RESEARCH AREAS

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 Chair)
termolecular interaction and crystal packing, nucleation and phase transition, computation and visualization

Eric J. Munson (Kildsig Chair and Department Head)
solid state characterization of excipients, amorphous solid dispersions, protein formulation and stability

Lynne S. Taylor (Ritter Distinguished Professor)
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

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Stephen R. Byrn (Charles B. Jordan Professor)
regulatory science, Sustainable Medicines in Africa

Eric J. Munson (Kildsig Chair and Department Head)
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

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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 Chair)
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 BME)
controlled release, nano/micro particles, polymer micelles, fast dissolving tablets, hydrogels

Severin T. Schneebeli (Associate Professor)
affinity reagents and polymers for the manufacturing, formulation, and controlled release of biopharmaceuticals

Yoon Yeo (Professor and Associate Dept. Head)
particle engineering, nanoparticles, drug delivery in cancer, drug delivery to lung

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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.