

## Posters Presented Relating to GDUFA Science and Research in Fiscal Year 2020

1. Ajjarapu, S., Rangappa, S., Ghosh, P., Kelchen, M., Raney, S., Repka, M., Maibach, H., and Murthy, S. *Understanding the Impact of Metamorphosis of Topical Formulations on Bioavailability*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 4, 2019.
2. Alam, K., Sharan, S., Fang, L., Jiang, W., Kim, K.J., Zhao, L., Zhang, L.K., and Lionberger, R. *Assessing Whether Partial AUCs are Needed to Demonstrate Bioequivalence for Liposomal Doxorubicin*. Poster Presentation at 2020 American College of Clinical Pharmacy (ACCP) Annual Meeting. Virtual Meeting, Sept. 21-23, 2020.
3. Arora S, Patel N, Polak S, Jamei M, Tsakalozou E, Ghosh P, Alam K, Liu X, Namjoshi S, Grice J, Mohammed Y, Roberts M. *Simulating the Effect of Propylene Glycol on Acyclovir (Zovirax® Cream, 5%) Permeation Across the Skin Using a Physiologically Based Pharmacokinetic (PBPK) Model of In Vitro Flow-through Skin Permeation*. Poster Presentation at Controlled Release Society (CRS) Annual Meeting. Virtual Meeting, Jun. 29 – Jul. 2, 2020.
4. Bae, J., Patel, M., Manna, S., Smith, W., Vo, A., Wang, Y., Choi, S., Kozak, D., Zheng, J., and Xu, X. *Impact of Manufacturing Process on Critical Quality Attributes of Multivesicular Liposomes*. Poster Presentation at 2020 Controlled Release Society (CRS) Annual Meeting. Virtual Meeting, Jun. 29-Jul. 2, 2020.
5. Bae, J., Patel, M., Manna, S., Smith, W., Vo, A., Wang, Y., Choi, S., Kozak, D., Zheng, J., and Xu, X. *Impact of Manufacturing Process on Critical Quality Attributes of Multivesicular Liposomes*. Poster Presentation at 2020 Controlled Release Society (CRS) Annual Meeting. Virtual Meeting, Jun. 29-Jul. 2, 2020.
6. Bao, Q., Zou, Y., Wang, Y., Choi, S., and Burgess D. *Impact of Device Dimensions on the In Vitro Release from Intrauterine Systems*. Poster Presentation at 2020 Controlled Release Society (CRS) Annual Meeting. Virtual Meeting, Jun. 29-Jul. 2, 2020.
7. Bao, Q., Zou, Y., Wang, Y., Choi, S., Kozak, D., and Burgess, D. *Source Variation of Outer Membranes on Drug Release from Intrauterine Systems*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 3, 2019.
8. Beig, A., Ackermann, R., Jiang, X., Wang, Y., and Schwendeman, S. *Preparation of Long-Acting Release Microspheres for Octreotide LAR Using Formulation Techniques to Control the Release Kinetics*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 5, 2019.
9. Bielski, E., Conti D., Oguntimein O., Sheth, P., Hallinger, M., Svensson, M., Sandell, D., Bulitta, J., Hochhaus, G. *The Effects of Formulation Factors and Actuator Design on Mometasone Furoate Metered Dose Inhaler In Vitro Aerosolization Performance*. Poster Presentation at Digital Respiratory Drug Delivery (RDD) 2020 Conference. Virtual Meeting, Apr. 26, 2020.
10. Bielski, E., Conti, D., Oguntimein, O., Sheth, P., Hallinger, M., Svensson, M., Sandell, D., Bulitta, J., and Hochhaus, G. *The Effects of Mometasone Furoate Formulation Factors and Actuator Design on Metered Dose Inhaler (MDI) Performance*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 4, 2019.
