

LYNNE S. TAYLOR

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

07/22-present *Retter Distinguished Professor of Pharmacy, Department of Industrial and Physical Pharmacy, Purdue University*

12/15-06/22 *Retter Professor of Pharmacy, Department of Industrial and Physical Pharmacy, Purdue University*

08/12-12/15 *Professor of Industrial and Physical Pharmacy, Purdue University*

08/10-07/2016 *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*

1990-1991 *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

Editor-in-Chief, *Molecular Pharmaceutics*. Member of Editorial Advisory Board for Journal of Pharmaceutical Sciences, and Pharmaceutical Development and Technology.

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

Scientific Advisory Committee for IPEC Americas Foundation.

Guest Editor for the Journal of Pharmaceutical Sciences. Special Edition for Professor Stephen Byrn (2010), Special Edition for Professor George Zografi (2014). Special Edition for Professor Peter York (2017).

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 and others.

Past reviewer for AAPS Fellows nominations, PBB section of AAPS, AAPS Wurster Award reviewer.

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

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

PROFESSIONAL AFFILIATIONS

American Chemical Society
American Association of Pharmaceutical Scientists
American Pharmacists Association
Royal Society of Chemistry
Society for Applied Spectroscopy

HONORS and AWARDS

2022 Alice E. Till Advancement of Women in Pharmaceutical Sciences Recognition
2022 Appointed Retter Distinguished Professor of Pharmacy
2020 Dale E. Wurster Research Award
2019 Provost's Award for Outstanding Graduate Mentor
2018 Appointed Editor-in-Chief of Molecular Pharmaceutics
2017 AIChE Section 15b Plenary Award
2016 Appointed Retter Professor of Pharmacy
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

1. Dimiou, S.; McCabe, J.; Booth, R.; Booth, J.; Nidadavole, K.; Svensson, O.; Sparén, A.; Lindfors, L.; Paraskevopoulou, V.; Mead, H.; Coates, L.; Workman, D.; Martin, D.; Treacher, K.; Puri, S.; Taylor, L. S.; Yang, B., (2023) Selecting Counterions to Improve Ionized Hydrophilic Drug Encapsulation in Polymeric Nanoparticles. *Molecular Pharmaceutics*. Accepted
2. Hiew, T. N.; Saboo, S.; Zemlyanov, D. Y.; Punia, A.; Wang, M.; Smith, D.; Lowinger, M.; Solomos, M. A.; Schenck, L.; Taylor, L. S., (2023). Improving Dissolution Performance and Drug Loading of Amorphous Dispersions Through a Hierarchical Particle Approach. *Journal of Pharmaceutical Sciences*. Accepted
3. Deac, A., Qi, Q., Indulkar, A.S., Purohit, H.S., Gao, Y., Zhang, G.G. and Taylor, L.S., (2023). Dissolution Mechanisms of Amorphous Solid Dispersions: Role of Drug Load and Molecular Interactions. (2023) *Molecular Pharmaceutics*. 20(1):722-737.
4. Moseson, D.E., Benson, E.G., Cao, Z., Bhalla, S., Wang, F., Wang, M., Zheng, K., Narwankar, P.K., Simpson, G.J. and Taylor, L.S., (2023). Impact of Aluminum Oxide Nanocoating on Drug Release from Amorphous Solid Dispersion Particles. *Molecular Pharmaceutics*. 20(1):593-605.
5. Yang, R., Zhang, G.G., Purohit, H.S. and Taylor, L.S., (2023). Release mechanisms of amorphous solid dispersions: Role of drug-polymer phase separation and morphology. *Journal of Pharmaceutical Sciences*. 112(1):304-317.
6. Moseson, D.E., Hiew, T.N., Su, Y. and Taylor, L.S., (2023). Formulation and Processing Strategies which Underpin Susceptibility to Matrix Crystallization in Amorphous Solid Dispersions. *Journal of Pharmaceutical Sciences*. 112(1):108-122.
7. Hiew, T. N. and Taylor, L. S. (2022). Combining drug salt formation with amorphous solid dispersions – a double edged sword. *Journal of Controlled Release*. 353:47-60.
8. Moseson, D.E., Benson, E.G., Nguyen, H.T., Wang, F., Wang, M., Zheng, K., Narwankar, P.K. and Taylor, L.S. (2022). Atomic Layer Coating to Inhibit Surface

Crystallization of Amorphous Pharmaceutical Powders. *ACS Applied Materials & Interfaces*, 14(36):40698-40710.

9. Correa Soto, C.E., Gao, Y., Indulkar, A.S., Zhang, G.G. and Taylor, L.S. (2022). Role of Surfactants in Improving Release from Higher Drug Loading Amorphous Solid Dispersions. *International Journal of Pharmaceutics*. 625:122120.
10. Sabra, R., Narula, A., Taylor, L.S. and Li, N. (2022). Comparisons of in Vitro Models to Evaluate the Membrane Permeability of Amorphous Drug Nanoparticles. *Molecular Pharmaceutics*. 19(9):3412-3428.
11. Qi, Q. and Taylor, L.S. (2022). Improved Dissolution of an Enteric Polymer and its Amorphous Solid Dispersions by Polymer Salt Formation. *International Journal of Pharmaceutics*. 622:121886.
12. Novo, D.C., Gao, C., Qi, Q., Mosquera-Giraldo, L.I., Spiering, G.A., Moore, R.B., Taylor, L.S. and Edgar, K.J. (2022). Designing synergistic crystallization inhibitors: Bile salt derivatives of cellulose with enhanced hydrophilicity. *Carbohydrate Polymers*, 292:119680.
13. Razumtcev, A., Li, M., Rong, J., Teng, C.C., Pfluegl, C., Taylor, L.S. and Simpson, G.J., 2022. Label-Free Autofluorescence-Detected Mid-Infrared Photothermal Microscopy of Pharmaceutical Materials. *Analytical Chemistry*, 94(17):6512-6520.
14. Hate, S.S., Mosquera-Giraldo, L.I. and Taylor, L.S. (2022). A Mechanistic Study of Drug Mass Transport from Supersaturated Solutions Across PAMPA Membranes. *Journal of Pharmaceutical Sciences*, 111(1):102-115.
15. Chen, Y.C., Moseson, D.E., Richard, C.A., Swinney, M.R., Horava, S.D., Oucherif, K.A., Cox, A.L., Hawkins, E.D., Li, Y., DeNeve, D.F. and Lomeo, J., Zhou, A., Lyle, T. L., Munson, E. J., Taylor, L.S., Park, K. and Yeo, Y. (2022). Development of hot-melt extruded drug/polymer matrices for sustained delivery of meloxicam. *Journal of Controlled Release*. 342:189-200.
16. Indulkar, A.S., Lou, X., Zhang, G.G. and Taylor, L.S. (2022). Role of Surfactants on Release Performance of Amorphous Solid Dispersions of Ritonavir and Copovidone. *Pharmaceutical Research*, 39(2):381-397.
17. Van Duong, T., Ni, Z. and Taylor, L.S., (2022). Phase Behavior and Crystallization Kinetics of a Poorly Water-Soluble Weakly Basic Drug as a Function of Supersaturation and Media Composition. *Molecular Pharmaceutics*.19(4):1146-1159.
18. Yang, R., Zhang, G.G., Kjoller, K., Dillion, E., Purohit, H.S. and Taylor, L.S., (2022). Phase separation in surfactant-containing amorphous solid dispersions: orthogonal analytical methods to probe the effects of surfactants on morphology and phase composition. *International Journal of Pharmaceutics*. 619:121708.
19. Van Duong, T., Nguyen, H.T. and Taylor, L.S., (2022). Combining enabling formulation strategies to generate supersaturated solutions of delamanid: in situ salt formation during amorphous solid dispersion fabrication for more robust release profiles. *European Journal of Pharmaceutics and Biopharmaceutics*. 174:131-143.

20. Hiew, T.N., Zemlyanov, D.Y. and Taylor, L.S., (2022). Balancing solid-state stability and dissolution performance of lumefantrine amorphous solid dispersions: the role of polymer choice and drug–polymer interactions. *Molecular Pharmaceutics*. 19(2):392-413.
21. Van Duong, T., Nguyen, H.T., Wang, F., Wang, M., Narwankar, P.K. and Taylor, L.S., (2022). Surface nanocoating of high drug-loading spray-dried amorphous solid dispersions by atomic layer coating: Excellent physical stability under accelerated storage conditions for two years. *International Journal of Pharmaceutics*. 620:121747.
22. Moseson, D.E., Eren, A., Altman, K.J., Corum, I.D., Li, M., Su, Y., Nagy, Z.K. and Taylor, L.S., (2022) Optimization of Amorphization Kinetics during Hot Melt Extrusion by Particle Engineering: An Experimental and Computational Study. *Crystal Growth & Design*. 22(1):821-841.
23. Alvarenga Jr, B.R.D., Moseson, D.E., Carneiro, R.L. and Taylor, L.S., (2022). Impact of Polymer Type on Thermal Degradation of Amorphous Solid Dispersions Containing Ritonavir. *Molecular Pharmaceutics*. 19(1):332-344.
24. Correa Soto, C., Gao, Y., Indulkar, A. S., Ueda, K., Zhang, G. G. Z., and Taylor, L. S. (2022). Impact of Surfactants on the Performance of Clopidogrel-Copovidone Amorphous Solid Dispersions: Increased Drug Loading and Stabilization of Nanodroplets. *Pharmaceutical Research*. 39:167-188.
25. Ueda, K., Higashi, K., Moribe, K. and Taylor, L.S., (2022). Variable-Temperature NMR Analysis of the Thermodynamics of Polymer Partitioning between Aqueous and Drug-Rich Phases and Its Significance for Amorphous Formulations. *Molecular Pharmaceutics*. 19(1),:100–114.
26. Li, M., Razumtcev, A., Yang, R., Liu, Y., Rong, J., Geiger, A. C., Blanchard, R., Pfluegl, C., Taylor, L. S., Simpson, G. J. (2021). Fluorescence-Detected Mid-Infrared Photothermal Microscopy. *Journal of the American Chemical Society*. 143(29): 10809-10815.
27. Bhujbal, S.V., Mitra, B., Jain, U., Gong, Y., Agrawal, A., Karki, S., Taylor, L.S., Kumar, S. and Zhou, Q.T., 2021. Pharmaceutical amorphous solid dispersion: A review of manufacturing strategies. *Acta Pharmaceutica Sinica B*, 11(8): 2505-2536.
28. Que, C., Deac, A., Zemlyanov, D.Y., Qi, Q., Indulkar, A.S., Gao, Y., Zhang, G.G. and Taylor, L.S. (2021). Impact of Drug–Polymer Intermolecular Interactions on Dissolution Performance of Copovidone-Based Amorphous Solid Dispersions. *Molecular Pharmaceutics*, 18(9):3496-3508.
29. Abouselo, A., Rance, G.A., Tres, F., Taylor, L.S., Kwokal, A., Renou, L., Scurr, D.J., Burley, J.C. and Aylott, J.W. (2021). Effect of Excipients on Salt Disproportionation during Dissolution: A Novel Application of In Situ Raman Imaging. *Molecular Pharmaceutics*, 18(9):3247-3259.
30. Yang, R., Mann, A.K., Van Duong, T., Ormes, J.D., Okoh, G.A., Hermans, A. and Taylor, L.S. (2021). Drug Release and Nanodroplet Formation from Amorphous Solid

Dispersions: Insight into the Roles of Drug Physicochemical Properties and Polymer Selection. *Molecular Pharmaceutics*. 18(5):2066-2081.

