

Malak Youssef AlBathish

Assistant Professor of Pharmaceutical Technology

Saida-Lebanon

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Education

- 2025 Doctor of Philosophy (Ph.D.)** | Pharmaceutical Technology, Beirut Arab University
Dissertation Title: Quantitative Assessment of Selected Narrow Therapeutic Index Drugs Using Developed Analytical Techniques
- 2017 Masters in Pharmaceutical Science (MSc.)** | Pharmaceutical Analytical Chemistry and Drug Quality Control, Beirut Arab University
Dissertation Title: Development and Validation of Sensitive Methods for the Analysis of Some Selected Drugs
- 2013 Bachelor of Pharmacy (BSc.)** | Beirut Arab University

Research Experience

Doctoral Researcher:

- Drug Quality Control Laboratory, BAU, Beirut, Lebanon since Sep. 2019
- Lebanese Atomic Energy Commission Laboratory, Beirut, Lebanon since Sep. 2019
 - Developed several analytical techniques for the quantification of drugs- in pure and in pharmaceutical formulations including spectrophotometry, HPLC, FTIR, GC, PIXE, ToF-SIMS.
 - In addition to assisting in drug analysis for pharmaceutical products in the Drug Quality Control Laboratory (ISO9001:2015) as a part of quality assurance prior to governmental approvals for drug marketing.

Academic Experience

- Feb. 2026 - present** Assistant Professor, Department of Pharmaceutical Technology, Faculty of Pharmacy, Beirut Arab University
 - Delivered courses in Pharmaceutical Physical Chemistry and Pharmaceutical Analytical Chemistry
- Feb. 2025-Jan. 2026** Lecturer, Department of Pharmaceutical Technology, Faculty of Pharmacy, Beirut Arab University
 - Delivered courses in Pharmaceutical Physical Chemistry and Pharmaceutical Analytical Chemistry
- Sept. 2016- Jan. 2025** Lab Instructor, Department of Pharmaceutical Technology, Faculty of Pharmacy, Beirut Arab University
 - Delivered laboratory sessions in Pharmaceutical Analytical Chemistry and Pharmaceutical Analysis
- Feb. 2016- July 2024** Part time Lecturer, Department of Pharmaceutical Science, School of Pharmacy, Lebanese International University
 - Delivered courses in Pharmaceutical Medicinal Chemistry, Quantitative Analysis, Pharmaceutical Analysis and Drug Compounding.

Scientific Achievements:

Recognition

CNRS-L/BAU PhD Fellowships Program 2019-2020 o Joint scholarship grant between the National Council for Scientific Research and Beirut Arab University

Publications:

1. AlBathish M, Gazy A, Jamal M Al (2025) A Comparative pH-Dissolution Profile Analysis of Selected Commercial Levothyroxine Formulations in Lebanon Using Anion-Exchange HPLC Method: Implication on Interchangeability. *Advances in Pharmacological and Pharmaceutical Sciences* 2025. <https://doi.org/10.1155/adpp/8833028>
2. AlBathish M, Gazy A, Al Jamal M, Bejjani A (2024) Utilization of the FTIR spectroscopic method for the quantitative determination of the narrow therapeutic index levothyroxine sodium in pharmaceutical tablets. *Pharmacia* 71: 1-9. <https://doi.org/10.3897/pharmacia.71.e125879>
3. Al Jamal M, Al Bathish M, Gazy A (2023) Validated ion exchange HPLC method for the quantification of levothyroxine – a narrow therapeutic index drug – used for the treatment of hypothyroidism. *Pharmacia* 70(2): 299-305. <https://doi.org/10.3897/pharmacia.70.e103242>
4. M. Y. AlBathish, A. A. Gazy, and M. K. El Jamal, “Novel Selective Spectrophotometric Methods for the Determination of Methimazole in Pure Form and in Pharmaceutical Formulation”, *Int J Pharm Pharm Sci*, vol. 12, no. 2, pp. 62–69, Feb. 2020.
5. M. Y. AlBathish, A. A. Gazy, and M. K. El-Jamal, “RP-HPLC AND Chemometric Methods for the Determination of Two Anti-Diabetic Mixtures; Metformin Hydrochloride-Canagliflozin and Metformin Hydrochloride-Gliclazide in Their Pharmaceutical Formulation”, *Int J Pharm Pharm Sci*, vol. 12, no. 2, pp. 83– 94, Feb. 2020.

Conference:

1. AlBathish M, Gazy A, Al Jamal M, Bejjani A., (2025, Aug.31-Sept.3) Assessment of therapeutic equivalence of levothyroxine sodium in pharmaceutical tablets in Lebanon via novel analytical techniques: Quantitative analysis, in vitro release and tablet mapping, 83rd FIP World Congress of Pharmacy and Pharmaceutical Sciences, Copenhagen, Denmark.
2. Malak AlBathish, (May 2016) Kinetic Spectrophotometric Method for the Determination of Methimazole in Pure Form and in Pharmaceutical Formulation, LAAS'16, Beirut, Lebanon.