



CURRICULUM VITAE

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PERSONAL INFORMATION:

- ❖ Date of Birth: November 30th, 1973
- ❖ Nationality: Jordanian
- ❖ Marital Status: Married

EDUCATION:

- ❖ Ph.D. in Pharmaceutical Sciences (Industrial Pharmacy), June 2003, University of Cincinnati, Cincinnati, OH, USA.
- ❖ B.Sc. Pharm., June, 1996, University of Jordan, Amman, Jordan

MEMBERSHIP IN PROFESSIONAL / SCHOLASTIC SOCIETIES:

- ❖ Jordan Pharmacy Syndicate, member.
- ❖ The American Association of Pharmaceutical Scientists (AAPS), member.
- ❖ Rho Chi Pharmaceutical Honor Society, member.

PROFESSIONAL EXPERIENCE AND TRAINING:

■ October 2010 - Current	Associate Professor of Pharmaceutics and Industrial Pharmacy at the Faculty of Pharmacy, University of Jordan.
■ September 2005 – September 2012. ■ September 2013 – Current	Acting Chairman, Department of Pharmaceutics and Pharmaceutical Technology, Faculty of Pharmacy, University of Jordan.
■ July 2008 – August 2011	Member, Technical Committee for Registration of New Drugs, Jordan Food and Drug Administration (JFDA), Amman, Jordan.
■ June 2006 – Current	Vice Chairman, Institutional Review Board, International Pharmaceutical Research Center, Amman, Jordan
■ Second Academic Semester: February – June 2008, 2009 and 2010.	Lecturer in Pharmaceutical Technology (Part-time), Department of Pharmaceutical and Chemical Engineering, German-Jordanian University, Amman, Jordan.

<p>■ April 2005 – July 2007</p>	<p>Member of the Bioequivalence and Biowaiver Committee, Jordan Food and Drug Administration (JFDA), Amman, Jordan.</p>
<p>■ December 2003 – October 2010</p>	<p>Assistant Professor of Pharmaceutics and Industrial Pharmacy at the Faculty of Pharmacy, University of Jordan.</p>
<p>■ September 1998 – October 2003</p>	<p>Graduate Student at the Industrial Pharmacy Graduate Program, University of Cincinnati (Advisor: Prof. Dr. Adel Sakr) Graduate research in statistical modeling and optimization of controlled release film coating. Technical skills include:</p> <ul style="list-style-type: none"> • Tablet compression using rotary and single punch tableting machines • Wet granulation using low and high shear granulators. • Tablet coating using side vented coating pan (Accela Cota) and fluid bed unit (Glatt GPCG1). • Evaluation and quality control of pharmaceutical material and products. • Experience in experimental design and data analysis using regression analysis and response surface methodology.
<p>■ 1999-2000</p>	<p>Research assistant (Formulation and evaluation of controlled release matrix tablets), Department of Pharmaceutical Sciences, College of Pharmacy, University of Cincinnati.</p>
<p>■ 1996-1998</p>	<p>Teaching assistant, Faculty of Pharmacy, University of Jordan.</p>

COMMITTEES MEMBERSHIPS:

<p>■ July 2010- July 2011</p>	<p>Member, the Management/Supervisory Committee for the Development of a Model Skills center for Excellence for the Pharmaceutical Industry.</p>
<p>■ July 2008- August 2011</p>	<p>Member, Technical Committee for New Drugs Registration, Jordan Food and Drug Administration (JFDA), Amman, Jordan.</p>
<p>■ June 2006 – Current</p>	<p>Vice Chairman, the Institutional Review Board (IRB) of the International Pharmaceutical Research Center (IPRC), Amman, Jordan.</p>
<p>■ April 2005 – July 2007</p>	<p>Member, the Bioequivalence and Biowaiver Committee, Jordan Food and Drug Administration (JFDA), Amman, Jordan.</p>

RESEARCH INTERESTS:

1. **Development and Evaluation of Drug Delivery Systems:** We emphasize in our lab on aspects of pharmaceutical technology such as: statistical modeling and optimization of pharmaceutical processes and formulations; formulation and process factors affecting in vitro/in vivo performance of dosage forms and controlled release technology.
2. **Solid State:** This area of our research is concerned with the study of solid forms of drug substances with special emphasis on the amorphization of drug substances and stabilization of amorphous forms as well as salt formation as a tool to optimize pharmaceutical and biopharmaceutical properties of drug substances.
3. **Analysis of Drug and Herbal Products:** This area of our research entails development and validation of methods for the analysis of drugs in different pharmaceutical and biological matrices and marker chemicals as standardization tool in herbal products and raw materials. We are also working with analytical chemists on the automation of pharmaceutical analytical procedures for handling large sample loads.
4. **Experimental Design and Statistical Analysis:** The experimental design and statistical analysis as a tool in pharmaceutical and biomedical research with specific emphasis on statistical modeling and optimization techniques.

PROFESSIONAL PARTICIPATIONS:

1. 2017 Phi Research and Innovation Summit. Aug. 24th - 26th, **2017**, Amman, **Jordan**.
2. Seventh Scientific Day for HMCSR "Local Trends in Pharmaceutical Technology". Apr. 13th, **2017**, Amman, **Jordan**.
3. The 4th International Conference of the School of Pharmacy – The University of Jordan and the 2nd Conference of the Association of Faculties of Pharmacy at Jordanian Universities. Oct. 27th, **2016**, Amman, **Jordan**.
4. BASF Pharma Seminar, Sheraton Amman Al Nabil Hotel, Jan 20th, **2015**, Amman, **Jordan**.
5. Workshop: Nanotechnology: incorporation in industry, part of the 7th Jordan International Chemical Engineering (JICHE07) Conference. November 4th – 6th, **2014**. Amman, **Jordan**.
6. Innovation Accelerator Workshop – Pharmaceutical Industry, a workshop organized by the USAid Jordan Competitiveness Program (USAid-JCP), January 27th – 30th, **2014**, King Hussein Business Park, Amman, **Jordan**.
7. The 6th Conference on Scientific Research in Jordan. October 23rd, **2013**. Amman, **Jordan**.
8. Annual Meeting of the American Association of Pharmaceutical Scientists (AAPS), November 10th–14th, **2013**. San Antonio, TX, **USA**.
9. 1st MENA Regulatory Conference on Bioequivalence, Biowaivers, Bioanalysis and Dissolution. A conference organized by the IPRC, AAPS, FIP and TuFTAD. September 23rd and 24th, **2013**, Amman, **Jordan**.

10. The 15th Scientific Congress of the Association of Pharmacy Colleges in the Arab World & the 3rd International Conference of the Faculty of Pharmacy at the University of Jordan. October 9th - 11th **2012**, Amman, **Jordan**.
11. The 14th Annual Scientific Association of Colleges of Pharmacy in the Arab World and the 2nd International Conference of Ajman University of Science and Technology College of Pharmacy and Health Sciences. February 7th - 9th **2012**, Ajman, **UAE**.
12. Introductory QbD for Regulators and Industry, Workshop Organized by the Arab Union of the Manufacturers of Pharmaceuticals and Medical Appliances (AUPAM) in Collaboration with the University of Jordan Faculty of Pharmacy. January 28th-30th, **2012**. Amman, **Jordan**.
13. The 1st MENA Bio-Similars Conference organized by the Jordanian Association of Pharmaceutical Manufacturers (JAPM) and the Jordan Food and Drug Administration (JFDA) and sponsored by USAID. June 27th - 28th, **2011**. Amman, **Jordan**.
14. Clinical Investigation Training Program, Workshop organized by the Jordan Food and Drug Administration (JFDA), April 30th, **2011**. Amman, **Jordan**.
15. 14th Annual Meeting of the Arab Union of the Manufacturers of Pharmaceuticals and Medical Appliances (AUPAM). October 20th -22nd, **2010**, Amman, **Jordan**.
16. Institutional Review Board (IRB) Training, workshop organized by the Jordanian Association of Pharmaceutical Manufacturers (JAPM) and sponsored by USAID, July 31st, **2010**, Amman, **Jordan**.
17. Faculty of Pharmacy (Jordan University) Scientific Day, May 7th, **2009**, Amman, **Jordan**.
18. XXXI Conference of Pharmaceutical Sciences organized by the Egyptian Pharmaceutical Society, December 23-25, **2008**, Cairo, **Egypt**.
19. First JAPM Bioequivalence Conference, July 14-15, **2008**, Amman, **Jordan**.
20. Faculty of Pharmacy (Jordan University) Scientific Day, May 22nd, **2008**, Amman, **Jordan**.
21. USP 3rd Regional Meeting (In collaboration with Jordanian Association of Pharmaceutical Manufacturers JAPM and JFDA), October 29th-30th, **2007**, Amman, **Jordan**.
22. JFDA WHO-Sponsored Workshop, Implementation of Global Guidelines in Bioequivalence and Stability Studies, March 3rd, **2007**, Amman, **Jordan**.
23. USP 2nd Regional Scientific Workshop (In collaboration with JFDA and the Jordanian Association of Pharmaceutical Manufacturers JAPM), September 9th-10th, **2006**, Amman, **Jordan**.
24. 8th International Symposium on Pharmaceutical Sciences (ISOPS8), June 13th-16th, **2006**, Ankara, **Turkey**.
25. The 3rd International Conference of the Royal Medical Services (In collaboration with the Royal College of Physicians of London), April 5th-8th **2006**, Amman, **Jordan**.
26. Faculty of Pharmacy (Jordan University) Scientific Day, June 2nd, **2005**, Amman, **Jordan**.

