

# **SULTAN M. ALSHEHRI, PhD.**

Associate Professor of Pharmaceutics and Industrial Pharmacy

## **PERSONAL INFORMATION:**

Department of Pharmaceutics  
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King Saud University  
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## **EDUCATION**

**2011-2015**      **Doctor of Philosophy (Ph.D.)** Department of Pharmaceutics and Drug Delivery, School of Pharmacy, University of Mississippi, Oxford, MS 38677 (GPA: 4 OUT OF 4)

### **Dissertation Title:**

(Versatility of Hot-Melt Extrusion for Dosage Form Design).

**Advisor:** Prof. Michael A. Repka, Chair and Professor of Pharmaceutics and Drug Delivery, Director of the Pii Center for Pharmaceutical Technology.

**2004-2009**      **Bachelor of Pharmaceutical Sciences (B. Pharm.),** College of Pharmacy, King Saud University, P.O. BOX 2457, Riyadh 11451, Saudi Arabia.

## **PROFESSIONAL EXPERIENCE:**

**Jan 2020- Present**      **Associate Professor**, College of Pharmacy, King Saud University,  
P.O. Box 2457, Riyadh 11451, Saudi Arabia

**Mar 2016 – Jan 2020**    **Assistant Professor**, College of Pharmacy, King Saud University,  
P.O. Box 2457, Riyadh 11451, Saudi Arabia

**Aug 2011 – Dec 2015**    **Graduate Research Assistant**, Department of Pharmaceutics and  
Drug Delivery, School of Pharmacy, University of Mississippi,  
Oxford, MS 38677

**May 2009 – Jan 2010**    **Graduate Teaching Assistant**, College of Pharmacy, King Saud  
University, P.O. Box 2457, Riyadh 11451, Saudi Arabia.

## **PROFESSIONAL TRAINING AND EXPERIENCE:**

- Completed a program in PMP (Project Management Professional) 6<sup>th</sup> Edition PMP Book Guide which was held at King Saud University during the period of (31/03-04/04/2019) for a total of (35:00) training hours.
- Scientific council services for faculty member, Deanship of skills development, King Saud University, 3 training hours.
- Intensive short course of Good Laboratory Practice (GLP), The center for professional advancement, Amsterdam, Netherland May 2018.
- 12 CME Credit Hours Awarded by Dubai Health Authority, UAE. 23 CME Credit Hours Awarded by the Society of Hospital Pharmacist of Australia Category Professional, DUPHAT 2018.
- ISP's Certification Workshop, Procedures and requirements for obtaining academic accreditation for pharmacy programs, Riyadh, Saudi Arabia, 2017

- Lyophilization Technology – Practical Application of the Scientific Principles (14 hours), The Center of Professional Innovation and Education, Inc. Los Angeles, 2017. (work shop)
- Micro-Teaching Application Discussions, King Saud University, Riyadh, Saudi Arabia, 2016
- Student Assessment and Classroom Management, King Saud University, Riyadh, Saudi Arabia, 2016
- Effective Teaching and Management System, King Saud University, Riyadh, Saudi Arabia, 2016
- Course Design and Construction, King Saud University, Riyadh, Saudi Arabia, 2016
- biological safety training program, University of Mississippi, Oxford, 2011.
- chemical safety training program, University of Mississippi, Oxford, 2011.
- Radiation Safety Training program for Materials, University of Mississippi, Oxford, 2011.
- Work as a trainee pharmacist at Kingdom Hospital from 1 March, 2009 to 1 Apr, 2009.
- Four months' internship program in outpatient, inpatient, and I.V, room at the pharmacy of Kingdom Hospital in 2008.
- Work as summer trainee in MSD Company, 2008.
- Work as summer trainee in MSD Company, 2007.

## **PROJECTS:**

- Co-principal investigator of research group project number RGP-1441-010 which is funded by Deanship of Scientific Research, King Saudi University from September 2019 until September 2020 (150,000 RS).
- Principal investigator of research group project number RGP-1438-013 entitled "Formulations and pre formulations of poorly soluble drugs" which is funded by Deanship of Scientific Research, King Saudi University from February 2017 until December 2018 (150,000 RS).
- Solubility measurement, thermodynamics and molecular interactions of flufenamic acid in different neat solvents, Research Center, College of Pharmacy, King Saud University 2018 (25,000 SR)

- (Renew) Principal investigator of research group project number RGP-1438-013 entitled "Formulations and pre formulations of poorly soluble drugs" which is funded by Deanship of Scientific Research, King Saudi University from January 2019 until now (150,000 RS).
- Solubility, molecular interactions and mixing thermodynamic properties of piperine in various pure solvents at different temperatures, Research Center, College of Pharmacy, King Saud University 2019 (22,000 SR).

