

LYNNE S. TAYLOR

Professor
Department of Industrial and Physical Pharmacy
Purdue University
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West Lafayette, IN 47907
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EMPLOYMENT HISTORY

*08/12-present Professor of Industrial and Physical Pharmacy, Purdue University
Professor of Chemical Engineering, Purdue University (by courtesy)*

08/10-present Director of Industrial and Physical Pharmacy Graduate Program

08/07-08/12: Associate Professor of Industrial and Physical Pharmacy, Purdue University

01/03-07/07: Assistant Professor of Industrial and Physical Pharmacy, Purdue University

1998-2003: AstraZeneca, Associate Principal Scientist

1996-1998 Postdoctoral Research Associate, University of Wisconsin, Madison,

1992-1993 Teaching Assistant, University of Bradford, Bradford, UK

1991-1992 Pre-registration Pharmacist

EDUCATION

1992-1996 Doctor of Philosophy, University of Bradford, UK

Doctor of Philosophy Degree. Thesis title “*Characterisation of Protein-Carbohydrate Systems*”.

1987 - 1990 Bachelor of Pharmacy, University of Bath, UK. First Class honours degree.

PROFESSIONAL EXPERIENCE/SERVICE

Referee for the following journals: Pharmaceutical Research, Journal of Pharmaceutical Sciences, International Journal of Pharmaceutics, Journal of Pharmacy and Pharmacology, European Journal of Pharmaceutical Sciences, Molecular Pharmaceutics, Crystal Growth and Design, CrystEngComm, Langmuir, Analytical Chemistry, Proceedings of the National Academy of Sciences, Journal of the American Chemical Society, Journal of Physical Chemistry, Journal of Controlled Release, Journal of Agricultural and Food Chemistry, Pharmaceutical Technology.

Member of Editorial Advisory Board for Journal of Pharmaceutical Sciences, Molecular Pharmaceutics, Pharmaceutical Development and Technology.

Proposal reviewer for the National Institutes of Health, the National Science Foundation, the Food and Drug Administration, the American Association of Colleges of Pharmacy, the American Association of Pharmaceutical Scientists Foundation, Science Foundation Ireland, Estonian Science Foundation, Finnish Academy of Sciences.

Scientific Advisory Board Member for Synthesis and Solid State Pharmaceutical Center, the largest research collaboration in Ireland in the pharmaceutical area.

Guest Editor for the Journal of Pharmaceutical Sciences. Special Edition for Professor Stephen Byrn (2010), and Special Edition for Professor George Zografi (2014).

Reviewer for AAPS Fellowship nominations, PBB section of AAPS.

Site Director. NSF funded Engineering Research Center on Structured Organic Composite Systems.

External thesis reviewer for various universities in Australia, India, Singapore, Denmark and Finland.

PROFESSIONAL AFFILIATIONS

American Chemical Society
American Association of Pharmaceutical Scientists
American Pharmacist's Association
Royal Society of Chemistry
Society for Applied Spectroscopy

AWARDS

2014 Chaney Faculty Scholar Award
2014 Coblenz Society Craver Award in Applied Vibrational Spectroscopy
2012 Fellow of the American Association of Pharmaceutical Scientists
2012 AAPS Pharmaceutical Research Meritorious Manuscript Award
2012 Ebert Prize (Best paper in the Journal of Pharmaceutical Sciences)
2011-2012 Faculty in Second Discipline Fellow, Purdue University
2011 AstraZeneca Visiting Fellow, School of Chemical Engineering and Analytical Science, University of Manchester, United Kingdom
2010 Fellow of the Royal Society of Chemistry, United Kingdom
2010 College of Engineering Team Excellence Award, Purdue University
2008-2009 Entrepreneurial Leadership Academy Fellow, Purdue University
2009-2014 Faculty Scholar, Purdue University
2008 Outstanding Manuscript in Pharmaceutical Analysis and Quality, American Association of Pharmaceutical Scientists
2003 New Investigator Award, American Association of Pharmaceutical Scientists
2003 New Investigator Grant, American Association of Colleges of Pharmacy

PUBLICATIONS

Peer Reviewed Articles

Submitted

- 1) Schram, C. J., Taylor, L. S. and Beaudoin, S. P. (2015). Influence of Polymers on the Crystal Growth Rate of Felodipine – Correlating Adsorbed Polymer Surface Coverage to Solution Crystal Growth Inhibition. *Langmuir*. Submitted.
- 2) Trasi, N. and Taylor, L. S. (2015) Dissolution Performance of Binary Amorphous Drug Combinations – Impact of a Second Drug on the Maximum Achievable Supersaturation. *International Journal of Pharmaceutics*. Submitted.
- 3) Li, N., Taylor, L. S. and Mauer, L. J. (2015) Heat Transport Model for the Deliquescence Kinetics of Crystalline Ingredients and Mixtures. *Journal of Food Engineering*. Submitted.
- 4) Liu, H., Taylor, L. S. and Edgar, K. E. (2015) The role of polymers in oral bioavailability enhancement; a review. *Polymer*. Submitted.

Accepted and Online

- 5) Raina, S. A., Alonzo, D. E., Zhang, G. G. Z., Gao, Y. and Taylor, L. S. (2015). Using Environment-Sensitive Fluorescent Probes to Characterize Liquid-Liquid Phase Separation in Supersaturated Solutions of Poorly Water Soluble Compounds. *Pharmaceutical Research*. Accepted.
- 6) Raina, S. A., Zhang, G. G. Z., Alonzo, D. E., Wu, J., Zhu, D., Catron, N. D., Gao, Y. and Taylor, L. S. (2015). Impact of Solubilizing Additives on Supersaturation and Membrane Transport of Drugs. *Pharmaceutical Research*. Accepted.
- 7) Wegiel, L.A., Mosquera-Giraldo L., Mauer, L.J., Edgar, K.J., and Taylor, L.S. (2015) Phase Behavior of Resveratrol Solid Dispersions Upon Addition to Aqueous Media. *Pharmaceutical Research*. Accepted.
- 8) Allan, M., Taylor, L. S. and Mauer, L. J. (2015) Common-Ion Effects on the Deliquescence Lowering of Crystalline Ingredient Blends. *Food Chemistry*. Accepted.
- 9) Hsieh, Y-L., Merritt, J. M.; Yu, W., and Taylor, L. S. Salt Stability – The Effect of pH_{max} on Salt to Free Base Conversion. *Pharmaceutical Research*. Accepted.

Published

- 10) Sato, T. and Taylor, L. S. (2015). Chiral Discrimination by a Cellulose Polymer: Differential Crystallization Inhibition of Enantiomers in Amorphous Dispersions. *CrystEngComm*. 17:5046-5053.
- 11) Schmitt, P. D., Trasi, N. S., Taylor, L. S. and Simpson, G. S. Finding the Needle in the Haystack – Characterization of Trace Crystallinity in a Commercial Formulation of Paclitaxel Protein-Bound Particles by Raman Spectroscopy Enabled by Second Harmonic Generation Microscopy. (2015) *Molecular Pharmaceutics*. 12(7):2378-2383.

