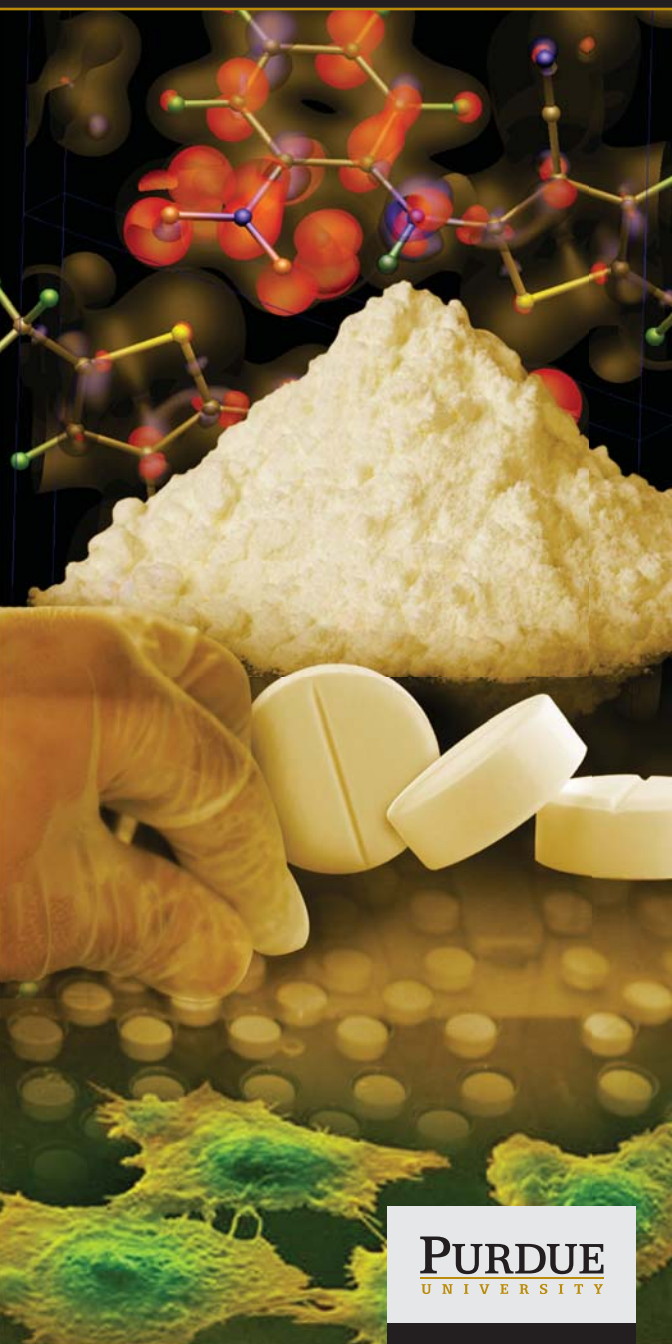


FROM

MOLECULES

≡ MEDICINES

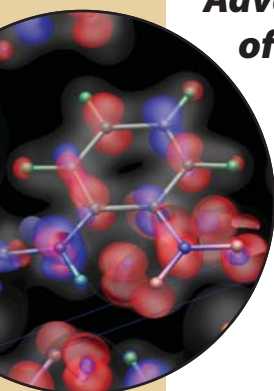
RESEARCH AND GRADUATE EDUCATION
INDUSTRIAL & PHYSICAL PHARMACY



PURDUE
UNIVERSITY

RESEARCH AREAS

www.ipph.purdue.edu



***Advanced Methods
of Analysis***

Drug Delivery

Drug Stability

Drug Transport

Manufacturing Science



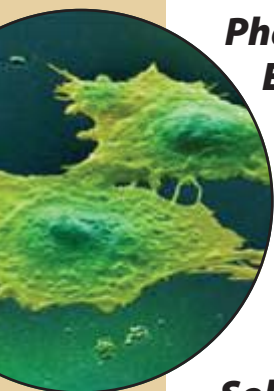
Materials Science

Modeling

Nanomedicine

***Pharmaceutical
Biotechnology***

***Pharmaceutical
Engineering***



Pharmaceutics

***Pharmacokinetics
and Metabolism***

Solid State Chemistry

SUMMARY OF FACULTY

RESEARCH INTERESTS

PHARMACEUTICAL SOLIDS FORMULATION

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

Lynne 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

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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 (*Assistant Professor*)

particle engineering, advanced manufacturing of solid dosage forms

PHARMACEUTICAL SOLIDS DELIVERY & BIOPHARMACEUTICS

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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

BACKGROUND REQUIREMENTS

- Subject backgrounds suitable for graduate study in pharmaceuticals 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

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