

BIOMEDICAL AND BIOLOGICAL SCIENCES (GRADUATE FIELD)

Program Website (<http://vet.cornell.edu/bbs/>)

Field Description

The Cornell University Biomedical and Biological Sciences (BBS) Graduate Program is an interdisciplinary program consisting of outstanding graduate students conducting state-of-the-art basic, clinical and translational life sciences research alongside their world-renowned faculty mentors and other research professionals. Housed in the heart of biomedical research at the Cornell-Ithaca campus in the College of Veterinary Medicine, the BBS program takes advantage of outstanding research facilities, the vibrant Cornell campus and strong links to the Weill Cornell Medical College campus in New York City. The BBS Program fosters a nurturing, student-centered community of scholars that is accessible, engaging and committed to ensuring that our graduate students reach their full potential in research, teaching and professional development. Students in the BBS field will select Special Committee chairs associated with one of five concentrations: Immunology and Infectious Disease, Molecular and Cellular Medicine, Population Medicine and Epidemiology, Translational Medicine, and Zoology and Wildlife Conservation.

Population Medicine and Epidemiology represents the study of health and disease in a population and the underlying factors that lead to these conditions. The goal of this research is to prevent the spread and/or future incidents of illness. As such, it is considered the cornerstone of public health, production medicine, and preventive medicine.

Immunology and Infectious Disease: The concentration of Immunology and Infectious Disease has a substantial cadre of faculty members and students working in the areas of infection and immunity, cellular immunology, immune regulation, immunogenetics, and immunopathology. There are also members currently carrying out studies in the areas of immunotoxicology, membrane biochemistry, developmental immunology, immunoparasitology, and related fields.

Molecular and Cellular Medicine faculty and trainees are engaged in investigations of fundamental cellular processes and the mechanisms that control them in health and disease. Research projects range from molecular interactions, protein folding, and membrane biophysics to development and function of organ systems and whole animals. Fundamental research, using cutting-edge technologies, enables researchers at Cornell to make significant advances in broad scientific disciplines such as cell and developmental biology, genetics and genomics, neurobiology, pharmacology, and physiology.

Translational Medicine: Translational medicine seeks to leverage basic science discovery for the development of new therapies that will improve the health of animals and humans. Basic scientists and clinicians partner in drug and biomarker discovery, stem cell and regenerative medicine, and development of imaging technology to tackle problems in reproductive biology, infectious disease, cancer, cardiovascular disease, and other clinically relevant areas.

Zoology and Wildlife Conservation integrates two broad fields of biology: animal biology and conservation biology. Opportunities exist for study and research in comparative and functional anatomy, developmental biology, and comparative and experimental embryology. The survival of threatened and endangered species requires innovative and integrative

ideas and approaches to wildlife conservation, and our faculty are those innovators – conservation studies focus on individual animals, species, and ecosystems.

Data and Statistics

- Doctoral Program Statistics (<https://gradschool.cornell.edu/about/program-metrics-assessments-and-outcomes/doctoral-program-statistics/?SelectGradField=A0>)

Field Manual

- Manual (<https://www.vet.cornell.edu/education/biomedical-biological-sciences-bbs-phd-program/current-students/>)

Subject and Degrees

Biomedical Sciences

- Biomedical and Biological Sciences (PhD) (<https://catalog.cornell.edu/programs/biomedical-sciences-phd/>)

Concentrations by Subject

Biomedical Sciences

- immunology and infectious disease
- molecular and cellular medicine
- population medicine and epidemiology
- translational medicine
- zoology and wildlife conservation

Faculty

Carolyn E. Adler (<http://adlerlab.vet.cornell.edu/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine

Hector Aguilar-Carreno (<http://www.vet.cornell.edu/research/faculty/hector-aguilar-carreno/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; translational medicine

Craig Altier (<http://www2.vet.cornell.edu/research/faculty/craig-altier-dvm-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease

Marc A. Antonyak (<http://www.vet.cornell.edu/research/faculty/marc-antonyak/>)

