

SULTAN M. ALSHEHRI, PhD.

Assistant Professor of Pharmaceutics and Industrial Pharmacy
Head of Development and Quality Unit

PERSONAL INFORMATION:

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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:

March 2016 – Present **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:

- 1) ISP's Certification Workshop, Procedures and requirements for obtaining academic accreditation for pharmacy programs, Riyadh, Saudi Arabia, 2017
- 2) Lyophilization Technology – Practical Application of the Scientific Principles (14 hours), The Center of Professional Innovation and Education, Inc. Los Angeles, 2017. (work shop)
- 3) Micro-Teaching Application Discussions, King Saud University, Riyadh, Saudi Arabia, 2016
- 4) Student Assessment and Classroom Management, King Saud University, Riyadh, Saudi Arabia, 2016
- 5) Effective Teaching and Management System, King Saud University, Riyadh, Saudi Arabia, 2016
- 6) Course Design and Construction, King Saud University, Riyadh, Saudi Arabia, 2016

- 7) biological safety training program, University of Mississippi, Oxford, 2011.
- 8) chemical safety training program, University of Mississippi, Oxford, 2011.
- 9) Radiation Safety Training program for Materials, University of Mississippi, Oxford, 2011.
- 10) Work as a trainee pharmacist at Kingdom Hospital from 1 March, 2009 to 1 Apr, 2009.
- 11) Four months internship program in outpatient, inpatient, and I.V, room at the pharmacy of Kingdom Hospital in 2008.
- 12) Work as summer trainee in MSD Company, 2008.
- 13) Work as summer trainee in MSD Company, 2007.

PROJECTS:

- Principal investigator of research group project number RGP-1438-013 entitled "Formulations and pre formulations of poorly soluble drugs" which is funded from Deanship of Scientific Research, King Saudi University from February 2017 until now (150,000 RS).

CONFERENCES & SYMPOSIUMS:

- Has attended and participated in the first Saudi drug quality symposium that conducted in Riyadh Marriott hotel on November, 2016
- Has attended the 1st 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 7th International Saudi Pharmaceutical Conference 19-21 March 2007 Riyadh, kingdom of Saudi Arabia.
- Has attended the 9th 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:

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

TEACHING EXPERIENCE:

A. Undergraduate Level:

PHT 210: Pharmaceutical calculations.

PHT 224: Pharmaceutics I

PHTR 495: Under graduate research project

B. Graduate Level:

PHT 632: Lab rotation

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 CO₂. 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 β -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).

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).