- 12) Nie, H., Mo, H., Zhang, M., Song, Y., Fang, K., Taylor, L. S. Li, T. and. Byrn, S. R. (2015). Investigating the interaction pattern and structural elements of a drug-polymer complex at the molecular level. *Molecular Pharmaceutics*. 12(7):2459-2468.
- 13) Trasi, N. S. and Taylor, L. S. (2015). Thermodynamics of Highly Supersaturated Aqueous Solutions of Poorly Water Soluble Drugs – Impact of a Second Drug on the Solution Phase Behavior and Implications for Combination Products. *Journal of Pharmaceutical Sciences*. 104(8):2583-2593.
- 14) Indulkar, A., Box, K. J., Taylor, R., Ruiz, R., and Taylor, L. S. (2015). pH-Dependent Liquid-Liquid Phase Separation of Highly Supersaturated Solutions of Weakly Basic Drugs. *Molecular Pharmaceutics*. 12(7):2365-2377.
- 15) Purohit, H. S. and Taylor, L. S. Phase Separation Kinetics in Amorphous Solid Dispersions Upon Exposure to Water. (2015) *Molecular Pharmaceutics*. 12(5):1623-1635.
- 16) Chen, J., Mosquera-Giraldo L., Ormes, J. D., Higgins, J. D. and Taylor, L. S. (2015). Bile Salts as Crystallization Inhibitors of Supersaturated Solutions of Poorly Water-Soluble Compounds. *Crystal Growth and Design*. 15(6):2593-2597.
- 17) Raina, S. A., Van Eerdenbrug, B., Alonzo, D. E., Mo, H., Zhang, G. G. Z., Gao, Y. and Taylor, L. S. (2015). Trends in the Precipitation and Crystallization Behavior of Supersaturated Aqueous Solutions of Poorly Water Soluble Drugs Assessed using Synchrotron Radiation. *Journal of Pharmaceutical Sciences*. 104(6):1981-1992.
- 18) İçten, E., Giridhar, A., Taylor, L. S., Nagy, Z. K., Reklaitis, G. V. (2015). Dropwise Additive Manufacturing of Pharmaceutical Products for Melt-Based Dosage Forms. *Journal of Pharmaceutical Sciences*. 104(5):1641-1649.
- 19) Toth, S., Schmitt, P. D., Snyder, G. R., Trasi, N. S., George, I. A., Taylor, L. S. and Simpson, G. J. (2015) Ab Initio Prediction of the Diversity of Second Harmonic Generation from Pharmaceutically Relevant Materials. *Crystal Growth Design*. 15(2):581-586.
- 20) Chen, J., Ormes, J. D., Higgins, J. D. and Taylor, L. S. (2015) Impact of Surfactants on the Crystallization of Aqueous Suspensions of Celecoxib Amorphous Solid Dispersion Spray Dried Particles. *Molecular Pharmaceutics*. 12(2):533-541.
- 21) Trasi, N. S., Abbou-Oucherif, K., Litster, J. D. and Taylor, L. S. (2015) Evaluating the Influence of Polymers on Nucleation and Growth in Supersaturated Solutions of Acetaminophen. *CrystEngComm*. 17:1242-1248.
- 22) Mosquera-Giraldo L., and Taylor, L. S. (2015) Glass-Liquid Phase Separation in Highly Supersaturated Aqueous Solutions of Telaprevir. (2015) *Molecular Pharmaceutics*. 12(2):496-501.
- 23) Almeida e Sousa, L., Reutzel-Edens, S. M., Stephenson, G. A. and Taylor, L. S. (2015). Assessment of the Amorphous “Solubility” of a Group of Diverse Drugs Using New Experimental and Theoretical Approaches. *Molecular Pharmaceutics*. 12(2):484-495.

- 24) Hsieh, Y-L., and Taylor, L. S. (2015). Salt Stability - Effect of Particle Size, Relative Humidity, Temperature and Composition on Salt to Free Base Conversion. *Pharmaceutical. Research.* 32(2):549-561.
- 25) Hsu, H-Y, Adigun, O. O., Taylor, L. S., Murad, S. and Harris, M. T. (2015). Impact of Surface Chemistry on Crystallization of Acetaminophen. *Chemical Engineering Science.* 126:1-9.
- 26) Schram, C. J., Beaudoin, S. P. and Taylor, L. S. (2015). Impact of Polymer Conformation on the Crystal Growth Inhibition of a Poorly Water Soluble Drug in Aqueous Solution. *Langmuir.* 31(1):171-179.
- 27) Lipasek, R.A., Li, N., Taylor, L. S. and Mauer, L. J. (2015) Effect of temperature and initial moisture content on the chemical stability and color change of various forms of vitamin C. *International Journal of Food Properties.* 18(4):862-879.
- 28) Raina, S. A., Alonzo, D. E., Zhang, G. G. Z., Gao, Y. and Taylor, L. S. (2014). Impact of polymers on the crystallization kinetics of amorphous nifedipine exposed to aqueous media. *Molecular Pharmaceutics.* 11(10):3565-3576.
- 29) Jackson, M. J., Toth S. J., Kestur, U. S., Huang, J. Qian, F., Hussain, M. A. Simpson, G. J., and Taylor, L. S. (2014). Impact of Polymers on the Precipitation Behavior of Highly Supersaturated Aqueous Danazol Solutions. *Molecular Pharmaceutics.* 11(9):3027-3038.
- 30) Trasi, N., Baird, J. A. and Kestur, U. S. and Taylor, L. S. (2014). Factors Influencing Crystal Growth Rates from Undercooled Liquids of Pharmaceutical Compounds. *J. Phys. Chem. B.* 118(33):9974-9982.
- 31) Taylor, L. S. and Hancock, B. C. George Zografi and the Science of Solids and Surfaces. *Journal of Pharmaceutical Sciences.* 103(9):2592-2594.
- 32) Marks, J., Wegiel, L. A., Taylor, L. S. and Edgar, K. J. (2014). Pairwise Polymer Blends for Oral Drug Delivery. *Journal of Pharmaceutical Sciences.* 103(9):2871-2883.
- 33) Trasi, N. and Taylor, L. S. (2014). Nucleation and crystal growth of amorphous nilutamide –unusual low temperature behavior. *CrystEngComm.* 16:7186-7195.
- 34) Li, N., Taylor, L. S. and Mauer, L. J. (2014). The Physical and Chemical Stability of Amorphous (-)-Epi-Gallocatechin Gallate: Effects of Water Vapor Sorption and Storage Temperature. *Food Research International.* 58:112-123.
- 35) Van Eerdenbrugh, B., Raina, S. A., Hsieh, Y-L., Augustijns, P. and Taylor, L. S. (2014). Classification of the Crystallization Behavior of Amorphous Active Pharmaceutical Ingredients in Aqueous Environments. *Pharmaceutical Research.* 31(4):969-982.
- 36) Hsieh, Y-L., Box, K. and Taylor, L. S. (2014). Assessing the Impact of Polymers on the pH-Induced Precipitation Behavior of Poorly Water Soluble Compounds using Synchrotron Wide Angle X-Ray Scattering. *Journal of Pharmaceutical Sciences.* 103(9):2724-2735.

- 37) Raina, S. A., Zhang, G. G. Z., Alonzo, D. E., Wu, J., Zhu, D., Catron, N. D., Gao, Y. and Taylor, L. S. (2014). Enhancements and Limits in Drug Membrane Transport Using Supersaturated Solutions of Poorly Water Soluble Drugs. *Journal of Pharmaceutical Sciences*. 103(9):2736-2748..
- 38) Mosquera-Giraldo L., Trasi, N. S., and Taylor, L. S. (2014) Impact of Surfactants on the Crystal Growth of Amorphous Celecoxib. *International Journal of Pharmaceutics*. 461(1-2):251-257..
- 39) Liu, H., Ilevbare, G. A., Cherniawska, B. P., Ritchie, E. T., Taylor, L. S. and Edgar, K. J. (2014). Synthesis and Structure-property Evaluation of Cellulose ω -carboxyesters for Amorphous Solid Dispersions. *Carbohydrate Polymers*. 100:116-125.
- 40) Hsieh, Y-L., Yu, W., Xiang, Y., Pan, W., Waterman, K. C., Shalaev, E. Y., Shamblin, S. L. and Taylor, L. S. (2014). Impact of Sertraline Salt Form on the Oxidative Stability in Powder Blends. *International Journal of Pharmaceutics*. 461(1-2):322-330.
- 41) Hirshfield, L., Giridhar, A., Taylor, L. S., Harris, M. T., Reklaitis, G. V. (2014). Dropwise Additive Manufacturing of Pharmaceutical Products for Solvent-Based Dosage Forms. *Journal of Pharmaceutical Sciences*.103(2):496-506.
- 42) Wegiel, L.A., Mauer, L.J. , Edgar, K.J., and Taylor, L.S. (2014). Mid-Infrared Spectroscopy as a Polymer Selection Tool for Formulating Amorphous Solid Dispersions. *Journal of Pharmacy and Pharmacology*. 6(2):244-255.
- 43) Wegiel, L.A., Mauer, L.J. , Edgar, K.J., and Taylor, L.S. (2014). Curcumin Amorphous Solid Dispersions: The Influence of Intra and Intermolecular Bonding on Physical Stability. *Pharmaceutical Development and Technology*. 9(8):976-986.
- 44) Ghorab, M.K, Marrs, K, Taylor, L. S. and Mauer, L. J. (2014) Solid-Water Interactions between Amorphous Maltodextrin and Crystalline Sodium Chloride. *Food Chemistry*. 144:26-35.
- 45) Ghorab, M.K, Toth, S J., Simpson, G. J., Mauer, L. J. and Taylor, L. S. (2013) Water-Solid Interactions in Amorphous Maltodextrin-Crystalline Sucrose Binary Mixtures. *Pharmaceutical Development and Technology*. Accepted.
- 46) Pereira, J. M., Mejia-Ariza, R., Ilevbare, G. A. McGettigan, H. E., Sriranganathan, N., Taylor, L. S., Davis, R. M. and Edgar, K. J. (2013) Interplay of Degradation, Dissolution and Stabilization of Clarithromycin and its Amorphous Solid Dispersions. *Molecular Pharmaceutics*. 10(12):4640-4653.
- 47) Lipasek, R.A., Li, N., Schmidt, S. J. Taylor, L. S. and Mauer, L. J. (2013). Effect of Temperature on the Deliquescence Properties of Food Ingredients and Blends. *Journal of Agriculture and Food Chemistry*. 61(38):9241-9250.
- 48) Harrison A. J., Bilgili, E. A., Beaudoin, S. P. and Taylor, L. S. (2013) Atomic force microscope infrared spectroscopy of griseofulvin nanocrystals. *Analytical Chemistry* 85(23):11449-11455.

