

# Genomics, Phenomics and Bioinformatics

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## 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; Duolingo 100

### **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-Universität 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