31. Elkhazab, A., Moseson, D.E., Sarkar, S., Brouwers, J., Simpson, G.J., Augustijns, P. and Taylor, L.S. (2021). Crystallization Kinetics in Fasted-State Simulated and Aspirated Human Intestinal Fluids. *Crystal Growth & Design*. 21(5):2807-2820.
32. Saboo, S., Bapat, P., Moseson, D. E., Kestur, U. S., Taylor, L. S. (2021). Exploring the Role of Surfactants in Enhancing Drug Release from Amorphous Solid Dispersions at Higher Drug Loadings. *Pharmaceutics*. 13(5): 735.
33. Bhujbal, S. V., Pathak, V., Zemlyanov, D. Y., Taylor, L. S., Zhou, Q. (2021) Physical Stability and Dissolution of Lumefantrine Amorphous Solid Dispersions Produced by Spray Anti-Solvent Precipitation. *Journal of Pharmaceutical Sciences*. 110(6):2423-2431.
34. Chen, Y., Ling, J., Li, M., Su, Y., Arte, K. S., Mutukuri, T. T., Taylor, L. S., Munson, E. J., Topp, E. M., Zhou, Q. T. (2021). Understanding the Impact of Protein–Excipient Interactions on Physical Stability of Spray-Dried Protein Solids. *Molecular Pharmaceutics* 18(7):2657-2668.
35. Moseson, D. E., Corum, I. D., Lust, A., Altman, K. J., Hiew, T. N., Eren, A., Nagy, Z. K., and Taylor, L. S. (2021) Amorphous Solid Dispersions Containing Residual Crystallinity: Competition Between Dissolution and Matrix Crystallization. *The AAPS Journal* 23(4):1-18
36. Bhujbal, S. V, Su, Y., Pathak, V., Zemlyanov, D. Y. Cavallaro, A. A., Munson, E. J., Taylor, L. S., and Zhou, Q. T. (2021) Effect of Storage Humidity on Physical Stability of Spray-Dried Naproxen Amorphous Solid Dispersions with Polyvinylpyrrolidone: Two Fluid Nozzle vs. Three Fluid Nozzle. *Pharmaceutics* 13(7):1074.
37. Voelker, A.L., Taylor, L. S. and Mauer, L. J. (2021). Effect of pH and concentration on the chemical stability and reaction kinetics of thiamine mononitrate and thiamine chloride hydrochloride in solution. *BMC chemistry* 15(1): 1-14
38. Parker, A. P., Taylor, L.S., and Beaudoin, S. P. (2021) Polymer effects on crystallization at the amorphous atazanavir-water interface. *Journal of Crystal Growth* 571:126254
39. Pepin, X. J. H., Dressman, J., Parrott, N., Delvadia, P., Mitra, A., Zhang, X., Babiskin, A., Kolhatkar, V., Seo, P., Taylor, L. S., Sjogren, E., Butler, J. M., Kostewicz, E., Tannergren, C., Koziolk, M., Kesisoglou, F., Dallmann, A., Zhao, Y., Suarez-Sharp, S. (2021). In Vitro Biopredictive Methods: A Workshop Summary Report. *Journal of Pharmaceutical Sciences*. 110(2):567-583.
40. Voelker, A.L., Taylor, L. S. and Mauer, L. J. (2021). Chemical stability and reaction kinetics of thiamine mononitrate in the aqueous phase of bread dough. *Food Research International*. 140: 110084.
41. Wilson, V.R., Mugheirbi, N.A., Mosquera-Giraldo, L.I., Deac, A., Moseson, D.E., Smith, D.T., Novo, D.C., Borca, C.H., Slipchenko, L.V., Edgar, K.J. and Taylor, L.S.

- (2021). Interaction of Polymers with Enzalutamide Nanodroplets—Impact on Droplet Properties and Induction Times. *Molecular Pharmaceutics*. 18(3): 836–849.
42. Ueda, K., and Taylor, L. S. (2021). Partitioning of surfactant into drug-rich nanodroplets and its impact on drug thermodynamic activity and droplet size. *Journal of Controlled Release*. 330: 229-243.
43. Voelker, A.L., Felton, C., Taylor, L. S. and Mauer, L. J. (2021). Effects of polyphenols on crystallization of amorphous sucrose lyophiles. *Food Chemistry*. 338: 128061.
44. Ueda, K., Moseson, D. E., Pathak, V., and Taylor, L. S. (2021). Effect of Polymer Species on Maximum Aqueous Phase Supersaturation Revealed by Quantitative Nuclear Magnetic Resonance Spectroscopy. *Molecular Pharmaceutics*. 18(3):1344–1355.
45. Mutukuri, T. T., Wilson, N. E., Taylor, L. S., Topp, E. M., Zhou, Q. T. (2021). Effects of drying method and excipient on the structure and physical stability of protein solids: Freeze drying vs. spray freeze drying. *International Journal of Pharmaceutics*. 594:20169.
46. Moseson, D. E., Jordan, M. A., Shah, D. D., Corum, I. D., Alvarenga, B. R., Jr., Taylor, L. S. (2020). Application and limitations of thermogravimetric analysis to delineate the hot melt extrusion chemical stability processing window. *International Journal of Pharmaceutics*. 590:119916.
47. Li, N., Cape, J. L., Mankani, B. R., Zemlyanov, D. Y., Shepard, K. B., Morgen, M. M., Taylor, L. S. (2020) Water-Induced Phase Separation of Spray-Dried Amorphous Solid Dispersions. *Molecular Pharmaceutics*. 17(10):4004-4017.
48. Arioglu-Tuncil, S., Voelker, A. L., Taylor, L. S., Mauer, L. J., (2020). Amorphization of Thiamine Mononitrate: A Study of Crystallization Inhibition and Chemical Stability of Thiamine in Thiamine Mononitrate Amorphous Solid Dispersions. *International Journal of Molecular Science*. 21(24):9370.
49. Arioglu-Tuncil, S., Voelker, A. L., Taylor, L. S., Mauer, L. J. (2020). Amorphization of Thiamine Chloride Hydrochloride: Effects of Physical State and Polymer Type on the Chemical Stability of Thiamine in Solid Dispersions. *International Journal of Molecular Science*. 21(16):5935.
50. Hate, S. S., Reutzel-Edens, S. M., and Taylor, L. S. (2020). Influence of Drug-Silica Electrostatic Interactions on Drug Release from Mesoporous Silica-Based Oral Delivery Systems. *Molecular Pharmaceutics*. 17(9):3435-3446.
51. Zhu, C., Chen, J., Yu, S., Que, C., Taylor, L. S., Tan, W., Wu, C, Zhou, Q. R. (2020). Inhalable nano-composite microparticles with enhanced dissolution and superior aerosol performance. *Molecular Pharmaceutics*. 17(9):3270-3280.
52. Saboo, S., Moseson, D. E., Kestur, U. S., Taylor, L. S. (2020). Patterns of drug release as a function of drug loading from amorphous solid dispersions: A comparison of five different polymers. *European Journal of Pharmaceutical Sciences*. 155:105514

53. Wilson, V., Lou, X., Osterling, D. J., Stolarik, D. F., Jenkins, G. J., Nichols, B., Dong, Y., Edgar, K. J., Zhang, G. G. Z., and Taylor, L. S. (2020) Amorphous Solid Dispersions of Enzalutamide and Novel Polysaccharide Derivatives: Investigation of Relationships between Polymer Structure and Performance. *Scientific Reports*. 10(1): 1-12.
54. Hate, S. S., Reutzel-Edens, S. M., and Taylor, L. S. (2020). Interplay of Adsorption, Supersaturation and the Presence of an Absorptive Sink on Drug Release from Mesoporous Silica-Based Formulations. *Pharmaceutical Research*. 37(8):1-18.
55. McCarthy, C. A., Zemlyanov, D., Crean, A. M., Taylor, L. S. (2020). Comparison of Drug Release and Adsorption Under Supersaturating Conditions for Ordered Mesoporous Silica with Indomethacin or Indomethacin Methyl Ester. *Molecular Pharmaceutics*. 17(8): 3062–3074.
56. Enright, E. F., Joyce, S. A., Gahan, C. G. M., Taylor, L. S. (2020) Impact of phospholipid digests and bile acid pool variations on the crystallization of atazanavir from supersaturated solutions. *European Journal of Pharmaceutics and Biopharmaceutics*. 153: 68-83.
57. Ueda, K., Hate, S. S., and Taylor, L. S. (2020). Impact of hypromellose acetate succinate grade on drug amorphous solubility and in vitro membrane transport *Journal of Pharmaceutical Sciences*. 109(8): 2464-2473.
58. Trasi, N. S., Bhujbal, S.V., Zhou, Q. T., and Taylor, L. S. (2020). Physical Stability and Release Properties of Lumefantrine Amorphous Solid Dispersion Granules Prepared by a Simple Solvent Evaporation Approach. *International Journal of Pharmaceutical Sciences X*, 100052.
59. Ueda, K., and Taylor, L. S. (2020). Polymer type impacts amorphous solubility and drug-rich phase colloidal stability: A mechanistic study using nuclear magnetic resonance spectroscopy. *Molecular Pharmaceutics*. 17(4):1352-1362.
60. Saboo, S. S., Kestur, U. S., Flaherty, D. P., Taylor, L. S. (2020) Congruent release of drug and polymer from amorphous solid dispersions: insights into the role of drug-polymer hydrogen bonding, surface crystallization and glass transition. *Molecular Pharmaceutics*. 17(4): 1261–1275.
61. Que, C., Qi, Q., Zemlyanov, D. Y., Mo, H., Deac, A., Zeller, M., Indulkar, A. S., Gao, Y., Zhang, G. G. Z., and Taylor, L. S. (2020). Evidence for Halogen Bonding in Amorphous Solid Dispersions. *Crystal Growth and Design*. 20 (5): 3224–3235.
62. Parker, A. S., Taylor, L. S., and Beaudoin, S. P. (2020). The Role of Surface Energy Heterogeneity on Crystal Morphology during Solid-State Crystallization at the Amorphous Atazanavir-Water Interface. *CrysEngComm*. 22, 3179-3187.
63. Moseson, D.E., Parker, A.S., Beaudoin, S.P., and Taylor, L.S., (2020) Amorphous Solid Dispersions Containing Residual Crystallinity: Influence of Seed Properties and Polymer Adsorption on Dissolution Performance. *European Journal of Pharmaceutical Sciences*. 146: 105276.