- 49) Kestur, U. S. and Taylor, L. S. (2013). Evaluation of the Crystal Growth Rate of Felodipine Polymorphs in the Presence and Absence of Additives as a Function of Temperature. *Crystal Growth and Design*. 13(10):4349-4354.
- 50) Ilevbare, G. A., Liu, H., Pereira, J., Edgar, K. J., Taylor, L.S. (2013). Influence of Additives on the Properties of Nanodroplets Formed in Highly Supersaturated Aqueous Solutions of Ritonavir. *Molecular Pharmaceutics*. 10, 3392-3403.
- 51) Li, N., Taylor, L. S. Ferruzzi, M. G. and Mauer, L. J. Color and Chemical Stability of Tea Polyphenol (-)-Epigallocatechin-3-gallate in Solution and Solid States. (2013) *Food Research International*. 53:909-921.
- 52) Li, B., Konecke, S., Wegiel, L.A., Taylor, L.S. and Edgar, K.J. (2013) Both Solubility and Chemical Stability of Curcumin are Enhanced by Solid Dispersion in Cellulose Derivative Matrices. *Cellulose*. 98: 1108-1116.
- 53) Ilevbare, G. A. Liu, H, Edgar, K. J., Taylor, L.S. (2013). Impact of Polymers on the Crystal Growth Rate of Structurally Diverse Compounds from Aqueous Solution. *Molecular Pharmaceutics*. 10(6):2381–2393.
- 54) Li, B., Liu, H., Amin, M., Wegiel, L.A., Taylor, L.S. and Edgar, K.J. (2013). Enhancement of Naringenin Solution Concentration by Solid Dispersion in Cellulose Derivative Matrices. *Cellulose*. 20(4): 2137-2149.
- 55) Li, B., Wegiel, L.A., Taylor, L.S. and Edgar, K.J. (2013). Stability and Solubility Enhancement of Resveratrol in Spray Dried Solid Dispersion with Cellulose Derivative Matrices. *Cellulose*. 20(3): 1249-1260.
- 56) Ilevbare, G. A. and Taylor, L. S. (2013). Liquid-Liquid Phase Separation in Highly Supersaturated Aqueous Solutions of Poorly-Water Soluble Drugs – Implications for Solubility Enhancing Formulations. *Crystal Growth and Design*. 13(4):1497-1509.
- 57) Li, B., Konecke, S., Harich, K., Wegiel, L.A., Taylor, L.S. and Edgar, K.J. (2013). Solid Dispersion of Quercetin in Cellulose Derivative or PVP Matrix Influences both Solubility and Stability. *Carbohydrate Polymers*. 92:2033-2040.
- 58) Maltaş, D. C., Kwok, K., Wang, P., Taylor, L. S. and Ben-Amotz, D. (2013) Rapid 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.
- 59) Abbou-Oucherif, K. Raina, S., Taylor, L. S. and Litster, J. Quantitative Analysis of the Inhibitory Effect of HPMC on Felodipine Crystallization Kinetics Using Population Balance Modeling. (2013) *CrystEngComm*. 15:2197-2205.
- 60) Christensen, N. P. A., Van Eerdenbrugh, B., Kwok, K., Taylor, L. S., Bond, A. D. Rades, T., Rantanen, J., Cornett, C. Rapid Insight into Heating-induced Phase Transformations in the Solid-state of the Calcium Salt of Atorvastatin using Multivariate Data Analysis. (2013) *Pharmaceutical Research*. 30(3):826-835.

- 61) Kestur, U. S., Ivanisevic, I, Alonzo, D. E. and Taylor, L. S. (2013). Influence of Particle Size on the Crystallization Kinetics of Amorphous Felodipine Powders. *Powder Technology*. 236:197–204.
- 62) Ilevbare, G. A. Liu, H, Edgar, K. J., Taylor, L.S. (2013). Maintaining Supersaturation in Aqueous Drug Solutions - Impact of Different Polymers on Induction Times. *Crystal Growth and Design*. 13(2):740-751.
- 63) Zhou, Q., Toth, S J., Simpson, G. J., Hsu H-Y., Taylor L. S., Harris, M. T., (2013) Crystallization and Dissolution Behavior of Naproxen/Polyethylene Glycol Solid Dispersions. *Journal of Physical Chemistry*. 117(5):1494-1500.
- 64) Hsu, H-Y, Toth, S. J., Simpson, G. J., Taylor, L. S., Harris, M. T. (2013) Effect of Substrates on Naproxen\Polyvinylpyrrolidone Solid Dispersions Formed via the Drop Printing Technique. *Journal of Pharmaceutical Sciences*. 102(2):638-648.
- 65) Wegiel, L.A., Mauer, L.J. , Edgar, K.J., and Taylor, L.S. (2013) Crystallization of Amorphous Solid Dispersions of Resveratrol during Preparation and Storage – Impact of Different Polymers. *Journal of Pharmaceutical Sciences*. 102(1):171-184.
- 66) Baird, J.A., Thomas, L.C., Aubuchon, S.R. and Taylor, L. S. (2013). Evaluating the Non-isothermal Crystallization Behavior of Organic Molecules from the Undercooled Melt State using Rapid Heat/Cool Calorimetry. *CrystEngComm*. 15(1):111-119.
- 67) Li, B., Harich, K., Wegiel, L.A., Taylor, L.S. and Edgar, K.J. (2013) Stability and Solubility Enhancement of Ellagic Acid in Cellulose Ester Solid Dispersions. *Carbohydrate Polymers*. 92:1443-1450.
- 68) Back, K. R., Davey, R.J., Grecu, T., Hunter, C. A. and Taylor, L. S. Molecular Conformation and Crystallisation – The Case of Ethenzamide. (2012) *Crystal Growth and Design*. 12(12):6110-6117.
- 69) Ilevbare, G. A. Liu, H, Edgar, K. J., Taylor, L.S. (2012). The Effect of Binary Additive Combinations on Solution Crystal Growth of the Poorly Water-Soluble Drug, Ritonavir. *Crystal Growth and Design*. 12(12):6050-6060.
- 70) Li, N., Taylor, L. S. Ferruzzi, M. G. and Mauer, L. J. (2012) Kinetic study of catechin stability: Effects of pH, concentration, and temperature. *Journal of Agricultural and Food Chemistry*. 60(51):12531-12539.
- 71) Stoklosa, A. M., Lipasek, R. Taylor, L. S. and Mauer, L. J. (2012). Effects of Storage Conditions, Formulation, and Particle Size on Moisture Sorption and Flowability of Powders: a Study of Deliquescent Ingredient Blends. *Food Research International*. 49: 783-791.
- 72) Christensen, N. P. A., Rantanen, J., Cornett, C., and Taylor, L. S. (2012). Physical Stability of the Calcium Salt of Atorvastatin in the Presence of Acidic Excipients. *European Journal of Pharmaceutics and Biopharmaceutics*. 82:410-416.
- 73) Ilevbare, G. A. Liu, H, Edgar, K. J., Taylor, L.S. (2012). Inhibition of Solution Crystal Growth of Ritonavir by Cellulose Polymers – Factors Influencing Polymer Effectiveness. *CrystEngComm*. 14:6503-651.

