

AMIN THAWABTAH

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PERSONAL STATEMENT

Assistant Professor of Medicinal Chemistry and the director of Samih Darwazah Institute for Pharmaceutical Industries in Birzeit University started from 2019. Having worked over five years as a research assistant at Al Quds University and University of Basilicata in Drug discovery and Photochemistry labs, Dr. Thawabtah's responsibility of tasks related to chemical synthesis and purification of novel drugs and prodrugs, identification and characterization of unknown compounds using spectroscopic and chromatographic techniques, HPLC, LC-MS, GC, UV-VIS, FT-IR and NMR .

As an Instructor, Dr. Amin qualified to teach pharmaceutical technology, Instrumental chemistry, Industrial and organic chemistry courses besides general chemistry and general science courses.

Dr. Amin has implemented research projects during his jobs and study years in drug development and water treatment fields, and he is able to propose creative ideas in the organic chemistry, industries and pharmaceutical analysis that generate financial support through his relations with local and Italian pharmaceutical factories and through research centers in Italian and European universities.

- KEY COMPETENCIES:**
- Cosmetics technology
 - Medicinal Chemistry
 - Phytochemistry and chemistry of natural products
 - Pharmaceutical technology
 - Drug design and development
 - Industrial chemistry
 - Scientific Researcher

AWARDS

June 2019, The best medical research in Palestine 2019

The Higher Council for Innovation and Excellence - Mohammed Al-Masroji Award for Applied Research and Creative Ideas "masking the bitter taste of guaifenesin, a medication used to treat coughs and congestion".

Feb. 2020, The most active research group 2019

Al-Quds University - Deanship of Scientific Research, Drug Design and Discovery Research Group - Pharmacy College.

EXPERIENCE

Assistant Professor of Medicinal Chemistry courses.

Faculty of Pharmacy, Nursing and Health Professions, Birzeit University Palestine, Januray-2019 – until present.

Responsibilities: Lecturer for two courses, Medicinal Chemistry and Pharmaceutical Technology for doctor pharmacy students

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Acting Director, Samih Darwazah Institute for Pharmaceutical Industries.

Faculty of Pharmacy, Nursing and Health Professions, Birzeit University Palestine,
Januray-2019 – until present.

Responsibilities: Supervising the institute employees working and issuing instructions, preparing the annual budget, determining the training needs of the employees and to nominate them for the necessary training courses. Furthermore, Management of the relationship with external bodies related to the institute and chairing the council of the Institute, convening its meetings periodically and managing its affairs and submitting its recommendations to the Dean of the College.

Scientific Researcher, Universita Degli Studi Della Basilicata.

Department of Chemistry and Biotechnology, Italy,
December-2014 - November-2017

Scientific Researcher in: Drug development using a combination of experimental (analytical and synthesis procedures) and computational chemistry methodologies control the drug-receptors interactions with drug-functional groups for enhance the medicament properties as taste, odor, solubility, and bioavailability to make the consumer more satisfied and acceptance especially kids

Computational Chemistry Research Assistant.

Department of Bioorganic Chemistry, Al-Quds University (Remotely)
Palestine, Jan.-2017 -October-2017

Research activity: Computational calculations which included design of several drugs and prodrugs using DFT and ab initio quantum mechanics methods. using Argus Lab, Gaussian 09 (G09W07), Molden Software, AM1, PM3, HF/6-31G and B3LYP/6-31G (d,p) with a view to calculate the quantum mechanics (QM), enthalpy and entropy values, and the activation energies of prodrugs.

Lab. Instructor, Photochemistry Lab.,

Universita Degli Studi Della Basilicata (alternative)
Italy, May-2016 – March.-2017

Responsibilities: Pharmaceutical technology course and Instrumental chemistry course: Supervise laboratory sessions, give pre- laboratory presentations in instrumental devices experiments (HPLC, UV-Vis and FT-IR), assist students with various aspects of course work, prepare and try out experiments, perform data analysis, perform new

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formula, equipment calibration, manufacturing methods and procedures, manufacturing quality, production planning, tooling, pharmacology, documentation skills, analyzing information and write reports.

Scientific Researcher.

Pharmacy College, Al-Quds University Palestine,
March-2012 – Dec.-2014

Scientific Researcher in: Drug Design & Development Laboratory, wastewater Treatments, chemical instrumentation HPLC, FT-IR, UV, synthesis Prodrug to enhance solubility, bioavailability, metabolism, and masking API's bitter Taste, removal organic and inorganic Pollutants from water.

Production Supervisor

Beit Jala Pharmaceutical Company Palestine,
June-2010 – March.-2012

Responsibilities: Plan, develop, conduct, monitor testing, and devise sampling procedures and directions for recording and reporting quality data, inspection of materials and products to ensure finished product quality, collect and compile statistical quality data, analyze data to identify areas for improvement in the quality system, prepare reports to communicate outcomes of quality activities.

