

# CURRICULUM VITAE



## **PERSONAL**

- Name: Mohammad A. Y. Alqudah
- Date of Birth: Dec 4th, 1984
- Nationality: Jordanian
- Address: Jordan University of Sciences and Technology  
Faculty of Pharmacy, Department of Clinical Pharmacy,  
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Jordan University of Sciences and Technology  
Irbid Jordan

## **EDUCATION:**

2009-2013 **PhD** Clinical Pharmaceutical Sciences  
Division of Pharmaceutics and Translational Therapeutics  
Department of Pharmaceutical Sciences and Experimental Therapeutics  
College of Pharmacy, the University of Iowa, Iowa, USA

**Thesis title:** The Oncogenic Role and the Prognostic Value of NOTCH3 Gene in Human Malignant Glioma

2009-2012 **Master** Clinical Pharmaceutical Sciences, College of Pharmacy,  
The University of Iowa, Iowa, USA

2002-2008 **PharmD** Doctor of Pharmacy, Faculty of Pharmacy,  
Jordan University of Science and Technology, Irbid, Jordan

## **ACADEMIC AND PROFESSIONAL APPOINTMENTS:**

9/2008-7/2009 Teaching Assistant, Faculty of Pharmacy, Jordan  
University of Science and Technology

9/2008-7/2009 Cardiology Preceptor, Faculty of Pharmacy, Jordan  
University of Science and Technology

8/2009-8/2013	Graduate Student, Program in Clinical Pharmaceutical Sciences, Faculty of Pharmacy, the University of Iowa
9/2013-8/2018	Assistant Professor of Clinical Pharmacy Department of Clinical Pharmacy, Faculty of Pharmacy Jordan University of Sciences and Technology
9/2014-8/2017	Chairman, Department of Clinical Pharmacy, Faculty of Pharmacy Jordan University of Sciences and Technology
9/2018-Present	Associate Professor of Clinical Pharmacy Department of Clinical Pharmacy, Faculty of Pharmacy Jordan University of Sciences and Technology
9/2019-8/2021	Chairman, Department of Clinical Pharmacy Services, King Abdullah University Hospital
9/2021-Present	Associate Professor of Clinical Pharmacy Department of Pharmacy Practice and Pharmacotherapeutics, Faculty of Pharmacy, The University of Sharjah

#### **AWARDS AND SCHOLARSHIPS:**

- Jordan Royal Grant/ PharmD study (2002-2008)
- Jordan University of Sciences and Technology Scholarship (2009-2013)
- Health Sciences Research Week Award, 2013 Poster Session Winners, Carver College of Medicine, the University of Iowa, Iowa, USA (2013)

#### **AFFILIATIONS:**

2008-Present	Member, Jordan Pharmaceutical Association.
2013-2018	Assistant Professor, Clinical Pharmacy, JUST
2014-2021	Member, Institutional Review Board/ King Abdullah University Hospital.
2018-Present	Associate Professor, Clinical Pharmacy, JUST
2019-2021	Chair, Clinical Pharmacy Services/King Abdullah University Hospital.
2019-2021	Member, Pharmacy & Therapeutics committee/ King Abdullah University Hospital.
2018-Present	Associate Professor, Clinical Pharmacy, The University of Sharjah.

#### **WORKSHOPS**

- Orientation workshop for newly employed faculty members, Jordan University of Sciences and Technology, October 23<sup>rd</sup>, 2013
- Statistical Package for the Social Sciences (SPSS)/ Jordan University of Sciences and Technology, May 26<sup>th</sup> – 27<sup>th</sup>, 2014
- Good Clinical Practice (ICH-GCP) Overview Workshop for Investigator, JUST-PRC, November 19<sup>th</sup>, 2014
- Innovative Teaching in Higher Education/ Jordan University of Sciences and Technology, Jun 1<sup>st</sup> -2<sup>nd</sup>, 2015