- 74) Hsieh, Y-L., Ilevbare, G.A., Van Eerdenbrugh, B., Box, K., Sanchez-Felix, M. V. and Taylor, L. S. (2012) pH-Induced Precipitation Behavior of Weakly Basic Compounds – Determination of Extent and Duration of Supersaturation using Potentiometric Titration and Correlation to Solid State Properties. *Pharmaceutical Research*. 29(10):2738-2753.
- 75) Van Eerdenbrugh, B. and Taylor, L. S. (2012) . Molecular Weight Effects on the Miscibility Behavior of Dextran and Maltodextrin with Poly(vinylpyrrolidone). *Pharmaceutical Research*. 29(10):2754-2765.
- 76) Kestur, U. S., Wanapun, D., Toth, S.J. , Wegiel, L. A., Simpson, G. J. and Taylor, L. S. (2012) Nonlinear Optical Imaging for Sensitive Detection of Crystals in Bulk Amorphous Powders. *Journal of Pharmaceutical Sciences*. 101(11):4201-4213.
- 77) Toth, S.J., Madden, J. T., and Taylor, L. S., Marsac, P.J., and Simpson, G. J. (2012). Selective Imaging of Active Pharmaceutical Ingredients in Powdered Blends with Common Excipients Utilizing Two-Photon Excited Ultraviolet-Fluorescence and Ultraviolet-Second Order Nonlinear Optical Imaging of Chiral Crystals. *Analytical Chemistry*. 84(14):5869-5875.
- 78) Trasi, N. S. , and Taylor, L. S. (2012). Effect of Polymers on Nucleation and Crystal Growth of Amorphous Acetaminophen. *CrystEngComm*. 14(16):5188-5197.
- 79) Trasi, N. S., and Taylor, L. S. (2012). Effect of Additives on Crystal Growth and Nucleation of Amorphous Flutamide. *Crystal Growth and Design*. 12(6):3221-3230.
- 80) Ilevbare, G. A., Liu, H., Edgar, K. J., Taylor, L.S. (2012) Understanding Polymer Properties Important for Crystal Growth Inhibition – Impact of Chemically Diverse Polymers on Solution Crystal Growth of Ritonavir. *Crystal Growth and Design* 12(6):3133-3143.
- 81) Van Eerdenbrugh, B., Lo, M., Kjoller, K., Marcott, C. and Taylor, L.S. (2012) Nanoscale Mid-Infrared Evaluation of the Miscibility Behavior of Blends of Dextran or Maltodextrin with Poly(vinylpyrrolidone). *Molecular Pharmaceutics* 9(5):1459-1469.
- 82) Kwok, K. and Taylor, L. S. (2012) Analysis of counterfeit Cialis[®] tablets using Raman microscopy and multivariate curve resolution. *Journal of Pharmaceutical and Biomedical Analysis*. 66:126-135.
- 83) Kwok, K. and Taylor, L. S. (2012) Analysis of the Packaging Enclosing a Counterfeit Pharmaceutical Tablet using Raman Microscopy and Two-dimensional Correlation Spectroscopy. *Vibrational Spectroscopy*. 161:176-182.
- 84) Van Eerdenbrugh, B., Lo, M., Kjoller, K., Marcott, C. and Taylor, L.S. (2012) Nanoscale Mid-Infrared Imaging of Phase Separation in a Drug-Polymer Blend. *Journal of Pharmaceutical Sciences*. 101(6):2066-2073..
- 85) Zhou, Q. Harris, M. T., and Taylor L. S. (2012) Modification of Crystallization Behavior in Drug/Polyethylene Glycol Solid Dispersions. *Molecular Pharmaceutics*. 9(3):546-553.

- 86) Alonzo, D.E., Raina, S., Zhou, D., Gao, Y., Zhang, G.G.Z., and Taylor, L.S. (2012). Characterizing the Impact of Hydroxypropylmethyl Cellulose on the Growth and Nucleation Kinetics of Felodipine from Supersaturated Solutions. *Crystal Growth and Design*. 12(3):1538-1547.
- 87) Weber, R. J. K., Benmore, C. J., Tumber, S. J., Taylor, A.N., Rey, C.A., Taylor, L. S. and Byrn, S. R. (2012) Acoustic Levitation: Recent Developments and Emerging Opportunities in Biomaterials Research. *European Biophysics Journal*. 41(4):397-403.
- 88) Baird, J. A. and Taylor, L.S. (2012) Evaluation of Amorphous Solid Dispersion Properties using Thermal Analytical Techniques. *Advanced Drug Delivery Reviews*. 64(5):396-421.
- 89) Trasi, N. S., Fanwick, P. E. and Taylor, L.S. (2012). Nilutamide. *Acta Crystallographica E*. 68(3):o591.
- 90) Baird, J. A., Santiago-Quinonez, D., Rinaldi, C. and Taylor, L. S. (2012). Role of Viscosity in Influencing the Glass-forming Ability of Organic Molecules from the Undercooled Melt State. *Pharm. Res.* 29(1):271-284.
- 91) Lipasek, R. A., Ortiz, J. C., Taylor, L. S. and Mauer, L. J. (2012) Effects of Anticaking Agents and Storage Conditions on the Moisture Sorption, Caking, and Flowability of Deliquescent Ingredients. *Food Research International*. 45(1):369-380
- 92) Rumondor, A.C.F, Wikström, H., Van Eerdenbrugh, B. and Taylor, L. S. (2011). Understanding the Tendency of Amorphous Solid Dispersions to Undergo Amorphous–Amorphous Phase Separation in the Presence of Absorbed Moisture. *AAPS PharmSciTech*. 12(4):1209-1219.
- 93) Kestur, U.S., Van Eerdenbrugh, B. and Taylor, L.S. (2011) Influence of polymer chemistry on crystal growth inhibition of two chemically diverse organic molecules. *CrystEngComm*. 13:6712-6718.
- 94) Van Eerdenbrugh, B., and Taylor L. S. (2011). An *Ab Initio* Polymer Selection Methodology to Prevent Crystallization in Amorphous Solid Dispersions by Application of Crystal Engineering Principles. *CrystEngComm*. 13:6171-6178.
- 95) Lipasek, R. A., Taylor, L.S., and Mauer, L. J. (2011) Effects of Anticaking Agents and Relative Humidity on the Physical and Chemical Stability of Powdered Vitamin C. *Journal of Food Science*. 176(7):C1062-C1074.
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Book Chapters

Taylor, L. S. and Shamblin, S. L. Amorphous Solids. In *Polymorphism*, 2nd Ed. Editor H. Brittain. Informa Healthcare, USA 2009.

Kwok, K. and Taylor, L.S. Raman Spectroscopy for the Analysis of Counterfeit Tablets. In *Infrared & Raman Spectroscopy in Forensic Science*. Editors: J. Chalmers, H.G.M. Edwards and M. Hargreaves. Wiley. 2012.

Taylor, L. S. Physical Stability and Crystallization Inhibition. In *Pharmaceutical Amorphous Solid Dispersions*. Editor A. Newman. Wiley 2015.

INVITED TALKS/SHORT COURSES

1. Impact of Surfactants and Polymers on Supersaturated Solutions of Poorly Water Soluble Drugs. Trinity College Dublin, Ireland, June 2015.
2. An Overview of Amorphous Solid Dispersions – Performance Requirements? Trinity College Dublin, Ireland, June 2015.
3. An Overview of Amorphous Solid Dispersions. Materials and Surface Science Institute Symposium, Plenary Talk. University of Limerick, Ireland, June 2015.
4. Amorphous Solid Dispersions –Emerging Research Areas and Lessons Learned. Abbvie, North Chicago. April 2015.
5. Impact of Surfactants and Polymers on Supersaturated Solutions of Poorly Water Soluble Drugs. Plenary Talk. European Drug Absorption Network Annual Meeting, Leuven, Belgium, March 2015.

6. 50 Years of Amorphous Solid Dispersion Research – What’s Next? Chaney Faculty Scholar Award Lecture, Purdue University, November 2014.
7. Evaluation of Crystallization and Precipitation in Highly Supersaturated Aqueous Solutions. American Association of Pharmaceutical Scientists Annual Meeting. San Diego, November 2014.
8. Enabling Drug Delivery Technology – Which One and Why? American Association of Pharmaceutical Scientists Annual Meeting. San Diego, November 2014.
9. Improving Drug Delivery with Vibrational Spectroscopy. Coblentz Society Craver Award Presentation. SCIX 2014, Reno, September 2014.
10. Dissolution Behavior of Amorphous Solid Dispersions. David Grant Symposium, Minneapolis, May 2014.
11. Towards Understanding the Complex Phase Behavior of Supersaturated Aqueous Solutions. Amgen, Cambridge, MA, April 2014.
12. Factors Impacting the Crystallization Kinetics of Amorphous Pharmaceuticals. Pfizer, Groton, CT, April 2014.
13. Phase transitions in supersaturated solutions – relevance to enhancing the delivery of poorly water soluble compounds. American Association of Pharmaceutical Scientists North East Regional Discussion Group Plenary Lecture. Farmington CT. April 2014.
14. Towards Understanding the Complex Phase Behavior of Supersaturated Aqueous Solutions. Novartis, Cambridge, MA, April 2014.
15. Towards understanding the supersaturation potential of high energy formulations. Eli Lilly and Company, Indianapolis, October 2013.
16. Phase Behavior of Amorphous Solid Dispersions. Association for Crystallization Technology, 19th Annual Larson Workshop, Indianapolis, September 2013.
17. Imaging of Pharmaceutical Systems using Nanoscale Infrared Spectroscopy. SCIX 2014, Milwaukee, September 2013.
18. Crystallization of Organic Compounds and Modification of Crystallization Kinetics by Polymeric Additives. Ashland Specialty Ingredients, Delaware, August 2013
19. Characterizing Crystallization in Amorphous Systems. Gilead, Foster City, California July 2013.
20. Formation of colloidal species in supersaturated solutions – implications for solid dispersion delivery strategies. Bristol Myers Squibb. Moreton, UK, June 2013.

