

# Ramadan I. Kh. Al-Shdefat

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## **PERSONAL INFORMATION**

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- **Marital Status: Married**
- **Nationality: Jordanian**
- **Age: 47 (Sep-27-1974)**
- **Place of Birth: Jordan**

## **TITLE**

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***Dean of Faculty of Pharmacy, Professor,***  
*Jadara University, (Irbid, Jordan).*

## **EDUCATION**

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***Ph.D. of Science in Pharmacy /  
Pharmaceutics***  
***Year 2002***

*The State University of Medicine  
and Pharmacy (Chisinau, Republic  
of Moldova)*

***The degree of Bachelor of Science  
in Pharmacy / Pharmacy***  
***Year 1997***

*Jordan University of Science and  
Technology (Irbid, Jordan)*

## **SUPERVISION OF Ph.D. THESIS**

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### **Dissertation:**

***“Formulation and in  
vitro/in vivo evaluation  
of Nifedipine extended-  
release dosage forms”***

*The State University of Medicine  
and Pharmacy (Chisinau,  
Republic of Moldova)*

### **Director:**

***Professor of Pharmaceutics &  
Industrial Pharmacy***

*Eugen Diug*

## **EXPERIENCE**

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- **Head of the Department of Pharmaceutics**  
College of Pharmacy at Prince Sattam Bin Abdulaziz University (Al-Kharj / Saudi Arabia) from 16.08.2015 until 31.08.2017.
- **Associate professor**  
Pharmaceutics Department, College of Pharmacy at Prince Sattam Bin Abdulaziz University (Al-Kharj / Saudi Arabia) from 31.08.2016 until 31.08.2017.
- **Assistant professor**  
Pharmaceutics Department, College of Pharmacy at Prince Sattam Bin Abdulaziz University (Al-Kharj / Saudi Arabia) from 27.09.2009 until 30.08.2016.
- **Assistant professor**  
Pharmaceutics Department, College of Pharmacy at Al-Isra University (Amman/Jordan) from 05.10.2008 until 25.09.2009.
- **Assistant professor**  
Pharmaceutics Department, Pharmacy Faculty at Riyadh Colleges of Dentistry and Pharmacy (Riyadh / Saudi Arabia) from 08.09.2007 until 01.09.2008.
- **Assistant professor & Director**  
Pharmacy Department at Technical Institute for Health Training (Riyadh / Saudi Arabia) from 28.04.2004 until 29.04.2007.
- **Lecturer**  
Pharmacy Department at Specialized Academy for Medical Training (Riyadh / Saudi Arabia) from 27.09.2003 until 20.04.2004.

## **DUTIES AND RESPONSIBILITIES**

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- Be responsible and accountable for setting and advancing the academic strategy of the Department in line with Faculty and University strategic plans and direction.
- Develop and sustain appropriate structures for management, consultation, decision-making and communication with staff and students.
- Conduct lectures, tutorials, workshops, practical classes, demonstrations for undergraduate students.
- Participate in research projects and research teams.
- Lead and guide students in research projects.
- Serve as academic advisor to students.
- Prepare and develop the curriculum, course specification and course report those submitted to the Development and Quality Unit.
- Participate in departmental, college and university activities as committees, meetings, workshops, seminars, and conferences.
- Promote and represent the University both internally and externally.

