

Plant Sciences

Department Information

- **Department Head:**
Richard Horsley, Ph.D.
- **Graduate Coordinator:**
Marisol Berti, Ph.D.
- **Department Location:**
166 Loftsgard Hall
- **Department Phone:**
(701) 231-7971
- **Department Web Site:**
www.ag.ndsu.edu/plantsciences/ (<http://www.ag.ndsu.edu/plantsciences/>)
- **Application Deadline:**
International applications must be completed with the Graduate School by October 1 for spring, March 1 for summer, and May 1 for fall. • Domestic applications should be completed with the Graduate School at least 2 months prior to the start of classes.
- **Credential Offered:**
Ph.D., M.S.
- **English Proficiency Requirements:**
TOEFL iBT 71, IELTS 6; Duolingo 105

Marisol Berti, Ph.D.

North Dakota State University, 2007
Research Interests: Forage and Biomass Crop Production

Bingcan Chen, Ph.D.

University of Massachusetts, 2012
Research Interests: Cereal and Food Chemistry

Michael J. Christoffers, Ph.D.

University of Missouri-Columbia, 1998
Research Interests: Weed Science/Genetics

David Wenhao Dai, Ph.D.

North Dakota State University, 2001
Research Interests: Woody Plant Physiology, Biotechnology

Elias M. Elias, Ph.D.

North Dakota State University, 1987
Research Interests: Durum Wheat Breeding, Genetics

Greta Gramig, Ph.D.

University of Wisconsin-Madison
Research Interests: Weed Biology and Ecology

Andrew J. Green, Ph.D.

Kansas State University, 2016
Research Interests: Hard Red Spring Wheat, Genetics

Harlene Hatterman-Valenti, Ph.D.

Iowa State University, 1993
Research Interests: High-Value Crop Production

Richard D. Horsley, Ph.D.

North Dakota State University, 1988
Research Interests: Barley Breeding, Genetics

Kirk A. Howatt, Ph.D.

Colorado State University, 1999

Research Interests: Weed Science, Annual Weeds

Joseph Ikley, Ph.D.

Purdue University, 2018
Research Interests: Weed Control

Shahidul Islam, Ph.D.

University of Western Australia, 2013
Research Interests: Grain End-use Quality of Hard Wheat

Zhao Jin, Ph.D.

Jiangnan University, 2014
Research Interests: Malting, Food Fermentation

Burton L. Johnson, Ph.D.

North Dakota State University, 1993
Research Interests: Crop Production

Thomas J. Kalb, Ph.D.

Virginia Polytechnic Institute & State University, 1988
Research Interests: Extension Horticulture

Clair Keene, Ph.D.

Pennsylvania State University, 2015
Research Interests: Small Grain Agronomy

Chiwon W. Lee, Ph.D.

Purdue University, 1977
Research Interests: Vegetables, Floriculture, Biotechnology

Deying M. Li, Ph.D.

Iowa State University, 2001
Research Interests: Sports Turf Management

Xuehui Li, Ph.D.

University of Georgia, 2009
Research Interests: Statistical Genomics

Zhikai Liang, Ph.D.

University of Nebraska-Lincoln, 2019
Research Interests: Multiomics of Wheat and Other Crops

Frank A. Manthey, Ph.D.

North Dakota State University, 1985
Research Interests: Durum Wheat Quality, Pasta/Noodle Processing

G. Francois Marais, Ph.D.

North Dakota State University, 1979
University of Stellenbosch, 1992
Research Interests: Hard Red Winter Wheat Breeding, Genetics

Phillip E. McClean, Ph.D.

Colorado State University, 1982
Research Interests: Dry Bean Genetics, Biotechnology

Esther E. McGinnis, Ph.D.

University of Minnesota, 2013
Research Interests: Extension Horticulture, Native Plants, Perennial Hardiness, Floriculture

Michael S. McMullen, Ph.D.

University of Minnesota, 1976
Research Interests: Oat Breeding, Genetics

Carrie Miranda, Ph.D.

University of Missouri, 2018

Research Interests: Soybean Breeding, Molecular Genetics

Juan Osorno, Ph.D.

North Dakota State University, 2006

Research Interests: Dry Edible Bean Breeding

Thomas Peters, Ph.D.

North Dakota State University, 1990

Research Interests: Sugarbeet Agronomy, Weed Science

Mukhlesur Rahman, Ph.D.

University of Manitoba, 2007

Research Interests: Canola Breeding

Jijia Rao, Ph.D.

University of Massachusetts, 2013

Research Interests: Food Chemistry, Ingredient Technology

Andy Robinson, Ph.D.

Purdue University, 2012

Research Interests: Potato Production

Kalidas Shetty, Ph.D.

University of Idaho, 1989

Research Interests: Food Safety

Asunta L. Thompson, Ph.D.

University of Idaho, 1998

Research Interests: Potato Breeding

Anuradha Vegi, Ph.D.

North Dakota State University, 2008

Research Interests: Teaching Techniques

Todd West, Ph.D.

Southern Illinois University, 2004

Research Interests: Woody Plant Improvement

Minwei Xu, Ph.D.