27. 1st Pharmaceutical Scientific Day of the Royal Medical Services (RMS), December 23rd, **2004**, Amman, **Jordan**.
28. Cosmetic and Pharmaceutical Industries Scientific Day, Jordanian Engineering Syndicate, Chemical Engineering Unit, July 13th, **2004**, Amman, **Jordan**.
29. Al-Azhar 3rd International Conference for Pharmaceutical and Biological Sciences, December, **2003**, Cairo, **Egypt**.
30. Annual Meeting of the American Association of Pharmaceutical Scientists (AAPS), November, **2002**, Toronto, ON, **Canada**.
31. Pharmaceutical Congress of the Americas, March, **2001**, Orlando, FL, **USA**.
32. Annual Meeting of the American Association of Pharmaceutical Scientists (AAPS), November, **2000**, Indianapolis, IN, **USA**.
33. Glatt-Rohm Joint Symposium, Beyond the Basics 2000, August, **2000**, Chicago, IL, **USA**.
34. Annual Meeting of the American Association of Pharmaceutical Scientists (AAPS), November, **1999**, New Orleans, LA, **USA**.

AWARDS:

1. P&G Industrial Research Fellowship, **2001-2002**, P&G Pharmaceuticals, Cincinnati, OH, USA.
2. P&G Industrial Research Fellowship, Spring Quarter **2000-2001**, P&G Pharmaceuticals, Cincinnati, OH, USA.
3. Dean's Summer Fellowship, Summer Quarter **2001**, College of Pharmacy, University of Cincinnati, Cincinnati, OH, USA.
4. University Graduate Scholarship, **1998-2003**, University of Cincinnati, Cincinnati, OH, USA.
5. University Graduate Scholarship, **1998-2003**, University of Jordan, Amman, Jordan.

POSTER PRESENTATIONS:

1. **AlKhatib, H. S.**; Almanfi, A.; Madieh, S. S.; Abbas, A. O. Correlation between Powder Rheometric Parameters and Torque Measurements: Potential Application in Wet Granulation Process Development. 2013 **AAPS Annual Meeting**, San Antonio, TX, **USA**. November 10th–14th, **2013**.
2. **AlKhatib, H. S.**; Hammad, L.; Abbas, A. O.; Madieh, S. S. A Study of Factors Affecting Drug Release from Controlled Release Matrix Tablets Containing Hydrophilic and Hydrophobic Matrix Formers. 2013 **AAPS Annual Meeting**, San Antonio, TX, **USA**. November 10th–14th, **2013**.
3. Abbas, A. O.; Abu-Murah, L. F.; Madieh, S. S.; **AlKhatib, H. S.** The Effect of Formulation Type and Composition on Drug Release from Diltiazem HCl Minitablets. 2013 **AAPS Annual Meeting**, San Antonio, TX, **USA**. November 10th–14th, **2013**.
4. Boudier, O.M.; Rashid, I.S.; Al Omari, M.M.; Badwan, A.A. and **AlKhatib, H.S.** Development and evaluation of a novel pharmaceutical excipient by co-processing of microcrystalline cellulose and

- magnesium silicate by roller compaction. **6th International Granulation Workshop**, Sheffield, **UK**. June 26th -28th, **2013**.
5. Ahmad, Haitham; Khalifeh, Ismael and **AlKhatib, Hatim S.** Preparation of an Extended Release Multiparticulate Dosage Form of a High Dose, Highly Soluble Drug Model by Active Layering Technique. The 14th Annual Scientific Association of Colleges of Pharmacy in the Arab World and the 2nd International Conference of Ajman University of Science and Technology College of Pharmacy and Health Sciences, Ajman, **UAE**. February 7th - 9th **2012**.
 6. AlMuhaissen, Suha A.; AlKhalidi, Bashar; Bustanji, Yasser; Aiedeh, Khaled; Mohammad, Mohammad K. and **AlKhatib, Hatim S.** Evaluation of Binary Carrier System for the Dissolution Enhancement of a High Dose Poorly Soluble Drug. Faculty of Pharmacy (University of Jordan) Scientific Day, Amman, **Jordan**, April 28th, **2011**.
 7. Darweesh, Rasha Salah; Darwazeh, Nabil; AlKhalidi, Bashar; Aiedeh, Khaled and **AlKhatib, Hatim S.** Development and Response Surface Optimization of a Matrix-Type Delivery System Using Hydrophilic and Hydrophobic Components. Faculty of Pharmacy (University of Jordan) Scientific Day, Amman, **Jordan**, April 28th, **2011**.
 8. Ahmad, Haitham; Khalifeh, Ismael and **AlKhatib, Hatim S.** Preparation of an Extended Release Multiparticulate Dosage Form of a High Dose, Highly Soluble Drug Model by Active Layering Technique. Faculty of Pharmacy (University of Jordan) Scientific Day, Amman, **Jordan**, April 28th, **2011**.
 9. Hamed, Saja; **Alkhatib, Hatim**; Albustanji, Yasser; Khalil, Muhammed and Afifi, Fatima. Screening commonly used plant extracts by Jordanian women for ameliorating skin hyperpigmentation for their effects on melanin synthesis. Faculty of Pharmacy (University of Jordan) Scientific Day, Amman, **Jordan**, April 28th, **2011**.
 10. Al Fanek, Rund H.; Bustanji, Yasser and **AlKhatib, Hatim S.**, Evaluation of the Effect of Triglycerides on the Physical & Controlled-Release Properties of Carbamazepine-Loaded Wax Microparticles. Faculty of Pharmacy (University of Jordan) Scientific Day, Amman, **Jordan**, May 6th, **2010**.
 11. Mansour, Randa; Bustanji, Yasser and **AlKhatib, Hatim S.**, Development of Carbamazepine – Loaded Wax Microparticles for Incorporation in Controlled Release Suspensions: Effect of Surfactant Type and Content. Faculty of Pharmacy (University of Jordan) Scientific Day, Amman, **Jordan**, May 6th, **2010**.
 12. Hamam, Rania M.; Bustanji, Yasser and **AlKhatib, Hatim S.**, Effect of Enzymatic Lipolysis on Drug Release from a Lipid – Based Drug Delivery System. Faculty of Pharmacy (University of Jordan) Scientific Day, Amman, **Jordan**, May 6th, **2010**.
 13. Alkelani, Ahlam Zaid, Mohammad, Mohammad K., **AlKhatib, Hatim S.** and Bustanji, Yasser, Development and validation of HPLC method for the determination of β -sitosterol in pharmaceutical product (MEBO). Faculty of Pharmacy (University of Jordan) Scientific Day, Amman, **Jordan**, May 7th, **2009**.

14. Al-Bayati, Dalia, Al-Khalidi, Bashar and **AlKhatib, Hatim S.** Evaluation of carvedilols permeation through buccal cavity. Faculty of Pharmacy (University of Jordan) Scientific Day, Amman, **Jordan**, May 7th, **2009**.
15. Al-Karaki, Rawan N., **AlKhatib, Hatim S.** and Mohammad, Mohammad K. Preclinical safety studies for sulfated chitosan. Faculty of Pharmacy (University of Jordan) Scientific Day, Amman, **Jordan**, May 7th, **2009**.
16. Al-Zoubi, Nizar, **Al Khatib, Hatim**, Bustanji, Yasser and Aiedeh, Khaled. Sustained release buspirone HCl microparticles prepared by cospray-drying with aqueous polymeric dispersions. Poster presentation, **13th Pan-Hellenic Pharmaceutical Congress**, Athens, **Greece**, May 12-14, **2007**.
17. Aiedeh, Khaled M.; **AlKhatib, Hatim S.** and Taha, Mutasem O. Evaluation of Anionic Chitosan Derivatives as Enteric Coating Polymers for Diclofenac Sodium Tablets. Poster presentation, **8th International Symposium on Pharmaceutical Sciences (ISOPS8)**, Ankara, **Turkey**, June 13th-16th, **2006**.
18. **AlKhatib, Hatim S.**; Mohesin, Suha; Aiedeh, Khaled and Bustanji, Yasser. Effect of Formulation variables on the Drug Release Stability of Polyvinyl Acetate / Povidone – Based Matrices. Poster presentation, **8th International Symposium on Pharmaceutical Sciences (ISOPS8)**, Ankara, **Turkey**, June 13th-16th, **2006**.
19. Bharaj, Satinder Singh, Takka, Sevgi, **AlKhatib, Hatim Samir**, Best, Karen, Kelm, G. R. and Sakr, Adel. Development of an Extended Release Dextromethorphan Tablets; In-vivo evaluation. **AAPS Annual Meeting**. Baltimore, MD. **USA**, **2004**.
20. Sarang, Sanjay, Guliants, Vadim, **AlKhatib, Hatim**, Lin, J. Y. S. and Sakr, Adel. Smart Membranes for Protection and Controlled Release of Food Additives. Poster Presentation, **Membrane Applied Science and Technology (MAST) Industrial Advisory Board (IAB) Meeting**, University of Colorado at Boulder, Boulder, CO, **USA**. October 19-21, **2003**.
21. **AlKhatib, Hatim Samir**, Bharag, Satinder Singh and Sakr, Adel. Application of Experimental Centroid Mixture Design for the Optimization of Blends of Polyvinyl Pyrrolidone - Polyvinyl Acetate and Other Excipients in Extended Release Dextromethorphan HBr Matrix Tablets, Poster Presentation. 2003 **AAPS Annual Meeting**, Salt Lake City, UT, **USA**, **2003**.
22. **AlKhatib, Hatim Samir** and Sakr, Adel. Application of the Gompertz Exponential Growth and Korsmeyer-Peppas Equations in the Modeling of Drug Release from Controlled Release Tablets. Poster Presentation, 2003 **AAPS Annual Meeting**, Salt Lake City, UT, **USA**, **2003**.
23. **AlKhatib, H. S.**, Bharaj, S. S., and Sakr, A., Application of Experimental Centroid Mixture Design for the Development of Extended Release Dextromethorphan HBr Tablets. Poster Presentation, **Canadian Society of Pharmaceutical Sciences (CSPS) 6th Annual Symposium on Pharmaceutical Sciences**, Montreal, Quebec, **Canada**, **2003**.
24. **AlKhatib, H.** and Sakr, A., Modeling of the Effect of Triethyl Citrate and Curing on Drug Release From Film Coated Tablets. Poster