- Project Management/USAID Jordan Competitiveness Program, September 2016
- Development of Curriculum & Study plans/ Jordan University of Sciences and Technology, Jan 18<sup>th</sup>-19<sup>th</sup> , 2017
- Good Clinical Practice and Clinical Trial Quality/ Roche Ltd/ Hotel Grand Hayat, Amman, October 29<sup>th</sup>, 2017
- Online Learning Design/ Jordan University of Sciences and Technology, Dec 9<sup>th</sup> – 12<sup>th</sup>, 2019
- Examinations and evaluations/ Jordan University of Sciences and Technology, Oct 25<sup>th</sup> – Nov 1<sup>st</sup>, 2020

### **ACTIVITIES**

- PharmD/ Optimal Pharmaceutical Care Program
- Free Medical Day/ Alshagarah/ Irbid, 2016
- Free Medical Day/ Aldulail/ Alzarqa, 2016
- Establishment of three research laboratories (N3L-1) for 16 faculty members in clinical pharmacy department in areas of cell culture model, vascular biology and translational research
- Clinical Pharmacokinetics (& TDM) workshop for KAUH clinical pharmacists

### **RESEARCH INTERESTS:**

- Pharmacogenomics and Molecular Biology of Cancer Diseases
- Role of Calcium Channels and Calcium Sensing Receptors in Targeting Cancer Cells
- Cancer Angiogenesis
- NOTCH Signaling Pathway
- Prevention of Hyperlipidemia- induced Atherosclerosis
- New Advances in Antiviral Therapy
- Clinical Pharmacy and Pharmaceutical care services

### **JOURNAL REVIEWER**

- Journal of Experimental & Clinical Cancer Research
- Journal of Clinical & Experimental Pharmacology
- Journal of Steroids & Hormonal Science
- Journal of Pharmaceutical Care & Health Systems
- Cancer Biomarkers
- Molecular Neurobiology
- Advanced Pharmaceutical Bulletin

### **JOURNAL EDITOR**

- Frontiers in Pharmacology

## **FUNDED RESEARCH**

### **Ongoing Projects:**

1. **Dr. Mohammad Alqudah (PI)** and Dr. Ahmad Alhusban (CoI), **2021**. "The role of hyperlipidemia in the impaired endothelial cell mediated neuroprotection in Alzheimer disease". Scientific Research Fund & Innovation – MOHE/Jordan.  
**Amount: \$72,830**
2. **Dr. Mohammad Alqudah (PI)**, Dr. Sayer Alzzam, (CoI) and Dr. Reema Karasneh (Co-I) **2021**. "Pharmaco-epidemiological investigation to explore cancer causation and progression: Project investigating use of commonly prescribed medications and risk of common cancers and survival". Deanship of Research, Jordan University of Science and Technology. **Amount: \$0**
3. **Dr. Mohammad Alqudah (PI)** and Dr. Karem Alzoubi (CoI), **2021**. "Evaluating the Potential Effect of Edaravone on Learning and Memory Impairment in Streptozotocin-Induced Diabetic Rats.". Deanship of Research, Jordan University of Science and Technology. **Amount: \$9000**
4. **Dr. Mohammad Alqudah (PI) 2021**. "Evaluation of the Effect of Amlodipine on Proliferative, Migratory, and Invasive Potential of Breast Cancer Cells". **Sabbatical leave.**