11. Boc, S., Conti, D., Chen, M., Jiao, Y., Kurumaddali, A., Oguntimein, O., Delvadia, R., Saluja, B., Lee, S., Shur, J., Price, R., Hindle, M., Bulitta, J., and Hochhaus, G. *Investigation of Pharmacokinetic Sensitivity*

- to Lung Deposition of Locally-Acting Orally Inhaled Drug Products*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 Pharmsci 360. San Antonio, TX, Nov. 4, 2019.
12. Boc, S., Conti, D., Chen, M., Jiao, Y., Kurumaddali, A., Oguntimein, O., Delvadia, R., Saluja, B., Lee, S., Shur, J., Price, R., Hindle, M., Bulitta, J., and Hochhaus, G. *Investigation of Pharmacokinetic Sensitivity to Lung Deposition of Locally-Acting Orally Inhaled Drug Products*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 Pharmsci 360. San Antonio, TX, Nov. 4, 2019.
  13. Boyce, H., Sun, D., Kinjo, M., Raofi, S., Frost, M., Luke, M., Kim, M-J., Lionberger, R., Vince, B., Kelsh, D., and Li, Z. *Pharmacokinetic Study of Physically Manipulated Oxycodone Hydrochloride Products Following Nasal Insufflation in Recreational Opioid Users*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 Pharmsci 360. San Antonio, TX, Nov 6, 2019.
  14. Chan, T., Ren, P., Yang, W., Wang, Y., Luke, M., Jiang, X., and Zhang, Y. *Excipient Similarity in Generic Formulations Containing Biopharmaceutics Classification System 3 Drugs*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 Pharmsci 360. San Antonio, TX, Nov. 4, 2019.
  15. Dhapare, S., Bielski, E., Conti, D., Oguntimein, O., Sheth, P., Hallinger, M., Svensson, M., Sandell, D., Bulitta, J., and Hochhaus, G. *Effects of Formulation and Actuator Design on Spray Pattern and Plume Geometry of Mometasone Furoate Metered Dose Inhalers*. Poster Presentation at Respiratory Drug Delivery (RDD) 2020 Conference. Virtual Meeting, Apr. 26, 2020.
  16. Dong, Y., Hengst, L., Hunt, R., Patel, D., Vo, A., Choi, S., Ashraf, M., Cruz, C., and Xu, X. *Understanding Drug Distribution and Release in Ophthalmic Emulsions*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 Pharmsci 360. San Antonio, TX, Nov. 4, 2019.
  17. Feng, W., Wu, Y., Chen, L., Qu, H., Patel, D., Xu, X., Manna, S., Choi, S., and Zheng, J. *Effect of Manufacturing Process on Particle Morphology in Propofol Emulsions*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 Pharmsci 360. Washington, DC, Nov. 4, 2019.
  18. Feng, X., Jiang, W., Xu, X., Ashraf, M, and Cruz, C. *Impact of Milling Process on the Evaluation of Abuse-Deterrent Formulations*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) Pharmsci 360. San Antonio, TX, Nov 3, 2019.
  19. Gao, Z., Patel, S., Li, M., Tang, F., Harris, B., Toth, R., Choi, S., and Rodriguez, J. *Dissolution Testing of Diltiazem HCl Extended-Release Capsule Products*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 Pharmsci 360. San Antonio, TX, Nov. 5, 2019.
  20. Garner, J, Hadar, J., Skidmore, S., Jessmon, F., Park, H., Park, K., Wang, Y., Qin, B., and Jhon, Y. *Effect of Solvent Isomeric Structures on the Dissolution of PLGAs with Different Lactide:Glycolide (L:G) Ratios*. Poster Presentation at 2020 Controlled Release Society (CRS) Annual Meeting. Virtual Meeting, Jun. 29-Jul. 2, 2020.
