# MOHAMMAD BAHAA MAJZOUB

**Address: Beirut – Lebanon**
**Assistant Professor of Pharmaceutical sciences**
**Tel: +961 76 330025 (Mobile)**
**E-mail: mohammad.majzoub@hpu.edu.sy**
**mohammad.majzoub01@liu.edu.lb**

## EDUCATION

**The University of Jordan (JU),** Amman, Jordan 2012- 2016
PHD in Pharmaceutical Sciences.

- Area of Specialization: Nano-polymer drug delivery system for glaucoma management.

**Jordan University of Science and Technology (JUST**), Irbid, Jordan 2008-2011
Masters in Pharmaceutical Technology.

- Area of Specialization: Microencapsulation for Taste Masking Purpose.

**Intermediate University College (IUC)**, Amman, Jordan 2006-2008

- Diploma in Optometry: Optometrist, Preparing Optical Glasses.
- Course in Contact lenses: hard and soft C.Ls. fitting, treatment of keratoconus.

**Beirut Arab University (BAU),** Beirut, Lebanon 1990-1995

- Bachelor in Pharmacy- Pharmaceutical Technology Section.

## POSITIONS:

- **Assistant Professor, Faculty of Pharmacy, Hawash Private University 2018- Present**
- **Assistant Professor, Faculty of Cosmetology, Hawash Private University 2018-Present**
- **Dean of the Faculty of Pharmacy at Al Hawash Private University 2020- 2023**
- **Assistant Professor, Faculty of Pharmacy, Lebanese International Univ. 2018-Present**
- **Assistant Professor at Al Ahliyya Amman University 2017-2018**
- **Assistant Researcher, Jordan University 2011-2016**
- **Assistant Researcher, Jordan University for Science and Technology 2008-2011**
- **Beirut Arab University, Toxicology & Pharmacology Teaching Assistant 1998-2000**

## RESEARCH AND TECHNICAL ACTIVITIES:

- **Mohammad Bahaa Majzoub**, Hatim Alkhatib, Yaser Bustanji and Ayman Khodair, ***Polymeric Nanoparticle Drug Delivery System for the Management of Glaucoma, in vivo evaluation***, to be submitted soon.
- Bashar Al-Taani, **Mohammad Bahaa Majzoub**, Bassam Tashtoush, ***Microencapsulation of Clarithromycin Using Eudragit S100 Polymer for Taste Masking***, to be submitted soon.
- Attending The Symposium on Accreditation of Pharmaceutical Academic Programs and Quality Assurance in Pharmaceutical Education, Faculty of Pharmacy, Damascus University, Damascus, Syria, 5, July, 2023.
- Attending and Chairing Session at the 1st Pharmaceutical Sciences Conference, Recent Trends in Pharmaceutical Researches, Arab University for Science and Technology, Hama, Syria, 5, June, 2023.
- Attending the School of Pharmacy 2023 International Symposium Biological Therapies: from Bench to Clinic held at the University of Jordan, Amman, Jordan, 13, May, 2023.
- Attending "UNIMED General Assembly 2022: Shaping the Mediterranean from Cooperation to Integration", Jordan University, Amman, Jordan, 22-23, June, 2022.
- Invited Speaker at the 2nd International Conference for Pharmaceutical Sciences, Aleppo University, Faculty of pharmacy, Aleppo, Syria, 16-18, March, 2022.
- Representing Al Hawash Private University at the 23rd Conference of the Scientific Society of Faculties of Pharmacy in the Arab World, Aleppo, Syria, 16-18, March, 2022.
- Attending the 1st National Tishk Pharmaceutical Conference (NTPC) on Pharmaceutical Sciences Organized by the faculty of Pharmacy, Tishk International University, Erbil, Kurdistan Region, Iraq and focused on Paradigm shift in Drug Discovery from traditional way of drug discovery to the modern ultra-rational way, with the Theme "Paradigm shift in Drug Discovery and Development" Online Attendence, 26-27, June, 2021.
- Alsalloum I., **Majzoub M.B.** & Alsalloum K. Formulation, evolution and stability studies of sustained release tablets of molsidomine using hydrophilic matrix system. World journal of pharmacy and pharmaceutical sciences, Vol 10, Issue 7, 2021.
- Invited Speaker at Al-Hawash Private University, Pharmacy Fifth Conference, Pharmacovigilance and drug quality, Al-Hawash, Homs, Syria, April 22-23, 2019.
- Invited Speaker at Applied Science University, Pharmacy Fourth Conference, Recent Trends in Postgraduate Research, Amman, Jordan, January 5-6, 2019.

