

Ibrahim D. T. Aldeeb

As an accomplished researcher and educator, I have dedicated my career to advancing our understanding of cancer and pharmacology.

With a strong background in both fields, I can contribute significantly to scientific knowledge and the training of future pharmacologists.

Personal details:

Name: Ibrahim Deeb Tawfiq AL Deeb
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Education & Qualifications:

- 1) PhD in Pharmacology. University of Science Malaysia (USM)/ # 137 World University Rankings (2023).
- 2) M.Sc. in Pharmacology 30 August 2009. University of Jordan, Amman, Jordan with an excellent degree (4/4).
- 3) B.Sc. in Pharmacy 18th February 2000, Faculty of Pharmacy, Jordan University of Science & Technology, Irbid, Jordan with a very good degree (79.1 %).
- 4) Secondary high School, Al-Shamelah School, Zarqa, Jordan, 1995. Graduated with 95.3 %.

Work Experience:

- 1) Assistant professor in Pharmacology, Clinical Pharmacy
Department: 29 Sep. 2024- now, College of Pharmacy, Zarqa University.
- 2) Assistant professor in Pharmacology Department: 2020 – 31 Aug. 2024, College of Pharmacy, Al ahliyya Amman University, Jordan.
- 3) Lecturer in Pharmacology Department: September 2011 – 2017, College of Pharmacy, Taif University, Taif, Saudi Arabia.
- 4) Research assistant: September 2011 – 2017, College of Pharmacy, Taif University, Taif, Saudi Arabia.
- 5) Product Manager: 03 April 2005 – 30 July 2011, Abjar Drug Store, Amman, Jordan.
- 6) Medical Representative: 01 February 2003 – 03 April 2005, Abjar Drug Store, Amman, Jordan.
- 7) Responsible Pharmacist in Community Pharmacies: 2009-2011. 7)
Responsible Pharmacist in Specialty Hospital Pharmacy: 01 May 2001 – 01 May 2003, Specialty Hospital, Amman, Jordan.

Teaching Experience:

As an assistant professor in Zarqa University, I have the responsibility to teach Pharmacology as well as Pharmacotherapeutics courses for undergraduates. While, during my work at Al-ahliyya Amman University, I had the responsibility to teach Pharmacotherapy, Pharmacology, and Toxicology for undergraduate as well as postgraduate students. Moreover, training the students in the last year to gain skills in community and hospital pharmacies. Besides the supervision of project students at master level. While, during my work at Taif University as a lecturer in pharmacology, I have the responsibility to lecture Pharmacology labs, Pharmacokinetics labs for PharmD students in the Faculty of Pharmacy, besides lecturing medical terminology and Physiology for first- and second-year students. Also, I have been responsible for running Pharmacology labs for PharmD students. My teaching activities included lecturing, organizing, and assessing assignments (including exam marking) and the supervision of project students at BSc level.

Research Experience:

My current research is in the field of Cancer Pharmacology and Pharmacokinetic Studies. During current research I am focusing in studying Anti-Angiogenic therapies, developing *in vivo* tumor models, Molecular Anti-cancer mechanisms, virtual docking skills besides studying changes and factors that affect drug plasma concentrations, as well as the bioavailability and bioequivalence studies.

In Al-ahliyya amman university, we established a team to conduct researching projects either for master students or other projects. I am the principal investigator who is responsible for managing these projects with the help of other members. Until this date I had funds offered by the university to run projects.

During my work at Taif University, I was a member of the Cancer Research Unit (CRU) at the College of Pharmacy, Taif University. Moreover, my duty in the CRU focuses on evaluating novel anti-cancer drugs using *in vitro* and *in vivo* models. I was involved in projects that were sponsored by Saudi government institutions, such as KACST (King Abdulaziz City for Science and Technology).

On the other hand, I had shared in supervising graduating students' project. In addition, I was responsible for training sixth year pharmacy students in the hospitals making them able to deal with prescriptions and health issues related to them after graduation.

During my PhD study, I shared in many projects which are related to cancer pharmacology, and I was able to drive some projects completely until publication as first author.

In addition, I had multidisciplinary contributions with other local and international departments. Recently, I am sharing in a mega project funded by Cancer Biology and Therapeutic, at Harvard Medical School. I had experience in cell culture techniques, nude-mouse xenograft models, isolated tissue cultures, Flow cytometry, Protein Array Assays, Multicellular Spheroid models and chemical analysis techniques, such as GC-MS, HPLC and FTIR.

Other Positions of Responsibilities:

- 1) Head of Training committee at the college of Pharmacy, Zarqa University, Oct 2024-now.
- 2) Vice Dean for Accreditation and Quality Assurance at the college of Pharmacy, Alahliyya Amman University, Sep 2022-Aug 2024.
- 3) A member of the Curriculum committee at the college of Pharmacy, Alahliyya Amman University, Sep 2022-Aug 2024.
- 4) Former Head of Training Committee at the college of Pharmacy, Alahliyya Amman University, July 2021-Sep 2022.
- 5) Registration and Admission Committee Member at The College of Pharmacy, Taif University, October 2011-2017.
- 6) Student Training Committee Member at The College of Pharmacy, Taif University, October 2011-2017.
- 7) Supporting Community Committee Member at The College of Pharmacy, Taif University, October 2011-2017.