  21. Garner, J., Hadar, J., Skidmore, S., Jessmon, F., Park, H., Park, K., Wang, Y., Qin, B., and Jhon, Y. *Use of Optical-Laser-Scanning (OLS) Microscope to Assay Microparticle Morphological Changes*. Poster Presentation at 2020 Controlled Release Society (CRS) Annual Meeting. Virtual Meeting, Jun. 29-Jul. 2, 2020.
  22. Hakeem, S., Huang, Y.-C., Zhang, L., and Jiang, W. *Evaluation of U.S. FDA Approved Generic Oral Solution Products*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 Pharmsci 360. San Antonio, TX, Nov. 3, 2019.

23. Holtgrewe, N., Reed, N., Kaviratna, A., Rodriguez, J., Guo, C. *Evaluation of the Fast Screening Impactor with Dry Powder Inhalers*. Poster Presentation at Respiratory Drug Delivery (RDD) 2020 Conference. Virtual Meeting, Apr. 26, 2020.
24. Hsu, H., Pavuluri, V., Y., Y., Abraham, C., Narahariseti, S., Ashraf, M., and Al-Ghabeish, M. *Formulation Challenges Facing Naloxone Intranasal Solution*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2020 PharmSci 360. San Antonio, TX, Nov. 4, 2019.
25. Hsu, H., Xu, X., Yang, Y., Balajee, V., Ashraf, M., and Al-Ghabeish, M. *In Vitro Assessments of Nasal Discomfort Caused by Abuse Deterrent Formulations*. Poster Presentation at AAPS PharmSci 360. San Antonio, TX, Nov 4, 2019.
26. Kamal, N., Ibrahim, S., Cruz, C., Ashraf, M., and Zidan, A. *Development of a Novel In Vitro Model to Predict Risk of Skin-to-Skin Drug Transfer During Transdermal Hormonal Replacement Therapy*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 4, 2019.
27. Kelchen, M., Ghosh, P., Ramezanli, T., and Raney, S. *Strategic Analysis of the Roadmap for Implementing Characterization-Based Bioequivalence Approaches in Product-Specific Guidances for Generic Topical Dermatological Drug Products*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 4, 2019.
28. Kohno, M., Andhariya, J., Rothstein, S., Wang, Y., Qin, B., and Burgess, D. *The Effect of PLGA Molecular Weight on Drug Release from Microspheres*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 4, 2019.
29. Kolanjiyil, A., Hosseini, S., Manniello, M., Alfaifi, A., Farkas, D., Golshahi, L., and Longest, W. *Effect of Spray Momentum on Nasal Spray Droplet Transport and Deposition*. Poster Presentation at Digital Respiratory Drug Delivery (RDD) 2020 Conference. Virtual Meeting, Apr. 26, 2020.
30. Kurumaddali, A., Amini, E., Drescher, S., Chen, M., Bulitta, J., and Hochhaus, G. *A Semi-Physiological Approach for Evaluating the Sensitivity of Pharmacokinetics to Detect Differences in Regional Lung Deposition of Orally-Inhaled Drug Products (OIDPs)*. Poster Presentation at American College of Clinical Pharmacy (ACCP) 2019 Annual Meeting. New York City, NY, Oct. 26, 2019.
31. Kuzma, B., Senemar, S., Ramezanli, T., Ghosh, P., Raney, S., and Stagni, G. *Estimation of In Vivo Percutaneous Permeation (Flux) and Cumulative Amount Input of Metronidazole Formulations in Mini-Pigs' Dermis*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 5, 2019.
32. Li, M., Gao, Z., Tang, F., Choi, S., Toth, R., and Rodriguez, J. *Assessment of the Impact of Drug Dissolution on Pharmacokinetics of Diltiazem Extended Release Drug Products Using Physiologically Based Pharmacokinetic Analysis*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 4, 2019.
33. Li, S., Zhang, D., Kozak, D., and Jiang, X. *Review of Advanced Analytical Methods in Complex Polymeric Drug Substance Characterization*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 4, 2019.
