

# Cellular and Molecular Biology

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## Department Information

- **Program Coordinator:**  
Katie Reindl, Ph.D.
- **Department Web Site:**  
[www.ndsu.edu/cellularmolecularbiology/](http://www.ndsu.edu/cellularmolecularbiology/) (<http://www.ndsu.edu/cellularmolecularbiology/>)
- **Application Deadline:**  
February 15 is the deadline for applicants seeking consideration of financial assistance (fellowship, assistantships) for fall semester and July 1 for spring semester.
- **Credential Offered:**  
Ph.D.
- **Test Requirement:**  
GRE required for applicants who have not earned a degree in the U.S. or any applicants who have not earned a master's degree.
- **English Proficiency Requirements:**  
TOEFL iBT 79, IELTS 6.5, Duolingo 105

### **Laura Aldrich-Wolfe**

Biological Sciences  
Cornell University, 2006  
Field: Community Ecology, Mycorrhizas, Plant-Fungal Interactions

### **Julia Bowsler**

Biological Sciences  
Duke University, 2007  
Field: Evolutionary Development and Biology

### **Yongki Choi**

Physics  
City University of New York, 2010  
Field: Early Detection of Cancer Cells, Single Molecule Enzymology, Biotechnology

### **Chris Colbert**

Chemistry and Biochemistry  
Purdue University, 2000  
Field: Structure Biology with a Focus on the Biochemistry of Proteins Involved In Iron Import and Utilization

### **Carl Dahlen**

Animal Sciences  
University of Minnesota, 2009  
Research Interests: Beef Cattle Production

### **Glenn Dorsam**

Microbiological Sciences  
Virginia Commonwealth University, 1998  
Field: Epigenetic Regulation

### **Kendra Greenlee**

Biological Sciences  
Arizona State University, 2004  
Field: Developmental Physiology and Immunology

### **Tim Greives**

Biological Sciences  
Indiana University, 2009  
Endocrine Regulation of Seasonality, Reproductive Neuroendocrinology, Hormones and Behavior

### **Ang Guo**

Pharmaceutical Sciences  
Chinese Academy of Sciences - 2010

Field: Cardiovascular Disease

**Jill Hamilton**

Biological Sciences  
University of British Columbia - 2012  
Field: Plant Evolutionary Genomics

**Stuart Haring**

Chemistry and Biochemistry  
Texas A&M University, 2013  
Field: Cellular DNA Duplication (Replication) and Mutation Prevention (Repair)

**Britt Heidinger**

Biological Sciences  
University of Iowa, 2004  
Field: Physiological Ecology

**Yagna Jarajapu**

Pharmaceutical Sciences  
Indiana University, 2007  
Field: Bone Marrow Dysfunction and Vascular Repair in Diabetes, ACE2-Angiotensin-(1-7)/Mas Receptor Pathway in Bone Marrow Cells, Regulation of Bone Marrow Mobilization by Leptin

**Jiha Kim**

Biological Sciences  
University of Georgia, 2006  
Field: Tumor Microenvironment

**Estelle Leclerc**

Pharmaceutical Sciences  
Glasgow Caledonian University, 2002  
Field: Melanoma, Pancreatic Cancer; Monoclonal Antibodies as Diagnostic and Therapeutic Agents; Mechanism of RAGE Signaling

**Guodong Liu**

Chemistry and Biochemistry  
Hunan University, 2001  
Field: Development of Nano-Bioprobes for Biosensors and Bioassays for Detection of Nucleic Acids and Proteins

**Phil Mcclean**

Plant Sciences  
University of Paris XI, 1994  
Field: Dry Bean Genetics and Biotechnology

**Dharmakeerthi "Keerthi" Nawarathna**

Electrical and Computer Engineering  
University of Houston, 2005  
Field: Biomedical Engineering

**Stephen O'Rourke**

Pharmaceutical Sciences  
University of Wisconsin-Madison, 1995  
Field: Cerebral Vascular Function in Health and Disease

**Birgit Pruess**

Microbiological Sciences  
Ruhr-Universitat Bochum, 1991  
Field: Bacterial Physiology, Biofilm Biology, and Food Safety

**Mohi Quadir**

Coatings and Polymeric Materials  
Freie University of Berlin, 2010  
Field: Polymeric Materials for Drug Delivery

**Sheela Ramamoorthy**

Microbiological Sciences

Virginia Tech, 2006  
Field: Virology, Immunology, and Vaccinology

**Jiajia Rao**  
Plant Sciences  
University of Massachusetts-Amherst, 2013  
Field: Food Chemistry and Ingredient Technology

**Katie Reindl**  
Biological Sciences  
North Dakota State University, 2006  
Field: Cancer Cell Biology and Pharmacology

**Larry Reynolds**  
Animal Sciences  
Iowa State University, 1983  
Field: Nutrition and Pregnancy in Ruminants

**Kenton Rodgers**  
Chemistry and Biochemistry  
University of Iowa, 1988  
Field: Inorganic and Bioinorganic Chemistry

**Jane Schuh**  
Microbiological Sciences  
North Dakota State University, 2002  
Field: Environmental Allergic Asthma Triggered By Mold

**Sangita Sinha**  
Chemistry and Biochemistry  
Purdue University, 2000  
Field: Biochemistry and Structural Biology of Host-Pathogen Interactions

**Sarah Signor**  
Biological Sciences  
University of California-Davis, 2013  
Field: Insect Evolutionary Genomics

**Kristine Steffen**  
Pharmaceutical Sciences  
North Dakota State University, 2007  
Field: Biology of Obesity and Post-Bariatric Outcomes, Gastrointestinal Microbiome Research

**Chengwen Sun**  
Pharmaceutical Sciences  
Jilin University, 2000  
Field: Blood Pressure Regulation, Cell Signaling

**Kendall Swanson**  
Animal Sciences  
University of Kentucky, 2000  
Field: Ruminant Nutrition, Energy Metabolism, Protein Metabolism, Pancreatic Function, Beef Cattle Production

**Sathish Venkatachalem**  
Pharmaceutical Sciences  
University of Madras  
Field: Pulmonary Physiology and Pharmacology

**Danling Wang**  
Electrical and Computer Engineering  
Peking University, 2003; University of Washington, 2014  
Field: Sensor Design, Fabrication, and Application of Early-State Human Disease Monitoring and Diagnosis

**Alison Ward**  
Animal Sciences

University of Saskatchewan, 2011

Field: Livestock Epigenetics, Nutrient-Gene Interactions, and Developmental Programming

**John Wilkinson**

Chemistry and Biochemistry

Vanderbilt University, 2001

Field: Cancer Cell Metabolism, Cell Death Pathways, Mitochondrial Gene Expression, Animal Models of Tumorigenesis

**Qifeng Zhang**

Electrical and Computer Engineering

Peking University, 2001

Field: Nanomaterials for Sensor and Biomedical Applications, Nanotechnology