

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; 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