



Heba-Alla Hussein Abd-ElSalam Mahmoud

Address: Fifth Settlement, Cairo, Egypt.

Nationality: Egyptian.

Academic degree: Lecturer of Pharmaceutical Analytical Chemistry.

Department: Pharmaceutical Chemistry.

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Education:

- 1. 2021:** PhD Degree from the Department of Analytical Chemistry, Faculty of Pharmacy, Cairo University, Egypt. My thesis is titled “Developing Cost-effective Extraction Techniques for Quality Control of Nutraceuticals and Functional Foods”. Under supervision of: Prof. Dr Mohammed A. Ibrahim (Pharmaceutical Chemistry Department, Faculty of Pharmacy Future University) and Prof. Dr Hala E. Zaazaa (Analytical Chemistry Department, Faculty of Pharmacy, Cairo University).
- 2. 2014:** Master Degree from the Department of Analytical Chemistry, Faculty of Pharmacy, Cairo University, Egypt. My thesis was titled “Analytical study of some nutraceuticals used for treatment of autoimmune diseases”. Under supervision of: Prof. Dr Mohammed A. Ibrahim (Pharmaceutical Chemistry Department, Faculty of Pharmaceutical Science and Pharmaceutical Industries, Future University) Prof. Dr Hala E.Zaazaa (Analytical Chemistry Department, Faculty of Pharmacy, Cairo University) and Prof. Dr Medhat A. Al-Ghobashy (Analytical Chemistry Department, Faculty of Pharmacy, Cairo University).
- 3. 2005:** Bachelor degree in pharmaceutical sciences with grade good, Faculty of Pharmacy, Cairo University, Egypt. During my undergraduate studies, I participated in summer training programs for pharmacy students in pharmaceutical company (Pfizer) and Egyptian pharmacies.

Working Experience:

- 1. 27th April 2022 till now:** Lecturer at Pharmaceutical Chemistry Department, Faculty of Pharmacy and Drug Technology, Egyptian Chinese University.

2. **1st September 2020 - 27th April 2022:** Assistant Lecturer at Pharmaceutical Chemistry Department, Faculty of Pharmacy and Drug Technology, Egyptian Chinese University.
3. **May 2020-Oct. 2020:** Freelance data processing at Zidelegence Bioequivalence Centre.
4. **2016-2020:** Community pharmacist at Egyptian pharmacies.
5. **2015-2016:** Analysis manager at Centre of Applied Research and Advanced Studies (CARAS), Faculty of Pharmacy, Cairo University.
6. **2011-2014:** Analyst at Biotechnology Centre, Faculty of Pharmacy, Cairo University for Pharmaceutical and Nutraceutical quality control, Water quality control (chemical content assays), Assist in the preparation of written reports for results and assist in the preparation for practical sessions and/or presented lectures in several workshops.
7. **September 2006 – December 2010:** Community pharmacist at Egyptian pharmacies.

Teaching Experiences:

- As a lecturer, teaching member for undergraduate students for the following courses:
 1. Pharmaceutical Analytical Chemistry I (Level 1 students).
 2. Pharmaceutical Analytical Chemistry II (Level 1 students).
 3. Pharmaceutical Analytical Chemistry III (Level 2 students).
 4. Instrumental analysis (Level 2 students).
 5. Scientific Writing (Level 2 students).
 6. Quality Control of Pharmaceuticals (Level 5 students).
- As an assistant lecturer, teaching and preparing practical sessions for undergraduate students for the following courses (**Fall 2020-2021 till Spring 2021 – 2022**):
 1. Pharmaceutical Analytical Chemistry I (Level 1 students)
 2. Pharmaceutical Analytical Chemistry II (Level 1 students)
 3. Pharmaceutical Analytical Chemistry III (Level 2 students)
 4. Instrumental analysis (Level 2 students)
 5. Pharmaceutical Organic Chemistry I (Level 1 students)
 6. Pharmaceutical Organic Chemistry II (Level 1 students)
 7. Pharmaceutical Organic Chemistry III (Level 2 students)
 8. Physical Pharmacy (Level 1 students)

Administrative and Academic Activities:

- **Assistant of the Vice Dean for Education and Students' Affairs**, based on declaration from the Board of Faculty of Pharmacy and Drug Technology, Egyptian Chinese University (**September 2024 – till now**).