64. Hate, S. S., Reutzel-Edens, S. M., and Taylor, L. S. (2020). Absorptive dissolution testing: An improved approach to study the impact of residual crystallinity on the performance of amorphous formulations. *Journal of Pharmaceutical Sciences*. 109(3): 1312-1323.
65. Wilson, N.E., Mutukuri, T.T., Zemlyanov, D.Y., Taylor, L. S., Topp, E.M., Zhou, Q. T. (2020). Surface Composition and Formulation Heterogeneity of Protein Solids Produced by Spray Drying *Pharmaceutical Research*. 37(1):14.
66. Sherman, A. M., Geiger, A. C., Smith, C., Taylor, L. S. Hinds, J., Stroud, P., Simpson, G. J. (2020). Stochastic Differential Scanning Calorimetry by Nonlinear Optical Microscopy. *Analytical Chemistry*. 92(1): 1171-1178.
67. Indulkar, A. S., Raina, S. A., Gao, Y., Zhang, G. G. Z., and Taylor, L. S. (2020). Impact of monomeric vs. micellar surfactant and surfactant-polymer interactions on nucleation-induction times of atazanavir from supersaturated solutions. *Crystal Growth and Design*. 20(1):62-72.
68. Trasi, N. S., Bhujbal, S.V., Zhou, Q. T., and Taylor, L. S. (2019). Amorphous Solid Dispersion Formation via Solvent Granulation – A Case Study with Ritonavir and Lopinavir. *International Journal of Pharmaceutics*. X 1, 100035.
69. Que, C., Lou, X., Zemlyanov, D. Y., Mo, H., Indulkar, A. S., Gao, Y., Zhang, G. G. Z. and Taylor, L. S. (2019). Insights into the Dissolution Behavior of Ledipasvir-Copovidone Amorphous Solid Dispersions: Role of Drug Loading and Intermolecular Interactions. *Molecular Pharmaceutics*. 16(12):5054-5067.
70. Elkhazab, A., Moseson, D. E., Brouwers, J., Augustijns, P., and Taylor, L.S. (2019) Interplay of supersaturation and solubilization: Lack of correlation between concentration-based supersaturation measurements and membrane transport rates in simulated and aspirated human fluids. *Molecular Pharmaceutics*. 16 (12):5042-5053.
71. Elkhazab, A., Sarkar, S., Simpson, G. J., and Taylor, L.S. (2019). Characterization of Phase Transformations for Amorphous Solid Dispersions of a Weakly Basic Drug upon Dissolution in Biorelevant Media. *Pharmaceutical Research*. 36 (12), 174.
72. Tres, F., Posada, M. M., Hall, S. D., Mohutsky, M. A., and Taylor, L. S. (2019). The Effect of Promiscuous Aggregation on *In Vitro* Drug Metabolism Assays. *Pharmaceutical Research*. 36 (12), 170.
73. Dong, Y., Novo, D.C., Mosquera-Giraldo, L.I., Taylor, L.S., Edgar, K.J., 2019. Conjugation of bile esters to cellulose by olefin cross-metathesis: A strategy for accessing complex polysaccharide structures. *Carbohydrate Polymers* 221, 37-47.
74. Voelker, A.L., Verbeek, G., Taylor, L. S. and Mauer, L. J. (2019) Effects of emulsifiers on the moisture sorption and crystallization of amorphous sucrose lyophiles. *Food Chemistry*. 3:100050.
75. Purohit, H.S., Trasi, N.S., Osterling, D.J., Stolarik, D.F., Jenkins, G.J., Gao, W., Zhang, G.G.Z., Taylor, L.S. (2019). Assessing the Impact of Endogenously Derived

- Crystalline Drug on the in Vivo Performance of Amorphous Formulations. *Molecular Pharmaceutics*. 16(8):3617-3625.
76. Dening, T.J., Zemlyanov, D., Taylor, L.S. (2019). Application of an adsorption isotherm to explain incomplete drug release from ordered mesoporous silica materials under supersaturating conditions. *Journal of Controlled Release*. 307:186-199.
 77. Moseson, D.E., Parker, A.S., Gilpin, C.J., Stewart, A.A., Beaudoin, S.P., Taylor, L.S., (2019). Dissolution of Indomethacin Crystals into a Polymer Melt: Role of Diffusion and Fragmentation. *Crystal Growth & Design* 19:3315-3328.
 78. Mauer, L. J., Forny, L., Meunier, V., and Taylor, L. S. (2019). Optimizing the quality of dry ingredient blends and powder products: the challenges of moisture-mediated phase transformations. *Annual Review of Food Science and Technology*. 10:457-478.
 79. Li, N., and Taylor, L.S. (2019). Microstructure Formation for Improved Dissolution Performance of Lopinavir Amorphous Solid Dispersions. *Molecular Pharmaceutics*. 16 (4), 1751-1765.
 80. Indulkar, A. S., Lou, X., Zhang, G. G. Z., and Taylor, L. S. (2019). Insights into the dissolution mechanism of ritonavir-copovidone amorphous solid dispersions: importance of congruent release for enhanced performance. *Molecular Pharmaceutics*. 16(3):1327-1339.
 81. Saboo, S., Mugheirbi, N. A., Zemlyanov, D.Y., Kestur, U. S., and Taylor, L. S. (2019). Congruent release of drug and polymer: A “sweet spot” in the dissolution of amorphous solid dispersions. *Journal of Controlled Release*. 298:68-82.
 82. Hate, S. S., Reutzel-Edens, S. M., and Taylor, L. S. (2019). Insight into Amorphous Solid Dispersion Performance by Coupled Dissolution and Membrane Mass Transfer Measurements. *Molecular Pharmaceutics*. 16(1):448-461.
 83. Thorat, A. A., Forny, L., Meunier, V., Taylor, L. S., and Mauer, L. J. (2018). Effects of Mono-, Di-, and Tri-saccharides on the Stability and Crystallization of Amorphous Sucrose. *Journal of Food Science*. 83(11):2827-2839.
 84. Indulkar, A. S., Gao, Y., Raina, S. A., Zhang, G. G. Z., and Taylor, L. S.(2018). Crystallization from supersaturated solutions: Role of lecithin and composite simulated intestinal fluid. *Pharmaceutical Research*. 35(8):158.
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Editorials

1. Taylor, L.S., (2022). The Myth of Meritocracy in the Pharmaceutical Sciences. *Molecular Pharmaceutics*, 19(3): 729-730.
2. Taylor, L.S., (2022). Review of the Picture a Scientist Documentary. *Molecular Pharmaceutics*, 19(2):359-360.
3. Taylor, L. S. (2021). Introducing “Voices in Molecular Pharmaceutics” Series. *Molecular Pharmaceutics*. 18(12): 4233-4233.
4. Taylor, L. S. (2021). Work–Life Balance in the Pharmaceutical Sciences: More Essential Than Ever Today *Molecular Pharmaceutics* 18(10):3649-3651.
5. Taylor, L.S., Bergström, C.A.S., Lavasanifar, A., Qian, F., Suryanarayanan, R., Thurecht, K. J. (2021) Celebrating Women in the Pharmaceutical Sciences. *Molecular Pharmaceutics* 18(4):1487-1490.
6. Taylor, L. S., Braun, D. E., Steed, J. W. (2021). Crystals and Crystallization in Drug Delivery Design. *Crystal Growth & Design* 21(3):1375-1377.
7. Burrows, C.J., et al. (2020). Editorial confronting racism in chemistry journals. *ACS Materials Letters*, 2(7):829-831.
8. Burrows, C.J., et al. (2020). Update to Our Reader, Reviewer, and Author Communities—April 2020. *Langmuir*, 36(17):4565-4566.

Patents and Disclosures

Novel thiamine-organic acid salt
 LS Taylor, LJ Mauer, V Bhardwaj

US Patent App. 16/423,321

Inhibition of Sucrose Crystallization Using Glycosides

LS Taylor, LJ Mauer, A Thorat

US Patent App. 16/165,415

Cellulose derivatives for inhibiting crystallization of poorly water-soluble drugs

KJ Edgar, B Li, L Taylor, G Ilevbare, SM Williams, H Liu

US Patent App. 14/368,911

Imaging crystalline domains of small molecules

GJ Simpson, D Wanapun, LS Taylor, US Kestur, SJ Toth

US Patent 8,836,925

Cellulose derivatives for enhancing bioavailability of flavonoids

KJ Edgar, B Li, L Taylor, G Ilevbare, SM Williams

US Patent App. 13/880,521

Methods and systems for depositing active ingredients on substrates

AV Giridhar, M Harris, GV Raklaitis, LS Taylor, ZK Nagy, E Icten, F Fiesser

US Patent App. 15/751,771

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 Phase Separation on Amorphous Solid Dispersion Performance. American Association of Pharmaceutical Scientists Annual Meeting, Boston, MA, October 2022.
2. Supersaturation Profiles of Enabling Formulations Containing Weakly Basic Drugs. American Chemical Society Annual Meeting, Chicago, IL, August 2022.
3. How Far Can We Push the Drug Loading in ASD Formulations? NIPER, Mohali. August 2022. Virtual.
4. Guts and Gall: Factors Impacting Crystallization from Supersaturating Dosage Forms Following Oral Ingestion. Gordon Research Conference, Sunday River, ME. June 2022.
5. Amorphous Solid Dispersions of Weakly Basic Drugs. Pfizer, April 2022. Virtual.