21. The Complications of Crystallization in Supersaturated Solutions of Poorly Water Soluble Drugs British Association for Crystal Growth, Manchester, UK, June 2013.
22. Phase Behavior of Amorphous Solid Dispersions During Dissolution. Gordon Research Conference on Preclinical Form & Formulation for Drug Discovery. Waterville, NH, June 2013.
23. Amorphous Formulations- Advantages and Pitfalls. 6th International Symposium on Oral Solid Dosage Forms. Malmö, Sweden. April 2013.
24. Colloid formation in supersaturated solutions – observations and (potential) explanations. Merck, Summit, New Jersey. March 2013.
25. Plenary Lecture - Impact of Additives on the Crystallization of Amorphous Systems. Crystal Growth of Organic Molecules, Limerick, Ireland, June 2012.
26. Crystallization of Amorphous Systems and Impact of Additives. M3 meeting, Banff, Canada, May 2012.
27. Characterizing Crystalline and Amorphous Forms of APIs. Joint Federation of Analytical and Spectroscopies, Royal Society of Chemistry, Royal Pharmaceutical Society of Great Britain and Infrared and Raman Discussion Group Symposium on Advances in Raman Spectroscopy in Pharmaceutical Analysis, Royal Society of Chemistry, London, UK, May 2012.
28. Stabilization of Supersaturated Drug Solutions by Polymeric Additives. IPrime workshop: Cellulosic Materials: Synthesis Properties, and Applications Workshop, University of Minnesota, Minneapolis, January 2012.
29. Factors Affecting Crystallization from Amorphous Systems. Ninth Annual Garnet E. Peck Symposium. Purdue University, West Lafayette, IN. October 2011.
30. Monitoring Crystallization Kinetics from Organic Amorphous Systems using Raman Spectroscopy. Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) Annual Meeting. Reno, NV. October 2011.
31. Quality by Design Approaches for Amorphous Solid Dispersions. Thirteenth International Workshop on Physical Characterization of Pharmaceutical Solids. Indianapolis, IN. June 2011
32. Supersaturation – interplay between solid-state properties, solution concentration and polymeric additives . Lecture at the 43rd Journées Galéniques Meeting on Supersaturation, St. Rémy, France, an exclusive scientific meeting of of the Académie des Alpilles, all participants attend by invitation only.
33. Influence of Polymers on the Crystallization Behavior of Amorphous Systems. Boehringer Ingelheim, Connecticut, April 2011.
34. Influence of Polymers on the Crystallization of Supercooled Liquids and Glasses. Department of Chemical Engineering, University of Manchester, UK, April 2011

35. Crystallization Behavior of Amorphous Formulations. AstraZeneca, UK, April 2011
36. Introduction to Amorphous Systems. AstraZeneca, UK, April 2011
37. Important Considerations in the Formulation of Amorphous Solid Dispersions. Allergan, California, March 2011.
38. Intermolecular Interactions in Amorphous Systems. Allergan, California, March 2011.
39. Non linear optical imaging for highly sensitive detection of crystals in amorphous films and bulk amorphous powders. Merck, Pennsylvania, March 2011
40. Formulation considerations for amorphous solid dispersions. Minisymposium: Future formulation strategies. The Faculty of Pharmaceutical Sciences, University of Copenhagen, Denmark. January 2011.
41. Quantitative Analysis of API Crystals by Nonlinear Optical Imaging. Abbott Laboratories, Illinois, December 2010
42. Polymer Choice for Solid Dispersions – Blind Date or Chemistry. Abbott Laboratories, Illinois, December 2010
43. Crystallization behavior of amorphous solids in the presence and absence of polymers. Bristol Myers Squibb, New Jersey, September 2009
44. Crystallization from Amorphous Systems. University of Kentucky, March 2009
45. Crystallization from Amorphous Systems. University of Minnesota, February 2009.
46. Influence of Moisture and Temperature on the Phase Behavior of Amorphous Solid Dispersions. Kansas University Faculty Retreat, Kansas, October 2008.
47. Understanding hydrate formation during aqueous wet granulation, Amgen, California, August 2008.
48. Influence of temperature and moisture on the phase behaviour of amorphous solid dispersions. SSCI, West Lafayette, July 2008.
49. Inline monitoring of crystallization processes, Peck Symposium, Lafayette, IN, October 2007.
50. PTI Training Program on Formulation & Process Development for Oral Dosage Forms (short course), Princeton, New Jersey. Role of water in solid state stability. May 2008.
51. Short Course, University of Wisconsin-Madison, Madison, Wisconsin. Water Interactions with Pharmaceutical Solids. May 2008.
52. Understanding hydrate formation during aqueous wet granulation, Abbott Labs, Abbott Park, Illinois, June 2007.

53. Factors influencing the physical stability of amorphous solid dispersions, 3M, St. Paul, Minnesota, May 2007.
54. Factors influencing the physical stability of amorphous solid dispersions, AstraZeneca, Wilmington Delaware, May 2007.
55. Role of water in solid state stability, PTI Training Program on Formulation & Process Development for Oral Dosage Forms (short course), Princeton, New Jersey, April 2007.
56. Water Interactions with Pharmaceutical Solids, Short Course, University of Wisconsin-Madison, Madison, Wisconsin, April 2007
57. Factors influencing the physical stability of amorphous solid dispersions, Merck, West Point, New Jersey, April 2007.
58. Crystallization from amorphous molecular level solid dispersions - influence of polymer type and absorbed water, Novartis, Sussex, UK, March 2007.
59. Crystallization from amorphous molecular level solid dispersions - influence of polymer type and absorbed water, GlaxoSmithKline, Hertfordshire, UK., March 2007.
60. Influence of polymer type on the crystallization tendency of a model amorphous drug, 233rd American Chemical Society National Meeting, Chicago, Illinois, March 2007.
61. Crystallization from amorphous molecular level solid dispersions, American Chemical Society ProSpectives 2007 Meeting on Crystallization Process Development, Cambridge, Massachusetts, February 2007.
62. Crystallization from amorphous molecular level solid dispersions. Association for Crystallization Technology, 14th Annual Larson Workshop, Princeton, New Jersey, September 2006.
63. June 2006. Recent Advances of Physical Chemical Phenomena of Pharmaceutical Interest, University of Wisconsin-Madison. Research symposium in honor of Professor George Zografi. Invited speaker. Crystallization from amorphous molecular level solid dispersions.
64. June 2006. Land of the Lakes 48th Annual international industrial pharmaceutical research conference on "Design & Characterization of Pharmaceutical Solids for Quality Product Development" Invited Lecture: Analytical methods to probe the solid state form of the drug during formulation processes.
65. June 2006 Helsinki Drug Research Conference, Helsinki, Finland. Invited speaker Monitoring and manipulating hydrate formation kinetics during wet granulation.
66. May 2006, AstraZeneca, Sweden. Crystallization from amorphous systems.
67. April 2006 PTI Training Program on Formulation & Process Development for Oral Dosage Forms, Princeton, New Jersey. Invited lecturer for short course. Role of water in solid state stability.