### **CONFERENCES & SYMPOSIUMS:**

- Has attended the 5<sup>th</sup> Annual Pharmaceutical Manufacturing Congress, 03-05 December 2019, Voco Hotel Riyadh, Saudi Arabia.
- Has attended the Event Entitled “Drug dissolution technology and physical testing” Monday, October 15, 2018. Intercontinental Hotel Riyadh.
- Has Attended the Event Entitled “Future Role for Future Pharmacists” Held on 24th April 2018, Riyadh, Saudi Arabia.
- Has attended and participated in the first Saudi drug quality symposium that conducted in Riyadh Marriott hotel on November, 2016
- Has attended the 1<sup>st</sup> Symposium, Psychiatric pharmacy King Abdul-Aziz Historical Center Lecture Auditorium, Riyadh, Thursday 7/3/2008.
- Has attending the Intensive Courses of Patient Education in King Abdul-Aziz Historical Center Lecture Auditorium, Riyadh, Monday 4/2/2008.
- Has attended the 7<sup>th</sup> International Saudi Pharmaceutical Conference 19-21 March 2007 Riyadh, kingdom of Saudi Arabia.
- Has attended the 9<sup>th</sup> International Pharmaceutical Conference & Exhibition which was held in the Collage of Pharmacy, King Saud University, Riyadh, KSU, on 17-21/December/2005.

## **FACULTY AND ADMINISTRATIVE RESPONSIBILITIES:**

<b>Jan2020-Present</b>	<b>Vice Dean for Academic Affairs and Quality</b> , School of Pharmacy, Almaarefa University.
<b>Jun2019-Jan 2020</b>	<b>Part time consultant</b> at College of Pharmacy, Almaarefa University, Riyadh, Saudi Arabia.
<b>July 2019</b>	<b>Member</b> of the health colleges students' interview committee, King Saud University.
<b>2019-Present</b>	<b>Chair</b> of a working group for organizing and printing the program files for national accreditation, College of Pharmacy, King Saud University.
<b>2018-2019</b>	<b>Member</b> of the formation of a working group of the National Academic Accreditation Committee, College of Pharmacy, King Saud University
<b>2018-Present</b>	<b>Chairman</b> of the Committee of Academic Affairs and Quality, Department of Pharmaceutics, College of Pharmacy, King Saud University.
<b>2018-Present</b>	<b>Member</b> Laboratory Supplies Committee, Department of Pharmaceutics, College of Pharmacy, King Saud University.
<b>2018-2019</b>	<b>Member</b> of the Higher Supervisory Committee for Academic Accreditation of Undergraduate and Residency Programs
<b>July 2018</b>	<b>Member</b> of the health colleges students' interview committee, King Saud University.
<b>2018-2019</b>	<b>Member</b> of the advisory committee for Generic and Biosimilar drugs in Saudi Food and Drug Authority (SFDA) to work on: <ul style="list-style-type: none"><li>➤ Provide scientific opinions and recommendations regarding registration files for generics and biologically active drugs.</li><li>➤ Provide scientific opinion regarding the results of the quality of generic preparations (Bioequivalence) and recommend suspension or cancellation of the registration license for the registration committee of pharmaceutical companies and their products.</li><li>➤ Review the validity of the project of the quality of generic drugs periodically (quarterly) and to show the scientific opinion.</li></ul>

- Studying and proposing the strategic plans and directions of the executive management to evaluate the pharmaceutical products.