- **Campus:** Ithaca - (Minor Member)
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine
- **Research Interests:** An over-arching goal of my work has been to understand the signaling cues and regulatory events that direct the growth and survival of cells. These efforts have led me to study what is turning out to be an exciting mechanism of intercellular communication that is garnering a good deal of attention from the cell and cancer biology communities. It involves the ability of cells to form and release (shed) multiple distinct classes of non-traditional secretory vesicles, collectively referred to as extracellular vesicles

(EVs). EVs generated by cancer cells contain a variety of cytosolic and nuclear proteins, metabolic enzymes, RNA transcripts, and even micro-RNAs that can be transferred between two cancer cells, or between a cancer cell and a normal cell, thereby altering the behavior of recipient cells in ways that support cancer progression.

Avery August (<http://www2.vet.cornell.edu/research/faculty/avery-august-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine; translational medicine

Joeva Barrow (<http://www.human.cornell.edu/people/jb2254/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine
- **Research Interests:** Molecular Nutrition

Parminder S. Basran (<http://www.vet.cornell.edu/parminder-s-basran-phd-fccpm/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: translational medicine
- **Research Interests:** My lab has 3 main areas of focus in Veterinary Medicine: Radiation Dosimetry and Treatment Planning; Medical Image Processing and Analysis; and Medical Physics Training and Education. I have keen interests in machine learning methods in radiation oncology, stereotactic ablative radiation therapies and hypofractionation, and medical imaging processing and analysis.

Ana Isabel Ramos Bento (<http://www.vet.cornell.edu/ana-bento-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; population medicine and epidemiology; translational medicine
- **Research Interests:** In my lab we seek to understand the dynamics of biological populations and epidemics, focusing on how to bring experimental and observational data together with mathematical theory. Tackling biological questions of public application and importance. The lab ongoing research falls into the following themes: (i) pathogen evolution and phylodynamics; (ii) seasonal disease transmission; (iii) anthropogenic effects (e.g. vaccines); (iv) adaptive behavior.

Adam Boyko (<http://www2.vet.cornell.edu/research/faculty/adam-boyko-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: zoology and wildlife conservation

Ilana Lauren Brito (<http://www.bme.cornell.edu/faculty-directory/ilana-lauren-brito/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine
- **Research Interests:** infection and immunity, genetics and genomics

Nicolas S Buchon (<http://cals.cornell.edu/nicolas-buchon/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease

Elizabeth L. Buckles (<http://www2.vet.cornell.edu/research/faculty/elizabeth-buckles-dvm-phd-dacvp/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: zoology and wildlife conservation

Jonathan T. Butcher (<http://www.bme.cornell.edu/faculty-directory/jonathan-t-butcher/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; translational medicine

Sarah Caddy (<http://www.vet.cornell.edu/departments-centers-and-institutes/baker-institute/our-research/meet-our-faculty/sarah-caddy-ma-vetmb-phd-dacvm-mrcvs/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine; translational medicine
- **Research Interests:** immunology and infectious disease, molecular and cellular medicine, translational medicine

Casey Lu Cazer (<http://www.vet.cornell.edu/research/faculty/casey-cazer-dvm-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: population medicine and epidemiology
- **Research Interests:** Population Medicine & Epidemiology

Richard A Cerione (<http://www2.vet.cornell.edu/research/faculty/richard-cerione-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine

Yung-Fu Chang (<http://www2.vet.cornell.edu/research/faculty/yung-fu-chang/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine; translational medicine; zoology and wildlife conservation

Pamela V. Chang (<http://www.pamchanglab.com/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease

Soon Hon Cheong (<http://www2.vet.cornell.edu/research/faculty/soon-hon-cheong-dvm-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine; population medicine

and epidemiology; translational medicine; zoology and wildlife conservation

Paula Cohen (<http://www2.vet.cornell.edu/research/faculty/paula-cohen-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine

Aimee Colbath (<http://www.vet.cornell.edu/research/faculty/aimee-colbath-vmd-ms-dacvs-la/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: translational medicine
- **Research Interests:** translational medicine

Ruth N Collins (<http://www2.vet.cornell.edu/research-departments/faculty/ruth-collins-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine

Pierre Comizzoli (<http://www.vet.cornell.edu/education/biomedical-biological-sciences-bbs-phd-program/phd-program/research-specialties/wildlife-conservation/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: zoology and wildlife conservation

Brian Crane (<http://chemistry.cornell.edu/brian-crane/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine
- **Research Interests:** Protein redox chemistry; electron-transfer reactions; mechanisms of signal transduction; circadian clocks; protein photosensors; bacterial chemotaxis; receptor signaling; nitric oxide enzymology; metallobiochemistry

Kevin J. Cummings (<http://www2.vet.cornell.edu/research/faculty/kevin-cummings-dvm-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; population medicine and epidemiology

Robin Dando (<http://cals.cornell.edu/robin-dando/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine

Susan Daniel (<http://www.cheme.cornell.edu/faculty-directory/susan-daniel/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine
- **Research Interests:** biochemical engineering; surface science; fluid dynamics; heat and mass transfer

Charles G. Danko (<http://www.vet.cornell.edu/research/faculty/charles-danko-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; population medicine and epidemiology

Arunika Das (<http://www.vet.cornell.edu/arunika-das-ms-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine
- **Research Interests:** Biochemistry and Cell Biology Medical Genetics and Genomics Reproductive Biology

Erin K. Daugherty (<http://researchservices.cornell.edu/resources/care-staff/>)

- **Campus:** Ithaca - (Minor Member)
- **Concentrations:** *Biomedical Sciences*: translational medicine
- **Research Interests:** Translational medicine

Mandi M de Mestre (<http://www.vet.cornell.edu/departments-centers-and-institutes/baker-institute/research-baker-institute/meet-our-faculty/mandi-de-mestre-bvsc-hons-phd-pgcap-mrcvs/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; translational medicine
- **Research Interests:** molecular and cellular medicine; translational medicine

Iwijn De Vlaminck (<http://www.bme.cornell.edu/faculty-directory/iwijn-de-vlaminck/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine
- **Research Interests:** Medical Genetics and Genomics

Michelle Lee Delco (<http://www.vet.cornell.edu/research/faculty/michelle-l-delco-dvm-phd-dacvs/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; translational medicine
- **Research Interests:** biochemistry & cell biology, stem cell biology

Matthew P DeLisi (<http://www.engineering.cornell.edu/faculty-directory/matthew-delisa/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine; translational medicine

Diego G Diel (<http://www.vet.cornell.edu/research/faculty/diego-diel-dvm-ms-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease
- **Research Interests:** infection and immunity

Tobias Doerr (<http://cals.cornell.edu/tobias-doerr/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease

Anushka Dongre (<http://www.vet.cornell.edu/research/faculty/anushka-dongre-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine; translational medicine
- **Research Interests:** translational medicine; immunology and infection disease; molecular and cellular medicine

Callum G. Donnelly (<http://www.vet.cornell.edu/callum-donnelly-bvetbiolbvetsc-dact-dacvim-la/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; translational medicine
- **Research Interests:** molecular and cellular medicine; translational medicine

Gerald E. Duhamel (<http://www2.vet.cornell.edu/research-departments/faculty/gerald-duhamel-dvm-phd-dacvp/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; translational medicine

Jacquelyn M Evans (<http://www.vet.cornell.edu/departments-centers-and-institutes/baker-institute/our-research/meet-our-faculty/jacquelyn-evans-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; population medicine and epidemiology
- **Research Interests:** population medicine and epidemiology; molecular and cellular medicine

Maria Julia Bevilacqua Felipe (<http://www.vet.cornell.edu/research/faculty/julia-felippe-medvet-ms-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; translational medicine

Julia L. Finkelstein (<http://www.human.cornell.edu/people/jlf288/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine; population medicine and epidemiology; translational medicine