6. How Far Can We Push the Drug Loading in ASD Formulations? AbbVie, Waukegan, March 2022.
7. Heat-Induced Phase Transformations – Relevance to 3DP. Aprezia-Purdue-USP seminar series. February 2022. Virtual.
8. Solubility Enhancing Technologies. Colorcon. January 2022. Virtual.
9. Solid Dispersions and Crystallinity. American Association of Pharmaceutical Scientists Annual Meeting. October 2021. Virtual.
10. Enabling Solid-state Biological Products Through the Development of Approaches to Better Understand Protein-Excipient Miscibility and Spatial Homogeneity. American Association of Pharmaceutical Scientists Annual Meeting. October 2021. Virtual.
11. Dissolution, Supersaturation, and Crystallization in Environments Mimicking the Gut. University of Texas, Austin, Pharmaceutical Sciences Seminar Series, September 2021, Virtual.
12. Strategies to improve the robustness of delamanid amorphous solid dispersion formulations. David Grant Symposium. June 2021, University of Minnesota. Virtual.
13. Developing a gut-feeling for dissolution, supersaturation, and crystallization of orally delivered enabling formulations. St. John’s University, June 2021, Virtual
14. Characterization of Solid-State Forms Using Thermal and Microscopy Methods. Amorphous Materials, Erice 2021, Molecular Crystal Engineering. June 2021, Virtual
15. Amorphous Materials, Erice 2021, Molecular Crystal Engineering. June 2021, Virtual
16. Excipients for Solubility-Enabling Formulations. IPEC Foundation Webinar. May 2021, Virtual.
17. Dissolution, Supersaturation, and Crystallization in Environments Mimicking the Gut. Crystal Growth and Design Seminar Series, April 2021, Virtual
18. Delivering the Insoluble: Amorphous Solid Dispersions. ACS Spring Meeting, March 2021, Virtual
19. Understanding the solubility and release rate of amorphous dispersions, The Society For Pharmaceutical Dissolution Science, September 2020, Virtual.
- 20.
21. Characterizing the Phase Behavior of Solubility Enhancing Formulations using Orthogonal Analytical Approaches. AAPS Annual meeting, San Antonio, TX, November, 2019.
22. Approaches to measure equilibrium (intrinsic) and “transient” solubility, and the impact on dissolution and membrane transport kinetics. University of Maryland, Balimore, MD. September 2019 at the “Current State and Future Expectations of

- Translational Modeling Strategies to Support Drug Product Development, Manufacturing Changes and Controls" FDA Workshop.
23. Phase Behavior of Amorphous Solid Dispersions – Role of Molecular Interactions. Keynote Talk, Gordon Research Conference, Waterville Valley, NH. June 2019.
 24. Supersaturation and phase behavior of weakly basic drugs as a function of pH. Systems-based Pharmaceuticals Consortium. Eli Lilly, Indianapolis, IN. May 2019.
 25. Amorphous Formulations for Solubility and Bioavailability Enhancement. Institute of Drug Discovery. Purdue University. May 2019.
 26. Knowns and Unknowns about How Amorphous Solid Dispersions Improve Oral Absorption. Celegene. Summit, NJ. December 2018.
 27. Impact of Amorphous Solid Dispersion Physicochemical Properties on Absorption Profiles. Bioequivalence Bioavailability Conference. Lisbon, Portugal. October 2018.
 28. Dissolution of Amorphous Solid Dispersions- Mechanisms and Speciation. Hovione, Lisbon, Portugal. October 2018.
 29. Spray drying of poorly water soluble drugs – Impact of solvent and processing conditions on phase behavior and compositional heterogeneities. Food and Drug Administration, Silver Springs, MD. September 2018
 30. Serendipity and Solid Dispersions. Postgraduate Student Research Meeting. Minnesota, MN. June 2018.
 31. Probing Crystallization of Drugs Using Synchrotron Radiation. Spring Pharmaceutical Synchrotron X-Ray Powder Diffraction Workshop. Purdue University, IN. May 2018.
 32. Mechanisms of Drug Release From Amorphous Solid Dispersions – Lessons Learned and Future Directions. AbbVie. North Chicago, IL. May 2018.
 33. Impact of crystals on the *in vitro* & *in vivo* performance of supersaturating formulations. American Association of Pharmaceutical Scientists Annual Meeting. San Diego, CA. November 2017.
 34. Probing the Precipitation Behavior of Poorly Water Soluble Compounds. American Association of Pharmaceutical Scientists Annual Meeting. San Diego, CA. November 2017.
 35. Biorelevant Phase Transformations in Supersaturated Solutions of Poorly Water Soluble Drugs. AIChE Annual Meeting. Minneapolis, MN. October 2017.
 36. Dissolution of Amorphous Solid Dispersions- Mechanisms and Speciation. AAPS ChicagoLand Discussion Group. Chicago, IL, September 2017.

37. Impact of Additives on the Crystallization of Pharmaceutical Substances. 21st American Conference on Crystal Growth and Epitaxy, Sante Fe, NM, July 2017.
38. Phase transformations in supersaturated solutions – implications for formulation and bioavailability. Abbvie. North Chicago, Illinois. November 2016.
39. Impact of Water on the Phase Behavior of Poorly Water-Soluble Amorphous Drug Formulations. Plenary Lecture. International Symposium on the Properties of Water. Lausanne, Switzerland. June 2016.
40. Solubility Enhancement Using Amorphous Formulations. Land of Lakes Symposium. Madison, Wisconsin. June 2016.
41. Liquid-Liquid Phase Separation in Supersaturated Solutions of Poorly Water Soluble Compounds—Implications for Bioavailability. Arden House Conference. Baltimore, Maryland. April 2016.
42. Factors impacting the performance of amorphous solubility enhancing formulations. Food and Drug Administration. Silver Springs, Maryland. April 2016.
43. Modification of Crystallization Kinetics with Additives. Peck Symposium. West Lafayette, Indiana. March 2016.
44. Disproportionation of Salts. Pfizer. Groton, Connecticut. November 2015.
45. Phase Behavior of Amorphous Solid Dispersions, Bend Research Institute, Bend, Oregon. October 2015.
46. Liquid Liquid Phase Separation in Dilute but Highly Supersaturated Aqueous Solutions of Lipophilic Drugs. American Chemical Society Meeting, Boston, August 2015.
47. How High Can You Go? Factors Impacting the Maximum Achievable Supersaturation. Eli Lilly and Company, Indianapolis, August 2015.
48. Impact of Surfactants and Polymers on Supersaturated Solutions of Poorly Water Soluble Drugs. Trinity College Dublin, Ireland, June 2015.
49. An Overview of Amorphous Solid Dispersions – Performance Requirements? Trinity College Dublin, Ireland, June 2015.
50. An Overview of Amorphous Solid Dispersions. Materials and Surface Science Institute Symposium, Plenary Talk. University of Limerick, Ireland, June 2015.
51. Amorphous Solid Dispersions –Emerging Research Areas and Lessons Learned. Abbvie, North Chicago. April 2015.
52. 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.

53. 50 Years of Amorphous Solid Dispersion Research – What’s Next? Chaney Faculty Scholar Award Lecture, Purdue University, November 2014.
54. Evaluation of Crystallization and Precipitation in Highly Supersaturated Aqueous Solutions. American Association of Pharmaceutical Scientists Annual Meeting. San Diego, November 2014.
55. Enabling Drug Delivery Technology – Which One and Why? American Association of Pharmaceutical Scientists Annual Meeting. San Diego, November 2014.
56. Improving Drug Delivery with Vibrational Spectroscopy. Coblentz Society Craver Award Presentation. SCIX 2014, Reno, September 2014.
57. Dissolution Behavior of Amorphous Solid Dispersions. David Grant Symposium, Minneapolis, May 2014.
58. Towards Understanding the Complex Phase Behavior of Supersaturated Aqueous Solutions. Amgen, Cambridge, MA, April 2014.
59. Factors Impacting the Crystallization Kinetics of Amorphous Pharmaceuticals. Pfizer, Groton, CT, April 2014.
60. 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.
61. Towards Understanding the Complex Phase Behavior of Supersaturated Aqueous Solutions. Novartis, Cambridge, MA, April 2014.
62. Towards understanding the supersaturation potential of high energy formulations. Eli Lilly and Company, Indianapolis, October 2013.
63. Phase Behavior of Amorphous Solid Dispersions. Association for Crystallization Technology, 19th Annual Larson Workshop, Indianapolis, September 2013.
64. Imaging of Pharmaceutical Systems using Nanoscale Infrared Spectroscopy. SCIX 2014, Milwaukee, September 2013.
65. Crystallization of Organic Compounds and Modification of Crystallization Kinetics by Polymeric Additives. Ashland Specialty Ingredients, Delaware, August 2013
66. Characterizing Crystallization in Amorphous Systems. Gilead, Foster City, California July 2013.
67. Formation of colloidal species in supersaturated solutions – implications for solid dispersion delivery strategies. Bristol Myers Squibb. Moreton, UK, June 2013.