Scientific Researcher, (volunteer)

Department of Science, Al-Quds University
Palestine, Sep.-2007– July-2008

Objective: study the properties of elements (physical and chemical properties), Assay drugs, manufacturing medicines and cosmetics, and prepare dilute reagents for Science Lab's.

PROJECTS, RESEARCH INTEREST & TRAINING & ACTIVITIES

❖ FUNDED PROJECTS 2019-2021

- Pharmaceutical Dossier Development - Hikma Pharmaceutical Co. (40,000 \$)
- Jerusalem employee training – Jerusalem Pharmaceutical Co. (11,500 \$)
- Cosmetics and cream industrial training course – first cycle (2,700\$)
- Cosmetics and cream industrial training course – second cycle (2,600)
- BeePharm Food Supplement development - Australia (6,500 \$)

❖ **RESEARCH INTEREST**

- Design, synthesis, characterization and purification of novel drugs and prodrugs, using spectroscopic and chromatographic techniques, HPLC, LC-MS, GC, UV-VIS, FT-IR and NMR.
- Computational chemistry using Gaussian 09, GaussView 6, Molden, ArgusLab, PerkinElmer ChemDraw Mestrelab Mnova NMR software.
- Evaluation of biological activity of medicinal plants extracts commonly used in traditional medicine against some antimicrobials.

❖ **RECENTLY TRAINING COURSES 2019-2021**

- Intellectual Property Rights (IPR) and Technology Transfer (June 2021, 20h)
- Microbiology in pharmaceutical industry (April 2021, 12h)
- Professional Manufacture of Creams, natural Soaps and Cosmetics (Jan. 2021, 35h)
- International Training Program Generic Drugs (Nov. 2020, 20h)
- Cosmetic industry creams advanced level (Sep. 2020, 30h)
- Cosmetic industry creams level 1 (May 2020, 30h)
- Communication skills (July 2020, 4 week)
- Effective leadership and effective management (July 2020, 2 week)
- Project Management (July 2020, 4 week)
- Pharm Marketing (July 13-20 2019)

❖ **RECENTLY ACTIVITIES 2019-2021**

- Samih Darwazah Institute for Pharmaceutical Industry Committee – Chairman for 3 cycle -
- Diploma program for cosmetic formulations committee
- Falling walls Lab, PALESTINE/Birzeit
- External assessor for PhD student in Basilicata University
- External examiner for a master's student
- Speaker in the First International Conference on Pharmaceutical Sciences (ICPS)

EDUCATION

Ph.D. In Pharmaceutical chemistry and technology,

University of Basilicata
Italy, April 2018

Thesis title: Bitterless Guaifenesin Prodrugs – Design, Synthesis, Characterization, *In Vitro* Kinetics and bitterness Studies.

M.Sc. In Chemical Applied Industrial Technology,

Al-Quds University
Palestine, Jan. 2014

Minor in Pharmaceutical industry Technology

B.Sc. In Chemistry,

Al-Quds University
Palestine, Sep. 2009

Minor in Chemical Technology

PUBLICATION

- Antifungal and antibacterial activities of isolated marine compounds. *Toxins* 2023, 15(2), 93. [View](#)
- Classification, Toxicity and Bioactivity of Natural Diterpenoid Alkaloids. *Molecules* 2021, 26(13), 4103. [View](#)
- The Biological Activity of Natural Alkaloids against Herbivores, Cancerous Cells and Pathogens. *Toxins* 2019, 11(11), 656. [View](#)
- Bitterless guaifenesin prodrugs—design, synthesis, characterization, in vitro kinetics, and bitterness studies, October 2018, *Chemical Biology & Drug Design journal*, 92 (4). [View](#)
- Chapter 105 - Solanine (Nightshade Glycoalkaloids), *Handbook of Foodborne Diseases*, 1115 to 1122. [View](#)
- Anti-cancer Pro-drugs-Three Decades of Design, July 2015, *World Journal of Pharmacy & Pharmaceutical Sciences* , 4(7), 1751-1779. [View](#)
- Mefenamic acid Pro-drugs and codrugs – Two Decades of Development, June 2015, *World Journal of Pharamaceutical Research*, 4(6), 2408- 2429. [View](#)
- Diclofenac drugs and prodrugs – three decades of design. May 2015, *World Journal of Pharmaceutical Research*, 4(7),1960- 1982. [View](#)
- Removal of Aspirin, Salicylic Acid, Paracetamol and p-Aminophenol by Advanced Membrane technology Activated Charcoal and Clay Micelles Complex. May 2015, *Case Studies Journal*, 4(5), 74-111. [View](#)
- Removal of Antibacterial Agents by Advanced Membrane Technology and ODUMA-Micelle-Clay Complex. June 2015, *Case Studies Journal*, 4(5), 143-164. [View](#)

- Chapter 4 - Targeted Prodrugs, Prodrugs Design – A New Era, 139-176. [View](#)

REFERENCES

Prof. Ahmad Amro,

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