

## Posters Relating to GDUFA Science and Research in Fiscal Year 2022

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1. Abdallah I, Gabal Y, Boyce H, Zhu J, and Kim M. *A Retrospective Analysis of Pharmacokinetic Variability Between Fasting and Fasting-Sprinkle Bioequivalence Studies of Generic Modified-Release Drug Products: A Case Study on Esomeprazole Magnesium*. Poster Presentation at the American Society for Clinical Pharmacology and Therapeutics (ASCPT) 2022 Annual Meeting. Virtual Meeting, Mar. 16, 2022.
2. Ahmed S, Yilmaz H, and Willett D. *Comparative Study of Cryofixation Methods on Size and Morphology of Nanoparticle Albumin Paclitaxel (NAP) via cryogenic Scanning Electron Microscopy (Cryo-SEM)*. Poster Presentation at the Great Scientific Exchange (SCIX) 2021. Virtual Meeting, Oct. 01, 2021.
3. Ahmed S, Yilmaz H, and Willett D. *Simultaneous cryogenic Scanning Electron Microscopy (Cryo-SEM) and Raman Analysis for Characterization of Nanomedicine*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, Pennsylvania, Oct. 17, 2021.
4. Alam K, Tsakalozou E, Babiskin A, Ghosh P, Ramezanli T, Jiang Y, Niu M, and Zhao L. *Does Vehicle Evaporation Affect Drug Distribution within Different Phases of Topically Applied Emulsion? A Modeling Case Study with Clindamycin Phosphate Lotion*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, PA, Oct. 17, 2021.
5. Belsey N, Tsikritsis D, Zarnpi P, Tyagi V, Maciel-Tabosa A, Vorng J, Dexter A, Delgado-Charro M, and Guy R. *Characterization of Topical Products and Their Fate Post-application with Label-free Chemical Imaging*. Poster Presentation at the 17th International Perspectives in Percutaneous Penetration Conference (PPP2022). La Grande Motte, France, Apr. 19, 2022.
6. Berger S, Amini E, and Hochhaus G. *Dissolution Testing for Supporting Bioequivalence Assessment of Nasal Suspensions*. Poster Presentation at the 2021 American College of Clinical Pharmacology (ACCP) Annual Meeting. Phoenix, Arizona, Oct. 19, 2021.
7. Bodenlenz M, Augustin T, Birngruber T, Tiffner K, Raml R, and Sinner F. *Dermal OFM Indicates Differences in Acyclovir Skin Penetration between Males and Females*. Poster Presentation at the 17th International Perspectives in Percutaneous Penetration Conference (PPP2022). La Grande Motte, France, Apr. 20, 2022.
8. Chakma M, Meah S, Biddiscombe M, Murnane D, Bielski E, Feibus K, Natarajan K, Li K, Kinoj M, Illoh O, Han L, Newman B, and Usmani O. *Dry Powder Inhaler (DPI) Resistance: Human Behaviour and Psychology of Patient Inspiratory Effort*. Poster Presentation at the European Respiratory Society 2022. Barcelona, Spain, Sep. 05, 2022.
9. Chen B, Costello M, Kuehster L, Lynd N, Qin B, Wang Y, and Zhang F. *Investigation of the Thermal Stability and Hydrolytic Degradation Kinetics of Poly(lactide-co-glycolide) Melts*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, PA, Oct. 17, 2021.
10. Cheng Y, Wu F, Yoon M, Fang L, and Zhao L. *Utilizing Physiologically Based Pharmacokinetic Modeling and Virtual Simulation to Evaluate the Sensitivity of Using Parent vs Metabolite as*

*Analytes on Bioequivalence Assessment for Simvastatin*. Poster Presentation at the 2022 American College of Clinical Pharmacology (ACCP) Annual Meeting. North Bethesda, Maryland, Sep. 25, 2022.