34. Liang, J., Wang, Y., Qin, B., Zhou, J., Schwendeman, S., and Zheng, J. *Micro-Imaging and Microanalysis of PLGA Complex Drug Products by Scanning Electron Microscopy (SEM)*. Poster Presentation at Microscopy & Microanalysis (M&M) 2020 Annual Meeting. Virtual Meeting, Aug. 6, 2020.
35. Liu, H., Suh, M., Kozak, D., and Pang, E. *Evaluation of Quantitative Capsule Rupture Test Methods and Data Variability in Generic Omega-3 Capsule Applications*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 3, 2019.

36. Manniello, M., Hosseini, S., Hindle, M., Schuman, T., Longest, W., Sandell, D., and Golshahi, L. *In Vitro Investigation of Regional Nasal Drug Delivery Using Two Glucocorticoid Nasal Spray Products and Twenty Anatomical Nasal Replicas*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 Pharmsci 360. San Antonio, TX, Nov. 7, 2019.
37. Miao, L., Wu, F., Moldthan, H., Xu, D., Zhao, L., Raines, K., and Seo, P. *Application of Physiologically-Based Pharmacokinetic Absorption Modeling and Simulations for Biopharmaceutics: Risk Assessment and Control of Critical Quality Attributes for Medical Countermeasure Drug Products*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 Pharmsci 360. San Antonio, TX, Nov. 4, 2019.
38. Miao, L., Wu, F., Yang, X., Ramamoorthy, A., Lee, S., Raines, K., Zhang, L., and Seo, P. *Application of Dissolution Profile Comparison for Gastric pH-Dependent Drug-Drug Interaction Prediction*. Poster Presentation at American College of Clinical Pharmacy (ACCP) 2019 Annual Meeting. New York City, NY, Oct. 26, 2019.
39. Miao, L., Wu, F., Zhao, L., Raines, K., and Seo, P. *Using a Physiologically-Based Pharmacokinetic Absorption Model for Biopharmaceutics to Establish Clinically Relevant Dissolution Safe Space for Oseltamivir in Adult and Pediatric Populations*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 Pharmsci 360. San Antonio, TX, Nov. 4, 2019.
40. Mohamed, L. A., Kamal, N., Elfakhri, K. H., Willett, D., Wokovich, A., Strasinger, C., Raney, S. G., Ashraf, M., and Zidan, A. S. *More Than Just Pretty Snowflakes: Impact of Drug Crystals on the In Vitro Performance of TDS*. Poster Presentation at 2020 Controlled Release Society (CRS) Annual Meeting. Virtual Meeting, Jun. 29-Jul. 2, 2020.
41. Mohammed, Y., Dabbaghi, M., Namjoshi, S., Telaprolu, K., Rantou, E., Ramezanli, T., Raney, S., Grice, J., and Roberts, M. *Effects of Microstructure on Lidocaine-Prilocaine Topical Product Performance*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 6, 2019
42. Nahid S. Kamal, Sarah Ibrahim, Celia N. Cruz, Muhammad Ashraf, Ahmed S. Zidan, *Development of a novel in vitro model to predict risk of skin-to-skin drug transfer during transdermal hormonal replacement therapy*. Poster Presentation at 2020 Controlled Release Society (CRS) Annual Meeting. Virtual Meeting, Jun. 29 – Jul. 2, 2020.
43. Namjoshi, S., Telaprolu, K., Grice, J., Benson, H., Raney, S., Roberts, M., and Mohammed, Y. *Effect of "In use" Administration on Topical Product Metamorphosis and Skin Permeation of Acyclovir Creams: Implications for Bioequivalence Testing*. Poster Presentation at Controlled Release Society (CRS) Australian Chapter/Drug Delivery Australia 2019 Conference. Brisbane, Australia, Nov. 18, 2019.
