

University of Connecticut
College of Agriculture and Natural
Resources
Department of Pathobiology and Veterinary
Science

61 North Eagleville Road, Unit-3089

Storrs, CT 06269-3089

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Undergraduate Programs

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[Important additional information](#)

[Suggested Curriculum \(pdf\)](#)

The College of Agriculture and Natural Resources at the University of Connecticut is an excellent place for individuals interested in biological and biomedical sciences.

The Pathobiology and Veterinary Science Department, within the College of Agriculture and Natural Resources, offers the personal attention and other advantages of a small college, while simultaneously offering all the best of a nationally ranked University. We offer an excellent program in Pre-Veterinary Medicine, which is described in the brochure enclosed. Our graduates have successfully continued their studies and obtained degrees in veterinary medicine. Our faculty are actively involved in cutting-edge research in a wide range of interests, and you will find opportunities for involvement in undergraduate research projects to enhance your educational experience. I have enclosed information concerning the Pathobiology faculty areas of research interest.

The College offers many opportunities for student employment and annually provides over \$200,000 in scholarships and awards to our undergraduates.

FACILITIES

Pathobiology houses the Connecticut Veterinary Diagnostic Laboratory (CVDL) which is equipped with a fully functioning mammalian and avian necropsy laboratory, histology laboratory, diagnostic microbiology, virology, serology laboratories and also houses the Northeastern Research Center for Wildlife Diseases and the Microchemistry Research Laboratory. Our facilities include an animal care laboratory with a surgical suite and a research farm. The department is located in the science complex close to the Department of Molecular and Cell Biology and the University Biotechnology Center. Within the Biotechnology Center there are facilities for macromolecular characterization, animal cell culture, image analysis, transgenic animal production and Vaccine Research and Development. Collaborative programs are ongoing with the Department of Animal Science, Department of Nutritional Sciences, School of Pharmacy Center for Biochemical Toxicology and Molecular and Cell Biology.

The Department of Pathobiology has an active seminar series and invites outstanding investigators to present their research and interact with students and faculty. The Homer Babbidge Library at Storrs provides seating for 3,000 readers and space for 3 million volumes. The building contains the major portion of the University's book collection, housing 2 million volumes of the system's total of 2.7 million. More than 3.7 million items are available in microtext. Current serial and periodical subscriptions total 18,615.

We also have a smaller library located in the Department of Pathobiology with journals and texts that relate specifically to the research, diagnostic and teaching missions of the department.

COMMUNITY

The Department of Pathobiology is in the College of Agriculture and Natural Resources at the University of Connecticut, Storrs. The department is housed in three interconnected buildings in the heart of the University of Connecticut science complex with close proximity to the Biotechnology Center, Computer Center and Library.

The University of Connecticut grew out of the Storrs Agricultural School, which was founded in 1881 as a direct result of the gift of land, money, and buildings presented to the Connecticut General Assembly by Charles and Augustus Storrs of Mansfield, CT.

The Storrs campus is located 25 miles northeast of Hartford. Storrs is a scenic, rural area. Programs in biomedical sciences and the marine sciences are also offered at the University of Connecticut Health Center in Farmington (near Hartford) and at the Marine Sciences Institute at Avery Point (on Long Island Sound).

FACULTY

- *Bushmich, Sandra L.*, MS, DVM: Lyme disease in domestic animals: clinical aspects, pathogenesis, transmission, treatment; Transplacental and milk transmission of Lyme disease; Diagnostic techniques (serological, culture, photoimaging, immunohistochemical) for Lyme borreliosis of humans and animals