11. Clark A, Wang R, Burgess D, and Zhang S. *Assessing the Impact of Formulation on Microstructure Critical Quality Attributes in PLGA Microspheres*. Poster Presentation at the Controlled Release Society (CRS) 2022 Annual Meeting. Montreal, Canada, Jul. 11, 2022.
12. Clark A, Wang R, Wang Y, Qin B, Zhu A, Bao Q, Lomeo J, Burgess D, and Zhang S. *PLGA Microsphere Formulation Development Guided by Microstructure Equivalence Assessment Using FIB-SEM Imaging and AI Image Analytics*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, PA, Oct. 18, 2021.
13. Costello M, Zhang F, Liu J, Wang Y, and Qin B. *Manufacture and Process Control of Dexamethasone Intravitreal Implants Produced by Hot Melt Extrusion*. Poster Presentation at the Controlled Release Society (CRS) 2022 Annual Meeting. Montreal, Canada, Jul. 13, 2022.
14. Dhapare S, Murphy S, Sandell D, Winner L, Sheth P, Hallinger M, Svensson M, Conti D, Oguntimein M, Bulitta J, and Hochhaus G. *Effects of Formulation and Actuator Design on Spray Velocity of Mometasone Furoate Metered Dose Inhalers*. Poster Presentation at the Respiratory Drug Delivery (RDD) 2022. Orlando, Florida, May. 02, 2022.
15. Dutta R, Kolanjiyil A, Golshahi L, and Longest W. *Development of a CFD PK Nasal Spray Model with In Vivo Human Subject Validation*. Poster Presentation at the Respiratory Drug Delivery (RDD) 2022. Orlando, Florida, May. 02, 2022.
16. Esmaeili A, Hosseini S, Wilkins J, Alfaifi A, Dhapare S, Walenga R, Newman B, Schuman T, Edwards D, Longest W, Hindle M, and Golshahi L. *In Vitro Evaluation of Regional Drug Deposition in Nasal Airways of Children Using Realistic Anatomical Replicas*. Poster Presentation at the Respiratory Drug Delivery (RDD) 2022. Orlando, Florida, May. 01, 2022.
17. Fpanse S, Bao Q, Zou Y, Wang Y, and Burges D. *Effect of Polymer Crosslinking on Release Mechanisms from Long-acting Intrauterine Systems*. Poster Presentation at the Controlled Release Society (CRS) 2022 Annual Meeting. Montreal, Canada, Jul. 11, 2022.
18. Fpanse S, Bao Q, Zou Y, Wang Y, and Burgess D. *Impact of Polymer Crosslinking on the Properties and Performance of Levonorgestrel Intrauterine Systems*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, PA, Oct. 17, 2021.
19. Gabal Y, Boyce H, Sun W, Al Ghabeish M, Ibrahim A, Hollenbeck G, Hoag S, Mostofa A, and Kim M. *Preparation and Characterization of Physically Manipulated Abuse-Deterrent Formulation of an Opioid Product Prepared for Nasal Insufflation Studies*. Poster Presentation at the American Society for Clinical Pharmacology and Therapeutics (ASCPT) 2022 Annual Meeting. Virtual Meeting, Mar. 16, 2022.
20. Gabal Y, Boyce H, Sun W, Al Ghabeish M, Ibrahim A, Hollenbeck G, Hoag S, Mostofa A, and Kim M. *Preparation and Characterization of Physically Manipulated Abuse-Deterrent Formulation of an Opioid Product Prepared for Nasal Insufflation Studies*. Poster Presentation at the Generic Drug Science Day(GDSD) 2021. Virtual Meeting, Dec. 09, 2021.
21. Gamage P, Yurtsever F, Jiang W, and Mudalige T. *Novel Drug Release Profiling Method for Albumin-Bound Paclitaxel Nanoparticle Drug Products*. Poster Presentation at the 5th FDA/PQRI Conference

on Advancing Product Quality: Advancing Quality Technology of Future Pharmaceuticals. Virtual Meeting, Dec. 01, 2021.