<b>2018-Present</b>	<b>Chair elect</b> of AAPS Saudi discussion group in Saudi Arabia.
<b>2018</b>	<b>Co-founder</b> of AAPS Saudi discussion group in Saudi Arabia
<b>2017-2019</b>	<b>Head</b> of the Development and Quality Unite.
<b>2017-2019</b>	<b>Member</b> of the Executive Committee of the Strategic Plan in School of Pharmacy for the year 2018-2023.
<b>2017-2019</b>	<b>Member</b> of the Committee for the processing of the file of Doctor of Pharmacy program for national academic accreditation.
<b>2017-2019</b>	<b>Member</b> of Higher Supervisory Committee for Accreditation of Academic Programs for Pharm. D and Bachelor programs.
<b>2017-Present</b>	<b>Member</b> of the Risk Management Unit, College of Pharmacy, King Saud University.
<b>2017-2019</b>	<b>Member</b> of the Audit Committee for Excellence Award.
<b>2017-Present</b>	<b>Member</b> of the innovative unite, College of Pharmacy, King Saud University.
<b>2016-2018</b>	<b>Chairman,</b> Laboratory Supplies Committee, Department of Pharmaceutics, College of Pharmacy, King Saud University.
<b>2016-2018</b>	<b>Chairman</b> of the Cultural and Social Activities Committee, College of Pharmacy, King Saud University.
<b>2016-2017</b>	<b>Deputy Supervisor</b> of the Public Relations Unit at the College of Pharmacy.
<b>2016-2018</b>	<b>Member,</b> Curriculum Revision Committee, College of Pharmacy, King Saud University.
<b>2016-2019</b>	<b>Member</b> of the committee to update the department's website, Department of Pharmaceutics, College of Pharmacy, King Saud University.
<b>2016-2018</b>	<b>Member</b> of the committee of the relationship between the institution and society, College of Pharmacy, King Saud University.
<b>2016-Present</b>	<b>Member</b> of the Board of department of pharmaceutics.

## **TEACHING EXPERIENCE:**

### **A. Undergraduate Level:**

PHT 210: Pharmaceutical calculations.

PHT 224: Pharmaceutics I

PHT 322: Pharmaceutics III

PHTR 495: Under graduate research project

PHTC 530: Pharmaceutical Industry and Marketing

### **B. Graduate Level:**

PHT 632: Lab rotation

## **OTHER SCIENTIFIC ACTIVITIES:**

Member of the Master Thesis Discussion Committee for: Student Abdullrahman Sherif

Title: Ketrolac Tromethamine In-Situ Gels for Intravesical Administration

Date: 15/03/2018

## **PAPER PUBLICATIONS:**

1. **Sultan M. Alshehri**, Jun-Bom Park, Bader B. Alsulays, Roshan V. Tiwari, Bjad Almutairy, Abdullah S. Alshetaili, Joseph Morott et al. "Mefenamic acid taste-masked oral disintegrating tablets with enhanced solubility via molecular interaction produced by hot melt extrusion technology." *Journal of drug delivery science and technology* 27 (2015): 18-27.
2. **Sultan M. Alshehri**, Roshan V. Tiwari, Bader B. Alsulays, Eman A. Ashour, Abdullah S. Alshetaili, Bjad Almutairy, Jun-Bom Park et al. "Investigation of the combined effect of MgO and PEG on the release profile of mefenamic acid prepared via hot-melt extrusion techniques." *Pharmaceutical development and technology* (2016): 1-14.
3. Alsulays, Bader B., Jun-Bom Park, **Sultan M. Alshehri**, Joseph T. Morott, Saad M. Alshahrani, Roshan V. Tiwari, Abdullah S. Alshetaili et al. "Influence of molecular weight of carriers and processing parameters on the extrudability, drug release, and stability of

fenofibrate formulations processed by hot-melt extrusion." *Journal of Drug Delivery Science and Technology* 29 (2015): 189-198.