68. November 2005. Eastern Analytical Symposium (EAS), Somerset NJ, Invited speaker. Monitoring hydrate formation kinetics during wet granulation using in-line Raman spectroscopy
69. November 2005. Bristol Myers Squibb. Invited speaker and consultant. Stabilization of amorphous solid dispersions through rational polymer selection.
70. October 2005. Water Interactions with Pharmaceutical Solids, Short Course, University of Wisconsin-Madison, Malvern, Pennsylvania.
71. November 2004 AAPS Annual Meeting, Baltimore. Invited speaker. Recent advances in the characterization of solid dispersions.
72. October 2004 Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) Annual Meeting, Portland, Oregon. Invited speaker Monitoring the kinetics of solvent mediated phase transformations.
73. September 2004. 9th International Symposium on the Properties of Water (ISOPOW), Argentina. Invited speaker. Probing water-solid interactions in crystalline and amorphous systems using vibrational spectroscopy.
74. September 2004 University of Wisconsin-Madison. Invited Lecture. Intermolecular Interactions in Amorphous Systems.
75. June 2004 Kaiser Optical Systems Inc. Invited Lecture: Crystallization monitoring by Raman spectroscopy.
76. June 2004 American Chemical Society 36th Central Regional Meeting in Indianapolis. Invited Podium Presentation: Monitoring the Kinetics of Solvent Mediated Phase Conversions of Pharmaceutical Solids.
77. April 2004 PTI Training Program on Formulation & Process Development for Oral Dosage Forms, Princeton, New Jersey. Invited lecturer for short course. Role of water in solid state stability.
78. April 2004, Polymorphism and Crystallization Forum 2004, Princeton, New Jersey. Invited Lecture: Raman spectroscopy for process understanding: Strengths, weaknesses and future possibilities.
79. March 2004, Pfizer Central Research, Groton. Invited lecture. Probing moisture-induced phase transformations
80. September 2003 AstraZeneca. Invited Lecture: Raman spectroscopy as a tool to characterize pharmaceutical systems
81. September 2003, European Polymorphism Network Meeting, Innsbruck, Austria, Invited Lecture: Intermolecular interactions in amorphous systems.
82. September 2003 PhandTA7 conference, Innsbruck, Austria, Keynote lecture: Hydrogen-deuterium exchange as method for probing water-solid interactions

83. July 2003 Eli Lilly and Company: Invited Lecture: Raman spectroscopy as a tool to characterize pharmaceutical systems
84. June 2003 University of Minnesota, As part of their Advanced Drug Delivery Lecture Series: Raman spectroscopy as a tool to characterize pharmaceutical systems
85. April 2003. Abbott Pharmaceuticals. Invited Lecture: Hydrogen bond interactions in a group of related amorphous compounds
86. November 2002. AAPS annual meeting, Toronto, Canada. Short course on “Understanding amorphous pharmaceutical systems” Invited Lecture: Methods for detection and quantitation of the amorphous state
87. June 2002. Land of the Lakes 44th Annual international industrial pharmaceutical research conference on “Strategies of formulating poorly water soluble drugs” Invited Lecture: Amorphous solid dispersions
88. April 2002. University of Uppsala, School of Pharmacy Seminar Series. The amorphous state; friend, foe or blind date
89. June 2001 Analysdagarna international conference, Stockholm. Applications of Raman spectroscopy within pharmaceutical development

SESSIONS CHAIRED/ORGANIZED

- 1) October 2010 Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) annual meeting, Raleigh, NC. Next Generation Spectroscopic Techniques for the Analysis of Pharmaceutical Systems. Session organizer and chair.
- 2) October 2006 Association for Crystallization Technology. Solid dispersions and amorphous solids. Session co-chair.
- 3) October 2004 Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) annual meeting, Portland, Oregon. Raman spectroscopy for Pharmaceutical Analysis. Session organizer and chair.

PRESENTATIONS AT INTERNATIONAL CONFERENCES

1. Purohit H. S. and Taylor L. S., Miscibility of itraconazole-hydroxypropylmethylcellulose blends –insights with novel analytical methodologies. Presented as a poster at AAPS Annual meeting, San Diego, CA, Nov 2014. Poster # R6198.
2. Purohit H. S. and Taylor L. S., Fluorescence spectroscopy as an analytical tool to detect phase changes in amorphous systems. Presented as a poster at AAPS Annual meeting, San Diego, CA, Nov 2014. Poster # R6196.
3. Purohit H. S. and Taylor L. S., Phase behavior of amorphous solid dispersions during dissolution. Presented as a poster at AAPS Annual meeting, San Diego, CA, Nov 2014. Poster # R6197.

4. Tian, X., Taylor L. S., Improved Amorphous Solid Dispersion Performance Using Binary Polymer Combinations. Presented as a poster at AAPS Annual Meeting, San Diego, CA, Nov 2014. Poster # R6230
5. Tian, X., Taylor L. S., Effectiveness of Different Polymers as Crystallization Inhibitors at Different Supersaturations—Implications for Amorphous Solid Dispersion Performance. Presented as a poster at AAPS Annual Meeting, San Diego, CA, Nov 2014. Poster # R6229
6. Almeida e Sousa L., Stephenson G., Taylor L.S., Investigation of the Phase Behavior of Highly Supersaturated Solutions of Poorly Water Soluble Drugs. Presented as a poster at AAPS Annual Meeting, San Diego, CA, Nov 2014. Poster # R6113.
7. Jackson, M.J. and Taylor, L.S. Characterization of Solution Phase Behavior during the Dissolution of Amorphous Solid Dispersions. Presented as a poster at AAPS Annual Meeting, San Diego, CA, Nov 2014. Poster # R6156
8. Jackson, M.J. and Taylor, L.S. Effect of Polymers on the Phase Behavior and Crystallization Kinetics of Supersaturated Danazol Solutions. Presented as a poster at AAPS Annual Meeting, San Diego, CA, Nov 2014. Poster # R6157
9. Indulkar A.S., Taylor L. S., Amorphous solubility profile of clotrimazole as a function of pH. Presented as a poster at AAPS Annual Meeting, San Diego, CA, Nov 2014. Poster # R6155
10. Mosquera-Giraldo, L.I., Taylor, L.S., Glass-Liquid Phase Separation in Highly Supersaturated Aqueous Solutions of Telaprevir, Presented as a poster at AAPS Annual Meeting, San Diego, CA, Nov 2014. Poster # R6183
11. Mosquera-Giraldo, L.I., Dong, Y., Edgar, K., Taylor, L.S., Impact of Cellulose Polymers on Maintaining Supersaturation in Aqueous Solutions of Telaprevir, Presented as a poster at AAPS Annual Meeting, San Diego, CA, Nov 2014. Poster # R6184
12. Raina S.A. Alonzo, D.E., Zhang G. G. Z., Yi. G., Taylor L. S., UV-Visible Spectroscopic Evaluation of Phase Behavior of Supersaturated Solutions of Dihydropyridines. Presented as a poster at AAPS Annual Meeting, San Antonio, TX, Nov 2013. Poster # W5182
13. Raina S.A. Alonzo, D.E., Zhang G. G. Z., Yi. G., Taylor L. S., Predicting Trends in Crystallization Behavior of Supersaturated Solutions using Synchrotron Radiation. Presented as a poster at AAPS Annual Meeting, San Antonio, TX, Nov 2013. Poster# W5181
14. Raina S.A. Alonzo, D.E., Zhang G. G. Z., Yi. G., Taylor L. S., Quantitative Predictions of Nifedipine Polymorphic Transitions Using In-Line Raman Spectroscopy, Principle Component Analysis and Multivariate Curve Resolution, Presented as a poster at AAPS Annual Meeting, San Antonio, TX, Nov 2013. Poster#5226
15. Raina S.A. Alonzo, D.E., Zhang G. G. Z., Yi. G., Taylor L. S., Using Environment Sensitive Fluorescence Probes to Estimate Amorphous Solubility and Characterize Liquid-Liquid Phase Separation Behavior in Highly Supersaturated Solutions of

Poorly Water-Soluble Compounds, Presented as a poster at AAPS Annual Meeting, San Antonio, TX, Nov 2013. Poster#T3167

16. Raina S. A., Alonzo D. E., Wu. J., Catron N., Zhu D., Zhang G. G. Z., Yi. G., Taylor L. S., Relationship Between Supersaturation and Diffusion Rates Across Semipermeable Membranes- Impact of Liquid-Liquid Phase Separation. Presented as a poster at AAPS Annual Meeting, San Antonio, TX, Nov 2013. Poster#W5180
17. Jackson M.J. and Taylor L.S. Phase Behavior of Supersaturated Danazol Solutions. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, San Antonio, TX, November 2013, Abstract AM-13-0688.
18. Trasi N. S., and Taylor L.S. Factors influencing crystal growth rates from amorphous supercooled liquids. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, San Antonio, TX, November 2013, Abstract AM-13-2061
19. Wegiel L.A., Mauer L.J., Edgar K.J., and Taylor L.S. Curcumin Amorphous Solid Dispersions: The Role of Intra and Intermolecular Bonding on Physical Stability. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Chicago, IL, October 2012, Abstract AM-12-01385.
20. Wegiel L.A., Mauer L.J., Edgar K.J., and Taylor L.S. Assessment of Molecular Drug-Polymer Interactions by Mid-Infrared Spectroscopy as a Polymer Selection Tool for Formulating Amorphous Solid Dispersions with Optimal Physical Stability. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Chicago, IL, October 2012, Abstract AM-12-01366.
21. Wegiel L.A., Mauer L.J., Edgar K.J., and Taylor L.S. Curcumin Amorphous Solid Dispersions: The Role of Intra and Intermolecular Bonding on Physical Stability. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Chicago, IL, October 2012, Abstract AM-12-01385.
22. Wegiel L.A., Mauer L.J., Edgar K.J., and Taylor L.S. Assessment of Molecular Drug-Polymer Interactions by Mid-Infrared Spectroscopy as a Polymer Selection Tool for Formulating Amorphous Solid Dispersions with Optimal Physical Stability. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Chicago, IL, October 2012, Abstract AM-12-01366.
23. Hsieh, Y.-L., Yu, W., Xiang, Y., Pan, W., Waterman, K.C., Shalaev, E., Shamblin, S., Taylor, L.S. Relationship between Ionization State and Oxidation of Sertraline in Powder Blends. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Chicago, IL, 17 October 2012, Abstract W5096
24. Hsieh, Y.-L., Box, K.C., Taylor, L.S. Evaluating Polymer Effectiveness in Maintaining Supersaturation using pH-metric Titration. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Chicago, IL, 17 October 2012, Abstract W5158
25. Ilevbare, G. A., Liu, H., Edgar, K. J., Taylor, L. S. Understanding Polymer Properties Important for Crystal Growth Inhibition – Impact of Chemically Diverse Polymers on Solution Crystal Growth of Ritonavir. Presented as an oral presentation and poster at