Kathryn Fiorella (<http://www.kathrynfiorrella.com/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: population medicine and epidemiology; zoology and wildlife conservation
- **Research Interests:** epidemiology, wildlife conservation

Claudia Fischbach-Teschl (<http://www.bme.cornell.edu/faculty-directory/claudia-fischbach/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: translational medicine

Andrew Flyak (<http://www.vet.cornell.edu/andrew-flyak-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine; translational medicine
- **Research Interests:** immunology and infectious disease; translational medicine; molecular and cellular medicine

Deborah J. Fowell (<http://www.vet.cornell.edu/research/faculty/deborah-fowell/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine
- **Research Interests:** Regulation of immunity at tissue sites of infection and autoimmunity, immune imaging, intravital multiphoton microscopy

Amandine Gamble (<http://amandinegamble.github.io/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: population medicine and epidemiology; zoology and wildlife conservation
- **Research Interests:** I investigate what drives hosts' contributions to pathogen dynamics across biological scales, from host-pathogen molecular interactions to host species interactions. To do so, I combine theoretical, observational, and experimental approaches, and consider various study systems in the lab and in the field, including emerging bat-borne viruses and their hosts, and bacterial pathogens of endangered seabirds. I collaborate with stakeholders to translate scientific outputs into sustainable, targeted solutions against pathogen threats, with the focus on ecological interventions.

Rodman Guy Getchell (<http://www.vet.cornell.edu/research/faculty/rodman-getchell-phd/>)

- **Campus:** Ithaca - (Minor Member)
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; population medicine and epidemiology; zoology and wildlife conservation
- **Research Interests:** epidemiology, infection and immunity, wildlife conservation

Martin Gilbert (<http://www2.vet.cornell.edu/research/faculty/martin-gilbert/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: zoology and wildlife conservation

Laura Goodman (<http://www2.vet.cornell.edu/research/faculty/laura-goodman-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; translational medicine; zoology and wildlife conservation
- **Research Interests:** infection & immunity, epidemiology, wildlife conservation, genetics & genomics

Yrjo Tapio Grohn (<http://www2.vet.cornell.edu/research/faculty/yrj-grhn/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: population medicine and epidemiology

Chun Han (<http://cals.cornell.edu/chun-han/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine
- **Research Interests:** molecular and cellular medicine

Galina M. Hayes (<http://www.vet.cornell.edu/research/faculty/galina-m-hayes-bvsc-mrcvs-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: population medicine and epidemiology

Brandon P Hedrick (<http://www.vet.cornell.edu/brandon-p-hedrick-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: zoology and wildlife conservation
- **Research Interests:** Evolutionary biologist, comparative anatomist, and ecologist interested primarily in questions relating to ecomorphology and macroevolutionary trends.

Gunther Holloper (<http://www2.vet.cornell.edu/research-departments/faculty/gunther-holloper-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine

Fenghua Hu (<http://hu.wicmb.cornell.edu/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; translational medicine

Kelly R. Hume (<http://www2.vet.cornell.edu/research/faculty/kelly-r-hume-dvm-dacvim/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; translational medicine

Saki Ichikawa (<http://www.vet.cornell.edu/saki-ichikawa-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine
- **Research Interests:** molecular and cellular medicine

Renata Ivanek Miojevic (<http://www2.vet.cornell.edu/research/faculty/renata-ivanek/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; population medicine and epidemiology; translational medicine

Glenn Albert Jackson (<http://researchservices.cornell.edu/resources/care-staff/>)

- **Campus:** Ithaca - (Minor Member)
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; translational medicine
- **Research Interests:** Molecular and cellular medicine, translational medicine

Mason Cameron Jager (<http://www.vet.cornell.edu/mason-c-jager-dvm-phd-dacvp/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; translational medicine
- **Research Interests:** immunology and infectious disease; translational medicine