### **Completed Projects:**

1. **Dr. Mohammad Alqudah (PI)**, Dr. Nizar Mhaidat (Co-I) and Baraah AlRababah (Msc student) 2014-2015. "Effect of amlodipine on irinotecan-induced apoptosis in colorectal cancer". Sponsor/Agency: Deanship of Research, Jordan University of Science and Technology. **Amount: \$8000**
2. Dr. Nizar Mhaidat (Co-I), **Dr. Mohammad Alqudah (Co-I)**, and Esraa Khader (Msc student) 2013-2014. "Effect of Metformin on irinotecan-induced apoptosis in colorectal cancer". Sponsor/Agency: Deanship of Research, Jordan University of Science and Technology. **Amount: \$8000**
3. **Dr. Mohammad Alqudah (PI)**, Dr. Karem Alzoubi (Co-I), Dr. Sayer Alazzam (Co-I) and Dr. Mohammad Alkhatatbeh (Co-I). Evaluating the overuse of proton pump inhibitors in stress ulcer prophylaxis. Sponsor/Agency: Deanship of Research, Jordan University of Science and Technology. **Amount: \$0**
4. Dr. Mohammad Alkhatatbeh (PI) and **Dr. Mohammad Alqudah (Co-I)**. Evaluation of Self-medication Practices among Medical and Pharmacy Students: A study from Jordan. Sponsor/Agency: Deanship of Research, Jordan University of Science and Technology. **Amount: \$2000**
5. **Dr. Mohammad Alqudah (PI)**, Dr. Nizar Mhaidat (Co-I) and Heba Mansour (Msc student) 2014-2015 "Effect of simvastatin on irinotecan-induced apoptosis in prostate cancer". Sponsor/Agency: Deanship of Research, Jordan University of Science and Technology. **Amount: \$8000**

6. **Dr. Mohammad Alqudah (PI)**, Dr. Nizar Mhaidat (Co-I) and Dr. Mohammad Alkhatatbeh (Co-I), 2014 “Amlodipine in lung cancer as a potential anticancer agent”. Sponsor/Agency: Deanship of Research, Jordan University of Science and Technology. **Amount: \$14,000**
7. Dr. Nehad Ayyoub (PI), **Dr. Mohammad Alqudah (Co-PI)** and Kamal Alshami (Msc student) 2016-2017 “Evaluation of the effect of Olaprib and Crizotinib combination on the proliferative, migratory and invasive potential of breast cancer cells”. Sponsor/Agency: Deanship of Research, Jordan University of Science and Technology. **Amount: \$8000**
8. **Dr. Mohammad Alqudah (PI)**, Dr. Nizar Mhaidat (Co-I) and Dr. Mohammad Alkhatatbeh (Co-I), 2015 “Evaluating the role of calcium-sensing receptors in lung cancer”. Sponsor/Agency: Deanship of Research, Jordan University of Science and Technology. **Amount: \$14,000**
9. **Dr. Mohammad Alqudah (PI)**, Dr. Mohammad Alkhatatbeh (Co-I) and Fahmi Alashwal (Msc student) 2016-2017 “Evaluating the potential protective effect of vitamin E on oxaliplatin-induced genotoxicity in human cultured lymphocytes”. Sponsor/Agency: Deanship of Research, Jordan University of Science and Technology. **Amount: \$8000**
10. Dr. Karem Alzoubi (PI), **Dr. Mohammad Alqudah (Co-I)** and Ghaida’a Ma’abeh (Msc student), 2015-2017 “Evaluating the effect of Waterpipe Tobacco Smoke Exposure on Learning and Memory: Role of Vitamin C”. Sponsor/Agency: Deanship of Research, Jordan University of Science and Technology. **Amount: \$8000**
11. **Dr. Mohammad Alqudah (PI)** and Marwa Azayzih (Msc ), 2015-2017 “Evaluation of the Effect of Calcium Sensing Receptor Blocking by NPS2143 on Proliferative, Migratory, and Invasive Potential of Breast Cancer Cells”. Sponsor/Agency: Deanship of Research, Jordan University of Science and Technology. **Amount: \$8000**
12. Dr. Mohammad Alkhatatbeh (PI) and **Dr. Mohammad Alqudah (Co-I)** and Neda Abdalqader (Msc student 2015-2016). “Awareness of hypoglycemic symptoms in insulin-treated diabetic patients”. Sponsor/Agency: Deanship of Research, Jordan University of Science and Technology. **Amount: \$2000**
13. Dr. Ahmad Alhusban (PI), **Dr. Mohammad Alqudah (Co-I)** and Saeda Makableh (Msc student) 2018-2019 “Investigating the potential of metformin to function as a molecular chaperone; to reverse ER stress-induced effects on angiogenesis”. Sponsor/Agency: Deanship of Research, Jordan University of Science and Technology. **Amount: \$8000**
14. **Dr. Mohammad Alqudah (PI)** and Raneem Al-Samman (Msc student) 2018-2020 “Early detection of colorectal cancer self-reported perception, knowledge and attitude of pharmacists in Jordan”. Sponsor/Agency: Deanship of Research, Jordan University of Science and Technology. **Amount: \$0**
15. Dr. Shreen Nuseir (PI), **Dr. Mohammad Alqudah (Co-I)** and Eman Hammad (Msc student) 2018-2020 “Quantification of aflatoxins in frequently consumed herbal

