FROM MOLECULES TO MEDICINES
RESEARCH AND GRADUATE EDUCATION
INDUSTRIAL & PHYSICAL PHARMACY

PURDUE UNIVERSITY®
RESEARCH AREAS

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Advanced Methods of Analysis
Drug Delivery
Drug Stability
Drug Transport
Manufacturing Science
Materials Science
Modeling
Nanomedicine
Pharmaceutical Biotechnology
Pharmaceutical Engineering
Pharmaceutics
Pharmacokinetics and Metabolism
Solid State Chemistry
SUMMARY OF FACULTY RESEARCH INTERESTS

PHARMACEUTICAL SOLIDS FORMULATION
www.ipph.purdue.edu/graduateprogram/
Stephen R. Byrn (Charles B. Jordan Professor)
solid state formulation and stability of small molecules
Tonglei Li (Allen Chao Professor)
intermolecular interaction and crystal packing, nucleation and phase transition, computation and visualization
Eric J. Munson (Professor and Department Head, Industrial and Physical Pharmacy)
solid state characterization of excipients, amorphous solid dispersions, protein formulation and stability
Lynee S. Taylor (Retter Professor of Pharmacy)
amorphous solids, role of moisture in pharmaceutical solids, development of analytical methods to characterize solids
Elizabeth M. Topp (Professor)
solid-state formulation and stability of biologics, control of protein aggregation

PHARMACEUTICAL SOLIDS MANUFACTURING
www.ipph.purdue.edu/graduateprogram/
Stephen R. Byrn (Charles B. Jordan Professor)
regulatory science, Sustainable Medicines in Africa
Eric J. Munson (Professor and Department Head, Industrial and Physical Pharmacy)
solid state characterization of excipients, amorphous solid dispersions, protein formulation and stability
Rodolfo Pinal (Associate Professor)
layer-by-layer assembly of solid dosage forms
Qi "Tony" Zhou (Associate Professor)
particle engineering, advanced manufacturing of solid dosage forms

PHARMACEUTICAL SOLIDS DELIVERY & BIOPHARMACEUTICS
www.ipph.purdue.edu/graduateprogram/
Hyunyoung (Young) Jeong (Professor)
pharmacokinetics, drug metabolism, preclinical drug development, toxicology, gut microbiota
Gregory T. Knipp (Associate Professor)
oral drug delivery, peptide transporters in the GI tract, porcine model for oral formulations, pediatric drug delivery
Tonglei Li (Allen Chao Professor)
development and delivery of nanocrystal-based therapeutic and bioimaging systems
Sandro Matosevic (Assistant Professor)
immunotherapy, cell therapy, bio-nanotechnology, cryopreservation, controlled delivery, biopharmaceutical engineering
Kinam Park (Professor, Showalter Distinguished Professor of Biomedical Engineering)
controlled release, nano/micro particles, polymer micelles, fast dissolving tablets, hydrogels
Yoon Yeo (Professor and Associate Dept. Head)
particle engineering, nanoparticles, drug delivery in cancer, drug delivery to lung
• Subject backgrounds suitable for graduate study in pharmaceutics are pharmacy, pharmaceutical sciences, life sciences, physical sciences, and engineering.

• Requirements for entry into the PhD program are a BS or MS in an appropriate discipline.

The Graduate School
Ernest C. Young Hall, Room 170
155 South Grant Street
Purdue University
West Lafayette, IN 47907-2114
Phone: 765-494-2600
Applications or requests for information are submitted at www.gradschool.purdue.edu

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