22. Garner J, Hadar J, Skidmore S, Jessmon F, Park H, Park K, Qin B, Jhon Y, and Wang Y. *Morphological Analysis of Naltrexone-Poly(lactide-co-glycolide) (NTX-PLGA) Microparticles: Dynamic Role of Naltrexone on PLGA Degradation*. Poster Presentation at the Controlled Release Society (CRS) 2022 Annual Meeting. Montreal, Canada, Jul. 13, 2022.
23. Garner J, Hadar J, Skidmore S, Jessmon F, Park H, Park K, Qin B, Jhon Y, and Wang Y. *Scanning Analysis of Semi-Solvent Impact Using Sequential Solvent Vapor (SASSI-SSV): Assay of Poly(lactide-co-glycolide)-Naltrexone (PLGA-NTX) Microparticles*. Poster Presentation at the Controlled Release Society (CRS) 2022 Annual Meeting. Montreal, Canada, Jul. 13, 2022.
24. Hamad G, Niu M, Ghosh P, Ramezanli T, Raney S, Ashraf M, and Zidan A. *Drug Release from Porous Microparticle-Based Tretinoin Topical Gels: Proportionality of Release Across Various Strengths*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, Pennsylvania, Oct. 17, 2021.
25. Haq A, and Ghosh P. *Evaluation of COSMO-RS as a Tool to Predict the Liquid Phase Thermodynamic Properties of Active Ingredients in Topical Dermatological Drug Products*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, Pennsylvania, Oct. 19, 2021.
26. Hefnawy A, Herpin M, Nair V, Lee J, Feng K, Bielski E, Dhapare S, Newman B, Conti D, Boc S, and Smyth H. *Investigation of the Effects of Physicochemical Properties of Dry Powder Inhalers on Batch-to-Batch Variability*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, PA, Oct. 17, 2021.
27. Jordan L, Zheng K, Feng X, Mahjabeen S, Sun W, Xia L, Lee S, Hwang S, Nwakama P, Kim M, Tampal N, Boyce H, and Tian L. *In Vitro Evaluation of a Morphine Sulfate Extended-Release Formulation Sprinkled on Soft Foods*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, PA, Oct. 17, 2021.
28. Kim D, Herbertson L, Natu R, Malinauskas R, Baek J, Buehler P, Pinto J, Feng X, Qu H, and Xu X. *Effect of High Molecular Weight Polyethylene Oxide on Thrombosis Under High Shear Blood Flow Conditions*. Poster Presentation at the International Society on Thrombosis and Haemostasis (ISTH) 2022. Virtual Meeting, Jul. 09, 2022.
29. Kolanjiyil A, Golshahi L, and Longest W. *On the Importance of Liquid Motion in Nasal Spray Delivery*. Poster Presentation at the Respiratory Drug Delivery (RDD) 2022. Orlando, Florida, May. 02, 2022.
30. Kotsybar J, Hakeem S, Zhang L, and Jiang W. *Solid Oral Immediate-Release Drug Product Landscape and Bioequivalence Recommendations*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, PA, Oct. 17, 2021.
31. Le Merdy M, Lukacova V, Tan M, Babiskin A, and Zhao L. *Clinical Ocular Exposure Extrapolation Using PBPK Modeling and Simulation: Moxifloxacin Solution Case Study*. Poster Presentation at the Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting. Denver, Colorado, May. 01, 2022.

32. Le Merdy M, Zheng Y, Lukacova V, Tan M, Babiskin A, and Zhao L. *Clinical Ocular Exposure Extrapolation Using PBPK Modeling and Simulation: Levofloxacin Solution Case Study*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, PA, Oct. 17, 2021.
33. Lex T, Rodriguez J, Zhang L, Jiang W, and Gao Z. *Utilizing Viscous Media to Assess Food-Induced Viscosity Effects on Immediate Release Tablet Disintegration and Drug Dissolution*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, Pennsylvania, Oct. 17, 2021.
