# **Plant Sciences/Horticulture**

#### Department Information

· Department Head:

Richard Horsley, Ph.D.

· Graduate Coordinator.

Edward Deckard, 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 are due May 1 for Fall and October 15 for Spring. Domestic applicants should apply at least one month prior to the start of classes.

· Credential Offered:

Ph.D. (Plant Sciences only), M.S.

· Test Requirement:

The GRE requirement is waived for the current admissions cycle.

· English Proficiency Requirements:

TOEFL iBT 71, IELTS 6; Duolingo 100

# **Faculty**

#### Nonoy Bandillo, Ph.D.

University of Nebraska-Lincoln, 2016 Research Interests: Pulse Breeding, Genetics

#### Marisol Berti, Ph.D.

North Dakota State University, 2007

Research Interests: Forage and Biomass Crop Production

# Xiwen Cai, Ph.D.

Washington State University, 1998 Research Interests: Wheat Genetics

# 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

# Edward L. Deckard, Ph.D.

University of Illinois, 1970

Research Interests: Crop Physiology

## 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

#### 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

#### Herman J. Kandel, Ph.D.

North Dakota State University, 1995 Research Interests: Crop Production

# 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

# 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

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

### Rebekah Oliver, Ph.D.

North Dakota State University, 2006 Research Interests: 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

#### Jiajia Rao, Ph.D.

University of Massachusetts, 2013

Research Interests: Food Chemistry, Ingredient Technology

#### Andy Robinson, Ph.D.

Purdue University, 2012

Research Interests: Potato Production

#### Paul B. Schwarz, Ph.D.

North Dakota State University, 1987 Research Interests: Malting Barley Quality

#### Kalidas Shetty, Ph.D.

University of Idaho, 1989

Research Interests: Food Safety

# Senay Simsek, Ph.D.

Purdue University, 2006

Research Interests: Hard Spring Wheat Quality

## 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

# 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.

#### 4 Plant Sciences/Horticulture

University of Illinois, 1980

Research Interests: Dry Bean Genetics

David Bonnett, Ph.D.

University of Sydney, 1997

Research Interests: Wheat Breeding

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

Munevver Dogramaci, Ph.D.

Cukurova University, Institute of Natural and Applied Sciences, Adana, Turkey/North Dakota State University, Fargo, ND, USA, 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

Darrin Haagenson, Ph.D.

Purdue University, 2001

Research Interests: Crop Physiology and Ecology

David P. Horvath, Ph.D.

Michigan State University, 1993

Research Interests: Perennial Weed Physiology

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

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

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

Calvin Trostle, Ph.D.

Texas A&M, 1996

Research Interests: Row Crops, Peanut, Alfalfa

Gerald J. Seiler, Ph.D.

North Dakota State University, 1980

Research Interests: Sunflower and Sugarbeet Germplasm

Thomas Walk, Ph.D.

Pennsylvania State University, 2005

Research Interests: Plant Physiology, Statistics

Jochum Wiersma, Ph.D.

University of Minnesota, 1995 Research Interests: Small Grains

# Plant Sciences/Horticulture

# Steven S. Xu, Ph.D.

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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