

# DEPARTMENT OF PLANT PATHOLOGY AND MICROBIOLOGY

---

<http://plantpathology.tamu.edu>

**Head:** Leland S. Pierson, III

Members of the Department of Plant Pathology and Microbiology direct the Master of Science and Doctor of Philosophy degrees in plant pathology, plant-microbiology, plant-microbial genetics and physiology. Students interact with dynamic faculty members to perform cutting edge research on all aspects of plant health and plant disease, including on the molecular basis of pathogenicity and the microbial and plant factors that affect virulence. Students perform their research on and off campus as required.

A competent command of the English language is required. For complete information on the options available, prospective students should contact the Department of Plant Pathology and Microbiology.

The Department offers a Master of Science and Doctorate in Plant Pathology and Microbiology.

## Plant Pathology

Plant pathology is the science of plant diseases, their nature, causal agents and interrelated phenomena. The major objectives concern the scientific training of professional phytopathologists. Emphasis is placed on the fundamental and practical concepts associated with plant health and disease and pathology and the conceptual schemes of fungal, bacterial, viral, nematological, mycoplasmal and physiogenic diseases. In addition, facilities are available for research in most phases including physiology of parasitism, host-parasite relationships, genetics of host resistance, genetics of pathogen variation and variability, genetics of host-pathogen-hyperparasite populations, ecology of soil-borne pathogens, etiology and epidemiology of plant diseases, nematology, virology, phytotherapeutics and clinical phytopathology.

## Faculty

Antony Babu, Sanjay, Assistant Professor  
Plant Pathology & Microbiology  
PHD, Newcastle University, 2018

Arreola Vargas, Jorge, Instructional Assistant Professor  
Plant Pathology & Microbiology  
PHD, CONACYT Research Center-IPICYT, 2014  
PHD, National Council of Science and Technology of Mexico, 2014

Chappell, Thomas M, Associate Professor  
Plant Pathology & Microbiology  
PHD, Duke University, 2010

Dai, Yuan, Professor  
Plant Pathology & Microbiology  
PHD, Duke University, 2006

Edwards, Joseph, Assistant Professor  
Plant Pathology & Microbiology  
PHD, University of California, Davis, 2017

Gonzalez, Carlos F, Professor  
Plant Pathology & Microbiology  
PHD, University of Nebraska at Lincoln, 1978

Ireland-Stoddard, Kati L, Instructional Associate Professor  
Plant Pathology & Microbiology  
PHD, University of North Texas, 2012

Kolomiets, Mikhailo V, Professor  
Plant Pathology & Microbiology  
PHD, Iowa State University, 1998

Magill, Clint W, Professor  
Plant Pathology & Microbiology  
PHD, Cornell University, 1969

Shaw, Brian D, Professor  
Plant Pathology & Microbiology  
PHD, Cornell University, 2000

Shim, Won-Bo, Professor  
Plant Pathology & Microbiology  
PHD, Purdue University, 2000

Verchot, Jeanmarie, Professor  
Plant Pathology & Microbiology  
PHD, Texas A&M University, 1995

Wilkinson, Heather H, Professor  
Plant Pathology & Microbiology  
PHD, Binghamton University, 1996

## Masters

- Master of Science in Plant Pathology (<http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/plant-pathology-microbiology/ms/>)

## Doctoral

- Doctor of Philosophy in Plant Pathology (<http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/plant-pathology-microbiology/phd/>)