medicines”. Sponsor/Agency: Deanship of Research, Jordan University of Science and Technology. **Amount: \$8000**

16. Dr. Tareq Mukattash (PI), **Dr. Mohammad Alqudah (Co-I)** and Esraa Shammari (Msc student) 2018-2020 “A case-based assessment of pharmacists’ knowledge and experience in pediatric pharmaceutical care”. Sponsor/Agency: Deanship of Research, Jordan University of Science and Technology. **Amount: \$0**
17. **Dr. Mohammad Alqudah (PI)** 2020-2021. “Evaluating the potential synergistic effect of combined treatment with amlodipine and cisplatin, carboplatin, paclitaxel or gemcitabine on NSCLC cells”. Sponsor/Agency: Deanship of Research, Jordan University of Science and Technology. **Amount: \$8000**
18. **Dr. Mohammad Alqudah (PI)**, Dr. Karem Alzoubi (Co-I) and Akram Alnusairy (Msc student), 2020-2022 “Evaluating the Potential Effect of Edaravone On Learning and Memory Impairment in Streptozotocin- Induced Diabetic Rats”. Sponsor/Agency: Deanship of Research, Jordan University of Science and Technology. **Amount: \$8000**

## **CONFERENCES AND ABSTRACTS**

- Assem M, Sibenaller Z, Agarwal S, Al-Keilani M, **Alqudah M.A**, Marnier J, and Ryken T. Chromosome 19 amplification and the consequent NOTCH and VEGF pathways over-activation are associated with malignant glioma poor outcome. [Abstract]. In: Proceedings of the 101st Annual Meeting of the American Association for Cancer Research; 2010 Apr 17-21; Washington, DC. Philadelphia (PA): AACR; Cancer Res 2010; 70(8 Suppl): Abstract nr 1283.
- S. Agarwal, M. Al-Keilani, **M. Alqudah**, Z. Sibenaller, T. Ryken, M. Assem. PTPRK as a potential tumor suppressor and a predictive marker in gliomas. Health Sciences Research Week–translational genomics, University of Iowa, IA, 2011
- Agarwal S, Al-Keilani MS, **Alqudah MA**, Sibenaller Z, Ryken TC, Assem M. Receptor protein tyrosine phosphatase type kappa (PTPRK) as a potential tumor suppressor and a predictive marker in gliomas. American Association of Pharmaceutical Scientists annual meeting, 2011
- Agarwal S, Al-Keilani MS, **Alqudah MA**, Sibenaller Z, Ryken TC, Assem M. Receptor protein tyrosine phosphatase type kappa is a prognostic marker, essential for regulating malignant behavior of glioma cells. In: Proceedings of the 103rd Annual Meeting of the American Association for Cancer Research; 2012 Mar 31-Apr 4; Chicago, IL. Philadelphia (PA): AACR; Cancer Res 2012;72(8 Suppl): Abstract nr 2666
- **Mohammad A.Y. Alqudah**, Supreet Agarwal, Maha S. Al-Keilani, Zita Sibenaller, Timothy C. Ryken and Mahfoud Assem. NOTCH3: A Potential Predictive Biomarker in Malignant Glioma. Presented at the American College of Clinical Pharmacy annual meeting, 2012 October 21-24; Hollywood, Florida (FL): ACCP; 2012. Abstract # {203}.
- **Mohammad A.Y. Alqudah**, Supreet Agarwal, Maha S. Al-Keilani, Zita Sibenaller, Timothy C. Ryken and Mahfoud Assem. NOTCH3: A Potential Predictive Biomarker in

Malignant Glioma. Health Sciences Research Week–translational genomics, University of Iowa, IA, 2012.