4. Alshetaili, A. S., B. K. Almutairy, R. V. Tiwari, J. T. Morott, **S. M. Alshehri**, X. Feng, B. B. Alsulays, J. B. Park, F. Zhang, and M. A. Repka. "Preparation and Evaluation of Hot-Melt Extruded Patient-Centric Ketoprofen Mini-tablets." *Current drug delivery* (2015).
5. Alshetaili, Abdullah S., Bjad K. Almutairy, Saad M. Alshahrani, Eman A. Ashour, Roshan V. Tiwari, **Sultan M. Alshehri**, Xin Feng et al. "Optimization of hot melt extrusion parameters for sphericity and hardness of polymeric face-cut pellets." *Drug Development and Industrial Pharmacy* (2016): 1-41.
6. Almutairy BK, Alshetaili AS, Ashour EA, Patil H, Tiwari RV, **Alshehri SM**, Repka MA. Development of a floating drug delivery system with superior buoyancy in gastric fluid using hot-melt extrusion coupled with pressurized CO<sub>2</sub>. *Die Pharmazie-An International Journal of Pharmaceutical Sciences*. (2016) Mar 1;71(3):128-33.
7. Ashour, Eman A.; Soumyajit, Majumdar; Alsheteli, Abdulla; **Alshehri, Sultan**; Alsulays, Bader; Feng, Xin; Gryczke, Andreas; Kolter, Karl; Langley, Nigel; Repka, Michael, "Hot Melt Extrusion as an Approach to Improve Solubility, Permeability, and Oral Absorption of a Psychoactive Natural Product, Piperine" accepted in *Journal of Pharmacy and Pharmacology*. (2016).
8. Alsulays, Bader B., Vijay Kulkarni, **Sultan M. Alshehri**, Bjad K. Almutairy, Eman A. Ashour, Joseph T. Morott, Abdullah S. Alshetaili, Jun-Bom Park, Roshan V. Tiwari, and Michael A. Repka. "Preparation and evaluation of enteric coated tablets of hot-melt extruded lansoprazole." *Drug Development and Industrial Pharmacy* (2016): 1-8.
9. Shakeel, Faiyaz, **Sultan Alshehri**, Mohamed A. Ibrahim, Ehab M. Elzayat, Mohammad A. Altamimi, Kazi Mohsin, Fars K. Alanazi, and Ibrahim A. Alsarra. "Solubility and thermodynamic parameters of apigenin in different neat solvents at different temperatures." *Journal of Molecular Liquids* (2017).
10. Kalam, Mohd Abul, **Sultan Alshehri**, Aws Alshamsan, Anzarul Haque, and Faiyaz Shakeel. "Solid liquid equilibrium of an antifungal drug itraconazole in different neat solvents: Determination and correlation." *Journal of Molecular Liquids* (2017).
11. **Alshehri, Sultan**, and Faiyaz Shakeel. "Solubility measurement, thermodynamics and molecular interactions of flufenamic acid in different neat solvents." *Journal of Molecular Liquids* (2017).
12. **Alshehri, Sultan**, Faiyaz Shakeel, Mohamed Ibrahim, Ehab Elzayat, Mohammad Altamimi, Gamal Shazly, Kazi Mohsin et al. "Influence of the microwave technology on solid dispersions of mefenamic acid and flufenamic acid." *PloS one* 12, no. 7 (2017).
13. Altamimi, Mohammad A., Ehab M. Elzayat, Adel A. Alhowyan, **Sultan Alshehri**, and Faiyaz Shakeel. "Effect of  $\beta$ -cyclodextrin and different surfactants on solubility, stability, and permeability of hydrochlorothiazide." *Journal of Molecular Liquids* (2017).