34. Li K, Shon J, Boyce H, Lee S, Frost M, and Kim M. *Utilization of Pharmacogenomic Information in Bioequivalence Studies for Generic Drug Development*. Poster Presentation at the 123rd American Society for Clinical Pharmacology and Therapeutics (ASCPT) Annual Meeting. Virtual Meeting, Mar. 16, 2022.
35. Li S, Feng K, Lee J, Gong Y, Wu F, Newman B, Yoon M, Fang L, Zhao L, and Gobburu J. *Evaluating Novel Pilot Pharmacokinetic Bioequivalence Study for Inhalation Powder Drug Products Exhibiting Batch-To-Batch Variability*. Poster Presentation at the American Society for Clinical Pharmacology and Therapeutics (ASCPT) 2022 Annual Meeting. Virtual Meeting, Mar. 16, 2022.
36. Li S, Feng K, Lee J, Gong Y, Wu F, Newman B, Yoon M, Fang L, Zhao L, and Gobburu J. *Exploration the Potential Impact of Batch-to-Batch Variability of Inhalation Powder Drug Products on Pharmacokinetic Bioequivalence Study Power*. Poster Presentation at the American Society for Clinical Pharmacology and Therapeutics (ASCPT) 2022 Annual Meeting. Virtual Meeting, Mar. 16, 2022.
37. Li S, Feng K, Lee J, Gong Y, Wu F, Newman B, Yoon M, Fang L, Zhao L, and Gobburu J. *Exploring the Relationship Between the In Vitro Properties and the Pharmacokinetic Parameters of Advair Diskus*. Poster Presentation at the American Society for Clinical Pharmacology and Therapeutics (ASCPT) 2022 Annual Meeting. Virtual Meeting, Mar. 16, 2022.
38. Li S, Feng K, Lee J, Gong Y, Wu F, Newman B, Yoon M, Fang L, Zhao L, and Gobburu J. *Population Pharmacokinetic Modeling for Fluticasone Propionate and Salmeterol Xinafoate Inhalation Powder in a Bioequivalence Study*. Poster Presentation at the American Society for Clinical Pharmacology and Therapeutics (ASCPT) 2022 Annual Meeting. Virtual Meeting, Mar. 16, 2022.
39. Lim H, Sun W, Kim M, and Lee S. *Baseline Correction in Bioequivalence Studies for Drug Products Containing An Endogenous Compound*. Poster Presentation at the American Society for Clinical Pharmacology and Therapeutics (ASCPT) 2022 Annual Meeting. Virtual Meeting, Mar. 16, 2022.
40. Lin X, Beringhs A, Hargrove D, Jay M, Wang Y, Qin B, and Lu X. *Assessing Long-Acting Injectable Formulations Using In Vivo Imaging*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, PA, Oct. 17, 2021.
41. Mohan A, Dhapare S, Newman B, Svensson M, Elfman P, Winner L, Bulitta J, and Hochhaus G. *The Effects of Inhalation Flow Rate on Aerodynamic Particle Size Distribution of Commercial Solution and Suspension Metered Dose Inhalers*. Poster Presentation at the Respiratory Drug Delivery (RDD) 2022. Orlando, Florida, May. 02, 2022.

42. Nair V, Hefnawy A, Smyth H, Lee J, Feng K, Bielski E, Dhapare S, Newman B, Conti D, Boc S, and Herpin M. *In Vitro Batch-to-Batch Variability of Fluticasone Propionate and Salmeterol Dry Powder Inhalers*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, PA, Oct. 17, 2021.
43. Nguyen D, Shon J, Frost M, Kim M, and Natarajan K. *Identifying High Drug Load Solid Oral Products with Swallowing-Related Adverse Events for In Vitro Swallowability Testing*. Poster Presentation at the 2022 American College of Clinical Pharmacology (ACCP) Annual Meeting. North Bethesda, Maryland, Sep. 25, 2022.
44. Philipp M, Tessier A, Donnelly M, Fang L, Feng K, Zhao L, Grosser S, Sun G, Sun W, Mentre F, and Bertrand J. *Model-Based Bioequivalence Approach: Robustness to Model Misspecification for Sparse Pharmacokinetic Bioequivalence Studies*. Poster Presentation at the Population Approach Group Europe (PAGE) 2022 Annual Meeting. Ljubljana, Slovenia, Jun. 28, 2022.
