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 required for admission by all applicants except for applicants with a DVM degree. 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 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, population medicine, infectious diseases, pathology, pharmacology, and neuroscience. 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/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/)
- 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/)

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
Associate Professors

Belinda Sena Akpa
Tal Ben-Horin
Eric Robert Brooks
Yevgeny Brudno
Benjamin John Callahan
Elisa Crisci
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
Caroline Laplante

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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
Sarah Kathleen Rhea
Mary Katherine Sheats
Thiago Vilar Silva
Eduardo Javier Lopez Soto
Casey Michelle Theriot
Laurianne Chantal Van Landeghem
Jose Augusto Len Yin

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
Cynthia L. Hemenway
Suzanne Kennedy-Stoskopf