- Presentation, 2002 **AAPS Annual Meeting**, Toronto, Ontario, **Canada, 2002.**
25. **AlKhatib, H.** and Sakr, A. Optimization of the Use of Blends of Methacrylic Acid Ester Copolymers as Controlled Release Coatings Using Response Surface Methodology. Poster Presentation, 2002 **AAPS Annual Meeting**, Toronto, Ontario, **Canada, 2002.**
 26. **AlKhatib, H.**, Laohavichien, A., and Sakr, A., Effect of Storage on the characteristics of Fluid Bed Granulated Tablets, Poster Presentation, 1999 **AAPS Annual Meeting**, New Orleans, LA, **USA. 1999.**

PODIUM PRESENTATIONS:

1. **AlKhatib, Hatim S.**; Nanotechnology Applications in Drug Delivery: Local Research Experience. **2017 Phi Research and Innovation Summit.** Aug. 24th - 26th, **2017**, Amman, **Jordan.**
2. **AlKhatib, Hatim S.**; Application of Nanotechnology in Drug Formulation. **Seventh Scientific Day for HMCSR "Local Trends in Pharmaceutical Technology".** Apr. 13th, **2017**, Amman, **Jordan.**
3. **AlKhatib, Hatim S.**; Bridging the Gap between Academia and Industry: Pharmacy as A Model. **The 4th International Conference of the School of Pharmacy – The University of Jordan and The 2nd Conference of the Association of Faculties of Pharmacy at Jordanian Universities.** Oct. 27th, **2016**, Amman, **Jordan.**
4. **AlKhatib, Hatim S.**; Local experience in multi-particulate coating technology using BASF Kollicat grades, **BASF Pharma Seminar**, Sheraton Amman Al Nabil Hotel, Jan 20th, **2015**, Amman, **Jordan.**
5. **AlKhatib, Hatim S.**; Pharmaceutical nanocrystals: a particle design approach to address poor solubility and dissolution of pharmaceutical actives. **Workshop: Nanotechnology: incorporation in industry, part of the 7th Jordan International Chemical Engineering (JICHE07) Conference.** November 4th – 6th, **2014.** Amman, **Jordan.**
6. **AlKhatib, Hatim S.**; Hot Lines for Research!! **The 2nd Pharmacy Students Research Training Program.** September 7th-10th, **2014.** Amman, **Jordan.**
7. **AlKhatib, Hatim S.**; Local experience in the application of multiparticulate coating technology in pharmaceutical development. **The 6th Conference on Scientific Research in Jordan.** October 23rd, **2013.** Amman, **Jordan.**
8. **Hamed, Saja; AlKhatib, Hatim S.**; Bustanji, Yasser; Afifi, Fatma; Mohammad, Mohammad. **The use of folkloric botanical extracts as topical skin lightening agents.** The 3rd International Symposium on Medicinal Plants, Their Cultivation and Aspects of Uses. November 21st-23rd, **2012.** Petra, **Jordan.**
9. **AlKhatib, Hatim S.**, **Statistical Design of Experiments: Implementation in Pharmaceutical Quality by Design.** Introductory QbD for Regulators and Industry, Workshop Organized by the Arab Union of the Manufacturers of Pharmaceuticals and Medical Appliances (AUPAM) in Collaboration with the University of Jordan Faculty of Pharmacy. January 28th-30th, **2012.** Amman, **Jordan.**

10. ***AlKhatib, Hatim S., Excipients and Quality by Design.*** Introductory QbD for Regulators and Industry, Workshop Organized by the Arab Union of the Manufacturers of Pharmaceuticals and Medical Appliances (AUPAM) in Collaboration with the University of Jordan Faculty of Pharmacy. January 28th-30th, **2012**, Amman, **Jordan**.
11. ***AlKhatib, Hatim S. Process Analytical Technology.*** Jordanian International Pharmaceutical Conference (JIPC 2010). October 22-23, **2010**, Amman, **Jordan**.
12. ***AlKhatib, Hatim S. Role of Process Analytical Technology (PAT) in Technology Transfer.*** 14th Annual Meeting of the Arab Union of the Manufacturers of Pharmaceuticals and Medical Appliances (AUPAM). September 20-22, **2010**, Amman, **Jordan**.
13. ***Mansour, Randa Shehda, AlKhatib, Hatim S. and Bustanji, Yasser. Evaluation of the Effect of Surfactant Type and Content on the Physical and Controlled Release Properties of Carbamazepine Loaded Wax-Microparticles Prepared by Melt Emulsification Technique.*** The Second Graduate Studies Research Conference, October 27-29, **2009**, Amman, **Jordan**.
14. ***Al-Karaki, Rawan Nayef, Mohammad, Mohammad K., AlKhatib, Hatim S.*** Preparation of sulfated chitosan, its physical characterization and biological safety. The Second Graduate Studies Research Conference, October 27-29, **2009**, Amman, **Jordan**.
15. ***AlKhatib, Hatim S., Bustanji, Yasser, Thawabtah, Mahmoud, Aiedeh, Khaled and Mohammad, Mohammad K. Evaluation and Optimization of a Lipid Based Drug Delivery System.*** XXXI Conference of Pharmaceutical Sciences organized by the Egyptian Pharmaceutical Society, December 23-25, **2008**, Cairo, **Egypt**.
16. ***AlKhatib, Hatim S., International Regulations of Bioequivalence,*** First JAPM Bioequivalence Conference, July 14-15, **2008**, Amman, **Jordan**.
17. ***AlKhatib, Hatim S.; Perspectives on Industrial Academic Collaboration in Pharmacy.*** Faculty of Pharmacy (Jordan University) Scientific Day, May 22nd, **2008**, Amman, **Jordan**.
18. ***AlKhatib, Hatim S.; Drug Expiry Date.*** Royal Medical Services: Continuing Pharmacy Education. February 25th, **2008**, Amman, **Jordan**.
19. ***AlKhatib, Hatim; Polymorphism: A Scientific Overview.*** USP 3rd Regional Meeting (In collaboration with Jordanian Association of Pharmaceutical Manufacturers JAPM and JFDA), October 29th-30th, **2007**, Amman, **Jordan**.
20. ***AlKhatib, Hatim; Regulatory Aspects of Biowaiver of Immediate and Controlled Release Oral Solid Dosage Forms.*** JFDA WHO-Sponsored Workshop, Implementation of Global Guidelines in Bioequivalence and Stability Studies, March 3rd, **2007**, Amman, **Jordan**.
21. ***AlKhatib, Hatim; Aiedeh, Khaled and Bustanji, Yasser. Interaction of casein and Diltiazem HCl: Implications for Controlled Release Formulation.*** The 3rd International Conference of the Royal Medical Services (In collaboration with the Royal College of Physicians of London), April 5th-8th **2006**, Amman, **Jordan**.

22. **AlKhatib, Hatim, Application of Statistical Modeling in the Optimization of Pharmaceutical Formulations.** Faculty of Pharmacy (University of Jordan) Scientific Day, June 2nd, **2005**, Amman, **Jordan**.
23. **AlKhatib, Hatim Samir**, Bharag, Satinder Singh and Sakr, Adel. **Application of Experimental Centroid Mixture Design for the Development of Extended Release Dextromethorphan HBr Matrix Tablets.** 1st Pharmaceutical Scientific Day of the Royal Medical Services (RMS), December 23rd, **2004**, Amman, **Jordan**.
24. **AlKhatib, Hatim** and Sakr, Adel, **Optimization of Controlled Release Film Coating.** Podium Presentation, Al-Azhar 3rd International Conference for Pharmaceutical and Biological Sciences, December 16-18, **2003**, Cairo, **Egypt**.
25. **Sarang, Sanjay**, Guliants, Vadim, **AlKhatib, Hatim**, Lin, J. Y. S. and Sakr, Adel. **Smart Membranes for Protection and Controlled Release of Food Additives. Podium Presentation**, Membrane Applied Science and Technology (MAST) Industrial Advisory Board (IAB) Meeting, University of Colorado at Boulder, October 19-21, **2003**, Boulder, CO, **USA**.

PROFESSIONAL PUBLICATIONS:

1. Fraihat, S. M. and **AlKhatib, H. S.**, Development and validation of spectrophotometric and spectrofluorimetric methods for determination of cilnidipine. **Tropical Journal of Pharmaceutical Research**. 19 (7), 1503-1506 (**2020**).
2. **AlKhatib, H. S.**; Brazeau, G.; Akour, A.; Almuhaissen, S. Evaluation of the Effect of Items' Format and Type on Psychometric Properties of Sixth Year Pharmacy Students Clinical Clerkship Assessment Items. **BMC Medical Education**. 20, 190 (**2020**). <https://doi.org/10.1186/s12909-020-02107-3>
3. Bisharat, Lorina; **Alkhatib, Hatim S.**; Abdelhafez, Amer.; Barqawi, Aya; Aljaberi, Ahmad; Qi, Sheng; Berardi, Alberto. Hot melt extruded zein for controlled delivery of diclofenac sodium: effect of drug loading and medium composition. **International Journal of Pharmaceutics**. 558, 119503(**2020**). <https://doi.org/10.1016/j.ijpharm.2020.119503>.
4. **AlKhatib, H. S.**; Jalouqa, S.; Maraqa, N.; Ratka, A.; Elayeh, S Al Muhaissen. Prevalence, determinants, and characteristics of extemporaneous compounding in Jordanian pharmacies. **BMC Health Services Research**. 19 (1), 816 (**2019**).
5. Alkrad, J. A.; **AlKhatib, H. S.**; Musa, R. J. Formulation, in vitro and in vivo evaluation of ferrous sulfate loaded microemulsions. **Journal of Drug Delivery Science and Technology**. 53 (October 2019), 101149 (**2019**).
6. Bisharat, Lorina; **AlKhatib, Hatim S.**; Muhaissen, Suha; Quodbach, Julian; Blaibleh, Anaheed; Cespi, Marco; Berardi, Alberto. The influence of ethanol on superdisintegrants and on tablets disintegration. **European Journal of Pharmaceutical Sciences**. 129, 140-147 (**2019**).