- the American Association of Pharmaceutical Scientists Annual Meeting, Chicago, IL, 17 October 2012, Abstract W5161.
26. Ilevbare, G. A., Liu, H., Edgar, K. J., Taylor, L. S. Inhibiting Crystal Formation (Nucleation) of Model Compounds from Supersaturated Solutions Using Novel Cellulose Polymers. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Chicago, IL, 17 October 2012, Abstract W5160.
 27. Ilevbare, G. A., Liu, H., Edgar, K. J., Taylor, L. S. Inhibiting Crystal Growth of Ritonavir by Novel Cellulose Polymers – Factors Influencing Polymer Effectiveness. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Chicago, IL, 17 October 2012, Abstract W5162.
 28. Ilevbare, G. A., Taylor, L. S. Determining the Maximum Concentration Achievable by Amorphous Solids – Liquid-Liquid Phase Separation (LLPS). Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Chicago, IL, 17 October 2012, Abstract W5097.
 29. Trasi, N.S., Taylor, L.S. To determine the effect of polymers on crystal growth and nucleation of amorphous acetaminophen. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Chicago, IL, 16 October 2012, Abstract T3292
 30. Trasi, N.S., Taylor, L.S. To determine the effect of polymers and a small molecule on crystal growth and nucleation of amorphous flutamide. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Chicago, IL, 17 October 2012, Abstract W5131
 31. Trasi, N.S., Taylor, L.S. To evaluate and characterize the solid forms of nilutamide and its sub-Tg nucleation behavior. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Chicago, IL, 17 October 2012, Abstract W 5132
 32. Trasi, N.S., Taylor, L.S. To determine the effect of polymers on nucleation of acetaminophen (APAP) from supersaturated solutions. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Chicago, IL, 18 October 2012, Abstract R6293
 33. Raina, S.A., Alonzo D.E., Zhang G.Z, Zhou, D., Gao, Y., Taylor, L.S., Understanding Differences in Polymeric Impact on Solution Nucleation of Dihydropyridine Derivatives. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Chicago, IL, 17 October 2012, Abstract W5187.
 34. Shweta A. Raina, David E. Alonzo, Geoff G. Z. Zhang, Deliang Zhou, Yi Gao and Lynne S. Taylor Impact of Polymers on Aqueous Routes of Crystallization. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Washington, DC, 26 October 2011, Abstract W4351.
 35. Van Eerdenbrugh, B. Lo, M. Kjoller, K. Shetty, R. Taylor, L. S. Assessment of the miscibility behavior of dextran-PVP systems using AFM-IR analysis. Presented as a

- poster at the American Association of Pharmaceutical Scientists Annual Meeting, Washington, DC, 10/23/2011-10/27/2011.
36. Van Eerdenbrugh, B. Lo, M. Kjoller, K. Shetty, R. Taylor, L. S. AFM-IR analysis for the evaluation of moisture-induced phase separation of solid dispersions. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Washington, DC, 10/23/2011-10/27/2011.
 37. Van Eerdenbrugh, B. Lo, M. Kjoller, K. Shetty, R. Taylor, L. S. Submicron resolution miscibility assessment of dextran-PVP systems using AFM-IR analysis. Presented as a poster at the FACSS 2011 meeting, Reno, NV, 10/02/2011-10/06/2011.
 38. Van Eerdenbrugh, B. Lo, M. Kjoller, K. Shetty, R. Taylor, L. S. AFM-IR analysis for the evaluation of phase separation in felodipine-PAA solid dispersions. Presented as a poster at the FACSS 2011 meeting, Reno, NV, 10/02/2011-10/06/2011.
 39. Kwok, K., Taylor, L. S. Detection and analysis of counterfeit medicines using Raman microscopy and multivariate curve resolution Presented as a poster at the 2011 United States Pharmacopeia Science and Standard Symposium, Seattle, WA. October 2011.
 40. Kwok, K., Wegiel, L. A., Rumondor, A. C., and Taylor, L. S. Study of drug-polymer intermolecular interactions using Fourier transform infrared spectroscopy and multivariate curve resolution Presented as a poster at the 62nd meeting of The Pittsburgh Conference, Atlanta, GA. March 2011, Poster 970-2P.
 41. Kwok, K., Taylor, L. S. Analysis of counterfeit packaging using Raman imaging and generalized two-dimensional correlation spectroscopy Presented as a poster at the 62nd meeting of The Pittsburgh Conference, Atlanta, GA. March 2011, Poster 970-4P.
 42. Hsieh, Y.-L., Taylor, L.S. Salt Disproportionation Kinetics in the Presence of a Common Pharmaceutical Excipient. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Washington, DC, 26 October 2011, Abstract W4269
 43. Hsieh, Y.-L., Box, K., Taylor, L.S. Determination of Polymer Effectiveness in Maintaining Supersaturation of Weakly Basic Drugs – Evaluation using pH-Metric Titration. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Washington, DC 26 October 2011, Abstract W4323
 44. Hsieh, Y.-L., Ilevbare, G., Box, K., Sanchez-Felix, M. V., Taylor, L.S. Utilization of pH-Metric Titration to Evaluate the Supersaturation Behavior of Weakly Basic Drugs. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Washington, DC, 26 October 2011, Abstract W5350
 45. Wegiel, L.A. Mauer, L.J. Taylor, L.S. Evaluation of Intermolecular Interactions in Solid Dispersions of Polyphenols. Presented as a poster at the Federation of Analytical Chemistry and Spectroscopy Societies Annual Meeting, Reno, NV, 3 October 2011, Abstract 39177
 46. Ilevbare, G. A., Taylor, L. S. Effect of Submicron Particles on Solution Concentration Determination Using UV/Vis Fiber-Optics Probes. Presented as a poster at the

American Association of Pharmaceutical Scientists Annual Meeting, Washington, DC, 25 October 2011, Abstract T2270.

47. Ilevbare, G. A., Edgar, K. J., Taylor, L. S. Understanding the Duration of Supersaturation in Aqueous Solutions – Nucleation and Crystal Growth studies of Ritonavir. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Washington, DC, 26 October 2011, Abstract W4324.
48. Hsieh, Y-L. Taylor, L.S. Disproportionation of Benzocaine Mesylate and Miconazole Mesylate in the Presence of Disintegrants. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, New Orleans, LA, 16 November 2010, Abstract T3106
49. Hsieh, Y-L. Taylor, L.S. Evaluation of Crystallization from Loratadine Supersaturated in Solution in the Presence and Absence of Polymers. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, New Orleans, LA, 16 November 2010, Abstract T3105
50. Zhu Q. Taylor L.S. Evaluation of the Microstructure of Semicrystalline Solid Dispersions. Presented as an oral presentation at the American Institute of Chemical Engineers Annual Meeting, Salt Lake City, UT, 09 November 2010, Abstract 188260.
51. Ilevbare, G. A., Rivera, K., Kar, N., Edgar, K. J., Taylor L.S. Elucidating the Mechanism of Crystallization Inhibition from Supersaturated Solutions. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, New Orleans, LA, 18 November 2010, Abstract R6030.
52. Kestur U.S, Wanapun D, Simpson D.J and Taylor L.S, Non Linear Optical Imaging for Highly Sensitive Detection of Crystals in Bulk Amorphous Powders. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, New Orleans, LA, 18 November 2010, Poster # 2359.
53. Kestur U.S, Ivanovic I, Alonzo D.E and Taylor L.S, Effect of Particle Size on Bulk Powder Crystallization. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, New Orleans, LA, 18 November 2010, Poster # 3184.
54. Wanapun D, Kestur U.S, Taylor L.S, and Simpson D.J, Qualitative and Quantitative Analysis of API by SHG Microscopy. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, New Orleans, LA, 18 November 2010, Poster # 3326.
55. Wegiel L.A. Mauer L.J. Edgar K.J. Taylor L.S. Disruption of Molecular Self Assembly in Amorphous Solid Dispersions of Polyphenols. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, New Orleans, LA, 16 November 2010, Abstract T3133.
56. Baird J. Taylor L.S. Exploring the Crystallization Behavior of Pharmaceutical API's During Cooling and Reheating from Undercooled Melts. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, New Orleans, LA, 16 November 2010, Abstract T3089.