68. The Complications of Crystallization in Supersaturated Solutions of Poorly Water Soluble Drugs British Association for Crystal Growth, Manchester, UK, June 2013.
69. Phase Behavior of Amorphous Solid Dispersions During Dissolution. Gordon Research Conference on Preclinical Form & Formulation for Drug Discovery. Waterville, NH, June 2013.
70. Amorphous Formulations- Advantages and Pitfalls.6th International Symposium on Oral Solid Dosage Forms. Malmo, Sweden. April 2013.
71. Colloid formation in supersaturated solutions – observations and (potential) explanations. Merck, Summit, New Jersey. March 2013.
72. Plenary Lecture - Impact of Additives on the Crystallization of Amorphous Systems. Crystal Growth of Organic Molecules, Limerick, Ireland, June 2012.
73. Crystallization of Amorphous Systems and Impact of Additives. M3 meeting, Banff, Canada, May 2012.
74. 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.
75. Stabilization of Supersaturated Drug Solutions by Polymeric Additives. IPrime workshop: Cellulosic Materials: Synthesis Properties, and Applications Workshop, University of Minnesota, Minneapolis, January 2012.
76. Factors Affecting Crystallization from Amorphous Systems. Ninth Annual Garnet E. Peck Symposium. Purdue University, West Lafayette, IN. October 2011.
77. Monitoring Crystallization Kinetics from Organic Amorphous Systems using Raman Spectroscopy. Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) Annual Meeting. Reno, NV. October 2011.
78. Quality by Design Approaches for Amorphous Solid Dispersions. Thirteenth International Workshop on Physical Characterization of Pharmaceutical Solids.Indianapolis, IN. June 2011
79. Supersaturation – interplay between solid-state properties, solution concentration and polymeric additives . Lecture at the 43rd Journées Galeniques Meeting on Supersaturation, St. Rémy, France, an exclusive scientific meeting of of the Académie des Alpillés, all participants attend by invitation only.
80. Influence of Polymers on the Crystallization Behavior of Amorphous Systems. Boehringer Ingelheim, Connecticut, April 2011.
81. Influence of Polymers on the Crystallization of Supercooled Liquids and Glasses. Department of Chemical Engineering, University of Manchester, UK, April 2011

82. Crystallization Behavior of Amorphous Formulations. AstraZeneca, UK, April 2011
83. Introduction to Amorphous Systems. AstraZeneca, UK, April 2011
84. Important Considerations in the Formulation of Amorphous Solid Dispersions. Allergan, California, March 2011.
85. Intermolecular Interactions in Amorphous Systems. Allergan, California, March 2011.
86. Non linear optical imaging for highly sensitive detection of crystals in amorphous films and bulk amorphous powders. Merck, Pennsylvania, March 2011
87. Formulation considerations for amorphous solid dispersions. Minisymposium: Future formulation strategies. The Faculty of Pharmaceutical Sciences, University of Copenhagen, Denmark. January 2011.
88. Quantitative Analysis of API Crystals by Nonlinear Optical Imaging. Abbott Laboratories, Illinois, December 2010
89. Polymer Choice for Solid Dispersions – Blind Date or Chemistry. Abbott Laboratories, Illinois, December 2010
90. Crystallization behavior of amorphous solids in the presence and absence of polymers. Bristol Myers Squibb, New Jersey, September 2009
91. Crystallization from Amorphous Systems. University of Kentucky, March 2009
92. Crystallization from Amorphous Systems. University of Minnesota, February 2009.
93. Influence of Moisture and Temperature on the Phase Behavior of Amorphous Solid Dispersions. Kansas University Faculty Retreat, Kansas, October 2008.
94. Understanding hydrate formation during aqueous wet granulation, Amgen, California, August 2008.
95. Influence of temperature and moisture on the phase behaviour of amorphous solid dispersions. SSCI, West Lafayette, July 2008.
96. Inline monitoring of crystallization processes, Peck Symposium, Lafayette, IN, October 2007.
97. 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.
98. Short Course, University of Wisconsin-Madison, Madison, Wisconsin. Water Interactions with Pharmaceutical Solids. May 2008.
99. Understanding hydrate formation during aqueous wet granulation, Abbott Labs, Abbott Park, Illinois, June 2007.

100. Factors influencing the physical stability of amorphous solid dispersions, 3M, St. Paul, Minnesota, May 2007.
101. Factors influencing the physical stability of amorphous solid dispersions, AstraZeneca, Wilmington Delaware, May 2007.
102. 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.
103. Water Interactions with Pharmaceutical Solids, Short Course, University of Wisconsin-Madison, Madison, Wisconsin, April 2007
104. Factors influencing the physical stability of amorphous solid dispersions, Merck, West Point, New Jersey, April 2007.
105. Crystallization from amorphous molecular level solid dispersions - influence of polymer type and absorbed water, Novartis, Sussex, UK, March 2007.
106. Crystallization from amorphous molecular level solid dispersions - influence of polymer type and absorbed water, GlaxoSmithKline, Hertfordshire, UK., March 2007.
107. Influence of polymer type on the crystallization tendency of a model amorphous drug, 233rd American Chemical Society National Meeting, Chicago, Illinois, March 2007.
108. Crystallization from amorphous molecular level solid dispersions, American Chemical Society ProSpectives 2007 Meeting on Crystallization Process Development, Cambridge, Massachusetts, February 2007.
109. Crystallization from amorphous molecular level solid dispersions. Association for Crystallization Technology, 14th Annual Larson Workshop, Princeton, New Jersey, September 2006.
110. 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.
111. 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.
112. June 2006 Helsinki Drug Research Conference, Helsinki, Finland. Invited speaker Monitoring and manipulating hydrate formation kinetics during wet granulation.
113. May 2006, AstraZeneca, Sweden. Crystallization from amorphous systems.
114. 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.

115. November 2005. Eastern Analytical Symposium (EAS), Somerset NJ, Invited speaker. Monitoring hydrate formation kinetics during wet granulation using in-line Raman spectroscopy
116. November 2005. Bristol Myers Squibb. Invited speaker and consultant. Stabilization of amorphous solid dispersions through rational polymer selection.
117. October 2005. Water Interactions with Pharmaceutical Solids, Short Course, University of Wisconsin-Madison, Malvern, Pennsylvania.
118. November 2004 AAPS Annual Meeting, Baltimore. Invited speaker. Recent advances in the characterization of solid dispersions.
119. October 2004 Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) Annual Meeting, Portland, Oregon. Invited speaker Monitoring the kinetics of solvent mediated phase transformations.
120. 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.
121. September 2004 University of Wisconsin-Madison. Invited Lecture. Intermolecular Interactions in Amorphous Systems.
122. June 2004 Kaiser Optical Systems Inc. Invited Lecture: Crystallization monitoring by Raman spectroscopy.
123. 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.
124. 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.
125. April 2004, Polymorphism and Crystallization Forum 2004, Princeton, New Jersey. Invited Lecture: Raman spectroscopy for process understanding: Strengths, weaknesses and future possibilities.
126. March 2004, Pfizer Central Research, Groton. Invited lecture. Probing moisture-induced phase transformations
127. September 2003 AstraZeneca. Invited Lecture: Raman spectroscopy as a tool to characterize pharmaceutical systems
128. September 2003, European Polymorphism Network Meeting, Innsbruck, Austria, Invited Lecture: Intermolecular interactions in amorphous systems.
129. September 2003 PhandTA7 conference, Innsbruck, Austria, Keynote lecture: Hydrogen-deuterium exchange as method for probing water-solid interactions

130. July 2003 Eli Lilly and Company: Invited Lecture: Raman spectroscopy as a tool to characterize pharmaceutical systems
131. June 2003 University of Minnesota, As part of their Advanced Drug Delivery Lecture Series: Raman spectroscopy as a tool to characterize pharmaceutical systems
132. April 2003. Abbott Pharmaceuticals. Invited Lecture: Hydrogen bond interactions in a group of related amorphous compounds
133. 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
134. 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
135. April 2002. University of Uppsala, School of Pharmacy Seminar Series. The amorphous state; friend, foe or blind date
136. 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. Nguyen, H.T., Duong, V.T., Taylor L.S. Enteric Coating of an Amorphous Solid Dispersion: An Emerging Strategy to Enhance the Dissolution Performance in Simulated Gastrointestinal Fluids. Presented as a poster at 2022 AAPS PharmSci 360 Annual Meeting (Boston, MA, October 2022), poster number T1230-01-04.
2. Deac, A., Que, C., Qi, Q., Indulkar, A. S., Gao, Y., Zhang, G. G. Z., & Taylor, L. S.. A Physical Picture of the Dissolution Process of Copovidone-Based ASDs. Presented as a poster at the 2022 AAPS PharmSci 360 Annual Meeting (Boston, MA, October 2022), poster number T0930-01-02.

3. Hiew, T.N., Saboo, S., Zemlyanov D.Y., Punia, A., Smith, D., Lowinger, M., Solomos, M.A., Schenck, L., Taylor, L.S. Improving dissolution performance and drug loading of amorphous dispersions through a hierarchical particle approach. Presented as a poster at 2022 AAPS PharmSci 360 Annual Meeting (Boston, MA), poster number M1330-07-41.
4. Moseson, D.E., I.D. Corum, A. Lust, K.J. Altman, & L.S. Taylor. Competition Between Dissolution and Matrix Crystallization of Bicalutamide-PVPVA Amorphous Solid Dispersions Containing Residual Crystallinity. Presented as a poster at 2020 AAPS PharmSci 360 Annual Meeting (Virtual Meeting, November 2020).
5. Bhujbal, S.V., Pathak, V., Taylor, L.S., Zhou, Q.T. Manufacturing Lumefantrine Amorphous Solid Dispersions with Spray Anti-solvent Precipitation Method. Presented as a poster at 2020 AAPS PharmSci 360 Annual Meeting (Virtual conference, November 2019), poster number 923308.
6. Correa-Soto, C. Gao, Y., Indulkar, A.S., Zhang, G.Z., Ueda, K., Taylor, L.S. Mechanistic Understanding of Drug-rich Nanodroplet Size Stabilization by Surfactants using ¹H NMR. Presented as a poster at 2020 AAPS PharmaSci 360 Annual meeting (virtual conference).
7. Deac, A., Que, C., Qi, Q., Ueda, K., Indulkar, A. S., Gao, Y., Zhang, G. G. Z., Taylor, L. S. The Unexpected Consequence of Drug-Polymer Interactions on Dissolution of Amorphous Dispersions. Presented as a poster at 2020 AAPS PharmSci 360 Annual Meeting (Virtual, November 2020).
8. Hiew, T.N., Taylor, L.S. Solid-state stability and dissolution performance of lumefantrine amorphous solid dispersions formulated with neutral and enteric polymers. Presented as a poster at the American Association of Pharmaceutical Scientists PharmSci 360 (Virtual Conference), October 2020, abstract number 894423
9. Hate, S., Reutzel-Edens, S. M., Taylor, L. S. Absorptive dissolution testing: An improved approach to study the impact of residual crystallinity on the performance of amorphous formulations. Presented as a poster at Gordon Research Conference Preclinical Form and Formulation for Drug Discovery, Waterville Valley, NH, June 2019.
10. Hate, S., Reutzel-Edens, S. M., Taylor, L. S. Improved assessment of amorphous formulations using a novel dissolution-absorption apparatus. Presented as a RapidFire Talk at AAPS Annual Meeting, San Antonio, Nov 2019.
11. Hate, S., Reutzel-Edens, S. M., Taylor, L. S. Absorptive dissolution testing: An improved approach to study the impact of residual crystallinity on the performance of amorphous formulations. Presented as a poster at AAPS Annual Meeting, San Antonio, Nov 2019.
12. Hate, S., Mosquera-Giraldo, L., Taylor, L. S. Critical considerations when using PAMPA for the assessment of membrane mass transfer from supersaturated solutions. Presented as a poster at AAPS Annual Meeting, San Antonio, Nov 2019.