- **Mohammad A.Y. Alqudah**, Zita Sibenaller, Timothy C. Ryken and Mahfoud Assem. NOTCH3 is a prognostic factor and critical element in gliomagenesis. Health Sciences Research Week–translational genomics, University of Iowa, IA, 2013.
- Al-Keilani MS, Assem M, Sibenaller Z, Agarwal S, **Alqudah M.A**, Ryken TC. Tyrosyl DNA phosphodiesterase I is a prognostic factor and its inhibition synergizes response to topoisomerase poisons in malignant glioma. [Abstract]. In Proceedings of the 104th Annual Meeting of the American Association for Cancer Research; 2013 Apr 6-10; Washington, DC. Philadelphia (PA): AACR; Cancer Res 2013; 73(8 Suppl): Abstract nr 2194. <http://doi.org/10.1158/1538-7445.AM2013-2194>
- **Mohammad A. Y. Alqudah**. Genomics and Personalized Medicine. JUST International Pharmacy Conference. May 11-12, 2014 (Speaker).
- Alrababah B.A, **Alqudah M.A.Y**, Mhaidat N, 2014. Amlodipine Inhibits Cell Proliferation and Induces Cell Cycle Arrest in Colorectal Cancer Cells. ASU-Pharmacy First National Conference. Applied Science University, December 20-21, 2014.
- Third National Erasmus+ Conference/ Jordan European Union/ Royal Hotel, Amman, October 26<sup>th</sup>, 2016 (Attendance).
- **Mohammad A. Y. Alqudah**. Effect of simvastatin on irinotecan-induced apoptosis in prostate cancer. The Emirates Oncology Conference Nov 17-19, 2016. Abu Dhabi, UAE.
- International Brain Research Organization (IBRO) Conference, November 19-21, 2017. Jordan University of Science and Technology (Moderator of session II day1).
- Nehad Ayoub, Kamal Al-Shami, **Mohammad A. Y. Alqudah**, Nizar M. Mhaidat. Crizotinib inhibits growth, migration, and invasion of breast cancer cells in vitro and synergizes with chemotherapeutic agents (Abstract 2937). July 2018, Cancer Research 78(13 Supplement):2937-2937
- **Mohammad A. Y. Alqudah**. Calcium-sensing receptor antagonist NPS-2143 inhibits breast cancer cell proliferation, migration, and invasion via downregulation of p-ERK1/2, Bcl-2 and Integrin  $\beta$ 1 and induces caspase 3/7 activation. International Precision Medicine Conferences 2021 | IPMC 2021 April 19-21, 2021. Virtual Event Orlando, USA.

#### **PUBLICATIONS (in chronological order):**

1. **Alqudah MAY**, Mukattash TL, Darabseh I, Jarab AS, Al-Qerem W, Abu-Farha RK, 2021. An audit on pharmacists' knowledge and experience in pediatric care. Accepted in the Journal of Pediatric Pharmacology and Therapeutics.
2. **Alqudah MAY**, Azaizeh M, Zayed A, Asaad L, 2021. Calcium-sensing receptor antagonist NPS-2143 inhibits breast cancer cell proliferation, migration and invasion via downregulation of p-ERK1/2, Bcl-2 and Integrin  $\beta$ 1 and induces caspase 3/7 activation. Advanced Pharmaceutical Bulletin, in press.