44. Patel, M., Bae, J., Manna, S., Smith, W., Vo, A., Wang, Y., Choi, S., Kozak, D., Xu, X. and Zheng J. *Confocal Laser Scanning Microscopy to Study the Effect of Manufacturing Process on the Critical Quality Attributes of Multivesicular Liposomes*. Poster Presentation at Microscopy & Microanalysis (M&M) 2020 Annual Meeting. Virtual Meeting, Aug. 3-7, 2020.
45. Patel, M., Manna, S., Vo, A., Xu, X., Conti, D., Choi, S., Kozak, D., Zheng, J. *Scanning Electron Microscope (SEM) Coupled with Energy Dispersive X-Ray Spectroscopy (EDS)- A Potential Analytical Tool for Physico-Chemical Characterization of API in Complex Drug Formulations*. Poster Presentation at Microscopy & Microanalysis (M&M) 2020 Annual Meeting. Virtual Meeting. Aug. 02, 2020.
46. Pawar, G., Wu, F., Zhao, L., Fang, L., Burckart, G., Feng, K., Mousa, Y., Naumann, F., and Batchelor, H. *Development of a Database Containing Clinical Data on Bioequivalence and Relative Bioavailability Studies Conducted in Pediatric Populations*. Poster Presentation at European Pediatric Formulation Initiative Conference 2020. Virtual Meeting. Sept. 9, 2020.

47. Puttrevu, S., Arora, S., Polak, S., and Patel, N. *Evaluation of Methamphetamine and Amphetamine Disposition Discrepancy Upon Selegiline Transdermal Patch Administration in Healthy Volunteers Versus Special Populations Using PBPK Modelling*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 4, 2019.
48. Rangappa, S., Ajarapu, S., Ghosh, P., Kelchen, M., Raney, S., Repka, M., Maibach, H., and Murthy, N. *Influence of Relative Humidity on Time to Break Analysis of Pharmaceutical Foams*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 4, 2019.
49. Sandell, D., Svensson, M., Conti D., Sheth, P., Oguntimein, O., Bielski, E., Bulitta, J., Hochhaus, G. *Coating Stages of Next Generation Impactor (NGI) When Testing Metered Dose Inhalers (MDIs) – A Comparative Study on US Commercial MDI Products*. Poster Presentation at Respiratory Drug Delivery (RDD) 2020 Conference. Virtual Meeting, Apr. 26, 2020.
50. Schutzman, R., Shi, N., and Schwendeman, S. *In Vitro Characterization of Initial Burst Release in Leuprolide-Loaded Poly(Lactic-Co-Glycolic Acid) Microspheres*. Poster Presentation at 2020 Controlled Release Society (CRS) Annual Meeting. Virtual Meeting, Jun. 29-Jul. 2, 2020.
51. Senemar, S., Kuzma, B., Ramezanli, T., Ghosh, P., Raney, S., and Stagni, G. *Evaluating the Bioequivalence of Topical Dermatological Drug Products Containing Metronidazole Using Dermal Microdialysis: Preliminary Studies in Rabbits*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 4, 2019.
52. Shukla, S., Thomas, S., Hammell, D., Bunge, A., Hassan, H., and Stinchcomb, A. *Impact of Operator Variability on the Reproducibility of Tape Stripping Results*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 5, 2019.
53. Smith, W., Bae, J., Vo, A., Wang, Y., Qin, B., Kozak, D., and Xu, X. *Influence of Polymeric Excipients on the Precision of Particle Size Distribution Measurements of Suspensions Using Laser Diffraction*. Poster Presentation at 2020 Controlled Release Society (CRS) Annual Meeting. Virtual Meeting, Jun. 29-Jul. 2, 2020.
54. Sung, J., San Emeterio, C., Hosain, S., Knapton, A., Pang, E., and Howard, K. *A Non-Clinical Animal Model to Predict Therapeutic Peptide and Biological Drug Product Immunogenicity*. Poster Presentation at 2019 American College of Toxicology. Pheonix, AZ, Nov. 17, 2019.