13. Elkhazab, A, D.E. Moseson, S. Sarkar, G.J. Simpson, P. Augustijns, & L.S. Taylor. Characterization of the Phase Behavior of Supersaturated Solutions in Biorelevant Media and Aspirated Human Fluids. Presented as a poster at 2019 Gordon Research Conference on Preclinical Form and Formulation for Drug Discovery (Waterville Valley, NH, June 2019). *Top 4 GRS poster award winner, top 25 GRC poster award winner
14. Moseson, D.E., N.A. Mugheirbi, A.S. Parker, C.J. Gilpin, A.A. Stewart, S.P. Beaudoin, & L.S. Taylor. Microstructural Progression of Crystal Dissolution into Polymer Melts under Quiescent and Dynamic Conditions. Presented as a poster at 2019 Gordon Research Conference on Preclinical Form and Formulation for Drug Discovery (Waterville Valley, NH, June 2019). *Top 25 GRC poster award winner
15. Moseson, D.E., A.S. Parker, C.J. Gilpin, A.A. Stewart, S.P. Beaudoin, & L.S. Taylor. Dissolution of Indomethacin Crystals into a Polymer Melt: Role of Diffusion and Fragmentation. Presented as a poster at 2019 AAPS PharmSci 360 Annual Meeting (San Antonio, TX, November 2019), poster number W0930-04-24.
16. Moseson, D.E., K.J. Altman, & L.S. Taylor. Influence of Drug Particle Size on Hot Melt Extrusion Processing and Product Characteristics of Bicalutamide-PVPVA Amorphous Solid Dispersions. Presented as a poster at 2019 AAPS PharmSci 360 Annual Meeting (San Antonio, TX, November 2019), poster number M1530-08-53.
17. Moseson, D.E. & L.S. Taylor. Crystal Seed Growth Poisoning by Polymeric Additives in Non-Sink Dissolution of Amorphous Solid Dispersions Containing Residual Crystallinity. Presented as a poster at 2019 AAPS PharmSci 360 Annual Meeting (San Antonio, TX, November 2019), poster number T0930-04-24.
18. Parker, A.S., Taylor, L.S., Beaudoin, S.P. Impact of Polymers and Surfactants on Solid-State Crystallization at the Amorphous Pharmaceutical-Water Interface. Presented at AIChE Annual Meeting, Orlando, FL, November 2019. Presentation #198f
19. Saboo, S., Kestur, U. S., Flaherty, D.P., Taylor, L. S. Impact of drug-polymer hydrogen bonding interaction on the initial drug and polymer release from tableted amorphous solid dispersions. Presented as a poster at the Gordon Research Conference on Preclinical Form and Formulation for Drug Discovery, Waterville Valley, NH, June 2019. Poster #T1430-03-020
20. Saboo, S., Kestur, U. S., Flaherty, D.P., Taylor, L. S. Impact of drug-polymer hydrogen bonding interaction on the initial drug and polymer release from tableted amorphous solid dispersions. Presented as a poster at AAPS Annual Meeting, San Antonio, TX, Nov 2019. Poster #T1430-03-020
21. Saboo, S., Kestur, U. S., Taylor, L. S. Dissolution mechanism of amorphous solid dispersions as a function of drug loading: role of polymer hydrophobicity. Presented as a poster at AAPS Annual Meeting, San Antonio, TX, Nov 2019. Poster #M1330-04-024

22. Bhujbal, S., Taylor, L.S., Zhou, Q.T. Developing Efficacious and Cost-effective Lumefantrine Amorphous Solid Dispersions for Treating Malaria. Presented as a poster at Gordon Research Conference, Waterville Valley, New Hampshire, Jun 2019.
23. Bhujbal, S., Taylor, L.S., Zhou, Q.T. Effect of Polymer and Drug Loading on the Drug Release Profile and Solid-State Stability of Anti-Solvent Precipitated Lumefantrine Amorphous Solid Dispersions. Presented as a poster at AAPS Annual Meeting and Exposition, San Antonio, Texas, Nov 2019. Poster #M0930-05-30
24. Duong, T. V., Taylor, L. S. Compositional Effect of Complex Biorelevant Media on the Phase Behavior and Transformation Kinetics of a Poorly Water Soluble Weakly Basic Drug. Presented as a poster at Gordon Research Conference, Waterville Valley, New Hampshire, June 2019.
25. Duong, T. V., Nguyen, T. H., Taylor, L. S. Preventing Crystallization and Improving Dissolution of Delamanid by in situ Formation of Amorphous Solid Dispersions of Sulfonate Salts. Presented as a poster at AAPS Annual Meeting, Texas, Nov 2019. Poster #T1530-04-27.
26. Correa Soto, C. ,Gao, Y., Indulkar, A.S., Zhang, G. G. Z., Taylor, L.S. Surfactants as Stabilizers of the Colloidal Phase Formed Upon Amorphous Solid Dispersion Dissolution. Presented as a poster at AAPS Annual Meeting, San Antonio, TX., Nov 2019. Poster #T0930-04-25
27. Que, C., Zemlyanov, D. Y., Indulkar, A. S., Gao, Y., Raina, S. A., Zhang, G. G. Z., Taylor, L. S. Dissolution Behavior and Mechanistic Study of Ledipasvir-PVPVA Amorphous Solid Dispersions by Surface Area Normalized Dissolution. Presented as a poster at AAPS Annual Meeting, Washington D.C., Nov 2018. Poster #T1430-09-071
28. Que, C., Indulkar, A. S., Gao, Y., Raina, S. A., Zhang, G. G. Z., Taylor, L. S. Impact of Temperature Relative to the Glass Transition Temperature on the Dissolution Performance of Anacetrapib-Copovidone Amorphous Solid Dispersions. Presented as a poster at AAPS Annual Meeting, Washington D.C., Nov 2018. Poster #M0930-10-077
29. Hate, S., Reutzel-Edens, S., Taylor L. S. A novel absorptive dissolution testing apparatus to evaluate pharmaceutical formulations, Presented as a Rapid Fire Talk at AAPS PharmSci 360 Meeting, Washington, D.C., Nov 2018.
30. Hate, S., Reutzel-Edens, S., Taylor L. S. Use of a novel absorptive dissolution testing apparatus to study the impact of liquid-liquid phase separation on amorphous solid dispersion formulation performance. Presented as a poster at AAPS PharmSci 360 Meeting, Washington, D.C., Nov 2018. (Won Best Abstract Award)
31. Hate, S., Reutzel-Edens, S., Taylor L. S. Absorptive dissolution testing of supersaturating systems: Impact of absorptive sink conditions on solution phase behavior and mass transport. Presented as a poster at AAPS PharmSci 360 Meeting, Washington, D.C., Nov 2018.
32. Saboo, S., Mugheirbi, N.A., Zemlyanov, D. Y., Kestur, U. S., Taylor, L. S. Congruent release of drug and polymer: A “sweet spot” in the dissolution of amorphous solid dispersions. Presented as a poster at AAPS PharmSci360 Meeting, Washington, DC, Nov 2018. Poster #T1430-09-065.

33. Van Duong, T., Turner, D. B., Taylor, L. S. Phase behavior and transformation kinetics of a poorly water soluble weakly basic drug upon transit from low to high pH conditions. Presented as a poster at AAPS Annual Meeting, Washington DC, Nov 2018. Poster No. M1330-10-074.
34. Wilson, V., Lou, X., Gao, W., Zhang, G.G. Z., Taylor, L. S. The Use of Mass Transport Measurements as a Predictor of Relative in vivo Bioavailability of Enzalutamide Formulations: 2017 European Drug Absorption Network, Brussels, Belgium, March 20th, 2017
35. Que, C., Gao, Y., Raina, S. A., Zhang, G. G. Z., Taylor, L. S. Paclitaxel Crystal Seeds with Different Intrinsic Properties and Their Impact on the Dissolution of Paclitaxel-HPMCAS Amorphous Solid Dispersions. Presented as a poster at AAPS Annual Meeting, San Diego, CA, Nov 2017. Poster #T6029.
36. Mosquera-Giraldo, L.I., Borca, C.H., Meng, X., Dong, Y., Edgar, K.J., Slipchenko, L., Taylor, L.S. From computational modelling towards mechanistic design of polymers for oral drug delivery. Presented as oral presentation at 253rd ACS National Meeting and Exposition, San Francisco, CA, April 2017. Presentation #CELL 3.
37. Mosquera-Giraldo, L.I., Dong, Y., Edgar, K.J., Taylor, L.S. Crystallization inhibition properties of cellulose ethers and esters in supersaturated drug solutions. Presented as a poster at AAPS Annual Meeting, San Diego, CA, Nov 2017. Poster #T4031.
38. Dong, Y., Mosquera-Giraldo, L.I, Edgar, K.J., L., Taylor, L.S. Olefin cross-metathesis: Mild, efficient and modular pathway to a new world of polysaccharide derivatives for drug delivery and applications. Presented as oral presentation at 253rd ACS National Meeting and Exposition, San Francisco, CA, April 2017. Presentation #CELL 300.
39. Dong, Y., Mosquera-Giraldo, L.I, Edgar, K.J., L., Taylor, L.S. Multifunctional cellulose ether derivatives for high performance amorphous solid dispersions prepared by olefin cross-metathesis and thiol-Michael addition. Presented as oral presentation at 253rd ACS National Meeting and Exposition, San Francisco, CA, April 2017. Presentation #POLY 282.
40. Elkhaz, A., Sarkar, S., Dinh, J.K., Simpson, G.J., Taylor, L.S. Supersaturation and Phase Behavior of Ezetimibe Amorphous Solid Dispersions upon Dissolution in Biorelevant Turbid Media. Presented as a poster at Gordon Research Conference - Preclinical Form & Formulation for Drug Discovery, Stowe, VT, June 2017. Poster # 10.
41. Hate S., Reutzel-Edens S., Taylor, L.S. Absorptive dissolution testing of pharmaceutical formulations using a novel mass transport apparatus . Presented as a poster at Gordon Research Conference, Preclinical Form and Formulation for Drug Discovery, Stowe, VT, June 2017. Poster # 17.
42. Patel, M.A., Luthra, S., Shamblin, S., Arora, K., Krzyzaniak, J., and Taylor, L.S. Impact of solid form on salt to free base conversion for miconazole mesylate. Presented as a poster at AAPS Annual Meeting, San Diego, CA, Nov 2017. Poster # T0008
43. Patel, M.A., Luthra, S., Shamblin, S., Arora, K., Krzyzaniak, J., and Taylor, L.S. Impact of solid form on salt to free base conversion for miconazole

