



PATHOBIOLOGY GRADUATE PROGRAM

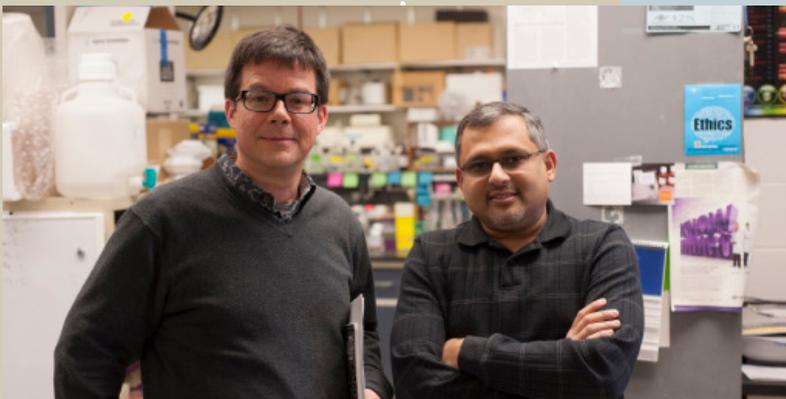
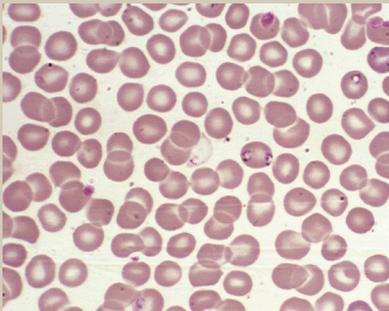


Understanding the molecular mechanisms of disease.

The Pathobiology graduate program at Penn State is an interdisciplinary Ph.D. program that explores the molecular causes of illness in humans and animals. Student and faculty researchers representing a wide range of topics and expertise in veterinary and biomedical sciences are brought together by a common interest in the molecular basis of disease.

Graduate students choose from an outstanding selection of laboratories headed by young and active faculty for their Ph.D. research. Students with backgrounds in molecular biology, biochemistry, genetics, cell biology, and related fields perform high-level research in the areas of toxicology, cancer biology, immunology, and infectious disease.

Pathobiology students are encouraged to pursue professional development in academia and industry. They participate in a weekly data club and seminar series and an annual research retreat. Many work under the umbrella of the Center for Molecular Immunology and Infectious Disease. The program also provides opportunities to learn from scientists throughout the world in the Bortree seminar series.



Visit agsci.psu.edu/grad/pathobiology 

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GRADUATE PROGRAM AREAS OF FOCUS

Immunology

Understanding the mechanisms by which the body fights disease. Research includes a range of important areas, from the role of cell signaling in B and T lymphocytes, to that of macrophages in cell-mediated immunity.

Infectious Disease

Using a wide range of techniques to both explore and develop countermeasures against viral and bacterial pathogens that cause human and animal diseases.

Toxicology

Studying the response of cells to toxic compounds and understanding the molecular basis for cancer development.

LABORATORY AND RESEARCH SELECTION

During their first semester, students conduct trial research projects (rotations) within three different pathobiology faculty laboratories. At the conclusion of these trials, one laboratory is selected. The remainder of the program consists chiefly of conducting and ultimately completing a Ph.D. research project within this laboratory.

ASSISTANTSHIPS AND FUNDING

Pathobiology at Penn State is well funded, largely by the National Institutes of Health. Financial assistance is distributed to students through fellowships, assistantships, stipends, and work study to cover tuition and assist with living expenses.

If you're ready to start a research career in pathobiology, Penn State can help you gain the knowledge, skills, and experience to succeed.

For more information, contact us at 814-865-7697 or visit our website.

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