## TEACHING AND ACADEMIC EXPERIENCE:

- **Al Hawash Private University, Faculty of Pharmacy, Homs, Syria** **2019 - Present**
  - Teaching Pharmaceutics, Pharmaceutical technology, Biopharmacy & Pharmacokinetics and Community Pharmacy for undergraduate pharmacy students.
- **Al Hawash Private University, Faculty of Cosmetology, Homs, Syria** **2019 - Present**
  - Teaching Cosmetic1, 3 & 4 for undergraduate cosmetology students.
- **Lebanese International University (LIU) Beirut, Lebanon** **2019 - Present**

  Teaching Drug Dosage forms for undergraduate pharmacy students.
- **Al Hawash Private University, Faculty of Pharmacy, Homs, Syria** **2019 – 2023**
  - **As a Dean** I was involved in the following Duties:
    1. I was involved in the implantation of the accreditation requirements.
    2. Resolving any student related issues regarding registration concerns, coordination of graduation projects, preparing graduates for the official examination (*Pharmacy Colloquium*) by special educational sessions and community pharmacy practical training.
    3. Managing four departments with a total of 60 faculty members.
    4. Preparing faculty teaching schedule for theoretical and practical courses.
    5. Representing the College and university in national and international venues.
    6. Memorandum of Understanding between Al-Hawash Private University and Al-Ahliyya Amman University, Amman, Jordan.
    7. Memorandum of Understanding between Al-Hawash Private University and Philadelphia University, Amman, Jordan.
    8. Memorandum of Understanding between Al-Hawash Private University and Applied Science Private University, Amman, Jordan.
- **Amman Al Ahliyya University (AAU) Amman, Jordan** **2017-2018**
  - Teaching cosmetic course for undergraduate pharmacy students. This course covers types of cosmetics and their use on daily bases. The formulation and evaluation of shampoos, dentifrices, antiperspirants, deodorants, emollients, aerosols, colored make- up preparations, anti-acne preparations, hair antidandruff, hair colorants, hair dye removers and epilation & depilation methods.
  - A workshop titled ***Future Cosmetic Trends*** showed the importance of cosmetic in daily routine activities, **https://www.youtube.com/watch?v=frQRkO36cQE&feature=youtu.be.**

- A workshop was about ***BIODERMA*** brand items. It covers so many ranges including that intended for different skin types. Other ranges that are used for hair and scalp and for pediatric dermatology, sun screen range, lightening range for sensitive skin. Additional ranges used for damaged skin, cutaneous ageing and cell regeneration are also explained.
- A workshop was an introduction for other universal cosmetic brands like ***FILORGA, LA ROCHE POSAY, VICHY, AVENE and MUSTELA*** covering their main ranges and uses.
- **Beirut Arab University Admission Exam Training Courses. 1994-2004**

## COMPUTER & LANGUAGE SKILLS

- Microsoft Word, Microsoft Excel.
- Operating Systems: Microsoft windows.
- Language: Arabic (Mother Language) & Very Good in Scientific English Language.

## LIST OF REFERENCES

- **Dr. Abed Al-Mawla Chehabeddine**. Secretary of equivalences & colloquium, Beirut.
  **Tel.+961 3 809369, E-mail: abed_almawla@hotmail.com.**
- **Dr. Hatem Al-Khatib**, Faculty of pharmacy, University of Jordan, Amman.
  **Tel. +962 79 5045494**, **E-mail: h.khatib@ju.edu.jo.**
- **Prof. Yaser Bustanji**, Director of Hamdi Mango Research Center, University of Jordan, Amman.
  **Tel. +962 79 8515388**, **E-mail: bustanji@ju.edu.jo.**
- **Dr. Bashar Al-khalidi**, Vice Dean, School of Graduate studies, University of Jordan, Amman.
  **Tel. +962 79 9912188, E-mail bashar.alkhalidi@yahoo.com.**
- **Dr. Bashar Al-Taani**, Chairman of pharmaceutical technology department, Faculty of Pharmacy, Jordan University of Science and Technology, Irbid.
  **Tel. +962 79 5562651, E-mail: altaani@just.edu.jo.**
- **Dr. Rana Abu Huwaij,** Faculty of pharmacy and medical sciences, Pharmacy Department, Head of Quality and Development Committee, Al-Ahliyya Amman University, Amman.
  **Tel.+962777499277, E-mail: r.abuhuwaij@ammanu.edu.jo**
- **Dr. Fadi Najem**, Faculty of pharmacy and medical sciences, Audiometry Department, Al-Ahliyya Amman University, Amman.
  **Tel.+962 79 2917088, E-mail: fadinajem2000@yahoo.com.**

## TEACHING INTERESTS

My strongest teaching interests lie in courses related to Cosmetic sciences, Pharmaceutics, Pharmaceutical Analysis & Biotechnology, Pharmacokinetics & Biopharmaceutics, Industrial Pharmacy, Pharmacognosy & Evidence-Based Herbal Medicine and Clinical Nutrition & Diet Therapy.

## STATEMENT OF TEACHING PHILOSOPHY

As someone who enjoys learning, I also take great interest in teaching others. Teaching can help provide students with the necessary knowledge base while strengthening their skills such as communication skills, problem solving, critical thinking, and teamwork. High-quality teaching results in high quality graduates, which improves their market value and helps them in their prospective careers. It also advances the reputation of the institution, and ultimately contributes to the local and global economy by providing the Highly-Qualified-Personnel needed in any knowledge-based economy.

