

Faculty Participating in Fall 2020 Ph.D. Rotation Program
in Biochemistry & Biophysics

Faculty

Baoyu (Stone) Chen

Assistant Professor



stone@iastate.edu

515-294-9891

Signaling through the actin cytoskeleton

Robert Jernigan

Charles F. Curtiss Distinguished Professor



jernigan@iastate.edu

515-294-3833

Molecular models, Nucleic acids, Small molecules and Structures of proteins

Gustavo MacIntosh

Professor



gustavo@iastate.edu

515-294-2627

Gene expression and metabolic changes during plant defense responses to pests; Functional genomics of plant nucleases

W. Allen Miller

Professor



wamiller@iastate.edu

515-294-2436

Plant Pathology, Molecular biology of plant viruses, Virus-aphid vector interaction

Walter Moss

Assistant Professor



wmoss@iastate.edu

515-294-6214

Noncoding RNA discovery; RNA structure and function

Reuben Peters

Roy J. Carver Professor of Biochemistry, Biophysics and Molecular Biology



rjpeters@iastate.edu

515-294-8580

Biosynthesis and physiological function of diterpenoid natural products

Faculty Participating in Fall 2020 Ph.D. Rotation Program
in Biochemistry & Biophysics

Faculty

Davit Potoyan

Caldwell Professor of Theoretical Chemistry



potoyan@iastate.edu

515-294-9971

Molecular mechanisms of DNA replication
and repair

Eric Underbakke

Assistant Professor



esu@iastate.edu

515-294-5793

Architecture and assembly of scaffolded
signaling complexes

Vincenzo Venditti

Assistant Professor



venditti@iastate.edu

515-294-1044

Protein structures dynamics and regulation
Development of solution NMR methods for
structural elucidation of large proteins and
protein complexes

Olga Zobotina

Professor



zobotina@iastate.edu

515-294-6125

Plant Cell Wall Structure; Polysaccharide
Biosynthesis, Modification and Degradation;
Bioactive Carbohydrates