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EDUCATION:

2007-2011: PhD in Medicinal Chemistry, University of Strathclyde, UK.

2006-2007: Msc in pharmaceutical analysis, University of Strathclyde, UK.

1998-1999: MSc Clinical Epidemiology (Pharmacoepidemiology), NIHES, Erasmus University.

1991-1995: Bachelors of Pharmacy, Jadavpur University, Calcutta, India.

WORK EXPERIENCE:

Current: Assistant professor Faculty of pharmacy at An-Najah university (Taught course: Medicinal chemistry, Instrumental analysis, Scientific research, Pharmacognosy lab, Pharmacy legislation)

2007-2011: PhD student at University of Strathclyde

2006-2007: Msc. Student in pharmaceutical analysis at University of Strathclyde

2002-2006: Responsible pharmacist and Chief Drug analyst, Drug unit, Central Public Health Laboratory (M.O.H).

2002-2006: Part time lecturer in pharmacy and chemistry subjects in the Modern Community College, Palestine, Ramallah.

1999-2006: Part time community Pharmacist in Al Faiha Community Pharmacy shop, Ramallah, Palestine

1996-2002: Drug inspectors, at the Department of Drug Quality, Assurance and Registration, Ministry of Health, Palestine.

April 1996- Sept.1996: Worked full-time as a responsible pharmacist in Red Crescent Society Hospital, Ramallah, Palestine.

SKILLS

- 1- Working experience on chemical and analytical equipments: Biotage flash chromatography system, Microwave reactor, NMR, HPLC, GC, UV-Vis, IR, ATR & LCMS.
- 2- Working experience with drug virtual screening and docking programs like Insight II, GOLD docking program.
- 3- Working experience on statistical packages : SPSS, Minitab
- 4- Microsoft packages: Excel, WinWord, Access, PowerPoint
- 5- Languages: good spoken and written foreign languages like: English, Hindi, Dutch

AWARDS:

1. Zamalah fellowship for 4 month at university of Strathclyde – UK working with LC/MS/MS on bioanalysis project
2. Scholarship Award from Netherlands Organization for International Cooperation in Higher Education and Research (Nuffic) to complete my MSc. Clinical Epidemiology (Pharmacoepidemiology) Erasmus university (NIHES), Netherland
3. Scholarship Award from Said foundation to complete my Msc in pharmaceutical analysis at University of Strathclyde.
4. Scholarship Award From University of Strathclyde to complete my PhD in Medicinal Chemistry

Training courses:

- A Pharmaceutical manufacturing training in Infar (India) limited, for one month in different sections of the company, August, 1995, Calcutta, India.
- Pharmaceutical Inspection held by Pharmaceis Sans Frontieres, June 1997, Ramallah, Palestine.
- Quality assurance and Drug inspection course held in the Pharmacy directorate, MOH, by WHO representative December 1997, Ramallah, Palestine.
- Integrated Production Control System Course, held by USAID, May 1998, Ramallah, Palestine.
- Drug Quality Control a one month training course at Birzeit University in Centre for Environment & Occupational Health Science, June 1998, Birzeit, Palestine.
- Erasmus summer program August 10-28, 1998, Rotterdam, Netherlands.
- Dutch language course September-December 1998, Rotterdam, Netherlands.
- Pharmacoepidemiology & Clinical trials held by the Mediterian School of Medical Statistics and Clinical Epidemiology, June 1999, Siracuse, Italy.
- Advanced instrumental analysis, one month course in advanced instrumental analysis in Central Public Health laboratory (CPHL) funded by the Italian Cooperation, June, 2004. Ramallah, Palestine
- Good Laboratory Practice (GLP) in Central Public Health laboratory (CPHL) funded by the Italian Cooperation August, 2004, Ramallah, Palestine.
- Development, Scale up and production of Biopharmaceuticals, National Institute of Pharmaceutical Education and Research (NIPER), August, 2004, SAS Nagar, India.
- Basic Management course held by Primary Health Care Directorate, MOH, March, 2006, Ramallah Palestine.
- First Aid at Work, in Up-Front training Centre, October, 2008, Glasgow, UK.

[1-80]

PUBLICATION:

