits, Taught the Lab only)
Fall 2023

Courses Taught Spring 2024

1. BIOL B230-001 – Microbiology – 54952 – (Lecture and Lab – 4 credits) – Spring 2024
2. BIOL B244 – 001 Human Anatomy & Physiology II – 54963 - (4 credits, Taught Lab only)
Spring 2024
3. BIOL B244 – 004 Human Anatomy & Physiology II – 54966 – (4 Credits, Taught Lab only)
Spring 2024
4. BIOL B244 – 005 Human Anatomy & Physiology II – 55342 – (4 Credits, Taught Lab only)
Spring 2024
5. BIOL B244 – LC2 Human Anatomy & Physiology II – 58096 – (4 Credits, Taught Lab only)
Spring 2024

Course Taught Summer 2024

1. BIOL B230-01W – Microbiology – 74190 – (Lecture and Lab – 4 credits) – Online Asynchronous,
Summer 2024

Courses Taught Fall 2024

1. BIOL B230 – 001 Microbiology – 27330 – (4 Credits, Lecture and Lab) Fall 2024
2. BIOL B230 – 002 Microbiology – 27334 – (4 Credits, Lecture and Lab) Fall 2024
3. BIOL B230 – 01W Microbiology – 27335 – (4 Credits, Online lecture and lab) Fall 2024,
4. BIOL B230 – LC1 Microbiology – 27336 – (4 Credits, Taught the Lab only) Fall 2024
5. BIOL B243 – 003 Human Anatomy and Physiology I – 27340 – (4 Credits, Taught the Lab only)
Fall 2024
6. BIOL B243 – LC1 Human Anatomy and Physiology I – 27347– (4 Credits, Taught Lecture only)
Fall 2024
7. BIOL B243 – LC2 Human Anatomy and Physiology I – 27586 – (4 Credits, Taught Lecture only)
Fall 2024

Courses Taught Spring 2025

1. BIOL B244 – LC1 Human Anatomy and Physiology II – 57496 – (4 Credits, Taught Lecture only)
2. BIOL B431L – Bacteriology Lab – 57527 – (1 credit)
3. BIOL B102 – 003 Biological Principles II – 57477 – (4 credits, Taught Lab only)

Course Taught Summer 2025

1. BIOL B230-01W – Microbiology – 74829 – (4 credits, Lecture and Lab) – Online Asynchronous, Summer 2025

Courses Teaching Fall 2025

1. BIOL B230 – 001 Microbiology – 28694 – (4 Credits, Lecture and Lab) Fall 2025
2. BIOL B230 – 002 Microbiology – 28695 – (4 Credits, Lecture and Lab) Fall 2025
3. BIOL B230 – 01W Microbiology – 28696 – (4 Credits, Online lecture and lab) Fall 2025
4. BIOL B230 – LC1 Microbiology – 28697 – (4 Credits, Taught the Lab only) Fall 2025

Updated September 2025