2010 Annual Report: Graduate Degrees Awarded (August 2009 thru May 2010)

Please help the College of Pharmacy congratulate our most recent MS and Ph.D. graduates.

Industrial and Physical Pharmacy

- Nathan Andrew Boersen, PhD - May 8, 2010
  - Co-Major Professors: Garnet E. Peck and Rodolfo Pinal
  - Thesis Title: The Development of Roller Compacted Formulations Using Multivariate and Dimensional Analysis
- David Richard Ely, PhD - May 8, 2010
  - Major Professor: M. Teresa Carvajal
  - Thesis Title: Dry Powder Segregation and Flowability: Experimental and Numerical Studies
  - Post-graduation destination: Post-doc, Heinrich Heine University, Dusseldorf, Germany
- Robbie Lou Hayward, MS - May 8, 2010
  - Co-Major Professors: Stephen R. Byrn and Michael J. Schmidt
  - Non-thesis MS
- Ji Young Kim, PhD - August 7, 2009
  - Major Professor: Kinam Park
  - Thesis title: Hydrotropic solubilization of poorly soluble drugs
  - Post-graduation destination: Industry, LG Industries, Seoul, Korea
- David John Lindley, PhD - December 19, 2009
  - Major Professor: Gregory T. Knipp
  - Thesis Title: Expression and Functional Analysis of Proton-dependent Oligopeptide Transporter Members
  - Post-graduation destination: Industry, Research Scientist, Abbott Laboratories, North Chicago, IL
- Jennifer Ann Maguire, PhD - December 19, 2009
  - Major Professor: Stanley L. Hem
  - Thesis Title: Utilizing fluorescence spectroscopy to investigate the tertiary structure of antigens adsorbed onto and eluted from aluminum-containing adjuvants
  - Post-graduation destination: Job hunting in NJ
- Dawn Niccum, MS - August 7, 2009
  - Major Professor: Steven R. Byrn
  - Non-thesis MS
- Michelle Kristin Papp, PhD - December 19, 2009
  - Major Professor: Rodolfo Pinal
  - Thesis Title: Application of Acoustic Emission to the Monitoring of Pharmaceutical Unit Operations
  - Post-graduation destination: Industry, Research Scientist, Eurand American, Dayton, OH
- Alfred Conrad Frederick Rumondor, PhD - August 7, 2009
  - Major Professor: Lynne S. Taylor
  - Thesis Title: The effects of moisture on pharmaceutical amorphous solid dispersion systems
Post-graduation destination: Industry, Astra Zeneca (RIF’ed in 2010)

Kumar Vedantham, PhD - December 19, 2009
- Major Professor: Kinam Park
- Thesis Title: Development of Two-drug Eluting Stents
- Post-graduation destination: Academia, Research Fellow, Center for Biomedical Engineering Systems, UNC, Charlotte, NC

Medicinal Chemistry and Molecular Pharmacology

Animesh Vinay Aditya, PhD - May 8, 2010
- Major Professor: Richard A. Gibbs
- Thesis Title: Investigation of Peptide Substrate Specificity and Design of Novel Bisubstrate Inhibitors of Protein Geranylgeranyl Transferase-I
- Post-graduation destination: Post-doc, Scripps Institute, FL

Bethany Marie Alicie, MS - December 19, 2009
- Major Professor: Robert L. Geahlen
- Thesis Title: Syk and the regulation of the microtubule cytoskeleton in breast cancer cells
- Post-graduation destination: Education, Research Associate, U Tx M. D. Anderson Cancer Center, Houston, TX

Lisa Ann Bonner, PhD - August 7, 2009
- Major Professor: David E. Nichols
- Thesis Title: Expanding the Structure-Activity Relationships of Dopamine D₁ Agonists: Mapping the Catechol Hydrogen Bonding Network and Probing the Accessory Binding Region of D₁ Receptors
- Post-graduation destination: Education, Asst. Professor, St. Anselm’s College, Manchester NH

Benjamin Reed Chemel, PhD - May 8, 2010
- Major Professor: David E. Nichols
- Thesis Title: Exploring the Molecular Determinants of Binding Selectivity and Efficacy for D₁ Dopamine Receptor Agonists
- Post-graduation destination: Government, Research Botanist, USGS and NREL, Wyoming

Katie Jean Head, MS - August 7, 2009
- Major Professor: Jean-Christophe Rochet
- Thesis Title: The role of oxidative stress and alpha-synuclein aggregation in Parkinson’s disease;
- Post-graduation destination: Government, Biological Research Technician, USDA – Agricultural Research Service, West Lafayette, IN

Bridget Dolash Hines, PhD - August 7, 2009
- Major Professor: Donald E. Bergstrom
- Thesis Title: Sonication-Mediated Association of DNA with Single-walled Carbon Nanotubes: Characterization and Potential Biological applications
- Post-graduation destination: Government, Regular Fellow, NIOSH/CDC, Morgantown, WV