- **Member of Transfer Committee** based on declaration from the Board of Faculty of Pharmacy and Drug Technology, Egyptian Chinese University (**September 2024 – till now**).
- **Council Secretary for Pharmaceutical Chemistry Department**, based on declaration from the Board of Pharmaceutical Chemistry Department, Faculty of Pharmacy and Drug Technology, Egyptian Chinese University (**October 2024 – till now**).
- **Member of Mandatory Training Unit** based on declaration from the Board of Faculty of Pharmacy and Drug Technology, Egyptian Chinese University (**September 2023 – till now**).
- Participation in the preparation of the of quality files for Pharmaceutical Chemistry Department, Faculty of Pharmacy and Drug Technology, Egyptian Chinese University (**Fall 2022 – 2023 till now**).
- Participation in the editing of the official website of Faculty of Pharmacy and Drug Technology, Egyptian Chinese University (**Spring 2021 – 2022 till now**).
- Academic Advisor for Pharm-D students, Faculty of Pharmacy and Drug Technology, Egyptian Chinese University (**Fall 2020-2021 till Spring 2021 – 2022**).
- Participation in the revision of the of quality files for Pharmaceutical Chemistry Department, Faculty of Pharmacy and Drug Technology, Egyptian Chinese University (**Fall 2020-2021 till Spring 2021 – 2022**).

List of Publications:

1. **“Nootropic drugs: Piracetam and Citicoline sodium: A Review of Analytical Methods”** Passant M. Medhat, Nermine S. Ghoniem, Manal M. Fouad, Hany H. Monir, **Heba-Alla H. Abd-ElSalam**, Translational Health Sciences, August 2025.
2. **“Smartphones as Optical Detectors in Pharmaceutical Analysis: A Review”** Heba-Alla H. Abd-ElSalam, Eman S. Elzanfaly, Yasmine F. Bassuoni, Microchemical Journal (IF 5.1), May 2025.
3. **“Simultaneous determination of brinzolamide, timolol maleate and its oxidative degradation product using univariate and multivariate green spectrophotometric methods”** Asmaa A. Mandour, Nada Nabil, Hala E. Zaazaa, Mohamed A. Ibrahim, Mahmoud A. Tantawy, Ibrahim A. Naguib, **Heba-Alla H. Abd-ElSalam**, Microchemical Journal (IF 5.1), May 2025.
4. **“Nanoparticles Modified Solid-Contact Potentiometric Sensor for Selective Nanomolar Citicoline Determination”** Passant M. Medhat, **Heba-Alla H. Abd-ElSalam**, Manal Mohamed Fouad, Amr M. Mahmoud, Hany H. Monir and Nermine S. Ghoniem, Journal of The Electrochemical Society (IF 3.3), April 2025.
5. **“A miniaturized, portable, cost-effective photometer with a smartphone detector as a demonstrative model for measuring the total phenolic content of some nutraceuticals”** Heba-

Alla H Abd-ElSalam, Geena NN Saleh, Khaled G Waked, Omar A Refaeey, Kerolos S Poules, Hanan H Georgey, Eman S Elzanfaly, Chemical Papers (IF 2.1), June 2024.

6. **“A Review Exploring the Wound-Healing Activity of Self-Healing Hydrogels: Fabrication, Characterization, Mechanism, and Biomedical Applications”** Heba-Alla H Abd-ElSalam, Omar A Refaeey, Khaled G Waked, Khaled A Elsherbiny, Aya M Aleam, Mariam Q Ibrahim, Marina H Farag, AbdelRahman M Nasef, Aliaa N ElMeshad, Journal of Cluster Science, (IF 2.7), May 2024.
7. **“Greenness assessment of HPLC analytical methods with common detectors for assay of paracetamol and related materials in drug products and biological fluids”** Ibrahim A Naguib, Meral Majed, Maram Albogami, Maram Alshehri, Aseel Bukhari, Hadeel Alshabani, Izzeddin Alsalahat, **Heba-Alla H Abd-ElSalam**, Journal Separations (IF 3.34), Vol. 10, Iss. 5, April 2023.
8. **“Development of Green and Efficient Extraction Methods of Quercetin from Red Onion Scales Wastes Using Factorial Design for Method Optimization: A Comparative Study”** Heba-Alla H Abd-ElSalam, Mohammed Gamal, Ibrahim A Naguib, Medhat A Al-Ghobashy, Hala E Zaazaa, M Abdelkawy, Journal Separations (IF 3.34), Vol. 8, Iss. 9, September 2021.
9. **“Green and Cost-Effective Extraction Techniques of Quercetin from Mixture of Nutraceuticals with Yield Analysis via Spectrophotometry and High-Performance Liquid Chromatography Methods”** Mohammed Gamal, **Heba-Alla H. Abd-ElSalam**, Ibrahim A Naguib, Medhat A Al-Ghobashy, Hala E Zaazaa, M Abdelkawy, Journal of AOAC International (IF 2.028), Vol. 105, Iss. 1, May 2021.
10. **“Correlation of In Vivo and In Vitro Assay Results for Assessment of Free Radical Scavenging Activity of Green Tea Nutraceuticals”** Heba-Alla H. Abd-El Salam, Medhat A. Al-Ghobashy, Muhammad Al-Shorbagy, Noha Nassar, Hala E. Zaazaa, Mohamed A. Ibrahim, Journal of Food Science (IF 3.693), Vol. 81, Iss. 7, 2016.
11. **“On-column Decaffeination and SPE of Epigallocatechin gallate from Green Tea Nutraceuticals”** Heba –Alla Hussein Abd- El Salam, Medhat Ahmed Al-Ghobashy, Hala E Zaazaa, Mohamed Abdelkawy Mohamed, at Journal of Separation Science and Technology (IF 2.799), Vol. 51, Iss. 4, 2015.
12. **“Stability of Catechins in Green Tea Nutraceutical products: Application of Solid Phase Extraction - Thin Layer Chromatography Densitometry”** Heba –Alla Hussein Abd- El Salam, Medhat Ahmed Al-Ghobashy, Hala E Zaazaa, Mohamed Abdelkawy Mohamed, accepted for publication at Journal of Food Chemistry (IF 9.23), Vol. 156, 2014.