## **CONFERENCES, MEETING, AND WORKSHOPS**

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- **Innovation Management (L1): Innovation Associate**, King Abdullah II Center for Excellence, Amman, Jordan, June 28-30, 2022. (**Accredited Training, GIMInstitute**).
- **COVID-19 Pandemic: “Pharmaceutical & Biomedical Research and Perspectives”**, Faculty of Pharmacy, Jadara University, Irbid, Jordan, March 10-11, 2021 (**Conference Chairman**).
- **The 1st Annual International Conference of Clinical Pharmacology (AICCP 2020)** “Nanotechnology the Power of the Small” Clinical Pharmacology department, Faculty of Medicine, Mansoura University, Egypt, October 7-8, 2020 (**SPEAKER - Oral Presentation**).
- **The 7<sup>th</sup> International Pharmaceutical Conference (ZTIPC 2019)** (Amman, Jordan). “Preparation and evaluation of Aviptadil acetate loaded PLGA microparticles: A preliminary study to treat pulmonary hypertension” Al-Zaytoonah University of Jordan and The University of Toledo 6-7<sup>th</sup> November 2019 (**Poster Presentation**)
- **Modern techniques in pharmaceutical sciences Conference**, Mutah University (Dead Sea, Jordan) 18-19/04/2018, (**SPEAKER - Oral Presentation**)
- **Recent Trends in Pharmacy Between Science and Industry Conference**, Yarmouk University (Irbid, Jordan). 22-23/11/2017.
- **The 20th International Congress of the Arab Association of Faculties of Pharmacy** (Amman, Jordan). “Application of Design of Experiment (DoE) Approach for Design And Optimization of Fast Orally Disintegrating Tablets (FODTs) For Geriatric Patients” Isra University 7-9 November 2017 (**Poster Presentation**)
- **Optic-Diss Fiber Optic Dissolution System** (Application Training), Distek, Inc. (New Jersey, USA) 06-08 September, 2017.
- **OMNISEC**, Gel Permeation Chromatography (GPC) / Size Exclusion Chromatography (SEC) system (Customer Training), Malvern Instruments’ (Malvern, United Kingdom) 27-28 June, 2017.
- **ADS Fully Automated Online Dissolution System** (Training Workshop), Pharma Test (Frankfort, Germany). 20-23 July, 2016.

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**World Congress on Pharmacology (Brisbane, Australia) July 20-22, 2015. (SPEAKER - Oral Presentation)**

- **World Congress on Pharmacology (Brisbane, Australia) July 20-22, 2015. Co-Chairing the session on:**  
**Track 6:** Toxicology, **Track 12:** Latest Trends in Pharmacological Drug Developments, **Track 13:** Pharmacological Drug Discovery, & **Track 14:** Pharmacogenetics and Pharmacogenomics.
- **Introductory Course to Meetings Management System MAJALES (Course and Training Workshop), Salman Bin Abdulaziz University (Al-Kharj, Saudi Arabia). 06 November, 2014.**
- **Learning Management Using Blackboard 9.1 (Course and Training Workshop), Salman Bin Abdulaziz University (Al-Kharj, Saudi Arabia). 07-10 September, 2014.**
- **Visiting Scientist (Training Workshop), Dr. Fakhru'l Ahsan`s Laboratorys, Health Sciences Center, School of Pharmacy, Texas Tech University (Amarillo, USA). 4-15 August, 2014.**
- **Introduction to Biopharmaceutics, Pharmacokinetics, and Pharmacodynamics (Online Lecture), Virtual Medical Academy. 15 February, 2014. (SPEAKER - PRESENTER)**
- **Method of Assessment of Learning Outcomes (Training Workshop), Salman Bin Abdulaziz University (Al-Kharj, Saudi Arabia). 12 February, 2014.**
- **External Audit Programs (Training Workshop), Salman Bin Abdulaziz University (Al-Kharj, Saudi Arabia). 15 April, 2013.**
- **The 15th Scientific Congress of the Association of the Pharmacy Colleges in the Arab World and The 3rd International Conference of the Faculty of Pharmacy/ The University of Jordan "Recent Trends and Advances in Pharmacy" (Amman, Jordan). 9-11<sup>th</sup> October, 2012. (SPEAKER - Oral Presentation)**
- **1<sup>st</sup> International Conference on Healthy Lifestyles and Noncommunicable Diseases in the Arab World and the Middle East (Riyadh, Saudi Arabia). 10-12 September, 2012.**
- **Using Pharmacokinetics and Pharmacodynamic Principles to Enable IND and NDA Submission (Bethesda, USA). 16-17<sup>th</sup> April, 2012.**

- **Cardiac Pulmonary Resuscitation Course (CPR)** (Course and Training Workshop), Saudi Heart Association / American Heart Association (Riyadh, Saudi Arabia). 15 February, 2012. **(INSTRUCTOR in BLS)**
- **Cardiac Pulmonary Resuscitation Course (CPR)** (Course and Training Workshop), Saudi Heart Association / American Heart Association (Riyadh, Saudi Arabia). 14 February, 2011. **(PROVIDER in BLS)**
- **Academic Advising** (Training Workshop), Salman Bin Abdulaziz University (Al-Kharj, Saudi Arabia). 27 December, 2011.
- **Saudi Digital Library** (Symposium), Salman Bin Abdulaziz University (Al-Kharj, Saudi Arabia). 29-28 February, 2011.
- **International Exhibition Conference on Higher Education** (Riyadh, Saudi Arabia). 19-22 April, 2011.
- **Osteoporosis** (One-day Symposium), King Abdulaziz Medical City (Riyadh, Saudi Arabia). 16<sup>th</sup> March, 2006.
- **The 9<sup>th</sup> international Pharmaceutical Sciences Conference & Exposition** (Riyadh, Saudi Arabia). 17-21 December, 2005.
- **The Fourth Arabian Gulf Medical Association Conference** (Riyadh, Saudi Arabia). 12-14 March, 2005.
- **The Sixth Scientific Meeting of the Saudi Society of Family & Community Medicine** (Riyadh, Saudi Arabia). 20-22 October, 2003.