55. Tabosa, M., Vitry, P., Belsey, N., Tsikritsis, D., Woodman, T., Bunge, A., Delgado-Charro, M., and Guy, R. *Raman Spectroscopic Assessment of Topical Drug Bioavailability in the Skin*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 4, 2019.
56. Thomas, S., Hammell, D., Hassan, H., and Stinchcomb, A. *A Pharmacokinetic Study of Two Oxybutynin Transdermal Formulations with Transient Heat Exposure*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 5, 2019.
57. Tiffner, K., Birngruber, T., Schwagerle, G., Ramezanli, T., Bodenlenz, M., Lackner, B., Thomas, A., Raml, R., Kanfer, I., Raney, S., and Sinner, F. *A Clinical Study Design to Evaluate Whether the Systemic Bioavailability of Topical Drugs May Influence the Assessment of Local Dermal Pharmacokinetics by Dermal Open Flow Microperfusion (dOFM)*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 4, 2019.
58. Van Osdol W, Dong J and Spires J. *Simulating the Dermal Permeation of Clobetasol-17 Propionate from a Topical Formulation*. Poster Presentation at 2020 Controlled Release Society (CRS) Annual Meeting. Virtual Meeting, Jun. 29 – Jul. 2, 2020.
59. Varadarajan, A., Ajarapu, S., Rangappa, S., Ghosh, P., Raney, S., Maibach, H., Repka, M., Murthy, S.,

- and Kundu, S. *Rheological Characterization of Topical Pharmaceutical Foam Products*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 4, 2019.
60. Vo, A., Feng, X., Kozak, D., Choi, S., and Xu, X. *Pitfalls and Challenges of Analyzing Particle Size Distribution in Ophthalmic Suspensions Using Laser Diffraction*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 3, 2019.
61. Vo, A., Feng, X., Patel, D., Patel, M., Kozak, D., Choi, S., Zheng, J., and X, X. *Impact of Manufacturing Processes on Critical Quality Attributes of Brinzolamide Ophthalmic Suspensions*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 3, 2019.
62. Wan, B., Andhariya, J., Bao, Q., Wang, Y., Choi, S., Zou, Y., and Burgess D. *Effect of Polymer Source Variation on In Vitro Drug Release and Degradation of Peptide Loaded Microspheres*. Poster Presentation at 2020 Controlled Release Society (CRS) Annual Meeting. Virtual Meeting, Jun. 29-Jul. 2, 2020.
63. Wan, B., Andhariya, J., Wang, Y., Choi, S., Zou, Y., and Burgess, D. *Effect of Polymer Source Variation on In Vitro Drug Release of Leuprolide Acetate Microspheres*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 3, 2019.
64. Weisz, D., Geerlof-Vidavsky, I., Zeng, K., Jiang, X., and Pang, E. *Quantitative Comparison of Peptide Impurities in Teriparatide from Biological and Synthetic Origin Using LC-MS/MS*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 4, 2019.
65. Zhang, Q., Ghosh, P., Rantou, E., Raney, S., Hammell, D., and Stinchcomb, A. *Evaluation of Metronidazole Bioavailability from Dermal Products Using an In Vitro Permeation Test (IVPT) Across Human Skin*. Poster Presentation at American Association of Pharmaceutical Scientists (AAPS) 2019 PharmSci 360. San Antonio, TX, Nov. 4, 2019.
66. Zou, L., Spanogiannopoulos, P., Chien, H., Pieper, L., Cai, W., Khuri, N., Pottel, J., Vora, B., Ni, Z., Tsakalozou, E., Zhang, W., Shoichet, B., Turnbaugh, P., and Giacomini, K. *Bacterial Metabolism Rescues the Inhibition of Intestinal Drug Absorption by Food and Drug Additives*. Poster Presentation at 2020 Innovations in Regulatory Science Summit. San Francisco, CA, Jan. 12, 2020.