List of Conferences:

1. **“A Simple Portable Photometer Model with a Smartphone Detector for Educational Purpose and in site Analysis: Determination of Total Polyphenol Content”** Khaled G. Waked, Omar A.

Refaeey, Kerolos S. Poules, Heba-Alla H. Abd-ElSalam, Geena N. N. Saleh, Hanan H. Georgey and Eman S. Elzanfaly, at the 8th Annual Arab International Pharmacy Conference (AIPC 2024), April 20th & 21st, 2024

2. **“A Simple Portable Photometer Model with a Smartphone Detector for Educational Purpose and in site Analysis”** Heba-Alla H. Abd ElSalam, Khaled G. Waked, Omar A. Refaeey, Kerolos S. Poules, Hanan H. Georgey and Eman S. Elzanfaly, at the 11th International Scientific Conference of Faculty of Pharmacy, Cairo University “Authenticity for Excellence in Pharmacy; Egypt healthcare vision 2030”, 14th & 15th May 2023.
3. **“The role of Analytical Chemists in Quality Control Laboratories in saving our Environment”** Heba-Alla H. Abd ElSalam, Omar A. Refaeey, Khaled G. Waked, Kerolos S. Poules, Ganna A. Sroor, Aya M. Aleam, Thomas R. Fathy, and Eman S. Elzanfaly, at the 11th International Scientific Conference of Faculty of Pharmacy, Cairo University “Authenticity for Excellence in Pharmacy; Egypt healthcare vision 2030”, 14th & 15th May 2023.
4. **“Exploring the potential antibacterial and wound healing properties of Quercetin and proposing a dosage form”** Heba-Alla H. Abd-ElSalam, Khaled A. Elsherbiny, Aya M. Aleam, Mariam K.Kandil, Marina Habib, Abdel Rahman Magdy, Youstina Emad, Aliaa N. ElMeshad, at the 11th International Scientific Conference of Faculty of Pharmacy, Cairo University “Authenticity for Excellence in Pharmacy; Egypt healthcare vision 2030”, 14th & 15th May 2023.
5. **“Greenness assessment of HPLC analytical methods with common detectors for assay of paracetamol and related materials in drug products and biological fluids”** Ibrahim A Naguib, Meral Majed, Maram Albogami, Maram Alshehri, Aseel Bukhari, Hadeel Alshabani, Heba-Alla H Abd-ElSalam, at Dubai International Pharmaceutical Technologies Conference (DUPHAT), 10th – 12th January, 2023.
6. **“Greenness assessment of HPLC analytical methods with common detectors for assay of paracetamol and related materials in drug products and biological fluids”** Ibrahim A Naguib, Meral Majed, Maram Albogami, Maram Alshehri, Aseel Bukhari, Hadeel Alshabani, Heba-Alla H. Abd-ElSalam, at 5th annual Innovative Insights on Hospital Pharmacy Practice (IHOP22) conference (Ministry of Health Saudi Arabia), 26th - 28th, December, 2022.
7. **“Correlation of Antioxidant Activity to Total Polyphenol and Epigallocatechin Gallate Content of Green Tea Nutraceuticals: Photo and Hydrolytic Degradation”** Heba –Alla H. Abd-El Salam Mahmoud, Medhat Ahmed Al-Ghobashy, Hala El Sayed Zaazaa, Mohamed Abdelkawy Mohamed, at 3rd FUE International Conference of Pharmaceutical Sciences (3rd FUE-ICPS) February 9th - 11th, 2015.
8. **“Spectrophotometric and Solid Phase Extraction – HPLC for Assessment of the Photo stability of Green Tea Catechins”** Heba –Alla H. Abd-El Salam, Medhat Ahmed Al-Ghobashy, Hala El