## LIST OF PUBLICATIONS

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1. **Al-Shdefat, R.**, Hailat, M., Alshogran, O.Y. (2022). Solubilization of a novel antitumor drug ribociclib in water and ten different organic solvents at different temperatures, *Drug Development and Industrial Pharmacy*, 1-32.
2. **Al-Shdefat, R.**, Kadhim, M.M., Mahdi, A.B., Lafta, H.A. and Kumar, A., (2022). Theoretical evaluation of poly (amidoamine) dendrimers with different peripheral groups as a purinethol drug delivery system in aqueous medium. *Colloids and Surfaces B: Biointerfaces*, 216, 112534..
3. Anwer, M.K., Fatima, F., Ahmed, M.M., Aldawsari, M.F., Alali, A.S., Kalam, M.A., Alshamsan, A., Alkholief, M., Malik, A., Az, A. and **Al-shdefat, R.**, (2022). Abemaciclib-loaded ethylcellulose based nanosponges for sustained cytotoxicity against MCF-7 and MDA-MB-231 human breast cancer cells lines. *Saudi Pharmaceutical Journal*. 30(6), 726-734
4. Hailat, M., Zakaraya, Z., Al-Ani, I., **Al-Shdefat, R.**, Anwer, M.K., Saadh, M.J., Dayyih, W.A. (2022). Pharmacokinetics and Bioequivalence of Two Empagliflozin, with Evaluation in Healthy Jordanian Subjects under Fasting and Fed Conditions. *Pharmaceuticals*, 15(2), 193
5. Alkather, Z., Hailat, M., **Al-Shdefat, R.**, Dayyih, W.A. (2021). Development and validation of hplc method for five gliptins in pharmaceutical dosage forms in finished marketed products. *Current Pharmaceutical Analysis*, 17(10),1263–1271
6. Abdel-Kader, M. S., Alam, P., Soliman, G. A., **Al-Shdefat, R.**, & Afzal, O. (2021). Eco-friendly stability-indicating RP-HPTLC method for sildenafil analysis, characterization and biological evaluation of its oxidized stress degradation product. *Scientific Reports*, 11(1), 1-14.
7. Amer S. AlAli, Mohammed F. Aldawsari, Ahmed Alalaiwe, Bjad K. Almutairy, Ramadan Al-Shdefat, Ismail A. Walbi and Mohamed H. Fayed (2021). Exploitation of Design-of-Experiment Approach for Design and Optimization of Fast-Disintegrating Tablets for Sublingual Delivery of Sildenafil Citrate with Enhanced Bioavailability Using Fluid-Bed Granulation Technique. *Pharmaceutics*. 13(6), 870-890.
8. **Ramadan Al-Shdefat**, Mohammad Hailat, Abeer M Kharshid, Mohamed J Saadh, Mohamed F Hamed, Md. Khalid anwer; Heba Abdel-Halim, Wael Abu Dayyih (2021). Evidence of Human Metabolites of Omeprazole and its Structure Elucidation by using HPLC-MS. *Journal of Molecular Structure*. Volume 1230, 15, 129902.
9. **Ramadan Al-Shdefat**, Wael Abudayyih, Lina Tamimi, Riad Awad, Walid Abu Rayyan, Israa Al-Ani (2021). Development and Validation of a Stability-Indicating Method for the Determination of Canagliflozin and Metformin Simultaneously in Combination Dosage Form Using HPLC-DAD. *Pharmaceutical Chemistry Journal*. 2021 Jul 31:1-8.
10. Dayyih WA, Ani IA, **Al-Shdefat RI**, Zakareia Z, Hamid SA, Shakya AK. (2021). Development and validation of a stability-indicating HPLC

method for Empagliflozin and Linagliptin in tablet dosage form. *Asian Journal of Chemistry*. 33(2):484-8.