7. Hamed, S.; Almalty, A. M.; **AlKhatib, H. S.**; Al-Hashimi, N. N.; Hamed, D. Does Salt and Mineral Content of Dead Sea Mud Affect Its Irritation Potential: A Laser Doppler Flowmetry Study. **Journal of Cosmetic Science**. 70 (5), 259 (2019).
8. Al Muhaisen, S. A.; Ratka, A.; Akour, A.; **AlKhatib, H. S.** Quantitative analysis of single best answer multiple choice questions in pharmaceuticals. **Currents in Pharmacy Teaching and Learning**. 11 (3), 251-257 (2019).
9. Alkhalidi, Bashar A.; **AlKhatib, Hatim S.**; Saleh, Mohammad; Hamed, Saja; Bustanji, Yasser; Al Bujuq, Nader; Najib, Naji, Torrado-Susana , Susana; Sallam, Al-Sayed. Clarithromycin laurate salt: physicochemical properties and pharmacokinetics after oral administration in humans. **Pharmaceutical Development and Technology**. 24 (5), 607-615 (2019).
10. Berardi, A.; Bisharat, L.; **AlKhatib, H. S.**; Cespi, M. Zein as a pharmaceutical excipient in oral solid dosage forms: state of the art and future perspectives. **AAPS PharmSciTech**. 19 (5), 2009-2022 (2018).
11. Alhawmdeh, E. H.; Barqawi, A.; **AlKhatib, H. S.** Effect of casein incorporation on the release of diltiazem HCl from hypromellose-based matrix tablets. **Jordan Journal of Pharmaceutical Sciences**. 11 (2), 93-103 (2018).
12. Bisharat, Lorina; Berardi, Alberto; Perinelli, Diego R.; Bonacucina, Giulia; Casettari, Luca; Cespi, Marco; **AlKhatib, Hatim S.**; Palmieri, Giovanni F. Aggregation of zein in aqueous ethanol dispersions: Effect on cast film properties. **International Journal of Biological Macromolecules**. 106, 360-368 (2018).
13. Al-Hashimi, N.; Aleih, H.; Fafous, I.; **AlKhatib, Hatim S.** Multi-walled carbon nanotubes as efficient sorbent for the solid bar microextraction of non-steroidal anti-inflammatory drugs from human urine samples. **Current Pharmaceutical Analysis**. 14 (3), 239 – 246 (2018).
14. Alkhalidi, Bashar A.; Albarahmeh, Esra'a; Qassim, Sami M. A.; Al-Asa'ad, Manar A. L.; **AlKhatib, Hatim S.** An Investigation into Formulation and Processing Strategies to Drive Gastroretention of Gabapentin Tablets. **Journal of Pharmaceutical Innovation**. 12, 367–373 (2017).
15. Berardi, Alberto; Bisharat, Lorina; Cespi, Marco; Basheti, Iman A.; Bonacucina, Giulia; Pavoni, Lucia; **AlKhatib, Hatim S.** Controlled release properties of zein powder filled into hard gelatin capsules. **Powder Technology**. 320, 703-713 (2017).
16. Berardi, Alberto; Bisharat, Lorina; Bonacucina, Giulia; Casettari, Luca; Logrippio, Serena; Cespi, Marco; **AlKhatib, Hatim S.**; Palmieri, Giovanni F. Formulation, swelling and dissolution kinetics study of zein based matrix tablets. **Powder Technology**. 310, 241-249 (2017).
17. Abdelghany, S.; Alkhalwaldeh, M.; **AlKhatib, H. S.** Carageenan-stabilized chitosan alginate nanoparticles loaded with ethionamide for

- the treatment of tuberculosis. *Journal of Drug Delivery Science and Technology*. 39, 242-249 (2017).
18. Al Durdunji, A.; **AlKhatib, H. S.**; Al-Ghazawi, M. Development of a biphasic dissolution test for Deferasirox dispersible tablets and its application in establishing an in vitro–in vivo correlation. *European Journal of Pharmaceutics and Biopharmaceutics*. 102, 9-18 (2016).
 19. Khdaif, Ayman; Hamad, Islam; **AlKhatib, H. S.**; Bustanji, Yasser; Mohammad, Mohammad; Tayem, Rabab; Aiedeh, Khaled. Modified-chitosan nanoparticles: Novel drug delivery systems improve oral bioavailability of doxorubicin. *European Journal of Pharmaceutical Sciences*. 93, 38-44 (2016).
 20. Al-Ismail, K.; El-Dijani, L.; **Al-Khatib, H.**; Saleh, M. Effect of microencapsulation of vitamin C with Gum Arabic, whey protein isolates and some blends on its stability. *Journal of Scientific and Industrial Research*. 75, 176-180 (2016).
 21. Belkacem, N.; Sheikh Salem, M. A.; **AlKhatib, H. S.** Effect of ultrasound on the physico-chemical properties of poorly soluble drugs: antisolvent sonocrystallization of ketoprofen. *Powder Technology*. 285, 16-24 (2015).
 22. Shahin, S.; Hamed, S.; **AlKhatib, H. S.** Effect of formulation variables on the physical properties and stability of Dead Sea mud masks. *Journal of Cosmetic Science*. 66, 6, 335-357 (2015).
 23. Al-Zoubi, N.; **Alkhatib, H. S.**; Alobaidi, G.; Abdel-Rahim, S.; Obeidat, W.; Malamataris, S. Optimization of pH-independent chronotherapeutic release of verapamil HCl from three-layer matrix tablets. *International Journal of Pharmaceutics*. 494, 1, 296-303 (2015)
 24. Al-Ismail, K. M.; Mehayar, G.; **Al-Khatib, H. S.**; Al-Dabbas, M. Effect of microencapsulation of cardomom's essential oil in gum Arabic and whey protein isolate using spray drying on its stability during storage. *Quality Assurance and Safety of Crops and Foods*. 7, 5, 613-620 (2015)
 25. Obeidat, W. M.; Nokhodchi, A.; **Alkhatib, H.** Evaluation of Matrix Tablets Based on Eudragit®E100/Carbopol®971P Combinations for Controlled Release and Improved Compaction Properties of Water Soluble Model Drug Paracetamol. *AAPS PharmSciTec*. DOI: 10.1208/s12249-015-0301-5 (2015).
 26. Alkilany, Alaaldin M.; Abulateefeh, Samer R.; Mills, Kayla K.; Bani Yaseen, Alaa I.; Hamaly, Majd A.; **Alkhatib, Hatim S.**; Aiedeh, Khaled M.; Stone, John W. Colloidal Stability of Citrate and Mercaptoacetic Acid Capped Gold Nanoparticles upon Lyophilization: Effect of Capping Ligand Attachment and Type of Cryoprotectants. *Langmuir* 30, 46, 13799-13808 (2014).
 27. Ahmad, Haitham; Khalifeh, Ismail; AlKhalidi, Bashar; Aiedeh, Khaled and **AlKhatib, Hatim S.** Application of active layering and coating

- techniques in the development of a multiparticulate, extended release dosage form of a high-dose, highly-soluble drug. ***Pharmaceutical Development and Technology***, 19, 5, 556-564 (2014).
28. Khdair, Ayman; Hamad, Islam; Al-Hussaini, Maysa; Albayati, Dalya; ***Alkhatib, Hatim*** and Alkhalidi, Bashar. In vitro Artificial Membrane-Natural Mucosa Correlation of Carvedilol Buccal Delivery. ***Journal of Drug Delivery Science and Technology***, 23, 6, 603-609 (2013).
29. Al-Akayleh, Faisal; AL-Mishlab, Mustafa; Shubair, Mohammed, ***AlKhatib, Hatim S.***; Rashid, Iyad and Badwan, Adnan. Development and Evaluation of a Novel, Multifunctional, Co-processed Excipient via Roll Compaction of α - Lactose Monohydrate and Magnesium Silicate. ***Journal of Excipients and Food Chemicals***, 4, 2, 27-37 (2013)
30. Fraihat, Safwan M. and ***Khatib, Hatem S.*** Indirect Spectrophotometric Determination of Tolterodine Tartrate in Pure and Pharmaceutical Preparations. ***Asian Journal of Chemistry***, 25,4,1887-1890 (2013).
31. AlMuhaissen, Suha A.; AlKhalidi, Bashar; Bustanji, Yasser; Aiedeh, Khaled; Mohammad, Mohammad K. and ***AlKhatib, Hatim S.*** Evaluation of Binary Carrier System for the Dissolution Enhancement of a High Dose Poorly Soluble Drug. ***Jordan Journal of Pharmaceutical Sciences***, 5(1): 30-40 (2012).
32. Mohammad, M; Al-Masri; IM, Issa, A; Al-Ghoussein, MA; Fararjeh, M; ***Alkhatib, H***; Taha, MO; Bustanji, Y. Famotidine inhibits glycogen synthase kinase-3 β : An investigation by docking simulation and experimental validation. In Press, ***J. Enzym. Inhib. Med. Ch.*** 28, 4, 690-694 (2012).
33. Hamed, Saja H.; Altrabsheh, Bilal; Assa'd, Tareq; Jaradat, Said; Alshra'ah, Mohammad; Aljamal, Abdulfattah, ***AlKhatib, Hatim S.*** and Almalty Abdul-Majeed, Development, in Vitro and in Vivo Evaluation of an In-house Conductance Meter for Skin Hydration Measurement. ***In Press, Med Eng Phys*** 34, 10, 1471-1476 (2012).
34. Saleh, Suhair; Mohammad, Mohammad; Mashallah, Sundus H.; Elayeh, Eman; AlMasri, Ihab; ***AlKhatib, Hatim S.***; Fararjeh, Mohammad and Bustanji, Yasser. Inhibition of DPP IV is a suggested mechanism of the immunomodulatory effects of Sparfloxacin. ***Sci. Res. Essays***, 7(3), 310-317, (2012).
35. Al-Zoubi, Nizar M.; ***AlKhatib, Hatim S.*** and Obeidat, Wasfy M. Evaluation of hydrophilic matrix tablets based on Carbopol® 971P and low viscosity sodium alginate for pH-independent controlled drug release. ***Drug Dev. Ind. Pharm.*** 37(7):798-808, (2011).