45. Quarterman J, Al Ghabeish M, Newman B, Walenga R, Chopski S, Zidan A, Pavuluri V, Shakleya D, Li M, and Ashraf M. *Development of an In Vitro Permeation Test to Predict the In Vivo Performance of Naloxone Hydrochloride Nasal Spray Products*. Poster Presentation at the 2022 American College of Clinical Pharmacology (ACCP) Annual Meeting. North Bethesda, Maryland, Sep. 25, 2022.
46. Qu H, Smith W, Feng X, Wang J, Xu X, and Faustino P. *Challenges and Opportunities of using Asymmetrical Flow Field Flow Fractionation for the Characterization of High Molecular Mass Polyethylene Oxide in Abuse-Deterrent Formulation*. Poster Presentation at the 22nd International Symposium on Field- and Flow-Based Separations. Riverside, California, Sep. 11, 2022.
47. Quarterman J, Al-Ghabeish M, Newman B, Walenga R, Chopski S, Zidan A, Pavuluri V, Shakleya D, Li M, and Ashraf M. *Development of a Biopredictive and Biorelevant In-Vitro Permeation Test for the Nasal Bioavailability of Naloxone Hydrochloride Nasal Sprays*. Bethesda, Maryland, Sep. 25, 2022.
48. Rangappa S, Kolimi P, Shankar V, Wang Y, Ghosh P, Raney S, Repka M, and Maibach H. *Determination of Water Content during Metamorphosis in Topical Gels with Different Amounts of PEG-200*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, Pennsylvania, Oct. 18, 2021.
49. Rangappa S, Kolimi P, Shankar V, Wang Y, Ghosh P, Raney S, Repka M, Maibach H, and Murthy N. *Influence of Drying Profile on the Performance of Diclofenac Sodium Gels*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, Pennsylvania, Oct. 20, 2021.
50. Sale M, Ismail M, Wang F, Feng K, Hu M, Zhao L, and Bies R. *Comparison of Robustness and Efficiency of Four Machine Learning Algorithms for Identification of Optimal Population Pharmacokinetic Models*. Poster Presentation at the Population Approach Group Europe (PAGE) 2022 Annual Meeting. Ljubljana, Slovenia, Jun. 28, 2022.
51. Schroeter J, Rose M, Kimbell J, Chopski S, and Walenga R. *A Physiologically-Based Pharmacokinetic Model to Estimate Absorption and Bioavailability of Corticosteroid Nasal Sprays*. Poster Presentation at the Respiratory Drug Delivery (RDD) 2022. Orlando, Florida, May. 02, 2022.
52. Selaya D, Hunt R, Ren P, Li D, Qu H, Yang W, Wang J, Chan T, Kim M, Faustino P, and Zhang Y. *Evaluation of the Dissolution Drug Release Profiles of Approved Generic Formulations in Multiple pH*

*Media for Putative Biopharmaceutics Classification System Class III Drugs, Atenolol Tablets and Acyclovir Tablets.* Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, PA, Oct. 17, 2021.

53. Senemar S, Kuzma B, and Stagni G. *A Cross-Species Retrospective Percutaneous IVIVR for Topical Dermatological Products Containing Metronidazole.* Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, PA, Oct. 18, 2021.
54. Senemar S, Kuzma B, and Stagni G. *Comparison of Metronidazole Dermal Pharmacokinetics Between Mini-pig and Rabbit.* Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, PA, Oct. 18, 2021.
55. Senemar S, Kuzma B, Ramezanli T, Ghosh P, Raney S, and Stagni G. *Dermal Clearance, Elimination Half-life, and Apparent Volume of Distribution of Lidocaine and Prilocaine Are Independent of the Dose Delivered Directly in Dermis Using a Dermal Infusion Technique.* Poster Presentation at the American Society for Clinical Pharmacology and Therapeutics (ASCPT) 2022 Annual Meeting. Virtual Meeting, Mar. 16, 2022.
