

Comparative Biomedical Sciences

Course offerings and research topics currently include, but are not limited to: cell biology, genomics, infectious diseases, developmental biology, immunology, cardiology, pharmacokinetics, oncology, toxicology, gastroenterology, neuroscience, reproductive physiology, biotechnology, microbiology, aquatic/ wildlife biology, biomedical engineering, endocrinology, molecular biology, pulmonary biology, epidemiology, population medicine, health systems monitoring, transplantation and radiology.

Admission Requirements

All applications are reviewed by the Graduate Studies Committee of the CBS Program, composed of faculty members representing each area of the graduate program and a graduate student representative. Scores from the GRE are not required for admission. Candidates who do not have a DVM degree must have a baccalaureate degree or advanced degree from a college or university recognized as standard by a regional or general accrediting agency. Students with a 3.0 (on a 4.0 scale) undergraduate or DVM curriculum with appropriate course background will be considered for admission.

Doctoral Degree Requirements

Credit hour requirements for the Ph.D. degree are determined by the graduate student's committee with approval of the Director of Graduate Programs and the Graduate School.

Student Financial Support

Research assistantships and fellowships are awarded to qualified candidates on the competitive basis by the College. These are for 12-month periods, and stipends are competitive with those of other programs. These positions are funded by the grants of individual faculty members and the state appropriations to the College and departments.

Other Relevant Information

The program is organized as seven areas of concentration which include: cell biology, immunology, neuroscience, infectious diseases, pathology, pharmacology, and population and global health. These provide extensive interdisciplinary training and maintain a highly effective liaison with graduate programs in other colleges of the university, as well as those of nearby Duke University and the University of North Carolina at Chapel Hill.

Degrees

- Comparative Biomedical Sciences (MS) (<http://catalog.ncsu.edu/graduate/veterinary-medicine/comparative-biomedical-sciences/comparative-biomedical-sciences-ms/>)
- Comparative Biomedical Sciences (MS): Food Animals Concentration (PSM) (<http://catalog.ncsu.edu/graduate/veterinary-medicine/comparative-biomedical-sciences/food-animals-psm-concentration/>)
- Comparative Biomedical Sciences (PhD) (<http://catalog.ncsu.edu/graduate/veterinary-medicine/comparative-biomedical-sciences/comparative-biomedical-sciences-phd/>)
- Comparative Biomedical Sciences (PhD): Cell Biology Concentration (<http://catalog.ncsu.edu/graduate/veterinary-medicine/comparative-biomedical-sciences/comparative-biomedical-sciences-phd-cell-biology-concentration/>)

<http://catalog.ncsu.edu/graduate/veterinary-medicine/comparative-biomedical-sciences/comparative-biomedical-sciences-phd-cell-biology-concentration/>)

- Comparative Biomedical Sciences (PhD): Immunology Concentration (<http://catalog.ncsu.edu/graduate/veterinary-medicine/comparative-biomedical-sciences/comparative-biomedical-sciences-phd-immunology-concentration/>)
- Comparative Biomedical Sciences (PhD): Infectious Diseases Concentration (<http://catalog.ncsu.edu/graduate/veterinary-medicine/comparative-biomedical-sciences/comparative-biomedical-sciences-phd-infectious-diseases-concentration/>)
- Comparative Biomedical Sciences (PhD): Neurosciences Concentration (<http://catalog.ncsu.edu/graduate/veterinary-medicine/comparative-biomedical-sciences/comparative-biomedical-sciences-phd-neurosciences-concentration/>)
- Comparative Biomedical Sciences (PhD): Pathology Concentration (<http://catalog.ncsu.edu/graduate/veterinary-medicine/comparative-biomedical-sciences/comparative-biomedical-sciences-phd-pathology-concentration/>)
- Comparative Biomedical Sciences (PhD): Pharmacology Concentration (<http://catalog.ncsu.edu/graduate/veterinary-medicine/comparative-biomedical-sciences/comparative-biomedical-sciences-phd-pharmacology-concentration/>)
- Comparative Biomedical Sciences (PhD): Population and Global Health (<http://catalog.ncsu.edu/graduate/veterinary-medicine/comparative-biomedical-sciences/comparative-biomedical-sciences-phd-population-med-vet-public-health-concentration/>)
- Comparative Biomedical Science (Minor) (<http://catalog.ncsu.edu/graduate/veterinary-medicine/comparative-biomedical-sciences/comparative-biomedical-science-minor/>)