36. Bustanji, Yasser; Mohammad, Mohammad; Hudaib, Mohammad; Tawaha, Khaled; Al-Masri, Ihab M.; **AlKhatib, Hatim S.**; Issa, Ala; and Alali, Feras Q. Screening of Some Medicinal Plants for their Pancreatic Lipase Inhibitory Potential. **Jordan Journal of Pharmaceutical Sciences**, 4(2): 81-88 (2011).
37. Bustanji, Yasser; Al-Masri, Ihab M.; Hudaib, Mohammad; Tawaha, Khaled; Mohammad, Mohammad and **Alkhatib, Hatim S.** Pancreatic lipase inhibition activities of Trilactone Terpenes of Ginkgo biloba. **J. Enzym. Inhib. Med. Ch.**, 26(4):453-9 (2011).
38. Bani-Jaber, Ahmad; Al-Aani, Leena, AlKhatib, Hatim and Al-Khalidi, Bashar. Prolonged Intragastric Drug Delivery Mediated by Eudragit® E-Carrageenan Polyelectrolyte. **AAPS PharmSciTech**, 12(1), 354-661 (2011).
39. Abu Farha, Rana; Issa, Ala; Fararjah, Mohammad; Mohammad, Mohammad; AlKatib, Hatim, Saleh, Suhair and Yasser Bustanji. Evaluation of the in vitro and in vivo therapeutic equivalence of two pharmaceutically equivalent heparin products. **Scientific Research and Essays**, 6(2), 388-393 (2011).
40. Mohammad, Mohammad K.; Tayyem, Rabab; Hamed, Saja; Almasri, Ihab M.; **AlKhatib, Hatim**; Hudaib, Mohammad and Bustanji, Yasser. Development of a new animal model-bioassay procedure for the evaluation of Xanthine oxidase inhibitors. **Scientific Research and Essay**, 5(23): 3750-3755, (2010).
41. Mohammad, M. K.; Almasri, I. M.; Tawaha, K., Hudaib, M.; **Alkhatib, H. S.**; AbuGharbia, E.; Bustanji, Y. Antioxidant, Antihyperuricemic and Xanthine Oxidase Inhibitory Activities of Hyoscyamus reticulatus. **Pharmaceutical Biology**, 48(12), 1376-1383 (2010).
42. Bustanji, Yasser; Issa, Ala; Mohammad, Mohammad; Hudaib, Mohammad; Tawah, Khalid; **AlKhatib, Hatim**; AlMasri, Ihab and Al-Khalidi, Bashar. Inhibition of hormone sensitive lipase and pancreatic lipase by Rosmarinus officinalis extract and selected phenolic constituents. **Journal of Medicinal Plants research**, 4(21), 2235-2242 (2010).
43. Khdaib, Ayman; Mohammad, Mohammad; Tawaha, Khaled, Al-Hamarsheh, Eman; **AlKhatib, Hatim**; Al-khalidi, Bashar; Bustanji, Yasser; Najjar, Samer; and Hudaib, Mohammad. A Validated RP HPLC-PDA Method for the Determination of Hederacoside C in Ivy-Thyme Cough Syrup. **International Journal of Analytical Chemistry**. Volume 2010 (2010), Article ID 478143, 5 pages (2010).
44. Mohammad, M. K.; Aldahasi, W. B.; Khdaib, A.; Salah, R.; **AlKhatib, H. S.**; Bustanji, Y. A simple and rapid high-performance liquid

- chromatographic method for the determination of Umckalin, as an herbal marker, in the cough syrup of Pelargonium extract. **Jordan Journal of Pharmaceutical Sciences**. 3(2), 109-116 (2010).
45. Mohammad Mohammad, Khaled M. Aiedeh, **Hatim S. AlKhatib**, Khaled Tawaha, Bashar AlKhalidi, Ihab M. Al-Masri, Saja Hamed and Yasser Bustanji. A Comparative Enzymatic Inhibition Assay as a Surrogate Indicator of Pharmaceutical and Potency Equivalence of Two Orlistat Formulations. **Jordan Journal of Pharmaceutical Sciences**. 3(2), 69-74 (2010).
46. Alkhalidi, Bashar, Al-Ghazawi, Mutasim, **AlKhatib, Hatim S.**, Sallam AlSayed. Development of a predictive in vitro dissolution for clarithromycin granular suspension based on in vitro-in vivo correlations. **Pharm. Dev. Technol.** 15(3), 286-295 (2010).
47. AlKhalidi, B. A. and **AlKhatib, Hatim S.** Comparative Dissolution of Diltiazem Immediate and Extended Release Products Using Conventional USP and Innovative Dissolution Paddles. **The Open Drug Delivery Journal**, 4(7), 48-54 (2010).
48. Hamed, Saja H.; Tayyem, Reema; Nimer, Nisreen; **AlKhatib, Hatim S.** Skin-lightening practice among women living in Jordan: Prevalence, determinants, and user's awareness. **Int. J. Dermatol**, 49, 414–420, (2010).
49. **AlKhatib, Hatim S.**; Hamed, Saja; Najjar, Samer; Mohammad, Mohammad K.; Bustanji, Yasser; Aiedeh, Khaled M.; AlKhalidi, Bashar. Effects of Thermal Curing Conditions on Drug Release from Polyvinyl Acetate – Polyvinyl Pyrrolidone Matrices. **AAPS PharmSciTech**, 11(1), 253-66, (2010).
50. Bustanji, Yasser; Taha, Mutasem O.; Almasri, Ihab M.; Al-Ghoussein, Mohamed A.; Mohammad, Mohammad K.; **AlKhatib, Hatim S.** Inhibition of Glycogen Synthase Kinase by Curcumin: Investigation by Simulated Molecular Docking and Subsequent *in vitro/in vivo* evaluation. **J. Enzym. Inhib. Med. Ch.** 24(3): 771–778, (2009).
51. **AlKhatib, Hatim S.**; Aiedeh, Khaled M.; Bustanji, Yasser; Hamed, Saja; Mohammad, Mohammad K.; AlKhalidi, Bashar; Najjar, Samer. Modulation of Buspirone HCl Release from Hypromellose Matrices Using Chitosan Succinate: Implications for pH Independent Release. **Eur. J. Pharm. Biopharm.** 70, 3, 804-812, (2008).
52. Alkhalidi, Bashar A., Eshtewi, Majed, **AlKhatib, Hatim S.**, Mohammad, Mohammad, Bustanji, Yasser. Development and Validation of a First Derivative UV Spectrophotometric Method for the Analysis of Repaglinide and Its Application in Tablet Assay and Dissolution Testing. **J. AOAC Int.**, 91(3), 530-535 (2008).