3. **Alqudah MAY**, Al-Samman RM, Mukattash TL, Abu-Farha RK. Knowledge and attitudes of pharmacists towards colorectal cancer health education in Jordan: A cross-sectional study. *Int J Clin Pract.* 2021 Jan 5:e13986. doi: 10.1111/ijcp.13986. Epub ahead of print. PMID: 33400341.
4. Alkhatatbeh MJ, Abdalqader NA, **Alqudah MAY**, 2019. Impaired awareness of hypoglycemia in children and adolescents with type 1 diabetes mellitus in north of Jordan. *BMC Endocr Disord*; 19(1):107. <https://doi.org/10.1186/s12902-019-0441-9>
5. Alshogran O, AL-Eitan L, Altawalbeh S, Khalil A, **Alqudah MA**, Oweis A, Aman H., Alhawar H, 2019. Investigating the Contribution of NPSR1, IL-6 and BDNF Polymorphisms to Depressive and Anxiety Symptoms in Hemodialysis Patients. *Prog Neuropsychopharmacol Biol Psychiatry.* 2019 Aug 30;94:109657. <https://doi.org/10.1016/j.pnpbp.2019.109657>
6. Al-Oudat BA, **Alqudah MA**, Audat SA, Al-Balas QA, El-Elimat T, Hassan MA, Frhat IN, Azaizeh MM, 2019. Design, synthesis and biological evaluation of novel chrysin derivatives as cytotoxic agents and caspase-3/7 activators, 2019. *Drug Design, Development and Therapy* 2019:13 423–433. <https://doi.org/10.2147/DDDT.S189476>
7. Alkhatatbeh MJ, Abdalqader NA, **Alqudah MAY**, 2018. Impaired Awareness of Hypoglycaemia in Insulin-treated Type 2 Diabetes Mellitus. *Curr Diabetes Rev.* 2018 Aug 6. <http://doi.org/10.2174/1573399814666180806144937>
8. **Alqudah MAY**, Alzoubi KH, Ma'abrih GM, Khabour OF, 2018. Vitamin C prevents memory impairment induced by waterpipe smoke: role of oxidative stress. *Inhal Toxicol.* 2018 May 22:1-8. <http://doi.org/10.1080/08958378.2018.1474977>
9. Alshogran OY, Khalil AA, Oweis AO, Altawalbeh SM, **Alqudah MAY**, 2018. Association of brain-derived neurotrophic factor and interleukin-6 serum levels with depressive and anxiety symptoms in hemodialysis patients. *Gen Hosp Psychiatry*; 53:25-31. <http://doi.org/10.1016/j.genhosppsy.2018.04.003>
10. **Alqudah, M.A.Y**, Mansour, H.T, Mhaidat, M, 2017. Simvastatin enhances irinotecan-induced apoptosis in prostate cancer via inhibition of MCL-1. *Saudi Pharm. J.* <https://doi.org/10.1016/j.jsps.2017.12.012>
11. **Alqudah, M.A.Y**, Alrababah, B.A, Mhaidat, M, 2017. Amlodipine Inhibits Cell Proliferation and Induces Cell Cycle Arrest in Colorectal Cancer Cells. *Jordan J. Pharm. Sci.* 10.
12. **Alqudah, M.A.Y.**, Al-Ashwal, F.Y., Alzoubi, K.H., Alkhatatbeh, M., Khabour, O., 2017. Vitamin E protects human lymphocytes from genotoxicity induced by oxaliplatin. *Drug Chem Toxicol* 1–6. <https://doi.org/10.1080/01480545.2017.1384835>
13. Yaseen, M.M., Abuharfeil, N.M., **Alqudah, M.A.**, Yaseen, M.M., 2017. Mechanisms and Factors That Drive Extensive Human Immunodeficiency Virus Type-1 Hypervariability: An Overview. *Viral Immunol* 30, 708–726. <https://doi.org/10.1089/vim.2017.0065> (Review article).