Shaoyi Jiang (<http://www.bme.cornell.edu/faculty-directory/shaoyi-jiang/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine; translational medicine
- **Research Interests:** Immunology and Infectious Disease, Molecular and Cellular Medicine, Translational Medicine

Elizabeth Lauren Johnson (<http://www.human.cornell.edu/people/elj54/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine
- **Research Interests:** Molecular and Cellular Medicine

Toshimitsu Kawate (<http://www2.vet.cornell.edu/research/faculty/toshi-kawate-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine

Jongmin Kim (<http://www.vet.cornell.edu/research/jongmin-kim-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine
- **Research Interests:** biochemistry and cell biology medical genetics and genomics reproductive biology stem cell biology

Satoshi Kimura (<http://www.vet.cornell.edu/satoshi-kimura-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine
- **Research Interests:** Kimura lab focuses on translation mechanisms in bacterial pathogens.

Holger Klinck (<http://www.birds.cornell.edu/brp/holger-klinck/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: zoology and wildlife conservation

Rafael Kroon Campos (<http://www.vet.cornell.edu/rafael-kroon-campos/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine

- **Research Interests:** Infection and Immunity, Biochemistry and Cell Biology

Natasza Kurpios (<http://www.vet.cornell.edu/research/faculty/natasza-kurpios-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine

Alex Kwan (<http://alexkwanlab.org/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; translational medicine
- **Research Interests:** Molecular and cellular medicine; Translational medicine

Jan Lammerding (<http://lammerding.wicmb.cornell.edu/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine

Colleen M. Lau (<http://www.vet.cornell.edu/research/faculty/colleen-lau-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine
- **Research Interests:** Immunology and infectious disease, molecular and cellular medicine

Brian Paul Lazzaro (<http://cals.cornell.edu/brian-paul-lazzaro/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease

Eric C. Ledbetter (<http://www2.vet.cornell.edu/research/faculty/eric-c-ledbetter-dvm/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease

Esak Lee (<http://www.bme.cornell.edu/faculty-directory/esak-isaac-lee/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine
- **Research Interests:** vascular biology, cancer biology, lymphology and immunology

Sylvia Siu Lee (<http://blogs.cornell.edu/sylvialeelab/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine

Cynthia A. Leifer (<http://www2.vet.cornell.edu/research/faculty/cynthia-leifer-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine

Karl J Lewis (<http://www.bme.cornell.edu/faculty-directory/karl-lewis/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; translational medicine
- **Research Interests:** molecular and cellular medicine, translational medicine

David Ming Lin (<http://www2.vet.cornell.edu/research-departments/faculty/david-lin-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine

Maurine E. Linder (<http://www2.vet.cornell.edu/research/faculty/maurine-linder-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine

Marla E. Lujan (<http://www.human.cornell.edu/people/mel245/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: translational medicine

Sabine Mann (<http://www2.vet.cornell.edu/research/faculty/sabine-mann/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine; population medicine and epidemiology; translational medicine

Eirene Chloe Markenscoff-Papadimitriou (<http://cals.cornell.edu/eirene-markenscoff-papadimitriou/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine
- **Research Interests:** molecular and cellular medicine

Jessica McArt (<http://www2.vet.cornell.edu/research/faculty/jessica-mcart-dvm-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: population medicine and epidemiology

Mandy J. McGeachy (<http://www.vet.cornell.edu/mandy-mcgeachy-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease
- **Research Interests:** Immunology and infectious disease

Saurabh Mehta (<http://mehta.human.cornell.edu/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; population medicine and epidemiology; translational medicine

Andrew David Miller (<http://www.vet.cornell.edu/research/faculty/andrew-miller-dvm-dacvp/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: translational medicine

Katharyn Jean Mitchell (<http://www.vet.cornell.edu/research/faculty/katharyn-mitchell-dvm-phd-bvsc-acvim-laim/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; translational medicine
- **Research Interests:** Molecular and Cellular Medicine, Translational Medicine