53. Al-Zoubi, Nizar, **AlKhatib, Hatim S.**, Bustanji, Yasser, Aiedeh, Khaled. Sustained-release of buspirone HCl by co spray-drying with aqueous polymeric dispersions. *Eur. J. Pharm. Biopharm.*, 69, 2, 735-742 (2008).
54. Mohammad, Mohammad; Al-masri, Ihab M.; Taha, Mutasem O.; Al-Ghussein, Mohamed; Bustanji, Yasser; **AlKhatib, Hatim**; Najjar, Samer. Olanzapine Inhibits Glycogen Synthase Kinase-3 β : An Investigation by Docking Simulation and Experimental Validation. *Eur. J. Pharmacol.*, 584, 1, 185-191 (2008).
55. Taha, Mutasem O., Nasser, Wissam, Ardakani, Adel and **AlKhatib, Hatim S.**. Sodium Lauryl Sulfate Impedes Drug Release from Zinc-Crosslinked Alginate Beads: Switching From Enteric Coating Release into Biphasic Profiles. *Int. J. Pharm.*, 350, 291–300 (2008).
56. Fararjeh, Mohammad; Mohammad, Mohammad K.; Bustanji, Yasser; **AlKhatib, Hatim** and Abdalla, Shtaywy. Evaluation of immunosuppression induced by metronidazole in Balb/c mice and human peripheral blood lymphocytes. *Int. Immunopharmacol.*, 8, 341-350, (2008).
57. Aiedeh, Khaled M.; Taha, Mutasem O.; Al-Hiari, Yusuf; Bustanji, Yasser; **AlKhatib, Hatim S.** Effect of Ionic Crosslinking on The Drug Release Properties of Chitosan Diacetate Matrices. *J. Pharm. Sci.*, 96, 1, 38-43 (2007).
58. **AlKhatib, Hatim S.**, Aiedeh, Khaled M., Taha, Mutasem O., Bustanji, Yasser, and Sweileh, Bassam. Synthesis and *in Vitro* Evaluation of Iron-Crosslinked *N*-Methyl and *N*-Benzyl Hydroxamated Derivatives of Alginic Acid as Controlled Release Carriers. *Eur. Polym. J.*, 42, 2464–2474 (2006).
59. Aiedeh, Khaled M., **AlKhatib, Hatim**, Zoubi, Nizar, and Taha, Mutasem O. Application of Novel Chitosan Derivatives in Dissolution Enhancement of a Poorly Water Soluble Drug Using Spray Drying Technique. *Pharmazie*, 61(4), 306-311 (2006).
60. Taha, Mutasem, Aiedeh, Khaled, Al-Hiari, Yusuf and **AlKhatib, Hatim**. Synthesis of Zinc-Crosslinked Thiolated Alginic acid Beads and their In Vitro Evaluation as Potential Enteric Delivery System Utilizing Folic Acid as Model Drug. *Pharmazie*, 60(10), 736-742 (2005).
61. Aiedeh, Khaled, Taha, Mutasem and **AlKhatib, Hatim**. Evaluation of Chitosan-Succinate and Chitosan-Phthalate as Enteric Coating Polymers for Diclofenac Sodium Tablets. *J. Drug Del. Sci. Tech.*, 15(3) 207-211 (2005).
62. **AlKhatib, Hatim Samir**, and Sakr, Adel, Modeling of the Effect of Triethyl Citrate and Curing on Drug Release From Film Coated Tablets. *Pharm. Ind.* 67(2): 237-242 (2005).

63. Sakr, Adel and **AlKhatib, Hatim Samir**, Pharmaceutical Industry and the Industrial Pharmacy Education in Jordan, **International Pharmaceutical Journal**, 17(1): 7-8 (2003).
64. Sakr, Adel and **AlKhatib, Hatim Samir**, Academic and Post-Academic Education in Industrial Pharmacy in the USA, **International Pharmaceutical Journal**, 17(1): 31-32 (2003).
65. **Alkhatib, Hatim Samir**, and Sakr, Adel, Optimization of Blends of Methacrylic Acid Ester Copolymers as Controlled Release Coatings Using Response Surface Methodology. **Pharm. Dev. Technol.** 8: 87-96 (2003).

MASTER STUDENT SUPERVISION:

1. **Suha Al-Muhaissen**, Effect of Formulation Variables on the Drug Release Stability From Polyvinyl Acetate - Povidone Matrices. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan**. **Defended May 2006**.
2. **Mahmoud Thawabteh**, Evaluation and Optimization of a Lipid-Based Drug Delivery System with Enhanced Dissolution/Solubility Properties. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan**. **Defended December 2006**.
3. **Shereen Alturk**, Effect of Formulation and Process Variables on Drug Release from Wax Microspheres Prepared by Solvent Evaporation. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan**. **Defended May 2007**.
4. **Mohammad Khanfar**, Preparation and Characterization of Organic Salts of Valproic Acid: A Preformulation Study. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan**. **Defended May 2007**.
5. **Ibtisam Hawamdeh**, Development and Evaluation of Sustained release suspensions of an antiepileptic drug for Pediatric Applications. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan**. **Defended May 2007**.
6. **Manar Al-Ghabeish**, Evaluation of the Solubilization Capacity of Gelucire 44/14 and Pluronic F127 Combinations. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan**. **Defended July 2008**.
7. **Amani Farah**, Preparation of Procaine Salts of an Acidic Drug and Application in Controlled Release Formulation. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan**. **Defended August 2008**.

8. **Rima Shenouda**, Effect of formulation variables on the drug release properties from tablets made from ionically crosslinked polymeric matrices. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended October 2008.**
9. **Randa Mansour**, Evaluation of the Effect of Surfactant Type and Content on the Physical and Controlled Release Properties of Carbamazepine Loaded Wax-Microparticles Prepared by Melt Emulsification Technique. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended November 2008.**
10. **Dalia Al-Bayati**, Evaluation of carvedilol permeation through buccal mucosa. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended May 2009.**
11. **Rawan Karaki**, Preparation of sulfated chitosan, its physical characterization and biological safety. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended May 2009.**
12. **Ahlam Kilani**, Development and validation of an HPLC method for the determination of β -sitosterol in a pharmaceutical product (MEBO[®]). MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended May 2009.**
13. **Rania Hamam**, Effect of Enzymatic Lipolysis on Drug Release from a Lipid-Based Drug Delivery System. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended July 2009.**
14. **Asma Fakhoury**, Effect of Polymeric Release Modulators on Drug Release From Solid Lipid Microparticles. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended May 2010.**
15. **Rund AlFanek**, Evaluation of effect of triglycerides carriers on the physical and controlled release properties of carbamazepine loaded wax microparticles prepared by high pressure homogenization technique. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended May 2010.**
16. **Rasha Salah Darwish**. Development and response surface optimization of a matrix – type delivery system using hydrophilic and hydrophobic components. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended December 2010.**
17. **Firas AlMamori**, Effect of the architectural configuration on drug release profiles of multi – layered, multi - particulate drug delivery system. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended April 2011.**

18. **Nassim Belkacem**, The effect of ultrasound on the physicochemical properties of poorly-water soluble drugs. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **Jordan University of Science and Technology. Defended May 2011.**
19. **Haitham Ahmad**, Preparation of an extended release multiparticulate dosage form of a high dose, highly soluble drug model by active layering technique. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended August 2011.**
20. **Jozef Al-Gousous**, Development of Biorelevant Dissolution Testing Conditions for Fat-based Progesterone Pessaries and their Potential Application for in vitro-in vivo correlation (IVIVC). MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended 2011.**
21. **Yusef Laham**, Development and in vitro release studies of Tadalafil in liquid filled hard gelatin capsules. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended April 2012.**
22. **Lima Abu Murrah**, Evaluation of Mini tablet Technology as Controlled Release Multiparticulate Delivery Platform. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended April 2012.**
23. **Lina Khalil Hammad**, Development and Evaluation of Controlled Release Matrix of Levitricetam Tablets Comprising Hydrophilic Polymer and Lipophilic Polymer. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended December 2012.**
24. **Jalal Malod Ben Amer**, Development and Evaluation of a Dual Release, Multiparticulate, Fixed-Dose Combination of Metoprolol and Ramipril Using Active Layering and Coating Technique. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended August 2012.**
25. **Roayda J. Alsaidalani**, Factors affecting lipolysis of selected lipid based excipients. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended August 2012.**
26. **Aseel Muhib Ahmad Mahmoud**, Development and Evaluation of a Micellar Drug Delivery System Based on Poly (ethyleneoxide)-b-Poly (propyleneoxide) (PEO-b-PPO) block copolymers. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended December 2012.**
27. **Rula Haddadin**, the Investigation of the Adsorption Potential of Different Active Pharmaceutical Ingredients on Synthetic Magnesium

- Silicate. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended January 2013.**
28. **Osama Mustafa Boudar**, Development and Evaluation of Novel Pharmaceutical Excipient by Co-Processing of Microcrystalline Cellulose and Magnesium Silicate by Roller Compaction. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended January 2013.**
 29. **Lelas Abed Al-Salam El-Dijani**, Effect of Microencapsulation with Gum Arabic, Whey Protein Isolate and Some Combinations of Them on the Stability of Vitamin C in Milk Powder. MSc in Food Science and Technology, Faculty of Agriculture, **University of Jordan. Defended January 2013.**
 30. **Azza Manbi Ali Almanfi**, Application of Powder Rheometry as an Offline Indicator of Wet Granulation End Point. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended April 2013.**
 31. **Amal Inaam Ramzi Al Durdunji**, In Vitro Integration of Permeability with the Dissolution Profile of Defirasirox Dispersible Tablets and Its Potential for Establishing In Vitro In Vivo Correlation. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended December 2013.**
 32. **Baraa Isaa Matalqah**, Evaluation of Controlled Drug Delivery of Highly Water Soluble Drugs in Ordered Mesoporous Silica Fibers. MSc in Chemical Engineering, Faculty of Engineering, **University of Jordan. Defended December 2013.**
 33. **Yahia Zakaria Tabaza**, Implementation of Chemometrics in Studying Drug Excipient Compatibility for Ciprofloxacin as a Model. Quality by Design Approach. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended December 2013.**
 34. **Ahmad Osama Al-Remawi**, Preparation of Controlled Release Particulate Systems for Pulmonary Administration of an Antibiotic. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended May 2014.**
 35. **Tareq M. Dwickat**, Improving Fenofibrate Solubility Using Ultrasonic Assisted Crystallization. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended May 2014.**
 36. **Manhal Fadi Tulimat**, Development and evaluation of controlled release, multiparticulate-based, disintegrating tablets of Metoprolol Succinate using active layering and coating techniques followed by direct compression. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended October 2014.**

