2013 Annual Report: Articles Published

Industrial and Physical Pharmacy

- Stephen R. Byrn

- Keith Chadwick

- Gregory T. Knipp

- Tonglei Li
  - C.P. Hollis, H.L. Weiss, M. Leggas, B.M. Evers, R.A. Gemeinhart, and T. Li, Biodistribution and Bioimaging Studies of Hybrid Paclitaxel Nanocrystals: Lessons Learned of the EPR Effect and Image-Guided Drug Delivery, *Journal of Controlled Release*,172:12-21, 2013.

- James D. Litster


**Kinam Park**


**Roldolfo Pinal**


**Lynne S. Taylor**


the Properties of Nanodroplets Formed in Highly Supersaturated Aqueous Solutions of
Ritonavir, Molecular Pharmaceutics 10: 3392-3403.

Li, N., Taylor, L.S., Ferruzzi, M.G. and Mauer, L.J. (2013) Color and Chemical Stability of
Tea Polyphenol (−)-Epigallocatechin-3-gallate in Solution and Solid States, Food Research
International 53:909-921.

Chemical Stability of Curcumin are Enhanced by Solid Dispersion in Cellulose Derivative
Matrices, Cellulose 98: 1108-1116.

Growth Rate of Structurally Diverse Compounds from Aqueous Solution, Molecular
Pharmaceutics 10(6):2381-2393.

Naringenin Solution Concentration by Solid Dispersion in Cellulose Derivative Matrices,

Enhancement of Resveratrol in Spray Dried Solid Dispersion with Cellulose Derivative
Matrices, Cellulose 20(3): 1249-1260.

Supersaturated Aqueous Solutions of Poorly-Water Soluble Drugs – Implications for
Solubility Enhancing Formulations, Crystal Growth and Design 13(4):1497-1509.

Dispersion of Quercetin in Cellulose Derivative or PVP Matrix Influences both Solubility
and Stability, Carbohydrate Polymers 92:2033-2040.

Classification of Pharmaceutical Ingredients with Raman Spectroscopy Using
Compressive Detection Strategy with PLS-DA Multivariate Filters, Journal of
Pharmaceutical and Biomedical Analysis 80:63-68.

Abou-Oucherif, K., Raina, S., Taylor, L.S. and Litster, J.D. (2013) Quantitative Analysis of
the Inhibitory Effect of HPMC on Felodipine Crystallization Kinetics Using Population

Christensen, N.P.A., Van Eerdenbrugh, B., Kwok, K., Taylor, L.S., Bond, A.D. Rades, T.,
Rantanen, J., Cornett, C. (2013) Rapid Insight into Heating-induced Phase
Transformations in the Solid-state of the Calcium Salt of Atorvastatin using Multivariate
Data Analysis, Pharmaceutical Research 30(3):826-835.

on the Crystallization Kinetics of Amorphous Felodipine Powders, Powder Technology
236:197-204.

Aqueous Drug Solutions - Impact of Different Polymers on Induction Times, Crystal

Crystallization and Dissolution Behavior of Naproxen/Polyethylene Glycol Solid

Naproxen\Polyvinylpyrrolidone Solid Dispersions Formed via the Drop Printing Technique,

Solid Dispersions of Resveratrol during Preparation and Storage – Impact of Different

isothermal Crystallization Behavior of Organic Molecules from the Undercooled Melt State

Enhancement of Ellagic Acid in Cellulose Ester Solid Dispersions, Carbohydrate Polymers
92:1443-1450.

Elizabeth M. Topp

Microarrays and microneedle arrays for delivery of peptides, proteins, vaccines and other

Photolytic labeling to probe protein-protein and protein-matrix interactions in lyophilized
powders. L.K. Iyer, B.S. Moorthy and E.M. Topp, Molecular Pharmaceutics, 10: 4629-4639,
2013. DOI: 10.1021/mp4004332.

Protein aggregation and lyophilization: Protein structural descriptors as predictors of

Yoon Yeo
Amoozgar, Z., Park, J., Lin, Q., Weidle, J.H. and Yeo, Y. Development of Quinic Acid-Conjugated Nanoparticles as a Drug Carrier to Solid Tumors. *Biomacromolecules*. (2013) 14(7): 2389–2395.


---

**Medicinal Chemistry and Molecular Pharmacology**

- **Eric L. Barker**

- **Richard F. Borch**

- **David A. Colby**

- **Mark S. Cushman**
2013 Annual Report: Articles Published
Published on Purdue College of Pharmacy (https://www.pharmacy.purdue.edu)

Phosphodiesterase I (Tdp1) and Topoisomerase I (Top1), "J. Med. Chem. 56, 182-200 (2013)."


- V. Jo Davison


- Ryan M. Drenan


- Robert L. Geahlen


© Purdue University
• Arun K. Ghosh
  - “Platensimycin and Platencin” A. K. Ghosh and K. Xi. In *Drugs Based on Natural Products* edited by Stephen Hanessian 2013, In Press.
  - “GRL-04810 and GRL-05010, Difluoride-Containing Nonpeptidic HIV-1 Protease Inhibitors (PIs) That Inhibit the Replication of Multi-PI-Resistant HIV In Vitro and Possess

- Tony Hazbun

- Greg H. Hockerman

- Chang-deng Hu

- Douglas J. LaCount

- Markus A. Lill

- Wanqing Liu


G. Marc Louden

Laurie L. Parker and G. Marc Louden, “Case Study Using Online Homework In Undergraduate Organic Chemistry: Results and Student Attitudes,” *Journal of Chemical Education,* 2013, 80(1), 37–44.

Laurie L. Parker


Carol B. Post


J. Chris Rochet

Snyder, A., Bo, Z., Moon, R., Rochet, J.-C., and Stanciu, L. (2013) Reusable photocatalytic titanium dioxide-cellulose nanofiber films. *J. Colloid Interface Sci.* 399, 92-98.


Val J. Watts


Pharmacy Practice

Steven R. Abel


David R. Foster


Jasmine D. Gonzalvo


Karen S. Hudmon

- McBane SE, Corelli RL, Albano CB, Conry JM, Della Paolera MA, Kennedy AK, Jenkins AT, Hudmon KS. The role of academic pharmacy in tobacco cessation and control. *Am J Pharm Educ* 2013; 77:93.

Deanna S. Khania

- Rakhi Karwa


Holly L. Mason

- Chen AM, Yehle KS, Albert NM, Ferraro KF, Mason HL, Murawski MM, Plake KS. Health literacy influences heart failure knowledge attainment but not self-efficacy for self-care or adherence to self-care over time. *Nursing Research and Practice* 2013; Article 353290.
Monica L. Miller

Matthew M. Murawski

Matthew D. Murray

Carol A. Ott

Brian R. Overholser

Sonak D. Pastakia
- Pastakia SD, Karwa R, Maina M. Reframing the focus of international health experiences. *Pharmacy Times* 2013, November.

Kimberly S. Plake
- Noureldin M, Murawski MM, Mason HL, and Plake KS. Student pharmacists’ attitudes

- Kiersma ME, Chen AMH*, Yehle KS, Plake KS. Validation of an empathy scale in pharmacy and nursing students. *Am Journal Pharm Educ* 2013; 77; Article 94

- Ellen M. Schellhase

- Amy Heck Sheehan

- Margie E. Snyder

- Kevin M. Sowinski

- Joseph Thomas III

- James E. Tisdale

- Ashley H. Vincent

- Kara Duncan Weatherman

Zachary A. Weber


Alan J. Zillich