11. Ahmad RA, Hailat MM, Jaber MA, Alkhawaja BA, Rasras AA, **Al-Shdefat RA**, Mallah E, Dayyih WA. (2021). RP-HPLC method development for simultaneous estimation of Empagliflozin, Pioglitazone, and Metformin in bulk and tablet dosage forms. *Acta Poloniae Pharmaceutica*.78(3):305-15.
12. Haytham M. Daradka, Hadeel A. Aljohani, Mohammad K. Alotaibi, Omar Flah Khabour, Areej A. Eskandrani, Sultan M. Alsharif, **Ramadan Al-shdefat**, Hashem A. Abu-Harirah and Yazan Bataineh (2021) Evaluating the Effects Of Commiphora Molmol (Myrrh) Against Oxidative DNA Damage In Human Lymphocytes. *IJPSR*, 12(6): 1000-07.
13. Zainab Alkather, Mohammad Hailat, **Ramadan Al-Shdefat**, Wael Abu Dayyih (2021). Development and Validation of an HPLC Method for Five Gliptins in Pharmaceutical Dosage Forms in Finished Marketed Products, *Current Pharmaceutical Analysis*, 17, 1-00.
14. **Ramadan Al-Shdefat** (2020). Solubility determination, Hansen solubility parameters and solution thermodynamics of olmesartan medoxomil in (PEG-400 + water) cosolvent mixtures. *Drug Development and Industrial Pharmacy*. 46(12):2098-2104.
15. Haytham M. Daradka, **Ramadan Al-Shdefat** and Areej A. Eskandrani (2020). Antioxidant Properties and Effect of Ethanolic Extract of *Pulcria crispa* on Biochemical and Hematological Parameters of Albino Rats, *Journal of Pharmaceutical Research International*. 32(33):14-22.
16. **Ramadan Al-Shdefat** (2020). Enhanced diuretic action of Furosemide by complexation with  $\beta$ -cyclodextrin in the presence of sodium lauryl sulfate. *Green Processing and Synthesis*. 9(1):744-750.
17. Md. Khalid Anwer, Muqtader Mohammad, Mohammad F. Aldawasari, Saad Alshahrani, Farhat Fatima, Mohd. Nazam Ansari, Najeeb Ur Rahman, **Ramadan Alshdefat** (2020). Eluxadoline loaded solid lipid nanoparticles for improved colon targeting in rat model of ulcerative colitis, *Pharmaceuticals*, 13(9):255-2.
18. Israa Habash, **Ramadan Al-Shdefat**, Wael Abu Dayyih, Mohammad M. Hailat (2020). A Stability Indicating RP-HPLC Method Development for Simultaneous Estimation of Alogliptin, Pioglitazone, and Metformin in Finished Pharmaceutical Formulations, *Acta Poloniae Pharmaceutica - Drug Research*, 77(4): 549-562.
19. Israa Al-Ani, Mohammed Hamad, **Ramadan Al-Shdefat**, Kenza Mansoor, Felicia Gligor and Wael Abu Dayyih (2020). Development and validation of a stability indicating RP-HPLC method of Apixaban in commercial dosage form, *International Journal of Pharmaceutical Sciences and Research*, 12(1): 1000-1011.
20. Mohammad Hailat, **Ramadan Al-Shdefat**, Nehad Ahmed, Omar Attarabeen, Fadi M. Alkhateeb (2020). Public knowledge about dosage forms, routes of drug administration and medication proper storage conditions in Riyadh District, Saudi Arabia. *Journal of pharmaceutical health services research*, 11(3): 205-213.