14. **Alshehri, Sultan**, Nazrul Haq, and Faiyaz Shakeel. "Solubility, molecular interactions and mixing thermodynamic properties of piperine in various pure solvents at different temperatures." *Journal of Molecular Liquids* (2017).
15. Marzan, A. L., R. Tabassum, B. Jahan, M. H. Asif, H. M. Reza, M. Kazi, **S. M. Alshehri**, M. de Matas, and M. H. Shariare. "Preparation and characterization of stable nanosuspension for dissolution rate enhancement of furosemide: A Quality by Design (QbD) approach." *Current drug delivery* (2018).
16. Shakeel, Faiyaz, Nazrul Haq, **Sultan Alshehri**, Mohamed A. Ibrahim, Ehab M. Elzayat, Mohammad A. Altamimi, Kazi Mohsin, Fars K. Alanazi, and Ibrahim A. Alsarra. "Solubility, thermodynamic properties and solute-solvent molecular interactions of luteolin in various pure solvents." *Journal of Molecular Liquids* (2018).
17. Shakeel, Faiyaz, **Sultan Alshehri**, Nazrul Haq, Ehab Elzayat, Mohamed Ibrahim, Mohammad A. Altamimi, Kazi Mohsin, Fars K. Alanazi, and Ibrahim A. Alsarra. "Solubility determination and thermodynamic data of apigenin in binary {Transcutol®+ water} mixtures." *Industrial Crops and Products* 116 (2018): 56-63.
18. Shazly, Gamal A., **Sultan Alshehri**, Mohamed A. Ibrahim, Hesham M. Tawfeek, Jelan A. Razik, Yasser A. Hassan, and Faiyaz Shakeel. "Development of Domperidone Solid Lipid Nanoparticles: In Vitro and In Vivo Characterization." *AAPS PharmSciTech*: 1-8.
19. Altamimi, Mohammad A., Ehab M. Elzayat, **Sultan M. Alshehri**, Kazi Mohsin, Mohamed A. Ibrahim, Osaid T. Al Meanazel, Faiyaz Shakeel, Fars K. Alanazi, and Ibrahim A. Alsarra. "Utilizing spray drying technique to improve oral bioavailability of apigenin." *Advanced Powder Technology* (2018).
20. Al-Amin, Md, Md Rahman Choudhury, Al Saad Chowdhury, Tahsinur Rahman Chowdhury, Preeti Jain, Mohsin Kazi, Musaed Alkholief, **Sultan M. Alshehri**, and Hasan Mahmud Reza. "Pretreatment with risperidone ameliorates systemic LPS-induced oxidative stress in the cortex and hippocampus." *Frontiers in Neuroscience* 12 (2018): 384.
21. Alsulays, Bader B., Mohamed H. Fayed, Ahmed Alalaiwe, Saad M. Alshahrani, Abdullah S. Alshetaili, **Sultan M. Alshehri**, and Fars K. Alanazi. "Mixing of low-dose cohesive drug and overcoming of pre-blending step using a new gentle-wing high-shear mixer granulator." *Drug development and industrial pharmacy* (2018): 1-8.
22. Alshetaili, Abdullah S., Md Khalid Anwer, Saad M. Alshahrani, Ahmed Alalaiwe, Bader B. Alsulays, Mohammad Javed Ansari, Faisal Imam, and **Sultan Alshehri**. "Characteristics and anticancer properties of Sunitinib malate-loaded poly-lactic-co-glycolic acid nanoparticles against human colon cancer HT-29 cells lines." *Tropical Journal of Pharmaceutical Research* 17, no. 7 (2018): 1263-1269.
23. Alalaiwe, Ahmed, Paul Carpinone, Saad Alshahrani, Bader Alsulays, Mohammed Ansari, Mohammed Anwer, **Sultan Alshehri**, and Abdullah Alshetaili. "Influence of chitosan

coating on the oral bioavailability of gold nanoparticles in rats." *Saudi Pharmaceutical Journal* (2018).