North Dakota State University, 2019

Research Interests: Food Processing Technology

Qi Zhang, Ph.D.

Kansas State University, 2007

Research Interests: Turfgrass Stress Physiology

Alan J. Zuk, Ph.D.

Kansas State University, 2005

Research Interests: Sports and Urban Turfgrass Management

Adjunct and Affiliate

James V. Anderson, Ph.D.

Virginia Polytech Institute, 1990

Research Interests: Plant Biochemistry

James Beaver, Ph.D.

University of Illinois, 1980

Research Interests: Dry Bean Genetics

David Bonnett, Ph.D.

University of Sydney, 1997

Research Interests: Wheat Breeding

Craig Carlson, Ph.D.

Cornell University, 2018

Research Interests: Cereal Crops

Patrick M. Carr, Ph.D.

Montana State University, 1989

Research Interests: Sustainable Agriculture

Wun Shaw Chao, Ph.D.

University of California-Davis, 1996

Research Interests: Perennial Weeds

Chenggen Chu, Ph.D.

North Dakota State University, 2008

Research Interests: Sugarbeet and Potato Research

Munevver Dogramaci, Ph.D.

Cukurova University/North Dakota State University, 2000

Research Interests: Sugarbeet and Potato Research

Linda Dykes, Ph.D.

Texas A&M University, 2008

Research Interests: Food Science and Technology

Justin D. Faris, Ph.D.

Kansas State University, 1999

Research Interests: Wheat Molecular Genetics

Jason Fiedler, Ph.D.

Scripps Research Institute, 2012

Research Interests: Cereal Crop Genetics

Shana M. Forster, Ph.D.

North Dakota State University, 2017

Research Interests: Crop Production

Jose G. Franco, Jr., Ph.D.

Texas A&M University, 2015

Research Interests: Agroecology, Sustainable Food Systems

Karen L. Fugate, Ph.D.

Ohio State University, 1995

Research Interests: Sugarbeet Physiology

Russell Gesch, Ph.D.

Texas A&M University, 1995

Research Interests: Physiology of Oilseed Crops

Salvador Alejandro Gezan, Ph.D.

University of Florida, 2005

Research Interests: Statistic and Quantitative Genetics

Michael Grusak, Ph.D.

University of California-Davis, 1985

Research Interests: Crop Nutrient Quality

Yong Q. Gu, Ph.D.

University of California, Riverside, 1994

Research Interests: Wheat Genetics

Rajeev Gupta, Ph.D.

University of Cambridge, UK, 1997

Research Interests: Cereal Crops

Darrin Haagensohn, Ph.D.

Purdue University, 2001

Research Interests: Crop Physiology and Ecology

Brent Hulke, Ph.D.

University of Minnesota, 2007

Research Interests: Flax and Sunflower Genetics

Brian Jenks, Ph.D.

University of Nebraska, Lincoln, 1996

Research Interests: Integrated Weed Management

Blaine Johnson, Ph.D.

University of Nebraska, 1986

Research Interests: Quantitative Genetics

Audrey Kalil, Ph.D.

University of Wisconsin-Madison, 2015

Research Interests: Pulse Crops

Edward C. Lulai, Ph.D.

North Dakota State University, 1978

Research Interests: Potato Physiology

Kevin McPhee, Ph.D.

University of Idaho, 1995

Research Interests: Pulse Crops

Grant Mehring, Ph.D.

North Dakota State University, 2016

Research Interests: Agronomy; Wheat and Corn Research

Mohamed Mergoum, Ph.D.

Colorado State University, 1991

Research Interests: Hard Red Spring Wheat Breeding

Raj S. Nandety, Ph.D.

University of Delaware, 2011

Research Interests: Small Grains Genotyping

Jae-Bom Ohm, Ph.D.

Kansas State University, 1996

Research Interests: Grain Science

Michael Ostlie, Ph.D.

Colorado State University, 2012

Research Interests: Weed Science

Timothy Porch, Ph.D.

Cornell University, 2012

Research Interests: Dry Bean Breeding and Genetics

Gautam Pradhan, Ph.D.

Kansas State University, 2011

Research Interests: Crop Physiology

Lili Qi, Ph.D.

Nanjing Agricultural University, 1997

Research Interests: Wheat Genetics

James Rogers, Ph.D.

Clemson University

Research Interests: Forage Crop Production

Gerald J. Seiler, Ph.D.

North Dakota State University, 1980

Research Interests: Sunflower and Sugarbeet Germplasm

Senay Simsek, Ph.D.

Purdue University, 2006

Research Interests: Cereal Chemistry and Technology

Brent Trela, Ph.D.

Suranaree University of Technology, Thailand, 2006

Research Interests: Viticulture, Enology

Jochum Wiersma, Ph.D.

University of Minnesota, 1995

Research Interests: Small Grains

Steven S. Xu, Ph.D.

North Dakota State University, 1994

Research Interests: Hard Red Spring Wheat Development

Shengming Yang, Ph.D.

North Dakota State University, 1994

Research Interests: Hard Red Spring Wheat Development