Timothy Wayne Husk, PhD - May 8, 2010
- Major Professor: Donald E. Bergstrom
- Thesis Title: Peptide Nucleic Acid Based Quadruplex Forming Oligonucleotides as a Scaffold for Protein Interaction Inhibition
- Post-graduation destination: Government, Forensic Chemist with the DEA, Chicago, IL

Stephanie Renae Kidd, MS - August 7, 2009
- Major Professor: Laurie L. Parker
- Thesis Title: Applying protein specific biosensors towards the understanding of Alzheimer’s disease
- Post-graduation destination: Industry, Gallo Wineries, CA

Fang Liu, PhD - May 8, 2010
- Major Professor: Jean-Christophe Rochet
- Thesis Title: Neuroprotective Functions Of Dj-1 and MsrA: Implications for Parkinson's
Disease

- Post-graduation destination: Industry, Financial Software Developer, Bloomberg L.P., NY

- Maria Movafegh, MS - December 19, 2009
  - Major Professor: Marietta L. Harrison
  - Thesis Title: The Role of Phosphorylation of Serine 59 of Lck on T-cell Receptor Mediated Signaling
  - Post-graduation destination: Technical Assistant Charles River Laboratories, Malvern, PA

- Michelle R. Mynderse, PhD - May 8, 2010
  - Major Professor: Richard A. Gibbs
  - Thesis Title: Probing Protein Geranylgeranylation: Development of GGPP Analog SAR to Selectively Target CGTase I
  - Post-graduation destination: Intern at Purdue University, Office of Technology Commercialization

- Su Sien Ong, PhD - December 19, 2009
  - Major Professor: Marietta L. Harrison
  - Thesis Title: Role of the SH3 Domain of Lck in its Trafficking and Localization in T-cells
  - Post-graduation destination: Postdoctoral Research Associate, Dept. of Chemical Biological and Therapeutics, St. Jude’s Research Center, Memphis, TN

- Leela Louise Paris, PhD - August 7, 2009
  - Major Professor: Robert L. Geahlen
  - Thesis Title: The phosphorylation of S291 on Syk and its role in B cell signal transduction
  - Post-graduation destination: Education, Postdoctoral Fellow, Clarion Transplant Institute, IUSM, Indianapolis, IN

- Andrew Theodore Placzek, PhD - August 7, 2009
  - Co-Major Professors: Marietta L. Harrison and Richard A. Gibbs
  - Thesis Title: Synthesis and biological evaluation of centrally modified farnesyl pyrophosphate analogs
  - Post-graduation destination: Education, postdoc,

- Julie Ann Przybyla, MS - August 7, 2009
  - Major Professor: Val J. Watts
  - Thesis Title: Novel Events in Dopamine Receptor Signaling and Regulation
  - Post-graduation destination: Student at Purdue in HKLS

- Natalie Rae Sealover, PhD - May 8, 2010
  - Major Professor: Eric L. Barker
  - Thesis Title: Role of the Human Serotonin Transporter External Gate in Substrate and Antagonist Recognition
  - Post-graduation destination: Industry, Monsanto, St. Louis, MO

- Yeong-Shiuh John Shyu, PhD - December 19, 2009
  - Major Professor: Chang-deng Hu
  - Thesis Title: Understanding the role of ATF-1 homodimer in caenorhabditis elegans development using a novel bimolecular fluorescent complementation based dominant dimeric repressor assay
  - Post-graduation destination: Industry, Field Scientist for Corning, NY

- Joshua Mark Ward, PhD - May 8, 2010
  - Major Professor: Carol B. Post
  - Thesis Title: Peptide Binding to the Src SH2 Domain Studied by NMR and Molecular Dynamics: Exploring the Energetic Impact of Dynamic Averaging in the Context of Enthalpy-Entropy Compensation
  - Post-graduation destination: Education, Postdoc, Dept. of Chemistry, Purdue University, WL, IN

### Pharmacy Practice

- Ahmed Mohamed Abdel Hady Ali Abo Zeid, MS - May 8, 2010
  - Major Professor: Brian R. Overholser
• Thesis Title: The Development of a pharmacokinetic model describing the disposition of efavirenz and its major metabolites: 8-hydroxyefavirenz and 8, 14-dihydroxyefavirenz
  • Post-graduation destination: Continuing on as PhD student

  • Aleda Marie Hess, MS - December 19, 2009
    • Major Professor: Kimberly S. Plake
    • Thesis Title: The Health Literacy, Self-Care, and Medication Hassles of Patients with Heart Failure and Their Caregivers
    • Post-graduation destination: Continuing on as PhD student

  • Mary Kiersma, MS - August 7, 2009
    • Major Professor: Kimberly S. Plake
    • Thesis title: Factors affecting pre-pharmacy students' perception of the professional role of a pharmacist
    • Post-graduation destination: Continuing on as PhD student

  • Ankita Bharat Modi, PhD - May 8, 2010
    • Major Professor: Joseph Thomas III
    • Thesis Title: Diabetes Ambulatory Care- Sensitive Hospitalizations, Care Organization, and Medication Adherence
    • Post-graduation destination: Industry