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

Faculty

Full Professors

Kenneth B. Adler
Glen William Almond
Kevin L. Anderson
Christopher M. Ashwell
Ronald E. Baynes
Adam Joseph Birkenheuer
Anthony T. Blikslager
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 Patitsaul  
Jorge A. Piedrahita  
Emilie Francesca Rissman  
Philip L. Sannes  
Barbara Sherry  
Robert Charles Smart  
Geoffrey W. Smith  
Michael K. Stoskopf  
Siddhartha Thakur  
Jeffrey A. Yoder  

Jonathan E. Fogle  
Derek M. Foster  
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  
Lauren V. Schnabel  
Michael L. Sikes  
Barrett D Slenning  
Susan T. Tonkonogy  
Gregory Wilkerson

Assistant Professors
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Tal Ben-Horin  
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Yevgeny Brudno  
Benjamin John Callahan  
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Glenn Paul Cruse  
Christopher Matthew Dekaney  
Liara M. Gonzalez  
Margaret Elizabeth Gruen  
Christopher Daniel Guilluy  
Jennifer Lauren Halleran  
Tobias Ernst Kaeser  
Albert Jun Qi Keung  
Raveendra Rangarao Kulkarni

Associate Professors
Petra Bizikova  
Luke B. Borst  
Nicolas Emile Buchler
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
Sarah Kathleen Rhea
Mary Katherine Sheats
Thiago Vilar Silva
Eduardo Javier Lopez Soto
Casey Michelle Theriot
Laurianne Chantal Van Landeghem
Jose Augusto Len Yin

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

Adjunct Faculty
Jennifer Lynn Davis
Janice A. Dye
Johanna Rebecca Elfenbein

Practice/Research/Teaching Professors
Phuong-Uyen Cao Dinh
Ke Huang
Ricardo G. Maggi
Thierry Jean Marie Olivry
Erin Frey Pearson

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