21. Abdulwahab Al-Badri, Eyad Mallah, Zainab Zakarya, **Ramadan Al-Shdefat**, Feras Darwish El-Hajji, Mo'ath Ifraitekh, Abeer Kharshid, Wael Abu Dayyih (2020). Influence of Angiotensin Receptor Blocker (Candesartan) and Angiotensin-Converting-Enzyme Inhibitor (Enalapril) Combined with Glimepiride on Glycated Hemoglobin in Non-Insulin Dependent Diabetic Rats (NIDDM). *Journal of Pharmaceutical Research International*, 32(9): 40-51.
22. Haytham M. Daradka, Hadeel A. Aljohani, Mohammad K. Alotaib, Omar Flah Khabour, Areej A. Eskandrani, Sultan M. Alsharif, **Ramadan Al-shdefat** (2020). Protective effects of *Traganum nudatum* against oxidative DNA damage in human lymphocytes, *International Medical Journal*, 25(2): 913-923.
23. Wael Abu Dayyih, **Ramadan Al-Shdefat**, Zainab Zakarya, Mohammed Hamad, and Gligor Felicia (2019). Determination of Rosuvastatin and Dabigatran Simultaneously in Human Plasma for Application to Pharmacokinetic Parameters in Healthy Jordanian Subjects by LC-MS/MS- Method, *Journal of Pharmaceutical Sciences and Research* 11(8): 2934-2941.
24. Muqtader Mohammed\*, Mansour S. Alnafisah, Md. Khalid Anwer\*, Farhat Fatima, **Ramadan Al-Shdefat** (2019). Chitosan surface modified PLGA Nanoparticles loaded with brigatinib for the treatment of non-small cell lung cancer, *Journal of Polymer Engineering* 39(10): 909–916.
25. Md. Khalid Anwer, Muqtader Mohammad, Farhat Fatima, Saad M. Alshahrani, Mohammed F. Aldawsari, Ahmed Alalaiwe, **Ramdan Al-Shdefat**, Faiyaz Shakeel (2019). Solubility, solution thermodynamics and molecular interactions of osimertinib in some pharmaceutically useful solvents, *Journal of Molecular Liquids*, 284:53–58
26. Nehad J. Ahmed, **Ramadan I. Al-Shdefat**, Mohammad R Ain, Abdullah K. Rabba, Mehrukh Zehravi, Ahmed A. Albassam (2019). Lifestyle habits among pharmacy students: a pilot study in Alkharj, Kingdom of Saudi Arabia. *Indo American Journal of Pharmaceutical Sciences*. 06 (04), 7296-7301
27. **Ramadan Al-Shdefat**, Md Khalid Anwer, Mohamed H. Fayed, Badar B. Alsulays, Hesham M. Tawfeek, Rehab F. Abdel-Rahman, Gamal A. Soliman (2019). Preparation and evaluation of spray dried rosuvastatin calcium-PVP microparticles for the improvement of serum lipid profile, *Journal of Drug Delivery Science and Technology*, 55: 101342.
28. Fahad I. AL-SAIKHAN, Mohamed A. ABD-ELAZIZ, **Ramadan AL-SHDEFAT**, Md. Khalid ANWAR & Muhammad Shahid IQBAL (2019). Preparation and evaluation of Aviptadil acetate loaded PLGA microparticles: A preliminary study to treat pulmonary hypertension. *Latin American Journal of Pharmacy*, 38 (3): 545-52
29. Muzaffar Iqbal Iqbal, Essam Ezzeldin, Khalid A. Al-Rashood, **Ramadan Al-Shdefat**, Md. Khalid Anwer (2018). High throughput  $\mu$ -SPE based elution coupled with UPLC-MS/MS for determination of eluxadoline in plasma sample: Application in pharmacokinetic characterization of