Hussni Omar Mohammed (<http://www2.vet.cornell.edu/research/faculty/hussni-o-mohammed/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: population medicine and epidemiology; translational medicine; zoology and wildlife conservation

Alexander Yu Nikitin (<http://www2.vet.cornell.edu/research/faculty/alexander-nikitin-md-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; translational medicine

Nozomi Nishimura (<http://www.bme.cornell.edu/faculty-directory/nozomi-nishimura/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: translational medicine
- **Research Interests:** Neuroscience

Linda M Nowak (<http://www2.vet.cornell.edu/research-departments/faculty/linda-nowak-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine

Zeribe Nwosu (<http://cals.cornell.edu/zeribe-nwosu/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; translational medicine
- **Research Interests:** The Nwosu lab focuses on cancer metabolism and therapy. The goal of the lab is to identify and study novel mechanisms through which cancer cells acquire/use nutrients and to explore strategies for disrupting such processes for cancer therapy. Specific interests include to identify and characterize nutrient transporters, novel enzymes, oncogenic signaling, transcriptional or epigenetic regulators or cellular components in the tumor microenvironment (e.g., immune cells, fibroblasts) that facilitate cancer cells ability to 'feed' and grow.

Daryl Van Nydam (<http://www2.vet.cornell.edu/research/faculty/daryl-nydam/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; population medicine and epidemiology; translational medicine

Kimberly O. O'Brien (<http://www.human.cornell.edu/people/koo4/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; translational medicine

Steven A. Osofsky (<http://www.vet.cornell.edu/research/faculty/steven-osofsky/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: zoology and wildlife conservation

John Stuart Leslie Parker (<http://www2.vet.cornell.edu/research/faculty/john-s-l-parker-bvms-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine; translational medicine

Colin Ross Parrish (<http://www2.vet.cornell.edu/research/faculty/colin-r-parrish-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; population medicine and epidemiology; zoology and wildlife conservation

Joseph E Peters (<http://cals.cornell.edu/joseph-e-peters/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease
- **Research Interests:** Immunology and infectious disease

Ned J. Place (<http://www2.vet.cornell.edu/research/faculty/ned-place-phd-md/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: translational medicine; zoology and wildlife conservation

Raina K. Plowright (<http://www.vet.cornell.edu/raina-plowright-phd-ms-bvsc/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; population medicine and epidemiology; zoology and wildlife conservation
- **Research Interests:** Immunology and infectious disease; population medicine and epidemiology; zoology and wildlife conservation

Shu-Bing Qian (<http://qian.human.cornell.edu/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; translational medicine

Brian Rudd (<http://www2.vet.cornell.edu/research/faculty/brian-rudd-mph-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease

David G Russell (<http://www2.vet.cornell.edu/research/faculty/david-russell-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease

Richa Sardana (<http://www.vet.cornell.edu/richa-sardana-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine
- **Research Interests:** Molecular and Cellular Medicine

Chris B. Schaffer (<http://www.bme.cornell.edu/faculty-directory/chris-schaffer/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine

Luis M. Schang (<http://www2.vet.cornell.edu/research/faculty/luis-m-schang-mv-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine; translational medicine

John C. Schimenti (<http://www2.vet.cornell.edu/research-departments/faculty/john-schimenti-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine

Krysten L. Schuler (<http://www2.vet.cornell.edu/research/faculty/krysten-schuler/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: population medicine and epidemiology; zoology and wildlife conservation

Vimal Selvaraj (<http://cals.cornell.edu/vimal-selvaraj/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; zoology and wildlife conservation

Praveen Sethupathy (<http://www2.vet.cornell.edu/research/faculty/praveen-sethupathy-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; translational medicine

Carolyn S. Sevier (<http://www2.vet.cornell.edu/research/faculty/carolyn-sevier-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine

Glenn E Simmons (<http://www.vet.cornell.edu/research/faculty/glenn-e-simmons-jr-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine; translational medicine
- **Research Interests:** immunology and infectious disease; molecular and cellular medicine; translational medicine

