Genomics, Phenomics and Bioinformatics

Department Information

- **Program Director:**
  Phillip McClean, Ph.D.

- **Email:**
  Phillip.McClean@ndsu.edu

- **Department Location:**
  Plant Sciences, Loftsgard Hall

- **Department Phone:**
  (701) 231-8443

- **Application Deadline:**
  International applications are due May 1 for fall semester and August 1 for spring and summer semesters. Domestic applicants should apply at least one month prior to the start of classes.

- **Credential Offered:**
  Ph.D., M.S.

- **English Proficiency Requirements:**
  TOEFL iBT 71, IELTS 6

Samat Amat, Ph.D.
University of Calgary, Canada, 2019
Department: Microbiological Sciences
Research Interests: Animal Microbiome

Nonoy Bandillo, Ph.D.
University of Nebraska-Lincoln, 2016
Department: Plant Sciences
Research Interests: Pulse Breeding, Genetics

Samiran Banerjee, Ph.D.
University of Saskatchewan, 2012
Department: Microbiological Sciences
Research Interests: Agriculture Microbiomes; Plant-Microbe Interactions

Michael J. Christoffers, Ph.D.
University of Missouri-Columbia, 1998
Department: Plant Sciences
Research Interest: Weed Molecular Genetics

Anne Denton, Ph.D.
University of Mainz, 1996
Department: Computer Science
Research Interest: Data Mining, Bioinformatics

Justin D. Faris, Ph.D.
Kansas State University, 1999
Department: Plant Sciences
Research Interest: Wheat Molecular Genetics

Jason Fiedler, Ph.D.
The Scripps Research Institute, 2012
Department: Plant Sciences
Research Interests: Bioinformatics, High-throughput Genotyping, Small Grains Genetics

Paulo Flores, Ph.D.
Federal University of Rio Grande do Sul, 2008
Department: Agricultural and Biosystems Engineering
Research Interests: Precision Agriculture, Applications of UASs/Drones in Agriculture, UASs/Drone Imagery Analysis, GIS Applications for Precision Agriculture

Timothy Friesen, Ph.D.
North Dakota State University, 2001  
Department: Plant Pathology  
Research Interest: Host-Pathogen Interactions of Cereals

**Barney Geddes, Ph.D.**  
University of Manitoba, Canada, 2014  
Department: Microbiological Sciences  
Research Interests: Plant Microbe Interactions

**Upinder Gill, Ph.D.**  
Washington State University, 2012  
Department: Plant Pathology  
Research Interests: Host-Microbe Interactions, Genetics and Genomics of Plant Disease Resistance

**Rich Horsley, Ph.D.**  
North Dakota State University, 1988  
Department: Plant Sciences  
Research Interests: Barley Breeding, Genetics

**David P. Horvath, Ph.D.**  
Michigan State University, 1993  
Department: Plant Sciences  
Research Interest: Perennial Weed Physiology

**Rick Jansen, Ph.D.**  
University of Minnesota, 2009  
Department: Public Health  
Research Interest: Molecular and Genomic Epidemiology

**Xuehui Li, Ph.D.**  
University of Georgia, 2009  
Department: Plant Sciences  
Research Interests: Statistical Genomics

**Zhaohui Liu, Ph.D.**  
North Dakota State University, 2006  
Department: Plant Pathology  
Research Interest: Host-Parasite Interactions of Wheat

**Phillip E. McClean, Ph.D.**  
Colorado State University, 1982  
Department: Plant Sciences  
Research Interest: Plant Molecular Genetics

**Steven W. Meinhardt, Ph.D.**  
University of Illinois, Champaign-Urbana, 1984  
Department: Biochemistry and Molecular Biology  
Research Interest: Protein Structure/Function

**Carrie Miranda, Ph.D.**  
University of Missouri, 2018  
Department: Plant Sciences  
Research Interests: Legume Molecular Genetics and Bioinformatics

**Juan Osorno, Ph.D.**  
North Dakota State University, 2006  
Department: Plant Sciences  
Research Interests: Legume Genetics/Genomics and Synteny

**Birgit Pruess, Ph.D.**  
Ruhr-Universitat Bochum, 1991  
Department: Veterinary and Microbiological Sciences  
Research Interest: Microbial Physiology and Gene Regulation

**Jack B. Rasmussen, Ph.D.**
Michigan State University, 1987  
Department: Plant Pathology  
Research Interest: Molecular Plant/Microbe Interactions  

Katie Reindl, Ph.D.  
North Dakota State University, 2006  
Department: Biological Sciences  
Research interest: Cancer cell biology  

Saeed Salem, Ph.D.  
Rensselaer Polytechnic Institute, 2009  
Department: Computer Science  
Research Interest: Bioinformatics Analysis of Biological Networks  

Sarah Signor, Ph.D.  
University of California-Davis, 2013  
Department: Biological Sciences  
Research Interests: Insect Evolutionary Genomics  

Vasant A. Ubhaya, Ph.D.  
University of California-Berkeley, 1971  
Department: Computer Science and Operations Research  
Research Interest: Algorithm Analysis, Operations Research  

Changhui Yan, Ph.D.  
Iowa State University, 2005  
Department: Computer Science  
Research interest: Computational Bioinformatics