56. Shakleya D. *A Preclinical Study of Sustained-Release Dexamethasone Intravitreal Implants in New Zealand White Rabbits.* Poster Presentation at the Controlled Release Society (CRS) 2022 Annual Meeting. Montreal, Canada, Jul. 11, 2022.
57. Shakleya D. *Evaluation of the Stability and Content of Alcohol-Based Hand Sanitizers to Ensure Product Safety and Efficacy.* Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, Pennsylvania, Oct. 17, 2021.
58. Shukla S, Ramezanli T, Rantou E, Tiffner K, Birngruber T, Sinner F, and Raney S. *Quantitative Discrimination of Cutaneous Pharmacokinetic Profiles for Topical Drug Products.* Poster Presentation at the American Society for Clinical Pharmacology and Therapeutics (ASCPT) 2022 Annual Meeting. Virtual Meeting, Mar. 16, 2022.
59. Silva S, Mohammad Y, Roberts M, Ramezanli T, Lian G, and Chen T. *In-Silico and Experimental Investigation of the Thermodynamic Change of Topical Formulations due to Evaporation and the Impact on Skin Permeation.* Poster Presentation at the 18th Skin Forum Annual Conference 2022. Malmo, Sweden, Jun. 21, 2022.
60. Smith W, Bae J, Zhang Y, Wang Y, Qin B, Kozak D, Ashraf M, and Xu X. *Impact of Particle Flocculation on Dissolution and Implications on Bioavailability of Injectable Suspensions.* Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, PA, Oct. 17, 2021.
61. Smith W, Liu H, Wang Y, Kozak D, and Xu X. *Evaluation of Formulation Processes for Dosage Form Determination of Phytonadione Injectables.* Poster Presentation at the 22nd International Symposium on Field- and Flow-Based Separations. Riverside, California, Sep. 11, 2022.
62. Telaprolu K, Polak S, Tsakalozou E, Ghosh P, Alam K, Dabbaghi M, Namjoshi S, Mohammed Y, Grice J, and Roberts M. *Modeling In Vitro and In Vivo Human Skin Permeation of Eutectic Mixtures of Local Anesthetics Using PBPK Modeling: Development of Dermal IVIVE for Lidocaine 2.5% w/w and Prilocaine 2.5% w/w Cream (EMLA® Cream).* Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, Pennsylvania, Oct. 17, 2021.

63. Tiffner K, Ramezanli T, Birngruber T, Bodenlenz M, Lackner B, Raml R, Raney S, and Sinner F. *Clinical Study to Assess the Cutaneous Bioequivalence of Topically Applied Lidocaine and Prilocaine Products Using Dermal Open Flow Microperfusion*. Poster Presentation at the 18th Skin Forum Annual Conference 2022. Malmo, Sweden, Jun. 21, 2022.
64. Tsakalozou E, Alam K, Babiskin A, Fang L, and Zhao L. *Development and Application of a Dermal PBPK Modeling for Ethinyl Estradiol-Containing Transdermal Delivery Systems to Predict Exposure for Different Application Sites*. Poster Presentation at the 2022 Innovations in Dermatological Sciences Conference. Virtual Meeting, Sep. 27, 2022.
65. Tsui C, Li K, Kim M, Frost M, and Shon J. *Evaluation of Subject Populations Enrolled in Bioequivalence Studies for Generic Drug Development*. Poster Presentation at the 2022 American College of Clinical Pharmacology (ACCP) Annual Meeting. North Bethesda, Maryland, Sep. 25, 2022.
66. Wan B, Andhariya J, Bao Q, Wang Y, Zou Y, and Burgess D. *Impact of Polymer Source Variation on Risperidone Microsphere Performance*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, PA, Oct. 17, 2021.