24. **Alshehri, Sultan M.**, Faiyaz Shakeel, Mohamed A. Ibrahim, Ehab M. Elzayat, Mohammad Altamimi, Kazi Mohsin, Osaid T. Almeanazel et al. "Dissolution and bioavailability improvement of bioactive apigenin using solid dispersions prepared by different techniques." *Saudi Pharmaceutical Journal* (2018).
  25. Alkholief, Musaed, Hammam Albasit, Adel Alhowyan, **Sultan Alshehri**, Mohammad Raish, Mohd Abul Kalam, and Aws Alshamsan. "Employing a PLGA-TPGS based nanoparticle to improve the ocular delivery of Acyclovir." *Saudi Pharmaceutical Journal* (2018).
  26. Mohammad A. Altamimi, Ehab M. Elzayat, Wajhul Qamar, **Sultan M. Alshehri**, Abdelrahman Y. Sherif, Nazrul Haq, Faiyaz Shakeel, Evaluation of the bioavailability of Hydrocortisone when prepared as solid dispersion, *Saudi Pharmaceutical Journal*, 2019
  27. Elzayat, Ehab M., Faiyaz Shakeel, **Sultan Alshehri**, Mohamed A. Ibrahim, Mohammad A. Altamimi, Mohsin Kazi, Fars Kaed Alanazi, and Nazrul Haq. "UHPLC assisted simultaneous separation of apigenin and prednisolone and its application in the pharmacokinetics of apigenin." *Journal of Chromatography B* 1117 (2019): 58-65.
  28. Singh, Sima, Afzal Hussain, Faiyaz Shakeel, Mohamed Jawed Ahsan, **Sultan Alshehri**, Thomas J. Webster, and Uma Ranjan Lal. "Recent insights on nanomedicine for augmented infection control." *International Journal of Nanomedicine* 14 (2019): 2301-2325.
  29. Kalam, Mohd Abul, **Sultan Alshehri**, Aws Alshamsan, Musaed Alkholief, Raisuddin Ali, and Faiyaz Shakeel. "Solubility measurement, Hansen solubility parameters and solution thermodynamics of gemfibrozil in different pharmaceutically used solvents." *Drug development and industrial pharmacy* just-accepted (2019): 1-27.
  30. **Sultan Alshehri**, Faiyaz Shakeel, Ehab Elzayat, Osaid Almeanazel, Mohammad Altamimi, Gamal Shazly, Kazi Mohsin, Bjad Almutairy, Bader Alsulays, Abdullah Alshetaili, Ahmed Alalaiwe & Michael Repka (2019) Rat palatability, pharmacodynamics effect and bioavailability of mefenamic acid formulations utilizing hot-melt extrusion technology, *Drug Development and Industrial Pharmacy*, DOI: 10.1080/03639045.2019.1645161
  31. Alshetaili, Abdullah S., Mohammad J. Ansari, Md K. Anwer, Majid A. Ganaie, Muzaffar Iqbal, Saad M. Alshahrani, Ahmad S. Alalaiwe, Bader B. Alsulays, **Sultan Alshehri**, and Abdullah S. Sultan. "Enhanced Oral Bioavailability of Ibrutinib Encapsulated Poly (Lactic-co-Glycolic Acid) Nanoparticles: Pharmacokinetic Evaluation in Rats." *Current Pharmaceutical Analysis* 15, no. 6 (2019): 661-668.
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32. Alsulays, Bader B., Md Khalid Anwer, Mohammed F. Aldawsari, Alhussain Aodah, Elsadig Adam, **Sultan Alshehri**, and Maged S. Abdel-Kader. "Preparation and evaluation of a stable and sustained release of lansoprazole-loaded poly (d, l-lactide-co-glycolide) polymeric nanoparticles." *Journal of Polymer Engineering*.
33. Altamimi, Mohammad, Nazrul Haq, **Sultan Alshehri**, Wajhul Qamar, and Faiyaz Shakeel. "Enhanced Skin Permeation of Hydrocortisone Using Nanoemulsion as Potential Vehicle." *ChemistrySelect* 4, no. 34 (2019): 10084-10091.
34. Shakeel, Faiyaz, Mohd Imran, Nazrul Haq, **Sultan Alshehri**, and Md Anwer. "Synthesis, Characterization and Solubility Determination of 6-Phenyl-pyridazin-3 (2H)-one in Different Pharmaceutical Solvents." *Molecules* 24, no. 18 (2019): 3404.
35. **Alshehri, Sultan**, Syed Sarim Imam, Mohammad Altamimi, Mohammed Jafar, Mohd Zaheen Hassan, Afzal Hussain, Abdul Ahad, and Wael Mahdi. "Host-guest complex of  $\beta$ -cyclodextrin and pluronic F127 with Luteolin: Physicochemical characterization, anti-oxidant activity and molecular modeling studies." *Journal of Drug Delivery Science and Technology* (2019): 101356.
36. Alanazi, Abdullah, **Sultan Alshehri**, Mohammad Altamimi, and Faiyaz Shakeel. "Solubility determination and three dimensional Hansen solubility parameters of gefitinib in different organic solvents: Experimental and computational approaches." *Journal of Molecular Liquids* (2019): 112211.
37. Bader Badi Alsulays, Shahid Jamil, Mohammad Raish, Mushtaq Ahmad Ansari, Ajaz Ahmad, Ahmed Alalaiwe, Saad Maria Alshahrani, Abdullah Saud Alshetaili, Mohammad Javed Ansari, and **Sultan Mohammad Alshehri**. "Influences of Ferulic Acid on Pharmacokinetics of Carbamazepine in Rats: Possible Mechanism of Herb/food-drug Interactions." *Pharmacology* 15, no. 8 (2019): 978-985.
38. Shakeel, Faiyaz, **Sultan Alshehri**, Mohd Imran, Nazrul Haq, Abdullah Alanazi, and Md Anwer. "Experimental and Computational Approaches for Solubility Measurement of Pyridazinone Derivative in Binary (DMSO+ Water) Systems." *Molecules* 25, no. 1 (2020): 171.
39. Alsulays, Bader B., Md Khalid Anwer, Gamal A. Soliman, **Sultan M. Alshehri**, and El-Sayed Khafagy. "Impact Of Penetratin Stereochemistry On The Oral Bioavailability Of Insulin-Loaded Solid Lipid Nanoparticles." *International Journal of Nanomedicine* 14 (2019): 9127.
40. Solubilization of simvastatin in various micellar solutions of different non-ionic surfactants: Determination, correlation, thermodynamics and solute-solvent molecular interactions (submitted).
41. High throughput Green UPLC-MS/MS methods for determination of desmopressin. (submitted).