14. Ayoub, N.M., Al-Shami, K.M., **Alqudah, M.A.**, Mhaidat, N.M., 2017. Crizotinib, a MET inhibitor, inhibits growth, migration, and invasion of breast cancer cells in vitro and synergizes with chemotherapeutic agents. *Onco. Targets. Ther.* 10, 4869–4883. <https://doi.org/10.2147/OTT.S148604>
15. **Alqudah, M.A.Y.**, Al-azzam, S., Alzoubi, K., Alkhatatbeh, M., Alawneh, K., Alazzeah, O., Ababneh, B., 2017. Effects of antirheumatic drug underutilization on rheumatoid arthritis disease activity. *Inflammopharmacology* 25. <https://doi.org/10.1007/s10787-017-0315-6>
16. Yaseen, M.M., Yaseen, M.M., **Alqudah, M.A.**, 2017. Broadly neutralizing antibodies: An approach to control HIV-1 infection. *Int. Rev. Immunol.* <https://doi.org/10.1080/08830185.2016.1225301> (**Review article**).
17. **Alqudah, M.A.Y.**, Al-Azzam, S., Alzoubi, K., Alkhatatbeh, M., Rawashdeh, N., 2016. Overuse of proton pump inhibitors for stress ulcer prophylaxis in Jordan. *Int. J. Clin. Pharmacol. Ther.* 54. <https://doi.org/10.5414/CP202533>
18. Alkhatatbeh, M.J., Alefan, Q., **Alqudah, M.A.Y.**, 2016. High prevalence of self-medication practices among medical and pharmacy students: a study from Jordan. *Int. J. Clin. Pharmacol. Ther.* 54, 390–398. <https://doi.org/10.5414/CP202451>
19. **Alqudah, M.A.Y.**, Yaseen, M.M.M., Yaseen, M.M.S., 2016. HIV-1 strategies to overcome the immune system by evading and invading innate immune system. *HIV AIDS Rev.* <https://doi.org/10.1016/j.hivar.2015.07.004> (**Review article**).
20. **Alqudah, M.A.**, Agarwal, S., Al-Keilani, M.S., Sibenaller, Z.A., Ryken, T.C., Assem, M., 2013. NOTCH3 is a prognostic factor that promotes glioma cell proliferation, migration and invasion via activation of CCND1 and EGFR. *PLoS One* 8, e77299. <https://doi.org/10.1371/journal.pone.0077299>
21. Agarwal, S., Al-Keilani, M.S., **Alqudah, M.A.**, Sibenaller, Z.A., Ryken, T.C., Assem, M., 2013. Tumor derived mutations of protein tyrosine phosphatase receptor type k affect its function and alter sensitivity to chemotherapeutics in glioma. *PLoS One* 8, e62852. <https://doi.org/10.1371/journal.pone.0062852>
22. Assem, M., Sibenaller, Z., Agarwal, S., Al-Keilani, M.S., **Alqudah, M.A.**, Ryken, T.C., 2012. Enhancing diagnosis, prognosis, and therapeutic outcome prediction of gliomas using genomics. *OMICS* 16, 113–122. <https://doi.org/10.1089/omi.2011.0031>

### **ACADEMIC SUPERVISION AND THESIS COMMITTEES (MASTER STUDENTS):**

#### **Major Advisor**

- Baraah AlRababah (MS in Clinical Pharmacy 2014/2015). Evaluation of the antiproliferative effect of amlodipine on colorectal cancer cells.
- Heba Mansour (MS in Biotechnology 2015/2016). Effect of simvastatin on irinotecan-induced apoptosis in prostate cancer.
- Fahmi Alashwal (MS in Clinical Pharmacy 2016/2017). Evaluating the potential protective

- effect of vitamin E on oxaliplatin-induced genotoxicity in human cultured lymphocyte.
- Marwa Azayzih (MS in Clinical Pharmacy 2017/2018). Evaluation of the Effect of Calcium Sensing Receptor Blocking by NPS2143 on Proliferative, Migratory, and Invasive Potential of Breast Cancer Cells.
- Raneem Al-Samman (MS in Clinical Pharmacy 2019/2020). Evaluation of the Effect of the PARP inhibitor, Olaparib, on Proliferative, Migratory, and Invasive Potential of Lung Cancer Cells.
- Akram Alnusairy (MS in Clinical Pharmacy 2021/2022). Evaluating the Potential Effect of Edaravone On Learning and Memory Impairment in Streptozotocin- Induced Diabetic Rats