List of Publications: Google

scholar profile:

<https://scholar.google.com/citations?user=AfhgiOMAAAAJ&hl=en>

- 1) Ruqaya Alhaddad, Bassam M Abualsoud, Ibrahim Al-Deeb, Hamdi Nsairat (2024). Green synthesized Zingiber officinale-ZnO nanoparticles: anticancer efficacy against 3D breast cancer model.
- 2) Abu-Hdaib, B., Nsairat, H., El-Tanani, M., Al-Deeb, I., & Hasasna, N. (2024). In vivo evaluation of mebendazole and Ran GTPase inhibition in breast cancer model system. *Nanomedicine*, 1-15.
- 3) Al-Shalabi, R., Abdul Samad, N., Al-Deeb, I., Joseph, J., & Abualsoud, B. M. (2024). Assessment of Antiangiogenic and Cytotoxic Effects of Moringa oleifera Silver Nanoparticles Using Cell Lines. *Current Research in Nutrition and Food Science Journal*, 12(1), 196-211.
- 3) Al-Ekaid, Noorin Manhal, et al. "Preparation, Characterization, and Anticancer Activity of PEGylated Nano liposomal Loaded with Rutin against Human Carcinoma Cells (HT-29)." *Chemistry & Biodiversity* (2023): e202301167.
- 4) Al-Areer, Nadeen Waleed, et al. "Quantitative analysis of total phenolic and flavonoid compounds in different extracts from ginger plant (Zingiber officinale) and evaluation of their anticancer effect against colorectal cancer cell lines." *Pharmacia* 70.4 (2023): 905-919.

- 5) Gharaibeh, L., Alameri, M. A., Al-Kabariti, A. Y., Alsa'd, A. A., Abed, A., Karamah, N., & Aldeeb, I. D. (2023). Practices, perceptions and trust of the public regarding online drug purchasing: a web-based survey from Jordan. *BMJ open*, 13(10), e077555.
- 6) Rolla Al-Shalabi, Nozlana Abdul Samad, Lim Vuanghao, Ibrahim Al Deeb, Julia Joseph., (2023), Moringa oleifera's Effect on Colorectal Cancer , *Journal of Angiotherpay*, 7(1)
- 7) Ibrahim Al-deeb, Julia Joseph, Amin Malik Shah Abdul Majid, Aman Shah Abdul Majid & Nozlana Abdul Samad, In Vitro Anti-Angiogenic Properties of Ethanolic Crude Extract of *Vernonia amygdalina*, 51(5), 1437-1447.
- 8) Ibrahim Al-deeb, Julia Joseph, Amin Malik Shah Abdul Majid, Nozlana Abdul Samad, (2021), Phytochemicals with direct and/or indirect antiangiogenic properties against various cancer types focusing on their mechanism of action, *Journal of Angiotherapy*, 5(1), 226-233.
- 9) Abdallah, Q. M., Kazi, M., Khaleel, M. A., Al-Deeb, I., Nasr, A. R. T., & Phillips, R. M. (2020). Utilization of novel self-nanoemulsifying formulations (SNEFs) loaded paclitaxel for the treatment prosperity of bladder cancer. *Journal of Drug Delivery Science and Technology*, 56, 101514.
- 10) Gopal, K., Al deeb, I., Raaov, M., Suah, F. B. M., Samad, N. A., Yahaya, N., ... Zain, N. N. M. (2020). Supramolecular solvent combined with dispersive solid phase extraction based magnetic silicone surfactant activated charcoal adsorbent for extraction of phenolic compounds from industrial wastewater. *Microchemical Journal*, 157, 105110.
- 11) Abdallah, Q., Al-Deeb, I., Bader, A., Hamam, F., Saleh, K., & Abdulmajid, A. (2018). Anti-angiogenic activity of Middle East medicinal plants of the Lamiaceae family. *Molecular Medicine Reports*, 18, 24412448.
- 12) Hamam, F., Eldalo, A., Abdallah, Q., Al-Deeb, I., Alzahrani, S., Alwagdani, A. ... Mohamed, K. (2018). Pharmacological activities of a novel plant species, *Huernia* Sp. Nov. aff. *Boleana* growing in the high mountains of southwest Saudi Arabia. *Molecular Medicine Reports*, 17, 6059-6067.
- 13) Hasan, N. (2017). Evaluation of Therapeutic Methods used for the Treatment of Diabetic Foot Syndrome. *Asian Journal of Pharmaceutics (AJP)*: Free full text articles from Asian J Pharm, 11(02).

14) Al-Deeb, I. D., & Irshaid, T. A. A. and Y. M. (2010). The Effect of Licorice Drink on the Systemic Exposure of Verapamil in Rabbits. *Drug Metabolism Letters*, Vol. 4, pp. 173–179.

List of Techniques Trained for:

- 1) Sub-Culturing techniques (including maintaining cell lines, passaging, etc.).
- 2) Chemosensitivity assays (MTT, Methylene blue, cell counting, colony formation assay, etc).
- 3) Isolated Tissue Culture.
- 4) Angiogenesis Screening Assays (Migration, Cell Invasion, Tube Formation).
- 5) Spheroid Formation as Tumor Models.
- 6) Flow cytometry.
- 7) Xenograft animal models and CAM assay.
- 8) Ex vivo Rat aorta Assay.
- 9) HPLC, GC-MS and FTIR (optimizing, drug concentration measurements in plasma and organs, stability tests, etc.).
- 10) Animal handling and drug administration.

References:

- 1) Dr. Amin Abdulmajid, Department of Pharmacology, School of Pharmaceutical Sciences, University Sains Malaysia, Minden, Penang 11800, Malaysia. Tel: +60124230842 Email: aminmalikshah@gmail.com
- 2) Dr. Nozlana Abdulsamad, Integrative Medicine Cluster, Advanced Medical and Dental Institute, Universiti Sains Malaysia, 13200 Kepala Batas, Penang, Malaysia. Tel: +60184009772 Email: nozlana@usm.my
- 3) Dr. Qasem Abdallah, Department of Pharmacology and Biomedical Sciences, Faculty of Pharmacy and Medical Sciences, University of Petra, P.O. Box 961343, Amman, Jordan. Tel: +962795045523 Email: qasem79@yahoo.com