MOLECULES MEDICINES

RESEARCH AND GRADUATE EDUCATION INDUSTRIAL & PHYSICAL PHARMACY



RESEARCH AREAS

ww.ipph.purdue.edu

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

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Stephen R. Byrn (Charles B. Jordan Professor)

solid state formulation and stability of small molecules

Tonglei Li (Allen Chao Chair)

intermolecular 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 (Retter 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

BACKGROUND REQUIREMENTS

- 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

College of Pharmacy Graduate Admissions

Heine Pharmacy Building (RHPH 104) 575 Stadium Mall Drive Purdue University West Lafayette, IN 47907-2091 Phone: 765-494-1362

Fax: 765-494-7880 phrmgrad@purdue.edu

Department of Industrial and Physical Pharmacy Graduate Admissions Committee

Heine Pharmacy Building (RHPH 124A) 575 Stadium Mall Drive Purdue University West Lafayette, IN 47907-2091 ipphgrad@purdue.edu

FOR MORE INFORMATION

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