- [1] Shaqour B, Natsheh H, Kittana N, Jaradat N, Abualhasan M, Eid AM, et al. Modified Release 3D-Printed Capsules Containing a Ketoprofen Self-Nanoemulsifying System for Personalized Medical Application. *ACS Biomaterials Science & Engineering* 2024;10:3833-41.
- [2] Jaradat N, Hawash M, Abualhasan M, Al-Maharik N, Qadi M, Qabaha R, et al. Chemical analysis and bioactivity evaluation of Citrus limon leaves volatile oil from Palestine: investigating phytochemical, anti-inflammatory, antimicrobial, and cytotoxic properties. *Journal of Herbal Medicine* 2024;48:100954.
- [3] Hawash M, Jaradat N, Abualhasan M, Jadallah J, Fashafsheh L, Zaid S, et al. Integrative bioinformatic and experimental analysis of benzoylbenzodioxol derivatives: hypoglycemic potential in diabetic mice. *3 Biotech* 2024;14:255.
- [4] Hawash M, Abdallah S, Abudayyak M, Melhem Y, Abu Shamat M, Aghbar M, et al. Exploration of isoxazole analogs: Synthesis, COX inhibition, anticancer screening, 3D multicellular tumor spheroids, and molecular modeling. *European Journal of Medicinal Chemistry* 2024;271:116397.
- [5] Altarifi D, Harb T, Abualhasan M. Patient satisfaction with pharmaceutical services at primary healthcare centers under the Palestinian Ministry of Health. *BMC Health Services Research* 2024;24:514.
- [6] Abualhasan M, Naffa L, Alarda Ra, Zahi B, Amireh A, Al-Atrash M. Heavy metal and microbial testing of selected cosmetic products in the Palestinian market. *Journal of Environmental Science and Health, Part C* 2024;42:1-15.
- [7] Jaradat N, Abualhasan M, Hawash M, Qadi M, Al-Maharik N, Abdallah S, et al. Chromatography analysis, in light of vitro antioxidant, antidiabetic, antiobesity, anti-inflammatory, antimicrobial, anticancer, and three-dimensional cancer spheroids' formation blocking activities of *Laurus nobilis* aromatic oil from Palestine. *Chemical and Biological Technologies in Agriculture* 2023;10:25.
- [8] Hawash M, Jaradat N, Sabobeh R, Abualhasan M, Qaoud MT. New Thiazole Carboxamide Derivatives as COX Inhibitors: Design, Synthesis, Anticancer Screening, In Silico Molecular Docking, and ADME Profile Studies. *ACS Omega* 2023;8:29512-26.
- [9] Hawash M, Jaradat N, Abualhasan M, Şüküroğlu MK, Qaoud MT, Kahraman DC, et al. Design, synthesis, molecular docking studies and biological evaluation of thiazole carboxamide derivatives as COX inhibitors. *BMC Chemistry* 2023;17:11.
- [10] Hawash M, Jaradat N, Abualhasan M, Qneibi M, Rifai H, Saqfelhait T, et al. Evaluation of Cytotoxic, COX Inhibitory, and Antimicrobial Activities of Novel Isoxazole-carboxamide Derivatives. *Letters in Drug Design & Discovery* 2023;20:1994-2002.
- [11] Eid AM, Hawash M, Abualhasan M, Naser S, Dwaikat M, Mansour M. Exploring the Potent Anticancer, Antimicrobial, and Anti-Inflammatory Effects of *Capparis Spinosa* Oil Nanoemulgel. *Coatings* 2023;13:1441.
- [12] Abualhasan M, Tahan S, Nassar R, Damere M, Salameh H, Zyoud H. Pharmacists' knowledge of drug food administration and their appropriate patient counseling a cross-sectional study from Palestine. *Journal of health, population, and nutrition* 2023;42:99.
- [13] Abualhasan M, Jaradat N, Hawash M, Shraim N, Asaad M, Mousa A, et al. Chromatographic analysis of the chemical composition and anticancer activities of *Curcuma longa* extract cultivated in Palestine. *Open Life Sciences* 2023;18.
- [14] Abualhasan M, Hawash M, Aqel S, Al-Masri M, Mousa A, Issa L. Biological Evaluation of Xanthene and Thioxanthene Derivatives as Antioxidant, Anticancer, and COX Inhibitors. *ACS Omega* 2023;8:38597-606.

- [15] Jaradat N, Qneibi M, Hawash M, Al-Maharik N, Qadi M, Abualhasan MN, et al. Assessing *Artemisia arborescens* essential oil compositions, antimicrobial, cytotoxic, anti-inflammatory, and neuroprotective effects gathered from two geographic locations in Palestine. *Industrial Crops and Products* 2022;176:114360.
- [16] Jaradat N, Hawash M, Qadi M, Abualhasan M, Odetallah A, Qasim G, et al. Chemical Markers and Pharmacological Characters of *Pelargonium graveolens* Essential Oil from Palestine. *Molecules* 2022;27:5721.
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- [18] Hawash M, Qneibi M, Jaradat N, Abualhasan M, Amer J, Amer ELH, et al. The impact of filtered water-pipe smoke on healthy versus cancer cells and their neurodegenerative role on AMPA receptor. *Drug and Chemical Toxicology* 2022;45:2292-300.
- [19] Hawash M, Jaradat N, Abualhasan M, Thaher M, Sawalhi R, Younes N, et al. In vitro and in vivo assessment of the antioxidant potential of isoxazole derivatives. *Scientific Reports* 2022;12:18223.
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- [27] Jaradat N, Hawash M, Abualhasan MN, Qadi M, Ghanim M, Massarwy E, et al. Spectral characterization, antioxidant, antimicrobial, cytotoxic, and cyclooxygenase inhibitory activities of *Aloysia citriodora* essential oils collected from two Palestinian regions. *BMC Complementary Medicine and Therapies* 2021;21:143.
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