

Pharmaceutical Sciences

Department Information

- **Department Chair:**
Jagdish Singh, Ph.D.
- **Department Location:**
136 Sudro Hall
- **Department Phone:**
(701) 231-8902
- **Department Email:**
ndsu.pscigradinfo@ndsu.edu
- **Department Web Site:**
https://www.ndsu.edu/pharmacy/degrees_and_programs/graduate_program/
- **Application Deadline:**
March 15 for fall semester and October 1 for spring semester, if positions are available.
- **Credential Offered:**
Ph.D.
- **Test Requirement:**
GRE (300 or more)
- **English Proficiency Requirements:**
TOEFL iBT 90; IELTS 6.5; Duolingo 115

Natasha Fillmore, Ph.D.

University of Alberta, 2016

Postdoctoral: National Heart, Lung, and Blood Institute 2016-2021

Research Interests: Understanding the Role of Energy Metabolism in Insulin Resistance, the Role of Fatty Acid Signaling in Regulating Cardiac Hypertrophy and Function

Roberto Gomes, Ph.D.

University of Sao Paulo, 2011

Postdoctoral: Harvard University 2017-2020, Federal University of Mato Grosso do Sul 2012-2013, and University of São Paulo 2011

Research Interests: Enantioselective Synthesis; Development of Novel Small Molecules, Nucleotides and Antibodies; Tumor-Targeting Strategy Using Enediones Engineered With Cytotoxic Moiety/Nir Probes; Development of New NIR Fluorescent Probe-Therapeutic Agent Conjugate Triggered by the Acid pH of the Environment of the Tumor Cell for the Early Diagnosis of Pancreatic Cancer and Molecular Drug Discovery of Proteolysis Targeting Chimeric (Protac) Based Prototype.

Ang Guo, Ph.D.

Shanghai Institute for Biological Sciences, Chinese Academy of Sciences, 2010

Postdoctoral: University of Iowa 2015

Research Assistant Professor 2019

Research Interests: Cardiovascular Pharmacology and Pathophysiology

Yagna Jarajapu, M.Pharm., Ph.D.

University of Strathclyde, 1998

Glasgow Caledonian University, 2002

Postdoctoral: University of Florida and Wake Forest University 2003-2008

Research Interests: ACE2/Angiotensin-(1-7) and Bone Marrow Progenitor Cells in Diabetes

Buddhadev Layek, Ph.D.

North Dakota State University, 2014

Postdoctoral: University of Minnesota 2017

Researcher 5, University of Minnesota, 2020

Research Interests: Pharmacokinetic, Toxicokinetic, and Metabolic Profiling of Small Molecule Drug Candidates and Biologics

Estelle Leclerc, Ph.D.

University Paris XI, 1994

Postdoctoral: ETH-Zurich, 1994-1998; The Scripps Research Institute, 1998-2003

Junior Group Leader Children's Hospital Zurich, 2004

Research Assistant Professor Florida Atlantic University, 2005-2009

Research Interests: Biopharmaceutics

Elisabetta Liverani, Ph.D.

University of the West of England, 2007

Postdoctoral: Temple University, 2010-2016; Queen Mary University of London, 2008-2010

Research Interests: Platelet Function and Regulation During Inflammation, the Role of the P2Y₁₂ Signaling Pathway in Regulating Platelet-Lymphocyte Interactions During Sepsis, Sex-Related Differences in Platelet Activity and Regulation in Patients With Sepsis, Sex-Specific Targeting of Purinergic Signaling Pathways As Novel Drug-Based Therapies for the Improved Treatment of Sepsis

Sanku Mallik, Ph.D.

Case Western Reserve University, 1992

Postdoctoral: California Institute of Technology, 1993-95

Research Interests: Synthetic Medicinal Chemistry

Sijo Mathew, Ph.D.

Central Food Technological Research Institute, 2006

Postdoctoral: University of Tennessee, 2008; Vanderbilt University Medical Center, 2012

Research Interests: Kidney Disease, Pancreatic Cancer, Biopharmaceutics

Stephen T. O'Rourke, Ph.D.

University of Wisconsin, 1985

Postdoctoral: Mayo Clinic and Foundation, 1985-87

Research Interests: Vascular Pharmacology

Jagdish Singh, Ph.D.

Banaras Hindu University, 1982

Postdoctoral: University of Otago, 1985-88; University of California–San Francisco, 1992-94

Research Interests: Novel Dosage and Drug Delivery Systems, Biopharmaceutics

Kristine Steffen, Pharm.D., Ph.D.

North Dakota State University, 2002

North Dakota State University, 2007

Postdoctoral: Neuropsychiatric Research Institute, 2007-2009

Research Interests: Pharmacokinetics, Bariatric Surgery, Eating Disorder and Obesity Pharmacotherapy

Chengwen Sun, M.D., Ph.D.

Norman Bethune University of Medical Sciences, 1988

Norman Bethune University of Medical Sciences, 1996

Postdoctoral: Medical College of Wisconsin, 1996-2000

Research Interests: Central Blood Pressure Control and Hypertension Gene Therapy

Sathish Venkatachalem, Ph.D.

University of Madras, 2003

Postdoctoral: University of Western Ontario, 2004-2006

Research Interests: Human Lung Diseases (Asthma, Chronic Obstructive Pulmonary Disease and Pulmonary Hypertension)

Stefan Vetter, Ph.D.

Swiss Institute of Technology (ETH) Zurich, 1998

Postdoctoral: The Scripps Research Institute, 2000-2005

Research Interest: Medicinal Protein Biochemistry