- mesylate. Presented as a poster at Gordon Research Conference: Preclinical Form & Formulation for Drug Discovery, Stowe, VT, June 2017. Poster # 7
44. Li, N., Taylor, L.S. The solubility of poorly water-soluble drugs from amorphous solid dispersions – impact of polymers. Presented as a poster at Gordon Research Conference: Preclinical Form & Formulation for Drug Discovery, Stowe, VT, June 2017. Poster # 29.
 45. Dong, Y., Mosquera-Giraldo, L.I, Taylor, L.S, Edgar, K.J. Design of functionalized cellulose ethers for amorphous solid dispersions via olefin cross-metathesis. Presented as oral presentation at 251st ACS National Meeting and Exposition, San Diego, CA, Mar 2016. Presentation #CELL 60.
 46. Dong, Y., Mosquera-Giraldo, L.I, Taylor, L.S, Edgar, K.J. Novel cellulose ether derivatives for amorphous solid dispersions prepared by olefin cross-metathesis and thiol-Michael addition. Presented as oral presentation at 252nd ACS National Meeting and Exposition, Philadelphia, PA, Aug 2016. Presentation #POLY 429.
 47. Mosquera-Giraldo, L.I, Borca, C.H, Meng, X., Edgar, K.J, Slipchenko, L., Taylor, L.S. Mechanistic design of chemically diverse polymers with applications on pharmaceuticals. Presented as a poster at 252nd ACS National Meeting and Exposition, Philadelphia, PA, Aug 2016. Poster #COMP 290.
 48. Mosquera-Giraldo, L.I., Borca, C.H., Meng, X., Edgar, K.J., Slipchenko, L., Taylor, L.S. Experimental and computational exploration of key polymer features essential for crystallization inhibition of a poorly water soluble compound from aqueous solution. Presented as a poster at AAPS Annual Meeting, Denver, CO, Nov 2016. Poster # 01W0230.
 49. Mosquera-Giraldo, L.I., Ye, H., Taylor, L.S. Parallel artificial membrane permeability assay to explore the phase behavior of supersaturated drug solutions. Presented as a poster at AAPS Annual Meeting, Denver, CO, Nov 2016. Poster # 01M0230.
 50. Mosquera-Giraldo, L.I., Taylor, L.S. Phase behavior of supersaturated solutions of telaprevir created by dissolving amorphous solid dispersions. Presented as a poster at AAPS Annual Meeting, Denver, CO, Nov 2016. Poster # 01M0200.
 51. Indulkar, A. S., Gao, Y., Raina, S. A., Zhang, G.G.Z., Taylor, L.S. (2016). Evaluation of Different Biorelevant Media to Study Crystallization of Drugs from Supersaturated Solutions. Presented as a poster at AAPS Annual meeting, Denver, USA, Nov 2016. Poster # 14R1100
 52. Indulkar, A. S., Gao, Y., Raina, S. A., Zhang, G.G.Z., Taylor, L.S. (2016). Reservoir Effect of Nanodroplet Phase Formed upon Liquid-Liquid Phase Separation to Achieve Enhanced and Sustained Membrane Transport of Poorly Water Soluble Drug. Presented as a poster at AAPS Annual meeting, Denver, USA, Nov 2016. Poster # 32M0230.
 53. Indulkar, A. S., Gao, Y., Raina, S. A., Zhang, G.G.Z., Taylor, L.S. (2016). Solubilization and Supersaturation of Lipophilic Drugs in the Presence of Surfactants. Presented as a poster at AAPS Annual meeting, Denver, USA, Nov 2016. Poster # 21R0930.

54. Indulkar, A. S., Gao, Y., Raina, S. A., Zhang, G.G.Z., Taylor, L.S. (2016). Impact of Monomeric vs. Micellar Surfactant on Nucleation-Induction Times of Atazanavir from Supersaturated Solutions. Presented as a poster at AAPS Annual meeting, Denver, USA, Nov 2016. Poster # 32W0230.
55. Indulkar, A. S., Gao, Y., Raina, S. A., Zhang, G.G.Z., Taylor, L.S. (2016). Reservoir Effect of Nanodroplet Phase Formed upon Liquid-Liquid Phase Separation to Achieve Enhanced and Sustained Membrane Transport of Poorly Water Soluble Drug. Presented as a poster at 51st AAPS Arden Conference, Baltimore, USA, April 2016
56. Wilson, V.R., Taylor, L.S. (2016). Enzalutamide Amorphous Solid Dispersions Create a Higher Activity Compared to Commercial SEDDS Formulation. Presented as a poster at PGSRM, Kansas City, USA. June 2016
57. Wilson, V.R., Lou, X., Gao, W., Zhang, G.G.Z., Taylor, L.S. (2016) Bioavailability Comparison of Various Amorphous Solid Dispersion Formulations of Enzalutamide. Presented as a poster at AAPS, Denver, USA. November 2016
58. Tres, F., Mohutsky, M. A., Taylor, S. L. (2016). Evaluating the Impact of a Second Compound on the Solution Thermodynamics of Poorly Water-Soluble Drugs. Presented as a poster at AAPS Annual meeting, Denver, USA, Nov 2016. Poster # 09T1100.
59. Purohit, S. H., Taylor, S. L. (2016). Interplay of amorphous-amorphous phase separation and liquid-liquid phase separation in governing the dissolution performance of ritonavir amorphous solid dispersions. Presented as a poster at Arden conference on amorphous pharmaceuticals, Baltimore, USA, April 2016.
60. Purohit, S. H., Gao, Y., Lopour, M., Zhang, G. Z. G., Taylor, S. L. (2016). Impact of crystallinity on the dissolution behavior of felodipine amorphous solid dispersions. Presented as a poster at AAPS Annual meeting, Orlando, USA, November 2016. Poster # 23R1130.
61. Purohit, S. H., Saboo, S., Su, Y., Ormes, D. J., Lamm, S. M., Mann, K. P. A., Minnihan, E., Taylor, S. L. (2016). High Resolution Analytical Methodologies to Study Drug-Polymer Miscibility in Amorphous Solid Dispersions. Presented as a poster at AAPS Annual meeting, Orlando, USA, November 2016. Poster # 13R1030.
62. Purohit, S. H., Taylor, S. L. (2016). Interplay of amorphous-amorphous phase separation and liquid-liquid phase separation in governing the dissolution performance of ritonavir amorphous solid dispersions. Presented as a poster at AAPS annual meeting, Orlando, USA, November 2016. Poster # 23M0330.
63. Purohit, S. H., Osterling, J. D., Jenkins, J. G., Stolarik, F. D., Gao, W., Gao, Y., Zhang, G. Z. G., Taylor, S. L. (2016). Effect of crystallinity on the bioavailability of marketed tacrolimus amorphous solid dispersions. Presented as a poster at AAPS annual meeting, Orlando, USA, November 2016. Poster # 06R0900.
64. Purohit, S. H., Gao, Y., Zhang, G. Z. G., Sun, D., Wen, H., Taylor, S. L. (2016). Limitations in the pharmacopeial dissolution testing of marketed tacrolimus