30. Zeenat iqbal, Ammar Ali Saleh Jaber, Mohammad Mirza, khalid anwer, Abdullah S. Alshetaili, Saad Alshahrani, **Ramadan I Al-Shdefat**, Sushma Talegaonkar (2018). Mucoadhesive Gels Loaded with Ciclopirox olamine Containing SLN for Sustained Vaginal Drug Delivery: In vitro and in vivo Characterization, *Latin American Journal of Pharmacy*, 37 (2): 388-400.
31. Alshahrani, S.M., Alshetaili, A.S., Alalaiwe, A., Alsulays, B.B., Anwer, M.K., **Al-Shdefat, R.**, Imam, F. and Shakeel, F. (2018). Anticancer Efficacy of Self-Nanoemulsifying Drug Delivery System of Sunitinib Malate. *AAPS PharmSciTech*, 19 (1):123-133.
32. Md. Khalid Anwer, **Ramadan Al-Shdefat**, Essam Ezzeldin, Saad Maria Alshahrani, Abdullah Saud Alshetaili, Muzaffar Iqbal (2017). Preparation, Evaluation and Bioavailability Studies of Eudragit Coated PLGA Nanoparticles for Sustained Release of Eluxadoline for the Treatment of Irritable Bowel Syndrome, *Frontiers in Pharmacology*, 20 (8):844
33. Nehad J. Ahmed, **Ramadan I. Al-Shdefat**, Reham F. Yusuf, Mohammad R Ain, Abdullah K Rabba (2017). The attitudes and perceptions of pharmacy students toward applying pharmaceutical care after graduation in Alkharj city, *Bulletin of Environment, Pharmacology and Life Sciences*, 6 (10): 1-4.
34. Ishita SHAMPA, Md. Khalid ANWER, Mohd. A. MIRZA, **Ramadan AL-SHDEFAT**, Mohamad TALEUZZAMAN, Sushama TALEGAOKAR & Zeenat IQBAL (2017). Development of Cefuroxime Axetil Loaded Solid Self-Nanoemulsifying Drug Delivery System with Improved Pharmacokinetic Profile. *Latin American Journal of Pharmacy*, 36 (8): 1553-62.
35. Abujheisha, Khalil Y., **Ramadan Al-Shdefat**, Nehad Ahmed, and Mohammed I. Fouda. (2017). Public Knowledge and Behaviours Regarding Antibiotics Use: A Survey among the General Public. *International Journal of Medical Research & Health Sciences* 6(6): 82-88.
36. Mohamed H. Fayed, Sayed I. Abdel-Rahman, Fars K. Alanazi, Mahrous O. Ahmed, Hesham M. Tawfeek and **Ramadan I. Al-Shdefat** (2017). New gentle-wing high shear granulator: Impact of processing variables on granules and tablets characteristics of high drug loading formulation using design of experiment approach. *Drug Development and Industrial Pharmacy*, 43(10):1584-1600.
37. Ali, Bahaa E., **Ramadan I. Al-shedfat**, Mohamed H. Fayed, and Fars k. Alanazi. (2017). New methodology for development of orodispersible tablets using high-shear granulation process. *Acta Poloniae Pharmaceutica - Drug Research*, 74 (3), pp. 969-981.
38. Mohamed H. Fayed, Sayed I. Abdel-Rahman, Fars k. Alanazi, Mahrous O. Ahmed, Hesham M. Tawfeek and **Ramadan I. Al-Shedfat** (2017). High-shear granulation process: Influence of processing parameters on critical quality attributes of acetaminophen granules and tablets using

design of experiment approach, *Acta Poloniae Pharmaceutica - Drug Research*, 74: (1), pp. 235-248.

39. Ahmed, Mohammed Muqtader, Farhat Fatima, Mohammad Javed Ansari, **Ramadan Al-Shdefat**, Mohammad Khalid Anwer, Shahid Jamil, Mutasim Osman Ahmed et al. (2017). Bacterial contamination of Saudi Arabian paper currency: A report from Al-Kharj. *Advancements in Life Sciences* 4: (2), pp. 27-32.
40. **Ramadan Al-Shdefat**, Bahaa E. Ali, Md. Khalid Anwer, Mohamed H. Fayed, Ahmed Alalaiwe, Gamal A. Soliman (2016). Sildenafil citrate-Glycyrrhizin/Eudragit binary spray dried microparticles: A sexual behavior studies on male rats. *Journal of Drug Delivery Science and Technology*, 36:141-149.
41. Faiyaz Shakeel, Mohammad Raish, Md. Khalid Anwer, **Ramadan Al-Shdefat** (2016). Self-nanoemulsifying drug delivery system of sinapic acid: In vitro and in vivo evaluation, *Journal of Molecular Liquids*. 224 (A):351–358.
42. Faiyaz Shakeel, Nazrul Haq, Mohammad Raish, Md. Khalid Anwer, **Ramadan Al-Shdefat** (2016). Solubility and thermodynamic analysis of sinapic acid in various neat solvents at different temperatures. *Journal of Molecular Liquids*, 222:167-171.
43. Nehad J. Ahmed, **Ramadan I. Al-Shdefat**, Mohammad R Ain An (2016). Empirical Study towards Status of Pharmaceutical Care Education in Asian and African Schools of Pharmacy, *Journal of Applied Pharmaceutical Science*, 6 (02):153-156.
44. Md. Khalid Anwer, Mohammed A. Al-Mansoor, Shahid Jamil, **Ramadan Al-Shdefat**, Mohammad Nazam Ansari, Faiyaz Shakeel (2016). Development and evaluation of PLGA polymer based nanoparticles of quercetin. *International Journal of Biological Macromolecules*, 92:213-219.
45. Shahid Jamil, Md.Khalid Anwer, Mohammed Almalki, Mohammad Javed Ansari, Mohammad Muqtader Aqmad, **Ramadan Al- Shdefat** (2016). Ternary Complexation of Fluconazole with Cyclodextrin *Advances in BioResearch*, 7(6): 08-11.
46. MM Ahmed, Farhat F, MJ Ansari, Fahad I Al-Saikhan, M Khalid. Anwer, S. Jamil, **Ramadan Al-Shdefat**, Baha E Ali, MH Fayed. Mohammed Dakhalallah J Al Shelewi, Prakash Katakam (2016). Equivalent Assessment of Ciprofloxacin Tablets Available in KSA : A Post Market Surveillance Study for Cost Effective Treatment. *Journal of Pharmaceutical Sciences and Research*. 8(1), 13-18.
47. Shahid Jamil, Gharni A. Yasir, Md. Khalid Anwer, Mohammad Javed Ansari, **Ramadan Al-Shdefat**, Mohammad Muqtader Ahmad and Fahad I. Al-Saikhan (2016) RP-HPLC Method for the Analysis of Quercetin in Eruca Sativa with Green Solvent. *Current Pharmaceutical Analysis*, 13(3), 208-214.
48. M. J. Ansari, M. M. Ahmed<sup>1</sup>, M.K. Anwer, S. Jamil<sup>1</sup>, **R. Shdefat**, O. Harthi, M.O. Ibnouf, Y.S. Nour, Prawez Alam, Abdel-Kader MS (2016). Evaluation of Antifungal Activity of Olive Oil Based Nanoemulsions. *Bulletin of Environment, Pharmacology and Life Sciences*, 5(4):01-04.