13. S. M. Alshahrani, B. B. Alsulays, **S. M. Alshehri**, S. Shah, S. Majumdar, K. Kolter, N. Langley, M. A. Repka. Improving the Solubility and Physical Stability of Carbamazepine using Hot Melt Extrusion. AAPS (2012).
14. S. M. Alshahrani, **S. M. Alshehri**, V. Kulkarni, J-B. Park, S. Majumdar, A. Gryczke, K. Kolter, N. Langley, M. A. Repka. Influence of Hot Melt Extrusion Processing Parameters on the Dissolution Rate of a Poorly Water Soluble Drug. AAPS (2013).
15. B. K. Almutairy, A. S. Alshetali, **S. M. Alshehri**, E. A. Ashour, H. Patil, R. V. Tiwari, M. K. Almutairi, M. A. Repka. Development of a Sustained-Release Donepezil Hydrochloride Formulation with Improved Drug Content and Tablet Content Uniformity via Hot-Melt Extrusion Technology. AAPS (2015).
16. B. K. Almutairy, A. S. Alshetali, **S. M. Alshehri**, S. Shah, S. Majumdar, M. Rahman, Z. J. Lian, D. Tewari, V. Bi, T. Durig, M. A. Repka. Development and Characterization of Taste Masked Acetaminophen Tablets with Ethyl Cellulose ECN7 and Klucel™ Utilizing Hot Melt Extrusion. AAPS (2012).
17. E. A. Ashour, B. Almutairy, V. Kulkarni, **S. Alshehri**, S. Shah, S. Majumdar, R. Bosworth, Z. J. Lian, E. Pinto, V. Bi, T. Durig, M. A. Repka. Influence of Supercritical Carbon Dioxide on Ketoprofen-Incorporated Hot-Melt Extruded Low Molecular Weight Hydroxypropylcellulose Matrices. AAPS (2013).
18. S. M. Alshahrani, B. Alsulays, **S. M. Alshehri**, S. Shah, V. Kulkarni, J-B. Park, S. N. Murthy, S. Stodghill, M. A. Repka. Effect of Polymer Molecular Weight on Hot Melt Extrusion Processing and Dissolution of Clotrimazole. AAPS (2013)
19. B. K. Almutairy, A. S. Alshetali, E. A. Ashour, **S. M. Alshehri**, V. Kulkarni, J. B. Park, S. N. Murthy, S. P. Stodghill, M. A. Repka. Development of a Sustained-Release Donepezil Hydrochloride Formulation by Hot Melt Extrusion. AAPS (2013).
20. A. S. Alshetali, B. K. Almutairy, E. A. Ashour, **S. M. Alshehri**, W. Lu, J. B. Park, S. Majumdar, A. Gryczke, K. Kolter, N. Langley, S. Mishra, M. A. Repka. Solubility Enhancement of Poorly Water Soluble Drugs with Kolliphor® P 407 Using Melt Extrusion Techniques. AAPS (2014).
21. B. K. Almutairy, A. S. Alshetali, E. A. Ashour, **S. M. Alshehri**, J. Park, V. Kulkarni, M. A. Repka. Development of Sustained-Released Donepezil Hydrochloride Formulations with Various Carriers Utilizing Hot Melt Extrusion Technology. AAPS (2014).
22. B. K. Almutairy, A. S. Alshetali, E. A. Ashour, **S. M. Alshehri**, H. Patil, R. V. Tiwari, M. K. Almutairi, M. A. Repka. Development and Characterization of Porous Ethyl Cellulose EC-N7, Eudragit® RS PO and Eudragit® RL PO Utilizing Hot-Melt Extrusion Technology Coupled with Pressurized Carbon Dioxide. AAPS (2015).
23. B. K. Almutairy, A. S. Alshetali, E. A. Ashour, **S. M. Alshehri**, H. Patil, R. V. Tiwari, M. K. Almutairi, M. A. Repka. Development of a Floating Drug Delivery System with

Superior Buoyancy in Gastric Fluid Using HotMelt Extrusion Coupled with Pressurized CO₂. AAPS (2015).

24. B. K. Almutairy, A. S. Alshetaili, M. S. Almutairi, M. A. Almaghrabi, **S. M. Alshehri**, R. V. Tiwari, M. A. Repka. Development and Characterization of a Floating Drug Delivery System Prepared via Hot-Melt Extrusion Technology Coupled with Pressurized CO₂ for a Thermo-Labile API. AAPS (2016)
25. Ahmed Farahat, Ahmed Abdeldayem, **Sultan Alshehri**, Mohamed Al-Agamy. Simple Inhibitor-Based Phenotypic Test for detecting ESBL, AmpC B-Lactamase and Carbapenemase in Ceftazidime Insensitive Enterobacterial Isolates. 6th College of Pharmacy Research Day (6th CPRD), School of Pharmacy, King Saud University, 2016.
26. Abdulaziz Alshahrani , Ehab Elzayat , **Sultan Alshehri**. Microwave technology to enhance the release of poorly soluble drug using various polymers. 7th College of Pharmacy Research Day (7th CPRD), School of Pharmacy, King Saud University, 2017.
27. Abdulaziz Alshahrani , Ehab Elzayat , **Sultan Alshehri**. Influence of the Microwave Technology on the Release Profile of Mefenamic Acid. 1st Pharmacy Graduate Research Day PNU-2017, School of Pharmacy, University of Norah.