Marcus B. Smolka (<http://smolka.wicmb.cornell.edu/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; translational medicine
- **Research Interests:** biomedical sciences, molecular and cellular medicine, translational medicine

Jeongmin Song (<http://www.vet.cornell.edu/research/faculty/jeongmin-song-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine

Nucharin Songsasen (<http://nationalzoo.si.edu/conservation/nucharin-songsasen/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: zoology and wildlife conservation

Ayshwarya Subramanian (<http://cals.cornell.edu/ayshwarya-subramanian-0/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine; translational medicine
- **Research Interests:** Cell states, Systems immunology, Genomic medicine, Computational biology <https://www.cellhomology.space/>

Jennifer J. Sun (<http://jenjsun.com/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: zoology and wildlife conservation
- **Research Interests:** Neuroscience

Rory James Todhunter (<http://www2.vet.cornell.edu/research/faculty/rory-j-todhunter-bvsc-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: translational medicine

Alexander J.A. Travis (<http://www.vet.cornell.edu/research/faculty/alexander-j-travis-vmd-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: zoology and wildlife conservation

Tudorita Tumbur (<http://cals.cornell.edu/tudorita-tumbur/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine

Gerlinde Van de Walle (<http://www2.vet.cornell.edu/research/faculty/gerlinde-van-de-walle-dvm-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine; translational medicine

Brian C. VanderVen (<http://www2.vet.cornell.edu/research/faculty/brian-vandervan-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease

Amy Kristin Vasquez (<http://www.vet.cornell.edu/research/amy-vasquez-dvm-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: population medicine and epidemiology
- **Research Interests:** Epidemiology

Taika von Konigslow (<http://www.vet.cornell.edu/research/faculty/taika-von-konigslow-bsch-msc-dvm-dvsc/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: population medicine and epidemiology
- **Research Interests:** My research interests are in neonatal calf health, antimicrobial stewardship strategies, biomarker predictors of disease, and precision livestock technologies.

Bettina Wagner (<http://www2.vet.cornell.edu/research/faculty/bettina-wagner/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; population medicine and epidemiology; translational medicine

Meng Wang (<http://www.human.cornell.edu/people/mw997/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; translational medicine
- **Research Interests:** molecular and cellular medicine; translational medicine

Lorin D Warnick (<http://www2.vet.cornell.edu/research/faculty/lorin-d-warnick/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: population medicine and epidemiology

Gregory Arthur Weiland (<http://www2.vet.cornell.edu/research-departments/faculty/gregory-weiland-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine

Robert Samuel Weiss (<http://www2.vet.cornell.edu/research/faculty/robert-weiss-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; translational medicine

Andrew C. White (<http://www2.vet.cornell.edu/research/faculty/andrew-white-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; translational medicine

Gary R Whittaker (<http://www2.vet.cornell.edu/research/faculty/gary-whittaker-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine; population medicine and epidemiology; translational medicine

Martin Wiedmann (<http://cals.cornell.edu/martin-wiedmann/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; population medicine and epidemiology

Matthias Josef Wieland (<http://www.vet.cornell.edu/matthias-wieland/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; population medicine and epidemiology
- **Research Interests:** Immunology and infectious disease; population medicine and epidemiology

Mariana Federica Wolfner (<http://cals.cornell.edu/mariana-federica-wolfner/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine

Chunhui (Chris) Xu (<http://www.engineering.cornell.edu/faculty-directory/chris-xu/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine; translational medicine

Andrew Yen (<http://www2.vet.cornell.edu/research-departments/faculty/andrew-yen-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: molecular and cellular medicine

Haiyuan Yu (<http://www.bme.cornell.edu/faculty-directory/haiyuan-yu/>)

- **Campus:** Ithaca
- **Concentrations:** *Biomedical Sciences*: immunology and infectious disease; molecular and cellular medicine
- **Research Interests:** We perform research in the broad area of Biomedical Systems Biology with both high-throughput experimental and integrative computational methodologies.