- *French, Richard A.*, DVM, PhD; Neuropathology/Neuroimmunology; Immunology of aquatic species; Retrovirology; Diagnostic pathology/dermatopathology; Parasitology
- *Garmendia, Antonio E.*, DVM, PhD; Molecular immunology of viruses; Mechanisms of protective immunity against viruses in general with emphasis on herpes viruses and arteriviruses; The role of cellular immunity against virus infections; Vaccine formulation and delivery, vector DNA vaccines; Neonatal immunity to viruses
- *Geary, Steven J.*, PhD; Molecular biology of mycoplasmas; Cloning, expression and sequence analysis of gene encoding regulatory and virulence determinants. Modulation of gene expression by regulatory proteins; Pathogenic mechanisms of mycoplasmas. Mechanisms of attachment; cytoadherence molecules and host cell receptors. Investigation of variably expressed cell surfaces; immunologic and genetic means of analysis for the detection and speciation of mycoplasmas
- *Hill, Dennis W.*, PhD; analytical toxicology; Development of chromatographic and spectrometric methods for detection and confirmation of drugs and biotransformation products in biological matrices; Determination of drug biotransformation products using vivo and in vitro systems
- *Kerr, Kirklyn M.*, DVM, PhD, Diplomate, ACVP; Pathogenesis of infectious diseases of poultry; Pathogenesis of virus-induced enteric diseases in neonatal food animals; Pathogenesis of mycoplasma-induced diseases in food animals; Diagnostic veterinary pathology
- *Khan, Mazhar I.*, DVM, MPVM, PhD; Molecular Diagnostic Techniques: Development of DNA based PCR for avian pathogenic mycoplasmas (DNA probes, PCR, Multiplex PCR) Reovirus and infectious bronchitis viruses (RT-PCR, Multiplex PCR), *Salmonella spp.*, *Campylobacter spp.* (Foodborne pathogens) and Meat spoilage bacteria (PCR, Quantitative and Multiplex PCR); Molecular epidemiology: Arbitrarily primed (AP) PCR fingerprinting for *Salmonella enteritidis* isolates of avian and human origin. Ribotyping and AP-PCR for *Proteus spp.*, ERIC-PCR for serovar differentiation of *Hemophilus paragallinarum*; Pathogenesis of *Salmonella enteritidis* and mechanism of attachment, adhesion molecules and host receptors; Pathogenesis of infectious chicken anemia virus, vertical transmission and latent infection; Development of recombinant vaccine for infectious bronchitis virus; Molecular diagnosis (PCR) of Lyme disease in animals
- *Van Kruiningen, Herbert J.*, DVM, PhD, MD, Diplomate, ACVP; Botulism in Waterfowl; Search for microbial agents in Crohn's disease; Epidemiology of familial Crohn's disease; Deformed frogs of Connecticut

JOINT APPOINTMENT FACULTY

- *Marcus, Philip J.*, PhD; Professor of the Department of Molecular and Cell Biology, University of Connecticut
- *Schwartz, Daniel*, DVM; Diplomate American College of Laboratory Animal Medicine; Campus Laboratory Animal Veterinarian, University of Connecticut

- *Sekellick, Margaret J.*, PhD; Research Associate Professor of the Department of Molecular and Cell Biology, University of Connecticut

ADJUNCT FACULTY

- *Campos, Manuel*, DVM, MSc, PhD; Adjunct Professor of Pathobiology; Director, Immunology Research & Development Division, Pfizer, Inc.
- *Lackner, Andrew A.*, DVM, PhD; Adjunct Associate Professor of Pathobiology; Associate Professor of Pathobiology, Harvard Medical School
- *Martinod, Serge*, DVM, PhD, MBA; Adjunct Professor of Pathobiology; Director, Strategic & Operational Planning, Animal Health Discovery, Pfizer Central Research, Pfizer, Inc.
- *Rezuke, William N.*, MD; Adjunct Assistant Professor of Pathobiology; Director of Hematology Laboratory, Hartford Hospital
- *Sasseville, Vito G.*, DVM, PhD; Adjunct Assistant Professor of Pathobiology; Chair, Section of Investigative Primatology, New England Regional Primate Research Center
- *Tsongalis, Gregory J.*, PhD; Adjunct Assistant Professor; Director, Molecular Pathology; Hartford Hospital, (Toxicology)
- *Whetstone, Cecilia*, PhD; Adjunct Associate Professor; United States Department of Agriculture Plum Island Animal Disease Laboratory, (Virology)
- *Wu, Alan*, PhD; Adjunct Associate Professor; Director of Clinical Chemistry, Hartford Hospital, (Toxicology)
- *Yancy, Robert*, PhD; Adjunct Professor of Pathobiology; Assistant Director, Molecular & Cellular Bacteriology, Animal Health Biological Discovery, Pfizer, Inc.

APPLICATIONS

Applicants must apply for admission to the undergraduate program at the College of Agriculture and Natural Resources
University of Connecticut
Storrs, CT 06269.

For information, contact:
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