Faculty

Full Professors

Kenneth B. Adler

Glen William Almond

Kevin L. Anderson

Christopher M. Ashwell

Ronald E. Baynes

Adam Joseph Birkenheuer

Anthony T. Bliklager

James C. Bonner

Russell J. Borski

Matthew Breen

Edward Bealmear Breitschwerdt

Ke Cheng

Maria T Correa

Paula J Cray

Rocio Crespo

Frederick J. Fuller
John E. Gadsby
Troy Ghashghaei
Isabel M. Gimeno
John R. Godwin
Jody L. Gookin
Bruce Hammerberg
Lee-Ann Jaykus
Samuel L. Jones
Matthew D. Koci
Seth William Kullman
Duncan X. Lascelles
Scott M. Laster
Jerry M. Law
Keith E. Linder
Carolyn Jane Mattingly
Kathryn Montgome Meurs
Paul Edward Mozdziak
Natasha J. Olby
Mark G. Papich
Heather Patisaul
Jorge A. Piedrahita
Emilie Francesca Rissman
Yogesh Saini
Philip L. Sannes
Barbara Sherry
Robert Charles Smart
Geoffrey W. Smith
Joshua Stern
Michael K. Stoskopf
Siddhartha Thakur
Jun Tsuji
Jeffrey A. Yoder

Associate Professors

Petra Bizikova
Luke B. Borst
Nicolas Emile Buchler
Jonathan E. Fogle
Derek M. Foster
Michala de Linde Henriksen
Paul R. Hess
Megan E. Jacob
Cristina Lanzas
Sara K. Lyle
John Edward Meitzen
Nanette M. Nascone-Yoder
Michael Warren Nolan
Monique Danielle Pairis-Garcia
Xinxia Peng
Antonio Planchart
Marcelo Rodriguez-Puebla
Michael Sano
Lauren V. Schnabel
Michael L. Sikes
Barrett D Slenning
Susan T. Tonkonogy
Gregory Wilkerson

Assistant Professors

Belinda Sena Akpa
Abigail Armwood
Christa Baker
Tal Ben-Horin
Eric Robert Brooks
Yevgeny Brudno
Benjamin John Callahan
Elisa Crisci
Glenn Paul Cruse

Christopher Matthew Dekaney

Liana M. Gonzalez

Margaret Elizabeth Gruen

Christopher Daniel Guilluy

Jennifer Lauren Halleran

Tobias Ernst Kaeser

Albert Jun Qi Keung

Raveendra Rangarao Kulkarni

Caroline Laplante

Elizabeth Lucas

Jennifer Ann Luff

Gustavo Machado

Kurt Marsden

Kelly Ann Meiklejohn

Kristen Michele Messenger

Santosh Kumar Mishra

Hiroyuko Mochizuki

Annie Oh

Karen Min-Jee Park

Kursten Veronica Pierce

Michael Rahe

Sarah Kathleen Rhea

Breanna Jo Sheahan

Mary Katherine Sheats

Sarah Elizabeth Shelton

Thiago Vilar Silva

Panchan Sitthicharoenchai

Eduardo Javier Lopez Soto

Casey Michelle Theriot

Laurianne Chantal Van Landeghem

Jose Augusto Len Yin

Practice/Research/Teaching Professors

Alix Berglund

Phuong-Uyen Cao Dinh

Ke Huang

Ricardo G. Maggi

Thierry Jean Marie Olivry

Erin Frey Pearson

Adjunct Faculty

Hannah Atkins

Jennifer Lynn Davis

Janice A. Dye

Johanna Rebecca Elfenbein

Holly Roessner

Elizabeth Caitlin Rose

Alexander Tran

Teaching Assistant Professor

Kristen Sullivan

Emeritus Faculty

Harold J. Barnes

Talmage T. Brown Jr.

John Michael Cullen

Lloyd Norman Fleisher

Oscar J. Fletcher Jr.

Sarah Y. Gardner

Marlene L. Hauck

Cynthia L. Hemenway

Suzanne Kennedy-Stoskopf

Michael Green Levy

David H. Ley

Nancy A. Monteiro-Riviere

William M. Morrow

Paul E. Orndorff

W. Rich Redding

Jim E. Riviere

Malcolm C. Roberts

Barbara Lynn Sherman

Clifford Richard Swanson

Donald E. Thrall