

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
Shobhan Gaddameedhi
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
 Lisa Gamsjaeger
 Liara 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