My teaching style is a blend of different approaches I have come to learn throughout my own teaching experience. As assistant professor, instructor, or student, I have experienced different methods, views, and perspectives in teaching. My experience provided me with the skill to adapt, accept change, and always learn the best ways to excel.

In the classroom, I prefer discussion-style lectures, hence, I follow a dialogue as oppose to a monolog teaching approach. I believe in challenging the students through questions and answers and engaging them by relating the discussed topics to real problems. I think it is important to relate theory to real-life examples from both industry and research. I find this approach a successful one to capture their interest and to create the needed passion and curiosity that motivates them for a better learning experience.

As far as teaching tools, my preference is to use PowerPoint based presentations and to encourage students to have a printout or an iPad copy of the lecture slides beforehand. This way saves the students and teacher's valuable time and energy, focusing on delivering the discussed concepts and ideas. I use VCLASS as the communication medium between me and my students in all my courses, where I post slides, assignments, solution to assignments, reading material, student grades, and regular announcements during the semester.

I prefer research-oriented courses, for senior and graduate courses, where the major weight goes to research projects, surveys, and investigation of newly proposed topics. Students can work in teams and has to learn how to write research papers, and present research work to their colleagues. Successful work is pursued further and published in local and international conferences.

## GRADUATE LEVEL COURSES FOR MASTER'S DEGREE

- **Cosmetology:** This course includes advanced cosmetic formulations for skin, hair, nail and dental products. New active materials and excipients, efficacy testing of cosmetics. It also includes legislation and safety regulations for cosmetics, stability testing and perfume manufacturing.
- **Drug Formulation and Drug Delivery (1)**: This course includes advances in microencapsulation, cyclodextrin complexes, coating, sustained parenterals, oral drug limitations and their solutions, transdermal and micro-emulsions.
- **Drug Formulation and Drug Delivery (2):** This course includes drug formation and targeting of active materials to the brain and colon. It also includes drug-polymer conjugates, liposomes, niosomes, polymer micelles and liquid crystals. The use of inhibitory agents to overcome the enzymatic barrier to pre-orally administered therapeutic peptides and proteins are discussed.

## GRADUATE LEVEL COURSES FOR DOCTORATE DEGREE

- **Spectroscopy:** Theories of spectroscopic transitions and their applications in structural elucidation and quantitative analyses. Topics include infrared, Raman, nuclear magnetic resonance spectroscopy and mass spectrometry. Advanced application of these techniques in structural elucidation will be given great focusing.
- **Biotechnology and Drug Discovery:** Concept of introducing useful agents through the manipulation of biosystems and its associated fields to Pharmacy students. Advanced concepts and application of biotechnology and its techniques. Topics involved deal with cloning, recombinant DNA (rDNA), Genetic engineering and protein production, tissue culture (plants and animals). Moreover, many techniques related to DNA will be discussed such as isolation and purification, gene splicing, enzyme systems, types of mutation and techniques related to DNA hybridization and mutation detection, Finger printing, polymerase Chain Reaction PCR, Enzyme linked immunosorbent assay ELISA, Capillary electrophoresis CE, mutation detection methods and its correction, the management and treatment of DNA errors, and Gene therapy. DNA as a receptor and target for drug action as part of Drug Discovery will be covered.
- **Pharmacology Laboratory and Bioassay:** Measurement of the effects of drugs on isolated tissues and cells and their use in the study of drug / receptor interactions and drug toxicity, and analytical techniques in the measurement of drug absorption and metabolism. Conducting simple

experiments on in vitro preparations and present their findings in a written account, which includes details of the background of the experiment (introduction), methods, results and discussion.

- **Physicochemical properties as a tool in drug research:** Development of advanced instruments explored new horizons in drug research and made it possible to obtain better and accurate results in shorter time in both diagnostic and therapeutic research areas. During this course, the students will be introduced to some of the new trends in drug research like the application of advanced light sources (Synchrotrons) in the characterization of the physicochemical properties of different pharmaceutical dosage forms like micro emulsions, liquid crystals and nanoparticles. Also, the students will be introduced to some medical applications of advanced light source like tracing drug diffusion and delivery based on the interaction properties with light source components like the infrared light. The knowledge of the relation between nature of the research tool and the physicochemical properties of the drug (interaction with light, magnetic properties,..) and the formula (size, surface properties,..) are the key factors for optimum utilization of these advanced techniques. During the course, it will be discussed with the students the importance of the physicochemical properties of drug molecules and their formulations in the choice and efficiency of the analytical methodology. The student will be introduced to the concept of the physical property of interest and the available experimental methods used in the determination of this property. After this stage, selected newly published articles will be discussed with the students illustrating the pharmaceutical or medical importance of the knowledge of the physicochemical properties and the new technologies.