### **Published abstracts:**

1. **S. M. Alshehri**, S. M. Alshahrani, B. K. Almutairy, S. Shah, S. Majumdar, M. A. Repka. Development and Evaluation of Taste-masked Formulations of Mefenamic Acid using Hot Melt Extrusion Techniques. AAPS (2012).
2. **S. M. Alshehri**, S. M. Alshahrani, B. K. Almutairy, E. A. Ashour, V. Kulkarni, J. B. Park, S. Majumdar, A. Gryczke, K. Kolter, N. Langley, M. A. Repka. Influence of Lutrol® F 68 and HPMCAS on Mefenamic Acid Release from Kollidon® VA64 Extrudates. AAPS (2013).
3. **S. M. Alshehri**, S. M. Alshahrani, B. K. Almutairy, E. A. Ashour, V. Kulkarni, J. B. Park, S. Majumdar, A. Gryczke, K. Kolter, N. Langley, M. A. Repka. Combined Influence of Hot Melt Extruded Soluplus® and HPMCAS on Mefenamic Acid Drug Release. AAPS (2013).
4. **S. M. Alshehri**, S. M. Alshahrani, B. K. Almutairy, E. A. Ashour, V. Kulkarni, J. B. Park, S. Majumdar, M. A. Repka. Dispersible Tablet Formulation of Mefenamic Acid by Hot Melt Extrusion. AAPS (2013).
5. **S. M. Alshehri**, B. Alsulays, E. Ashour, B. Almutairy, A. Alshetaili, J-B. Park, A. Gryczke, K. Kolter, N. Langley, S. Majumdar, M. Repka. Influence of Various Kollidon® Matrices and an Alkalizer on the Release of Hot Melt Extruded Mefenamic Acid. AAPS (2014).
6. **S. M. Alshehri**, B. B. Alsulays, E. A. Ashour, B. K. Almutairy, R. V. Tiwari, J-B. Park, B. H. Sandhu, A. Gryczke, K. Kolter, N. Langley, S. Majumdar, M. A. Repka. Investigation of the Combined Effect of MgO and PEG on the Release Profiles of Mefenamic Acid Utilizing Hot-Melt Extrusion Techniques. AAPS (2015).
7. **S. M. Alshehri**, B. B. Alsulays, E. A. Ashour, B. K. Almutairy, R. V. Tiwari, A. Gryczke, K. Kolter, N. Langley, S. Majumdar, M. A. Repka. Formulation and Evaluation of Mefenamic Acid Sustained Release Tablets Containing Kollidon® SR via Hot-Melt Extrusion Technology. AAPS (2015).
8. M.A. Repka, **S. Alshehri**, S. Shah, S. Alshahrani, B. Almutairy, J. Morott, S. N. Murthy, S. Majumdar. Solubility enhancement of mefenamic acid with eudragit® epo using melt extrusion techniques. The Controlled Release Society Annual Meeting and Exposition, Honolulu, Hawaii (2013).
9. E. A. Ashour, **S. Alshehri**, A. Alshetaili, W. Lu, J-B. Park, S. Majumdar, A. Gryczke, K. Kolter, N. Langley, M. A. Repka. Dissolution Enhancement of the Natural Product Psychoactive—Piperine Using Hot Melt Extrusion Techniques. AAPS (2014).
10. E. A. Ashour, **S. Alshehri**, B. Almutairy, W. Lu, B. Beissner, Z. J. Lian, S. Porter, V. Bi, T. Durig, M. A. Repka. Influence of Pressurized Carbon Dioxide on High Melting Point

Carbamazepine and Low Molecular Weight Hydroxypropylcellulose Matrices Using Hot Melt Extrusion. AAPS (2014).

11. E. A. Ashour, **S. Alshehri**, S. Majumdar, A. Gryczke, K. Kolter, N. Langley, M. A. Repka. Hot-Melt Extrusion as an Approach to Improve Permeability and Oral Absorption of the Psychoactive Natural Product Piperine. AAPS (2015).
12. B. B. Alsulays, **S. M. Alshehri**, V. Kulkarni, J-B. Park, R. Tiwari, M. A. Repka. Enteric Coating of Hot-Melt Extruded Lansoprazole. AAPS (2015).
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