67. Wang J, Gong X, Zhao L, and Hu M. *Improved GSimp - a Flexible Missing Value Imputation Method to Support Generic Drug Development and Regulatory Assessment*. Poster Presentation at the American Conference on Pharmacometrics (ACoP) 12 Conference. Virtual Meeting, Nov. 08, 2021.
68. Wang J, Gong X, Zhao L, and Hu M. *Improved GSimp - a Flexible Missing Value Imputation Method to Support Generic Drug Development and Regulatory Assessment*. Poster Presentation at the American Society for Clinical Pharmacology and Therapeutics (ASCPT) 2022. Virtual Meeting, Mar. 16, 2022.
69. Wang R, Bao Q, Wang Y, Qin B, Lomeo J, Zhang S, and Burgess D. *Effect of Coacervation Processing Parameters on Drug Release from Minocycline Hydrochloride Microspheres*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, PA, Oct. 17, 2021.
70. Wu K, Rana M, Tian L, Sun W, Xia L, Nwakama P, Kim M, Tampal N, Xu X, Boyce H, and Feng X. *In Vitro Evaluation of an Extended-Release Methylphenidate Hydrochloride Product Sprinkled on Food Vehicles*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, Pennsylvania, Oct. 19, 2021.
71. Xi X. *Evaluation of Glucose Administration Recommendation in Bioequivalence Studies to Support Generic Oral Antidiabetic Drug Development*. Poster Presentation at the American Society for Clinical Pharmacology and Therapeutics (ASCPT) 2022 Annual Meeting. Virtual Meeting, Mar. 16, 2022.
72. Xie L, Kelchen M, Ghosh P, Niu M, Raney S, and Shen J. *Development of An In Vitro Permeation Test Method for Rectal Suppositories*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, PA, Oct. 17, 2021.
73. Xie L, Yue W, Kelchen M, Ghosh P, Niu M, Raney S, and Shen J. *Development of An In Vitro Permeation Test (IVPT) Method for Vaginal Creams*. Poster Presentation at the Controlled Release Society (CRS) 2022 Annual Meeting. Montreal, Canada, Jul. 12, 2022.

74. Yue W, Xie L, Kelchen M, Ghosh P, Niu M, Raney S, and Shen J. *Development of an In Vitro Release Testing Method for Vaginal Creams*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, PA, Oct. 17, 2021.
75. Zaman R, Smith W, Park J, Liang J, Feng X, Fan Z, Wang Y, Zheng J, and Xu X. *Understanding the Drug Release Mechanism of Long-term Intrauterine Systems*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, PA, Oct. 17, 2021.
76. Zarmi P, Maciel-Tabosa A, Vitry P, Tsikritsis D, Belsey N, Vorng J, Woodman T, Bunge A, White K, Delgado-Charro M, and Guy R. *Assessing Dermatological Product Bioequivalence with Raman Spectroscopy*. Poster Presentation at the 17th International Perspectives in Percutaneous Penetration Conference (PPP2022). La Grande Motte, France, Apr. 19, 2022.
77. Zarmi P, Maciel-Tabosa M, Vitry P, Balsey N, Vorng J, Tsikritis D, Woodman T, White K, Bunge A, Delgado-Charro M, and Guy R. *Validation of a Confocal Raman Spectroscopy Approach to Quantify Drug Delivery into the Skin*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, Pennsylvania, Oct. 20, 2021.
78. Zhang Y, Patel D, Zhu D, Dong Y, Kozak D, Ashraf M, and Xu X. *Adaptive Perfusion: A Novel In Vitro Drug Release Testing Method for Complex Drug Products*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, PA, Oct. 17, 2021.
79. Zheng K, Jordan L, Tian L, Hoover A, Mahjabeen S, Sun W, Xia L, Lee S, Hwang S, Nwakama P, Xi X, Kim M, Tampal N, Boyce H, and Feng X. *Stability of Pantoprazole Sodium Delayed Release Granules When Sprinkled on Soft Foods*. Poster Presentation at the American Association of Pharmaceutical Scientists (AAPS) 2021. Philadelphia, PA, Oct. 17, 2021.