Sayed Zaazaa, Mohamed Abdelkawy Mohamed, at the 4th International Scientific Conference of Faculty of Pharmacy, Cairo University "Pharmacy Education and Community Expectations" April, 24th and 25th, 2013.

Workshops and Trainings:

1. **“Scientific Writing and International Publication”** held by Faculty and Leadership Development Center (FLDC), Helwan University and Egyptian Chinese University 22nd & 23rd July 2025.
2. **“A training program about Anticorruption and Governance”** held by Egyptian Anti-Corruption Academy (EACA) on 29th, 30th May & 1st June 2023.
3. **“Introducing National and International research cooperation”** held by Technology Innovation Commercialization Office (TICO) and Egyptian Chinese University 8th November 2022.
4. **“Personal Branding course”** held by Technology Innovation Commercialization Office (TICO) and The Good Zone and Egyptian Chinese University 24th & 25th September 2022.
5. **“Modern teaching methods”** held by Faculty and Leadership Development Center (FLDC), Helwan University and Egyptian Chinese University 4th & 5th September 2022.
6. **“Description of Programs and Courses”** held by Training and Development Center (TDC), Egyptian Chinese University 21st – 22nd September 2021.
7. **“Academic Research Ethics”** held by Training and Development Center (TDC), Egyptian Chinese University 17th - 18th February 2021.
8. **“Nature Research Academies workshop Effective Academic Writing”** held by Nature Research Academies in collaboration Egyptian Knowledge Bank, on 8th February 2021.
9. **“Strategic planning”** held by Training and Development Center (TDC), Egyptian Chinese University 8th November 2020.
10. **“Learning management system”** held by Training and Development Center (TDC), Egyptian Chinese University 1st October 2020.
11. **“Credit hour system objectives of interviews”** held by Training and Development Center (TDC), Egyptian Chinese University 29th – 30th September 2020.
12. **“Quality assurance system in higher education institutions academic advising system”** held by Training and Development Center (TDC), Egyptian Chinese University 27th – 28th September 2020.
13. **“Towards a successful pharmaceutical development of generic drug products: From the action letter to NODCAR approval”** held by Drug Manufacturing Unit, Faculty of Pharmacy - Cairo University, Egypt on 26th December 2015.
14. **“Regulatory and technical aspects for successful comparative in vitro dissolution study”** held by Center of Applied Research and Advanced Studies CARAS, Faculty of Pharmacy – Cairo University, Egypt on 13th October 2015.

- 15.**Organized the workshop “**Laboratory Quality Management Systems**” held by Biotechnology Centre, Faculty of Pharmacy - Cairo University, Egypt on 22nd -24th February 2014.
- 16.**Organized and taught the workshop “**Advanced Pharmaceutical Analysis**” held by Biotechnology Centre, Faculty of Pharmacy - Cairo University, Egypt on 25th -27th June 2013.
- 17.** “**Advanced Pharmaceutical Analysis**” held by Biotechnology Centre, Faculty of Pharmacy - Cairo University, Egypt on 14th -22th April 2012.
- 18.** “**New Trends in Biotechnology**” held by Biotechnology Centre, Faculty of Pharmacy - Cairo University, Egypt on 22nd -23th November 2010.

Journal Peer-reviewing

- Microchemical Journal (Elsevier)
- Chemical Papers (Springer)
- ACS Food Science & Technology (American Chemical Society ACS Publications).
- Discover Chemistry (Springer Nature)

Research interests:

- Strong hand in different extraction techniques for nutraceuticals including liquid – liquid extraction, dispersive liquid-liquid microextraction, QuEChERS, solid phase extraction and others.
- Strong hand in using different analytical devices like spectrophotometer, high performance liquid chromatography, thin layer chromatography and familiar with tandem mass spectrometry.
- Strong hand in different extraction and preparation techniques for plasma samples for bioequivalence studies.
- Strong hand in stability studies.

References: All references are available whenever required.