57. Baird J., Santiago D., Rinaldi C. and Taylor L.S. Characterizing the Rheological Behavior of Pharmaceutical API's in the Undercooled Melt State. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, New Orleans, LA, 16 November 2010, Abstract T3088.
58. Baird J. Taylor L.S. Investigating the Effect of Polymeric Additives in Altering the Critical Cooling and/or Critical Heating Rate of Pharmaceutical API's from Undercooled Melts. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, New Orleans, LA, 18 November 2010, Abstract R6010.
59. Baird J. Taylor L.S. Understanding Crystallization Tendency of Organic Molecules and the Ability of Polymers to Alter Crystallization Behavior. Presented at the American Association of Pharmaceutical Scientists Annual Meeting, New Orleans, LA, 18 November 2010, Abstract R6009.
60. Baird J., Chapman, K., Chupas, P. Byrn, S., Taylor L.S. Probing the Liquid/Glass Structure of Pharmaceutical API's Through Pair Distribution Function Analysis of High Energy X-ray Scattering Data. Presented at the American Association of Pharmaceutical Scientists Annual Meeting, New Orleans, LA, 17 November 2010, Abstract W5174.
61. Baird J., Thomas, L. and Taylor L.S. Evaluating Crystallization Behavior of Pharmaceutical API's Using Rapid-Scanning Differential Scanning Calorimetry. Presented at the American Association of Pharmaceutical Scientists Annual Meeting, New Orleans, LA, 17 November 2010, Abstract W5173.
62. Baird J. Taylor L.S. Understanding Crystallization Tendency of Organic Molecules and the Ability of Polymers to Alter Crystallization Behavior. Presented at the Graduate Student Symposium for Formulation Design and Development, AAPS Annual Meeting, New Orleans, LA, 14 November 2010.
63. Baird J.; Van Eerdenbrugh, B., Taylor L.S. Crystallization Tendency of Active Pharmaceutical Ingredients and the Ability of Polymers Additives to Alter Crystallization Behavior from Undercooled Melts. Presented at the AIChE Annual Meeting, Salt Lake City, UT, 8 November 2010, Abstract 88c.
64. Van Eerdenbrugh, B., Alonzo, D.A., Kerai, P., Taylor, L.S. Assessing the applicability of in situ UV/VIS-probes for the measurement of dissolution kinetics. AAPS Annual Meeting and Exposition. New Orleans, 14-18 November 2010. Abstract No. M1408.
65. Van Eerdenbrugh, B., Taylor, L.S. Evaluation of the Ability of Different Polymers to Inhibit Drug Crystallization upon Rapid Solvent Evaporation – Development of a Small Scale Screening Method. AAPS Annual Meeting and Exposition. New Orleans, 14-18 November 2010. Abstract No. T3145.
66. Van Eerdenbrugh, B., Taylor, L.S. Reverse crystal engineering; disruption of the crystal lattice through drug-polymer molecular recognition events. AAPS Annual Meeting and Exposition. New Orleans, 14-18 November 2010. Abstract No. T3146.

67. Van Eerdenbrugh, B., Lo, M., Kjoller, K., Taylor, L.S. Nanoscale IR spectroscopy – a novel tool for miscibility studies. AAPS Annual Meeting and Exposition. New Orleans, 14-18 November 2010. Abstract No. T3325.
68. Van Eerdenbrugh, B., Stanford, L.A., Baird, J.A., Bates, S., Chapman, K., Chupas, P., Taylor, L.S., Byrn, S.R. Documenting the effect of Q-range on the Pair Distribution Functions (PDFs) obtained for pharmaceutically relevant systems. AAPS Annual Meeting and Exposition. New Orleans, 14-18 November 2010. Abstract No. W5228.
69. Van Eerdenbrugh, B., Baird, J.A., Taylor, L.S. Evaluation of the inhibitory performance of polymers on drug crystallization in amorphous solid dispersions using low molecular weight analogues – I solubility studies. AAPS Annual Meeting and Exposition. New Orleans, 14-18 November 2010. Abstract No. W5230.
70. Van Eerdenbrugh, B., Baird, J.A., Taylor, L.S. Evaluation of the inhibitory performance of polymers on drug crystallization from amorphous solid dispersions using low molecular weight analogues – II infrared studies. AAPS Annual Meeting and Exposition. New Orleans, 14-18 November 2010. Abstract No. W5229.
71. Van Eerdenbrugh, B., Chapman, K., Byrn, S.R., Taylor, L.S. The use of synchrotron radiation to determine Pair Distribution Functions (PDFs) for the evaluation of miscibility in solid dispersions. AAPS Annual Meeting and Exposition. New Orleans, 14-18 November 2010. Abstract No. W5231.
72. Van Eerdenbrugh, B., Baird, J.A., Taylor, L.S. Crystallization Tendency of Amorphous Pharmaceuticals Prepared by Rapid Solvent Evaporation: Classification, Comparison with Undercooled Melts and Interpretation in Terms of Physico-Chemical Drug Compound Characteristics. AIChE annual meeting. Salt Lake City, 7-12 November 2010, Abstract No. 141e
73. Van Eerdenbrugh, B., Taylor, L.S. Evaluation of the Ability of Different Polymers to Inhibit Drug Crystallization Upon Rapid Solvent Evaporation – Development of a Small Scale Screening Method. AIChE annual meeting. Salt Lake City, 7-12 November 2010, Abstract No. 30c
74. Baird, J.A., Van Eerdenbrugh, B., Taylor, L.S. Crystallization Tendency of Active Pharmaceutical Ingredients and the Ability of Polymeric Additives to Alter Crystallization Behavior From Undercooled Melts. AIChE annual meeting. Salt Lake City, 7-12 November 2010, Abstract No. 88c
75. L.S. Taylor, L.J. Mauer. 2010. Fundamentals, effects, and consequences of deliquescence in multicomponent food systems. IFT Annual Meeting and Food Expo. Chicago, IL.
76. R. Lipasek, N. Li, M. West, L.S. Taylor, L.J. Mauer. 2010. Effects of temperature on deliquescence and deliquescence lowering. IFT Annual Meeting and Food Expo. Chicago, IL.
77. R. Lipasek, L.S. Taylor, L.J. Mauer. 2010. The effects of anticaking agents, temperature, and relative humidity on the chemical and physical stability of powdered vitamin C. IFT Annual Meeting and Food Expo. Chicago, IL.

78. Van Eerdenbrugh B., Baird J., Taylor L.S., Comparison of the crystallization tendency of API's prepared by melt and solvent evaporation based techniques. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Los Angeles, CA, November 2009, Abstract M1358
79. Van Eerdenbrugh B., Taylor L.S., Crystallization behavior of API's prepared by spin-coating from solution. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Los Angeles, CA, November 2009, Abstract M1357
80. Baird J.A., Taylor L.S. Assessing the Crystallization Tendency of Organic Molecules from the Undercooled Melt State. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Los Angeles, CA, November 2009, Abstract M1298.
81. Kestur U.S and Taylor L.S. Effect of PVP Content on Growth Rate of Felodipine from Amorphous Solid Dispersions. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Los Angeles, CA, November 2009. Poster # T3398
82. Kestur U.S and Taylor L.S. Inhibitory Effect of Polymers on Crystallization Tendency of Amorphous Bifonazole. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Los Angeles, CA, November 2009. Poster # 3399
83. Kestur U.S and Taylor L.S. Effect of Relative Humidity on Polymorphic Conversion of Felodipine. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Los Angeles, CA, November 2009. Poster # 3337
84. Wanapun D, Kestur U.S, Taylor L.S, and Simpson D.J. Early detection of API crystal nucleation: Observing an invisible crystal. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Los Angeles, CA, November 2009. Poster # R6011
85. Kwok, K., Mauer, L. J., Taylor, L. S. Deliquescence of Pharmaceutical and Food ingredients: The Effect of Relative Humidity on the Chemical Stability of the Sucrose-citric acid System. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Los Angeles, CA, November 2009, Abstract W4031.
86. Kwok, K., Mauer, L. J., Taylor, L. S. Phase Behavior of Model Deliquescent Systems. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Los Angeles, CA, November 2009, Abstract W4303.
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