49. Nehad J. Ahmed, Mariam Abdel Jalil, **Ramadan I. Al-Shdefat**, Haitham N. Tumah (2015). The Practice of Preoperative Antibiotic Prophylaxis and the Adherence to Guideline in Riyadh Hospitals. *Bulletin of Environment, Pharmacology and Life Sciences*, 5(1):8-14.
50. Fahad I Al-Saikhan, **Ramadan I. Al-Shdefat**, Mohamed A Abd-Elaziz, Fakhru Ahsan (2015). Pulmonary Hypertension Surveillance – Saudi Arabia, 2014. *Asian Journal of Biological and Life Sciences*, 4(2):160-164.
51. **Al-Shdefat, R.** (2015). New complexes of inhaled furosemide and cyclodextrin: assessment of the bronchodilator effect. *European Journal of Hospital Pharmacy*, 22(6):342-346.  
Online: doi:10.1136/ejhpharm-2015-000642.
52. **Al-Shdefat, R.** (2015). Effect of super-disintegrants combination on physical properties and release profile of orally disintegrating tablets of fluoxetine Hcl. *Latin American Journal of Pharmacy*, 34 (7): 1380-1386.
53. Ansari, M. J., Anwer, M. K., Jamil, S., **Al-Shdefat, R.**, Ali, B. E., Ahmad, M. M., & Ansari, M. N. (2015). Enhanced oral bioavailability of insulin-loaded solid lipid nanoparticles: pharmacokinetic bioavailability of insulin-loaded solid lipid nanoparticles in diabetic rats. *Drug delivery*, 23(6):1972-9
54. Fahad I Al-Saikhan, **Ramadan I. Al-Shdefat**, Mohamed Abd-Elaziz, Elsadig H. Kh. Adam, Fakhru Ahsan (2015). Development and validation of RP-HPLC method for quantitation of Aviptadil Acetate and its degradation products. *Asian Journal of Biological and Life Sciences*, 4 (1): 75-79.
55. Al-Saikhan, F. I., **Al-Shdefat, R.**, & Abd-ElAziz, M. A. (2015). Evaluation of anti-oxidative, and antigenotoxic potency of spirulina spin isolated human lymphocyte in vitro study. *International Journal of Biology, Pharmacy and Allied Sciences*, 4(1): 80-93.
56. Elsadig H. Adam & **Ramadan Al-Shdefat** (2015). Development and validation of a RP-HPLC method for simultaneous estimation of pyridoxine hydrochloride (Vitamin B6) and its degraded products formed under effect of different solvents. *Journal of Chemical and Pharmaceutical Sciences*, 8(2): 239-245.
57. MM, A., Ansari, M. J., Alkharfy, K. M., Fatima, F., **Al-Shdefat, R.**, & Anwer, M. K. (2015) Smart drug delivery systems: Thermo-p H responsive ciprofloxacin ophthalmic gels. *Der Pharmacia Lettre*, 6 (6):51-55.
58. Ansari MJ, Ahmed MM , Fatima F , Anwer MK, Jamil S, **Al-Shdefat R.**, Ali BE , Al awmi F and Abdel-Kader MS (2014). Influence of hydrophilic polymers on complexation and solubilizing efficiencies of beta-cyclodextrin over silymarin, *International Journal of Biology, Pharmacy and Allied Sciences*, 3(10): 2414-2423.
59. Ansari, M. J., Ahmed, M. M., Fatima, F., Anwer, M. K., Jamil, S., **Al-shdefat, R.**, & Ali, B. E. (2014). Solubility and stability enhancement of curcumin through cyclodextrin complexation. *International Journal of Biology, Pharmacy and Allied Sciences*, 3(11), 2668-2675.