37. **Rasha Ata Al Khateeb**, Development and Evaluation of A Discriminatory Dissolution Medium of The Poorly Water Soluble Drug Ezetimibe. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended April 2015.**
38. **Alaa Adnan Ali**, Effect of Mode of Processing of Telmisartan Nanosuspensions on Drug Release from Nano Particle Containing Solid Dosage Forms. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended April 2015.**
39. **Amer Mohammed Abdelhafez**, Effect of Ionic Crosslinking on The Physical and Release Properties of Polymeric Microparticles. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended December 2016.**
40. **Raya A. Al-Manasir**, Development and Optimization of Multiparticulate System with Enteric Dual Releases of Dexlansoprazole. MSc in Chemical Engineering, Faculty of Engineering, **University of Jordan. Defended December 2016.**
41. **Maha Hasan Al-khawaldeh**, Development and Evaluation of Polymeric Particulate Ocular Delivery System for Dexamethasone. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended December 2016.**
42. **Mohammad Bahaa Samir Majzoub**, Polymeric Nanoparticle Drug Delivery System for the Management of Glaucoma. PhD in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended December 2016.**
43. **Amani Sharabati**, Development and evaluation of telmisartan crystals prepared by pH-induced sonocrystallization. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended January 2016.**
44. **Rawan Nayef Al-Karaki**, Development and Characterization of A Micellar Drug Delivery Platform for Poorly – Soluble, Efflux – Pump – Substrate Drugs. PhD in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended December 2016.**
45. **Rawan Abdeljaleel AlMasalha**, Preparation and Characterization of Paromomycin Ion Pairs with Amphiphilic Anions. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended October 2017.**
46. **Ayah Ahmad Saleh**, Deliquescence of Betahistine Dihydrochloride : A Thermodynamic Evaluation and the Effect of Selected Anticaking Agents on Water Uptake. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended July 2017.**

47. **Saba Nabeel Albetawi**, Preparation and Evaluation Of Solidified Micelle-Solubilized Telmisartan Systems. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended July 2017.**
48. **Feras Oqab Melhem**, Effects of manufacturing methods on the controlled release properties of Eudragit® polymers based tablets. . MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended March 2018.**
49. **Fatema Abdullah**, Introducing new methodology to increase the product rate of nanoparticle through microemulsion preparation method. MSc in Chemistry, Faculty of Science, **University of Jordan. Defended December 2018.**
50. **Mohammad Hadi Al Saidi**, Development of HPLC Method for the Identification of Hederacoside C in English Ivy Leaves. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended November 2018.**
51. **Lama Najah Al-Adham**, Development of sustained release injectable microparticle of Risperidone with improved release properties. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended April 2018.**
52. **Sama'a Ahmad Krayyem Abu Alghanam**, Preparation and Characterization of Taurine Amide Surface Active Derivatives and Application as Counter Ions in Hydrophobic Ion Pairs. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended December 2019.**
53. **Maha Nour Eddin Abu Hajleh**, Development, In Vitro and In Vivo Evaluation of Parenteral Depot Formulation of Hydrophobic Valproate Ion Pairs. PhD in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended December 2019.**
54. **Haneen Saleh Al-Fayoumi**, Preparation and Evaluation of Solidified Micelle-Solubilized Carvedilol Systems. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended December 2019.**
55. **Ghayda Subhi Al Omari**, Development of polymeric carbamazepine-loaded microparticles for incorporation into pediatric controlled release suspensions. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended January 2019.**
56. **Ahid Abdel Rahman Alkhaldeh**, Development of A Solid Dosage Form of Carvedilol with Enhanced Release Properties Based on Solidified Microsuspensions. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan. Defended April 2019.**

57. **Esra Edries Malkawi**, Preparation and Characterization of Hydrophobic Ion Pairs of Glucosamine. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan**. **Defended July 2019**.
58. **Rami Shaltaf**, Development and evaluation of dexamethasone-loaded acrylate esters - based nanoparticles for ophthalmic application. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan**. **Defended August 2020**.
59. **Rahaf Ghaleb Alkhlaifat**, Design and Characterization of Novel Chitosan-Carrageenan Nanoparticles Loaded with Antiviral Agent. MSc in Clinical Pharmacy, School of Pharmacy, **University of Jordan**. **Defended August 2020**.
60. **Mai jaber**, Preparation and Evaluation of Vitamin C Solid in Oil Based Formulation for Corneal Epithelial Wound Healing. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan**. **(Current student)**.
61. **Riwa Rubaidi**, Processing of Nebivolol hydrochloride nanosuspension into immediate release solid oral dosage form. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan**. **(Current student)**.

MEMBERSHIP IN GRADUATE EXAMINATION COMMITTEES:

1. **Abdelhamid Abu Odeh**, Formulation and Evaluation of Microspheres Containing Cefuroxime Axetil for Oral Administration, MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan**, **Defended May, 2005**.
2. **Osama Abu Diak**, Investigation of the Milk Protein Casein as A Film Former for The Coating of Pharmaceutical Dosage Forms, MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan**, **Defended May, 2005**.
3. **Feras Darwish El-Hajji**, Preparation and Evaluation of Glimepride Rapidly Disintegrating Tablets, MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan**, **Defended July, 2006**.
4. **Wisam Naser**. Preparation of Novel Matrices Based on Alginate – Surfactant Composites via Ionotropic Crosslinking with Calcium II and/or Zinc II and Their Evaluation as Sustained Release Formulations Using Chlorpheniramine Maleate as Model Drug, MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan**, **Defended June, 2007**.

5. **Dalia Izzat Saleh**, Population pharmacokinetics of repaglinide, MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan, Defended July, 2008.**
6. **Arwa J Matar**. Preparation of Novel Matrices Based on Alginate – Chitosan Phthalate Composites via Ionotropic Crosslinking with Calcium II and/or Zinc II and/or Aluminum and Their Evaluation as Enteric Coated Formulations Using Methylene Blue as Model Drug, MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan, Defended August, 2008.**
7. **Mohammad Ghazi Mahmud Hamidi**, In Vitro Evaluation of Glyceryl Behenate Matrix Tablets for Oral Controlled Release Theophylline Anhydrous. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan, Defended January, 2009.**
8. **Rana Hani Al-Shaikh Hamed**, Evaluation of Chitin Metal Silicates Co-Precipitates as Potential Multifunctional Excipients in Tablet Formulations. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **Petra University, Defended June 2009.**
9. **Amani Fakhri Hamad**, Dissolution Enhancement of Tadalafil in Tablets Prepared by Direct Compression. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan, Defended August, 2009.**
10. **Ruaa Al-Ajeeli**, Formulation and In Vitro / In Situ Evaluation of Gel Matrix System for Sustaining the Release of Paracetamol. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **Petra University, Defended February 2010.**
11. **Rana Said Hasan**, Development of in Vitro – in Vivo Correlations for Bioequivalence Prediction of Indapamide Sustained Release Tablets. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan, Defended May, 2010.**
12. **Alaa Mohammad Alqudah**, The Use of Low Molecular Weight Chitosan and Carbopol 971P as Mucoadhesive Buccal Delivery System for Nicotine Hydrochloride. Faculty of Pharmacy, **Jordan University of Science and Technology, Defended May 2010.**
13. **Meriem Rezigue**, Synthesis and Evaluation of Gemfibrozil and Nicotinic Acid Codrug for Improving the Lipid profile. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **Jordan University of Science and Technology, Defended May 2010.**
14. **Rand Nidal Hussein**, Evaluation of Intermittent Fasting Effect on Oxidative Stress Using Isoprostane Biomarker in the Urine of Human Volunteers. MSc in Clinical Pharmacy, Faculty of Pharmacy, **University of Jordan, Defended August, 2010.**

15. **Ibrahim Mohammed Hussein Ramadan**, Bioassay and potency Determination of Enoxaparin Products Available in the Jordanian Market. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan, Defended August, 2010.**
16. **Reem Moien Khayal**, Stability and Solubility of Amorphous Ezetimibe in Solid Dispersions. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **Jordan University of Science and Technology, Defended December, 2010.**
17. **Mustafa Aziz Rahi Al_Mishlab**, Co-Processing of Lactose with Magnesium Silicate and Its Evaluation as a Novel Directly Compressible Excipient. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **Petra University, Defended June, 2011.**
18. **Alaa Ahmed al-TaHER**, Formulation of Microparticles with Water Soluble Drugs by Solvent Evaporation Technique Using Eudragit® NM and the Study of the Effect of Different Procedure Variables and Additives on the Properties of the Prepared Microparticles and Product Release. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan, Defended October, 2011.**
19. **Batoul Ziad bazerbashi**, An Observational, Cross-Sectional Study of the Prescription Patterns and Appropriateness of NSAID's Therapy in Patients with Established Cardiovascular Disease / Low, Moderate and High Gastrointestinal Risks in Jordan University Hospital. MSc in Clinical Pharmacy, Faculty of Pharmacy, **University of Jordan, Defended November, 2011.**
20. **Safwan Mustafa Alian Abdel Rahim**, the Influence of Ethanol on Swelling of Carbopol® and Release of Model Drugs from Its Matrix Systems. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan, Defended October, 2011.**
21. **Abeer Nasser Al Aydie**, The Influence of Humectant Type and Content on Moisturizer's Efficacy: A Bioengineering Approach. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan, Defended December, 2011.**
22. **Nesreen Saad Saleh Majeed**, a Cross Sectional Study of the Prevalence of Prediabetes Phase in a Sample of Non-Diabetic Jordanian Population. MSc in Clinical Pharmacy, Faculty of Pharmacy, **University of Jordan, Defended December, 2012.**
23. **Eman A. Aqil**, Studying the Effect of Specific Wave-Length Light Activation of Photosensitizer-Pluronic® Gel Based Topical Formula Against *Staphylococcus Aureus* Culture. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan, Defended May, 2012.**

