

About the College of Veterinary Medicine



The Ohio State University College of Veterinary Medicine is a national leader in providing a comprehensive curriculum for professional and postgraduate students. Ranked fifth in the nation¹, the college includes more than 1,000 faculty, staff, and students in the Departments of Veterinary Biosciences, Veterinary Clinical Sciences, and Veterinary Preventive Medicine. The college's teaching hospital is among the largest facilities of its kind in the world, with more than 35,000 large and small animal patients each year.

The College has over 100,000 sqft of research laboratory space and vivarium space in the College is over 40,000 sqft. An additional 10,000 sqft of research laboratory space will be added in the next year. The College of Veterinary Medicine had over \$13 million of research expenditures in the year 2008 from more than 140 biomedical research projects. Areas of research emphasis include cancer, infectious disease and immunology, orthopedics, population medicine and imaging.

¹2008 U.S. News and World Report's "Best Graduate Schools"

Research Shared Services in the College of Veterinary Medicine

- Clinical Trials Office
- Tissue Bank
- Mouse Phenotyping Services
- Histology/Immunohistochemistry Services
- Cytometry, including flow cytometric cell sorting and analysis, magnetic cell sorting, and high-resolution confocal microscopy
- Small Animal Imaging including live animal in vivo luminescence (IVIS) imaging microCT, High Frequency ultrasound and Faxitron.

- Biochemistry and Molecular Biology, including microarray, Real time RTPCR, and Pyrosequencing.
- Applied and Clinical Pathology
- Gnotobiotic laboratory
- Contract and grant research

Contact Dr. Lawrence Mathes, Associate Dean of Research, mathes.2@osu.edu, 614-292-5179 for more information

The Food Animal Research Program (FARP) offers AAALAC accredited laboratory animal and large animal germ-free facilities. The FARP facility is unique in being the only location in the world for procurement and maintenance of gnotobiotic food producing animals, including the only specific pathogen-free flock of turkeys. FARP Core research services include:

- Studies conducted at the animal, organ, cellular and molecular level
- Microbiology, immunology, pathology, epidemiology and environmental sciences
- Technologies used include: tissue culture, embryo inoculation, serological techniques, monoclonal antibodies, nucleic acid probes, PCR, sequencing, immunocytochemistry, electron microscopy and flow cytometry.



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Signature Programs

Biomedical Imaging Signature Program

The Biomedical Imaging Signature Program (BISP) was established under the leadership of Dr. Tod Drost, a board-certified veterinary radiologist. Participants, presenters and attendees represent faculty, staff and students from the College of Veterinary Medicine, College of Medicine, Division of Imaging Research, Biomedical Engineering, Electrical Engineering, Ohio Supercomputer Center and University Lab Animal Resources. The BISP meets biweekly and invites speakers from across campus to introduce their area of interest, which is interweaved with sessions about specific disease topics and the role of imaging in the discovery and treatment of diseases.

Comparative Oncology Program

The Comparative Oncology Program (COP) lead by Drs. Cheryl London and William Kesseberth has as its mission the improvement of care and treatment of veterinary oncology patients through interdisciplinary collaborative efforts within the College of Veterinary Medicine, Ohio State's biomedical community, and nationwide. COP meets biweekly to share research activities of the participants and develop new collaborative projects focused on the treatment and prevention of cancer in animals. In the past year COP has moved aggressively to improve the environment for cancer research, accomplishing the following: a flow cytometric phenotype service for typing leukemia/lymphoma; a biospecimen repository; and a PCR-based clonality assay for leukemia/lymphoma.

Infectious Disease Signature Program

The Infectious Disease Signature Program (IDSP), established under the leadership of Dr. Mary Jo Burkhard, benefits animal and public health by fostering education and collaborative research about infectious diseases. The IDSP is comprised of faculty, senior scientists and non-faculty members that meet biweekly to discuss research interests and developmental projects. The IDSP has established a seminar series, assembled an ad hoc committee to investigate the infectious disease diagnostics needs of the College, published a newsletter, IDSP News, initiated an Immunology Journal Club, and is organizing a conference on Antimicrobial Resistance, scheduled for late summer, 2007.

Clinical Trials Office

The Clinical Trials Office provides assistance in the design, execution, and evaluation of veterinary clinical trials of client owned animals, as well as familiarizes those involved in the principles of Good Clinical Practice/Good Laboratory Practice (GCP/GLP) guidelines. The office facilitates the conduct of such studies through input into clinical trial design, networking with regional veterinarians to ensure timely enrollment, assistance in collection and coordination of data, and establishment of standard operating procedures (SOPs). These efforts serve to enhance the ability of all at the College of Veterinary Medicine to successfully undertake clinical investigations in the veterinary patient population. The Clinical Trials Office (CTO), under the direction of Dr. Cheryl London, associate professor in the Department of Biosciences, coordinates activities with the Veterinary Teaching Hospital Director. In addition, an epidemiologist, Dr. Linda Lord, assistant professor in the Department of Preventive Medicine, provides support for study design and statistical analysis. The CTO is staffed with a Clinical Trials Coordinator who manages the day-to-day operation of the CTO. For more information go to <http://vet.osu.edu/ClinicalTrials.htm> or contact Dr. London at London.20@osu.edu.

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