60. **Al-Shdefat, R.**, Abd-ElAziz, M. A., & Al-Saikhan, F. I. (2014). Genoprotective and Genotoxic Effects of Thymoquinone on Doxorubicin-Induced Damage in Isolated Human Leukocytes. *Tropical Journal of Pharmaceutical Research*, 13(12) 2015-2020.
61. Anwer, M. K., Jamil, S., Ansari, M. J., **Al-Shdefat, R.**, Ali, B. E., Ganaie, M. A., & Shakeel, F. (2014). Water soluble binary and ternary complexes of diosmin with  $\beta$ -cyclodextrin: Spectroscopic characterization, release studies and anti-oxidant activity. *Journal of Molecular Liquids*, 199, 35-41.
62. Alaa ddin Al Shidaifat, **Al-Shdefat, R.**, & Choi, H. K. (2014). Semi-automated Approach to Hippocampus Segmentation Using Snake from Brain MRI. *Journal of Korea Multimedia Society 멀티미디어학회논문지*, 17(5), 566-572.
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## Book Chapter

Chakrabartty, S., Al-Shidaifat, A., **Al-Shdefat, R.**, Alam, M.I. and Song, H., 2022. Drug and gene delivery by nanocarriers: Drug delivery process, in brief, using different oxides such as zinc, iron, calcium, polymeric, peptides, and in-vitro drug delivery process by silicon oxide (SiO<sub>x</sub>) and titanium dioxide (TiO<sub>2</sub>) nanodots (NDs). In *Advances in Nanotechnology-Based Drug Delivery Systems* (pp. 281-320). Elsevier.

## **ADMINISTRATIVE POSITIONS**

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- ***Head of the Department of Pharmaceutics,***  
College of Pharmacy, Prince Sattam Bin Abdulaziz University,  
(Al-Kharj, Saudi Arabia), from 16.08.2015 until 31.08.2017.
- ***Director of Research center***  
College of Pharmacy, Prince Sattam bin Abdulaziz University,  
(AlKharj / Saudi Arabia) from 14.03.2011 until 01.09.2015.
- ***Director of Pharmacy Department***  
Pharmacy Department, Technical Institute for Health Training  
(Riyadh / Saudi Arabia) as from 28.04.2004 until 29.04.2007.

## **AREAS OF RESEARCH INTEREST**

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- Nanotechnology and Drug Delivery Systems.
- Pharmaceutical Technology.

## **COURSES TAUGHT**

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|---------------------------------------------|---------------------------------------------|
| • Pharmaceutics I, II, III, IV.             | • Sterile Dosage Forms.                     |
| • Industrial Pharmacy.                      | • Radiopharmaceuticals.                     |
| • Biopharmaceutics and<br>Pharmacokinetics. | • Pharmaceutical Quality<br>Control and GMP |
| • Drug Delivery System.                     | • Sterile Dosage Forms.                     |
| • Cosmetics Preparations.                   | • Pharmacy Training 1, 2                    |

## **PROFESSIONAL ORGANIZATIONS MEMBERSHIP**

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- Member of the Jordanian Pharmaceutical Association, Jordan, Amman, 1997 till date.
- Member of The Saudi Council for Health Specialties No. 04-R-P-8070, Saudi Arabia, 2004 till date.
- Member of Pharmacy College Council, College of Pharmacy, Prince Sattam Bin Abdulaziz University, Saudi Arabia, 2015 -2017
- Editorial Board Members, SCIREA Journal of Pharmacy, 2018 till date.
- Reviewer of green processing and synthesis journal, 2017 till date.
- Reviewer of King Abdulaziz City for Science and Technology (KACST) 2014 till date.

## **COMPUTER SKILLS**

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- Good knowledge of PC hardware and software, excellent skills using MS Windows, MS Office, Excel, PowerPoint, Typing, and Internet applications.
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