- amorphous solid dispersions. Presented as a poster at AAPS annual meeting, Orlando, USA, November 2016. Poster # 20R1100.
65. Alhalaweh, A., Bergström, C.A.S., Taylor, S. L. (2015). Compromised dissolution properties of multicomponent amorphous formulations. Presented as a poster at AAPS Annual meeting, Orlando, USA, Oct 2015. Poster # R6098.
 66. Alhalaweh, A., Bergström, C.A.S., Taylor, S. L. (2015). Maximum achievable supersaturation and membrane transport of amorphous drug formulations in co-administered with a crystalline drug. Presented as a poster at AAPS Annual meeting, Orlando, USA, Oct 2015. Poster # R6099
 67. Sato T. and Taylor L. S., Chiral Discrimination by a Cellulose Polymer: Differential Crystallization Inhibition of Enantiomers in Amorphous Dispersions. Presented as a poster at AAPS Annual meeting, Orlando, Fla, Oct 2015. Poster # R6094.
 68. Indulkar A. S. and Taylor L. S., pH-Dependent Liquid-Liquid Phase Separation of Highly Supersaturated Solutions of Weakly Basic Drugs. Presented as poster at Chicagoland Pharmaceutical Discussion Group, AAPS mini-symposium, Westmont, IL, May 2015.
 69. Indulkar A.S., Zhang G. G. Z., Gao Y., Raina S. A. and Taylor L. S., Impact of surfactants on amorphous solubility and degree of supersaturation. Presented as a poster at AAPS Annual meeting, Orlando, FL, Oct 2015. Poster # M1277.
 70. Indulkar A.S., Zhang G. G. Z., Gao Y., Raina S. A. and Taylor L. S., Understanding the mechanism of micellar solubilization of drugs in supersaturated systems. Presented as a poster at AAPS Annual meeting, Orlando, FL, Oct 2015. Poster # W5121.
 71. Mosquera-Giraldo, L.I., Meng, X., Dong, Y., Edgar, K.J., Taylor, L.S., Impact of chemically diverse polymers on the nucleation induction times of highly supersaturated drug solutions of telaprevir, Presented as a poster at AAPS Annual Meeting, Orlando, FL, Oct 2015. Poster # R6092
 72. Mosquera-Giraldo, L.I., Taylor, L.S., Cryo-Scanning Electron Microscopy (cryo-SEM) as an imaging technique to explore the phase behavior of highly supersaturated drug solutions, Presented as a poster at AAPS Annual Meeting, Orlando, FL, Oct 2015. Poster # R6093.
 73. Mosquera-Giraldo, L.I., Arca, H., Edgar, K.J, Taylor, L.S., Influence of Drug-Drug Miscibility on the Drug Release in a Three Component Amorphous Solid Dispersion, Presented as a poster at AAPS Annual Meeting, Orlando, FL, Oct 2015. Poster # W4223.
 74. Santiago, D., Mosquera, L., Taylor, L., Molecular Mobility As a Tool for Understanding the Impact of Polyvinylpyrrolidone (polymer) and Tpgs (surfactant) in Crystallization Kinetics of Amorphous Celecoxib, Presented as a poster at AIChE Annual Meeting: Pharmaceutical discovery, development and manufacturing forum, Salt Lake City, UT, Nov 2015. Poster # 408475
 75. Santiago, D., Mosquera, L., Taylor, L., A Rheological Study of Amorphous Celecoxib during Crystallization from the Undercooled Melt State, Presented as a poster at AAPS Annual Meeting, Orlando, FL, Oct 2015. Poster # T2033
 76. Trasi N. S. and Taylor L. S., Phase behavior of binary poorly water soluble solutes in highly supersaturated solutions, Presented as a poster at AAPS Annual meeting, Orlando, FL, Oct 2015. Poster # M1250.

77. Trasi N. S. and Taylor L. S., Solubility and dissolution of binary co-amorphous ritonavir-lopinavir solid dispersions, Presented as a poster at AAPS Annual meeting, Orlando, FL, Oct 2015. Poster # M1251
78. Trasi N. S. and Taylor L. S., Dissolution behavior and solubility of marketed amorphous solid dispersions of Tacrolimus, Presented as a poster at AAPS Annual meeting, Orlando, FL, Oct 2015. Poster # M1252
79. Trasi N. S. and Taylor L. S., Stability of marketed Tacrolimus amorphous dispersions against crystallization, Presented as a poster at AAPS Annual meeting, Orlando, FL, Oct 2015. Poster # M1253
80. Purohit H. S. and Taylor L. S., Assessing the impact of processing conditions on the microstructure of amorphous solid dispersions. Presented as a poster at NSF Site visit, Engineering Research Center. New Jersey Institute of Technology, NJ, April 2015.
81. Purohit H. S. and Taylor L. S., Miscibility of itraconazole-hydroxypropyl methylcellulose blends revisited- insights with high resolution analytical methodologies. Presented as a poster at Chicagoland Pharmaceutical Discussion Group symposium, Westmont, IL, May 2015.
82. Purohit H. S. and Taylor L. S., Impact of polymer type and drug loading on the supersaturation behavior of amorphous solid dispersions. Presented as a poster at AAPS Annual meeting, Orlando, FA, Oct 2015. Poster # W5126 .
83. Purohit H. S. and Taylor L. S., Phase separation in amorphous solid dispersions during hydration and dissolution. Presented as a poster at AAPS Annual meeting, Orlando, FA, Oct 2015. Poster # W5127.
84. Li, N., Ormes, J. D., Taylor, L. S., Leaching of components from lopinavir-enteric polymer amorphous solid disperisons in acidic media. Presented as a poster at AAPS Annual meeting, Orlando, FL, Oct 2015. Poster #M1231.
85. Li, N., Ormes, J. D., Taylor, L. S., Bile salts have different abilities to inhibit crystallization in supersaturated aqueous solutions of poorly water-soluble compounds. Presented as a poster at AAPS Annual meeting, Orlando, FL, Oct 2015. Poster #M1232.
86. 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.
87. 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.
88. 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.
89. 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
90. 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
91. 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.
 92. 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
 93. 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
 94. 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
 95. 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
 96. 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
 97. 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
 98. 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
 99. 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
 100. 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
 101. 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
102. 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.
 103. 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
 104. 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.
 105. 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.
 106. 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.
 107. 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.
 108. 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
 109. 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
 110. 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.

111. 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.
112. 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.
113. 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.
114. 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
115. 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
116. 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
117. 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
118. 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.
119. 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.
120. 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.

121. 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.
122. 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.
123. 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.
124. 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.
125. 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.
126. 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.
127. 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
128. 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
129. 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
130. 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
131. 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.

132. 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.
133. 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
134. 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
135. 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.
136. 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.
137. 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.
138. 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.
139. 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.
140. 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.
141. 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.

142. 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.
143. 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.
144. 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.
145. 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.
146. 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.
147. 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.
148. 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.
149. 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.
150. 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.
151. 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.

152. 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.
153. 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.
154. 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.
155. 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.
156. 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.
157. 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
158. 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
159. 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
160. 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.
161. 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.
162. 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.

163. 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
164. 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
165. 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.
166. 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
167. 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
168. 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
169. 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
170. 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.
171. 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.
172. Alonzo, D., Zhang, G., Zhou, D., Yi G., Taylor, L.S. Crystallization Behavior of Amorphous Pharmaceuticals During Dissolution. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Los Angeles, CA, November 2009, Abstract W4344.
173. Alonzo, D., Zhang, G., Zhou, D., Yi G., Taylor, L.S. Dissolution Behavior of Amorphous Pharmaceuticals in the Presence and Absence of Polymers. Presented as a

- poster at the American Association of Pharmaceutical Scientists Annual Meeting, Los Angeles, CA, November 2009, Abstract W4343.
174. Alonzo, D., Zhang, G., Zhou, D., Yi G., Taylor, L.S. Enhanced Dissolution of Solid Dispersions with Low Drug Loading. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Los Angeles, CA, November 2009, Abstract W4342.
 175. Zhu Q., Taylor, L.S., Harris M.T., Solid-state structure of drug/polyethylene glycol dispersions. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Los Angeles, CA, November 2009, Abstract 1204.
 176. Konno H, Handa T, Alonzo D, Taylor L.S. Effect of Polymers on Dissolution of Solid Dispersion Particles. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Los Angeles, November 2009, Abstract T3343.
 177. L. J. Mauer, J. Ortiz, U. Kestur, L. S. Taylor. 2009. Relationship between catechin stability and moisture-induced phase transformations in powdered green tea formulations. Institute of Food Technologists' Annual Meeting and Food Expo. Anaheim, CA.
 178. A. Hiatt, L.S. Taylor, L.J. Mauer. 2009. Influence of different vitamin forms on deliquescence behavior and chemical stability of vitamin C. Institute of Food Technologists' Annual Meeting and Food Expo. Anaheim, CA.
 179. A. M. Stoklosa, D. E. Nivens, L.S. Taylor, L. J. Mauer. 2009. Atomic force microscopy investigation of deliquescence lowering induced by capillary condensation in binary crystalline mixtures. Institute of Food Technologists' Annual Meeting and Food Expo. Anaheim, CA.
 180. L.J. Mauer and L.S. Taylor. 2009. Fundamentals, consequences, and effects of deliquescence in multicomponent systems. USDA-NRI Project Directors Meeting. Anaheim, CA.
 181. K. Kwok, L.J. Mauer and L.S. Taylor. 2009. Deliquescence of pharmaceutical and food ingredients: The relationship between relative humidity and surface properties of single and binary systems. Institute of Food Technologists' Annual Meeting and Food Expo. Anaheim, CA.
 182. K. Kwok, L.J. Mauer and L.S. Taylor. 2009. Deliquescence of pharmaceutical and food ingredients: The effect of relative humidity on the chemical stability of the sucrose-citric acid system. Institute of Food Technologists' Annual Meeting and Food Expo. Anaheim, CA.
 183. K. Kwok, L.J. Mauer and L.S. Taylor. 2009. Deliquescence of pharmaceutical and food ingredients: Phase transition of model systems and moisture sorption studies. Institute of Food Technologists' Annual Meeting and Food Expo. Anaheim, CA.
 184. 12. M. Loewen, A. Hiatt, L.S. Taylor, L.J. Mauer. 2009. Influence of deliquescence, formulation, and storage conditions on stability of vitamin C in commercially available supplement powders. Institute of Food Technologists' Annual Meeting and Food Expo. Anaheim, CA.

185. Kwok, K., Mauer, L. J., and Taylor, L. S. Deliquescence of pharmaceutical and food ingredients: Phase transition of model systems and moisture sorption studies. Presented as a poster (PHYS 328) at the American Chemical Society National Meeting, Salt Lake City, UT, March 2009.
186. Kwok, K., Mauer, L. J., and 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 (PHYS 329) at the American Chemical Society National Meeting, Salt Lake City, UT, March 2009.
187. Kwok, K., Stoklosa, A. M., Nivens, D. E., Mauer, L. J., and Taylor, L. S. Deliquescence of pharmaceutical and food ingredients: The relationship between relative humidity and surface properties of single and binary systems. Presented as a poster (COLL 239) at the American Chemical Society National Meeting, Salt Lake City, UT, March 2009.
188. Baird J., Taylor, L.S. Eutectic Point of Drug-Polyethylene Glycol Solid Dispersions: Feasibility of Semi-Empirical Model in Predicting Eutectic Point. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Atlanta, GA, November 2008, Abstract T3190.
189. Baird J., Taylor, L.S. Polyethylene Glycol Characterization: Effect of Molecular Weight on Deliquescence Relative Humidity. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Atlanta, GA, November 2008, Abstract T3189.
190. Guerrieri P., Zemlyanov D. and Taylor, L.S. Probing the State of Water on the Surface of Pharmaceutical Salts by X-ray Photoelectron Spectroscopy. Presented as a poster at the American Association of Pharmaceutical Scientists Annual Meeting, Atlanta, 2008, Abstract T3202.
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