### **Co- Advisor:**

- Esraa Khadr (MS in Clinical Pharmacy 2013/2014). Effect of metformin on irinotecan-induced apoptosis in colorectal cancer.
- Neda Abdulqader (MS in Clinical Pharmacy 2015/2016). Awareness of hypoglycemic symptoms in insulin-treated diabetic patients.
- Kamal Alshami (MS in Clinical Pharmacy 2016/2017). Crizotinib Inhibits Growth and Migration of Breast Cancer Cells by Inhibiting C-Met Receptor Activation and Synergizes with Chemotherapy.
- Ghaida Ma'abirh (MS in Forensic Medicine 2017/2018). The effect of waterpipe smoking on memory performance and learning ability: Role of Vitamin C.
- Saeda Makableh (MS in Forensic Medicine 2018/2019). Investigating the potential of metformin to function as molecular chaperone; to reverse ER stress-induced effect on angiogenesis
- Eman Hammad (MS in Forensic Medicine 2019/2020). Quantification of Aflatoxins in Frequently Consumed Herbal Medicines
- Esra'a Al-shammari (MS in Clinical Pharmacy, 2019/2020). A case-based assessment of pharmacists' knowledge and experience in pediatric pharmaceutical care
- Aseel Al-Obweeni (MS in Clinical Pharmacy, 2021/2022). Knowledge and Practice Regarding Early Premotor Signs and Symptoms of Parkinson's Disease Among Healthcare Professionals

### **Internal Examiner**

- Sajedah Abu Kishk (MS in Clinical Pharmacy 2014/2015)
- Haneen Moqbel (MS in Clinical Pharmacy 2014/2015)
- Esraa Amayreh (MS in Clinical Pharmacy 2015/2016)
- Enas Mkhaimer (MS in Clinical Pharmacy 2016/2017)
- Ala'a Al-Ibbini (MS in Clinical Pharmacy 2017/2018)
- Hamzah Zamzam (MS in Clinical Pharmacy 2017/2018)
- Dua'a Issa (MS in Clinical Pharmacy 2018/2019)
- Sara Baqeri (MS in Applied Medical Sciences 2018/2019)
- Leen Asa'ad (MS in Clinical Pharmacy 2018/2019)
- Rand Nofal (MS in Applied Medical Sciences 2018/2019)
- Dalia Ibrahim (MS in Clinical Pharmacy 2019/2020)

### **External Examiner**

- Suhad Bani Melhem (MS in Clinical Pharmacy 2016/2017, The University of Jordan)
- Worood Ihraiz (MS in Applied Medical Sciences 2017/2018, The University of Jordan)

- Khouzama Aljunaidi (MS in Applied Medical Sciences 2018/2019, The University of Jordan)

### **TEACHING EXPERTISE**

- Courses taught repeatedly (2013-present): For bachelor's in pharmacy, Doctor of Pharmacy or master's in clinical pharmacy.
  - PHAR 342 Pharmacology 2
  - PHAR 344 Introduction to Therapeutics
  - PHAR 401 & 402 Community pharmacy
  - PHAR 442 Therapeutics-Immunology, Hematology and Oncology
  - PHAR 461 Immunology and Vaccines
  - PHAR 547 Therapeutics (2)
  - PHAR 553 Clinical Pharmacokinetics
  - PHAR 567 Toxicology
  - PHAR 568 Clinical Seminar
  - PHAR 597 Pharmacogenomics (Elective course)
  - PHAR 640 Clinical Training: Internal Medicine (1) (For PharmD Students)
  - PHAR 642 Clinical Training: Ambulatory Care (For PharmD Students)
  - PHAR 643 Clinical Training: Internal Medicine (2) (For PharmD Students)
  - PHAR 646 Clinical Training: Oncology
  - PHAR 647 Clinical Training: Cardiology
  - PHAR 675 Clinical Training: Research (For PharmD Students)
  - PHAR 743 Current Topics in Clinical Pharmacy (For Master Students)
  - PHAR 770 Clinical Seminar (For Master Students)