24. **Faiza Kaddour**, Sustained Release of Venlafaxine HCl Using Liquisolid Tablets. MSc in Pharmacy / Pharmaceutical Technology, Faculty of Pharmacy, **Jordan University of Science and Technology, Defended May, 2012.**
25. **Sawsan Jawad Jawdat Shahin**, Dead Sea Mud Mask Formulation: the Effect of Different Excipients on Physical Properties, Stability and Aesthetic Acceptance. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan, Defended January, 2013.**
26. **Saeed Mann Marji**, Chemical Composition of the Essential Oils Hydrodistilled from Six Eucalyptus Species Growing in Jordan. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan, Defended August, 2013.**
27. **Sandra Moh'd Hababeh**, Evaluation of Co-Processed Excipients for Ezetimipe Liquisolid Formulation. MSc in Pharmacy / Pharmaceutical Technology, Faculty of Pharmacy, **Jordan University of Science and Technology, Defended April, 2013.**
28. **Rehan Mohammad Al-Kasasbeh**, Evaluation of safety and Uptake Mechanism of a Micellar Drug Delivery System Based on Poly (ethyleneoxide)-b-Poly (propyleneoxide) (PEO-b-PPO) block copolymers using Caco-2 Cell Culture Model. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan, Defended December, 2013.**
29. **Ahmad Sabri Shtaiwi**, Development of Polymeric Formulation for the Delivery of Chemopreventive Agents, MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan, Defended August, 2014.**
30. **Areeg Mohammad AwadAllah**, Physiologically – relevant dissolution media for BCS class II drugs: Toward predicting the in vivo performance. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **Al-Zaytoonah University of Jordan, Defended December, 2014.**
31. **Lubna Habashneh**, Chitosan films: preparation, characterization and application in tablet coating. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **Al-Isra University, Defended December, 2014.**
32. **Zainab Nadhum Aljashaami**, Preparation and Characterization of Surface Active Chitosan Derivatives. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan, Defended April, 2015.**
33. **Shorooq Mohammad Issa Abukhamees**, Evaluation of the effects of pharmaceutically known excipients on eutectic system formation in paracetamol and propyphenazone mixtures. MSc in Pharmaceutical

Sciences, Faculty of Pharmacy, **University of Jordan, Defended December, 2016.**

34. **Farah Luay Abduljaleel Alhassan**, An investigation of controlled release of metoprolol succinate from beads prepared by ionic gelation of acidic derivatives of chitosan. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan, Defended January, 2016.**
35. **Noor Taisir Mohammad Alhourani**, Anticancer effects of *Paronchia argentea* Lam. And *Tamarix aphylla* (L.) H.Karst grown in Jordan and evaluation of their volatile oil composition. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan, Defended April, 2017.**
36. **Bayan Abdelhameed Manaweer**, Preparation of pluronic lecithin organogel and evaluation of drug release using two different in vitro testing models. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan, Defended December, 2017.**
37. **Eman Gamal Mokhtar**, Design, preparation and evaluation of glipizide solid lipid nanoparticles for improving its oral bioavailability. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **Israa University, Defended August, 2019.**
38. **Lubna Mohammad Al-kharabsheh**, Cellular Uptake and Toxicity of Gold Nanorods on Human Dermal Fibroblast: Effect of Nanoparticle Surface Chemistry. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan, Defended April, 2019.**
39. **Mahmood Al-Chalabi**, Characterization of beads prepared with mixed matrices of alginate and Eudragits as drug carriers. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan, Defended April, 2019.**
40. **Rana Amayreh**, Understanding the Disintegration Action of Soy Polysaccharides by Image Analysis. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **Applied Science University, Defended May, 2019.**
41. **Sind Mohammed al-sammarraie**, Developing Extended Release Tablets of Ibuprofen Using Bentonite as an Excipient. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **Israa University, Defended May, 2019.**
42. **Nisrein Mohammad Jaber**, Oral ferrous sulfate encapsulated within amphiphilic chitosan nanostructured for iron deficiency anemia treatment. PhD in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan, Defended November, 2019.**

43. **Zainab M. Said Lafi**, Formulation and functionalization of aptamer-guided, pH-sensitive liposomes for targeted drug delivery of echinomycin-cyclodextrin complex into cancer cells. PhD in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan**, **Defended April, 2020**.
44. **Lobna Faiz Abdallah Gharaibeh**, Aptamer-guided liposomes for selective delivery of siRNA combination into cancer cells. PhD in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan**, **Defended May, 2020**.
45. **Hania Luay Daadoue**, Quality assessment of generic pharmaceutical products without bioequivalence (BE) studies using crescent shaped spindle dissolution apparatus, the methods for implications of official testing comparison. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan**, **Defended May, 2020**.
46. **Saria Rafik Kanawati**, Preparation and evaluation of a transdermal drug delivery system using pluronic lecithin organogel (plo) as a carrier matrix for the delivery of different types of drugs. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan**, **Defended May, 2020**.
47. **Heba Tarek Atiyeh Abdelnabi**, Encapsulation of Capsaicin in Cyclodextrin Inclusion Complexes into Liposomes: In Vitro Anti-Inflammatory Potential Against Cancer Cells. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, **University of Jordan**, **Defended July, 2020**.

FUNDS:

1. Deanship of Academic Research, University of Jordan, **Principal Investigator**, "***Evaluation of Chitosan Succinate, Chitosan Phthalate and Succinate – Phthalate Mixed Substitution Chitosans as Polymeric Film Formers for Enteric Coating of Pharmaceutical Substrates***". 2004 - , 8,400 JD.
2. Deanship of Academic Research, University of Jordan, **Co-Investigator**, "***Development of a novel fast acting dosage form of repaglinide for the management of type II diabetes***". 2005 - , 11,500 JD.
3. Deanship of Academic Research, University of Jordan, **Co-Investigator**, "***Application of casein – drug interaction in the development of controlled release dosage forms***". 2005 -, 7,400 JD.
4. Deanship of Academic Research, University of Jordan, **Co-Investigator**, "***Screening and Evaluation of new***

- compounds/extracts for potential protective effects against diabetic complications***". 2005 - , 21,500 JD.
5. Deanship of Academic Research, University of Jordan, ***Co-Investigator***, "***Screening and Evaluation of new compounds/extracts as potential anti obesity agents***". 2006 - , 17,500 JD.
 6. Higher Council for Science and Technology, Jordan, ***Co-Investigator***, "***Application of Chitosan Derivative Based Beads to Improve the Bioavailability of a Poorly Water-Soluble Compound***". 2007- , 15,000 JD.
 7. Abdul Hameed Shoman Foundation, ***Co-Investigator***, "***Screening and Assessment of the Effects of Melanin Synthesis Inhibitors from Plants Grown in Jordan on Cultured Normal Human Melanocytes for Use as New Skin Depigmenting Agents***". 2008 - , 15,000 JD.
 8. Scientific Research Fund, Ministry of Higher Education and Scientific Research, Jordan. ***Principal Investigator***. "***Development of a Spray Congealing - Based Process/Formulation Platform for the Improvement of Pharmaceutical and Biopharmaceutical Properties of Poorly-Soluble Drugs***". 2009- , 70,500 JD.
 9. Deanship of Academic Research, University of Jordan, ***Principal Investigator***, "***Enhanced Oral Bioavailability of Antibacterial Agents Using Aerosol – OT Micelles Technology***". 2009-2014, 21,000 JD.
 10. Scientific Research Fund, Ministry of Higher Education and Scientific Research, Jordan. ***Co-Investigator***. "***Nanoparticle-mediated Combination of Photodynamic Therapy and Chemotherapy to Overcome Multidrug Resistant Tumors***". 2011-2014 , 123,500 JD.
 11. Deanship of Academic Research, University of Jordan, ***Co-Investigator***, "***Development and Evaluation of Controlled Release matrix Systems Based on In Site, Ionic Cross-Linking of Derivatized Chitosan***". 2011-2012, 8200 JD.
 12. Deanship of Academic Research, The University of Jordan, ***Co-Investigator***, "***Pharmaceutical Nanotechnology for Enhancing the Oral Bioavailability of Bisphosphonates (BPs)-Osteoporosis agents***". 2013-2015; JD 10,000.
 13. Deanship of Academic Research, The University of Jordan, ***Co-Investigator***, "***An Investigation into the Use of Zein Proteins for Modified-Release Drug Delivery Systems***". 2014-2015; JD 10,000.
 14. Higher Council of Science and Technology, The University of Jordan, ***Co-Investigator***, "***Enhanced oral bioavailability of insulin using***

PLGA NPs: in vivo evaluation of toxicity and therapeutic effect.
2015-2018; JD 38,370.

15. (2017) تقييم إرتباط مشتقات الكيتوزان مع معادن مختلفة و تأثير متغيرات الأوساط المائية على (15.2017)
16. 10000 JD Deanship of Academic Research, The University of Jordan Co-Investigator
17. A study of the factors affecting in vitro drug release from Pluronic lecithin organogel formulations. (2018) 10000 JD Deanship of Academic Research, The University of Jordan Co-Investigator
18. A Comparative study of the efficacy of Granulation Techniques in the Preparation of Solid Dosage Forms from Nanosuspensions. (2020) 18000 JD Deanship of Academic Research, The University of Jordan Principal Investigator
19. Amphiphilic Chitosan Derivatives: Synthesis, characterization, surface activity, Association Behavior and Cellular Safety.

REVIEWER RESPONSIBILITIES:

- ❖ AAPS PharmSciTech
- ❖ Carbohydrate polymers
- ❖ Dirasat
- ❖ Jordan Journal of Pharmaceutical Sciences
- ❖ Journal of Applied Polymer Science
- ❖ International Journal of Pharmaceutics

COMPUTER SKILLS:

- ❖ Excellent command in the use of Microsoft Office applications.
- ❖ Excellent command in graphical software: Sigma Plot.
- ❖ Excellent command in using statistical software: SAS, WN, Sigma Stat and EChip