



## **Heba-Alla Hussein Abd-ElSalam Mahmoud**

**Address:** Fifth Settlement, Cairo, Egypt.

**Nationality:** Egyptian.

**Academic degree:** Lecturer of Pharmaceutical Analytical Chemistry.

**Department:** Pharmaceutical Chemistry.

**E-mail address:** [hebahussein19051983@gmail.com](mailto:hebahussein19051983@gmail.com), [hhusein@ecu.edu.eg](mailto:hhusein@ecu.edu.eg)

**Google Scholar:** <https://scholar.google.com/citations?user=1jm9hNQAAAAJ&hl=en>

**Orchid ID:** <https://orcid.org/0000-0001-8663-5362>

**Scopus ID:** <https://www.scopus.com/authid/detail.uri?authorId=56047391100>

### **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. 27<sup>th</sup> April 2022 till now:** Lecturer at Pharmaceutical Chemistry Department, Faculty of Pharmacy and Drug Technology, Egyptian Chinese University.

2. **1<sup>st</sup> September 2020 - 27<sup>th</sup> 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).
- 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 Faculty Activities:**

- 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. **“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.
2. **“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.
3. **“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.
4. **“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.
5. **“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.
6. **“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.

7. **"On-column Decaffeination and SPE of Epigallocatechin gallate from Green Tea Nutraceuticals"** Heba –Alla Hussein Abd- El Salam Mahmoud, 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.
8. **"Stability of Catechins in Green Tea Nutraceutical products: Application of Solid Phase Extraction - Thin Layer Chromatography Densitometry"** Heba –Alla Hussein Abd- El Salam Mahmoud, 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 8<sup>th</sup> Annual Arab International Pharmacy Conference (AIPC 2024), April 20<sup>th</sup> & 21<sup>st</sup>, 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 11<sup>th</sup> International Scientific Conference of Faculty of Pharmacy, Cairo University "Authenticity for Excellence in Pharmacy; Egypt healthcare vision 2030", 14<sup>th</sup> & 15<sup>th</sup> 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 11<sup>th</sup> International Scientific Conference of Faculty of Pharmacy, Cairo University "Authenticity for Excellence in Pharmacy; Egypt healthcare vision 2030", 14<sup>th</sup> & 15<sup>th</sup> 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 11<sup>th</sup> International Scientific Conference of Faculty of Pharmacy, Cairo University "Authenticity for Excellence in Pharmacy; Egypt healthcare vision 2030", 14<sup>th</sup> & 15<sup>th</sup> 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), 10<sup>th</sup> – 12<sup>th</sup> 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 5<sup>th</sup> annual Innovative Insights on Hospital Pharmacy Practice (IHOP22) conference (Ministry of Health Saudi Arabia), 26<sup>th</sup> - 28<sup>th</sup>, 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 3<sup>rd</sup> FUE International Conference of Pharmaceutical Sciences (3<sup>rd</sup> FUE-ICPS) February 9<sup>th</sup> - 11<sup>th</sup>, 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 4<sup>th</sup> International Scientific Conference of Faculty of Pharmacy, Cairo University "Pharmacy Education and Community Expectations" April, 24<sup>th</sup> and 25<sup>th</sup>, 2013.

### **Workshops and Trainings:**

1. **“A training program about Anticorruption and Governance”** held by Egyptian Anti-Corruption Academy (EACA) on 29<sup>th</sup>, 30<sup>th</sup> May & 1<sup>st</sup> June 2023.
2. **“Introducing National and International research cooperation”** held by Technology Innovation Commercialization Office (TICO) and Egyptian Chinese University 8<sup>th</sup> November 2022.
3. **“Personal Branding course”** held by Technology Innovation Commercialization Office (TICO) and The Good Zone and Egyptian Chinese University 24<sup>th</sup> & 25<sup>th</sup> September 2022.
4. **“Modern teaching methods”** held by Faculty and Leadership Development Center (FLDC), Helwan University and Egyptian Chinese University 4<sup>th</sup> & 5<sup>th</sup> September 2022.
5. **“Description of Programs and Courses”** held by Training and Development Center (TDC), Egyptian Chinese University 21<sup>st</sup> – 22<sup>nd</sup> September 2021.
6. **“Academic Research Ethics”** held by Training and Development Center (TDC), Egyptian Chinese University 17<sup>th</sup> - 18<sup>th</sup> February 2021.
7. **“Nature Research Academies workshop Effective Academic Writing”** held by Nature Research Academies in collaboration Egyptian Knowledge Bank, on 8<sup>th</sup> February 2021.
8. **“Strategic planning”** held by Training and Development Center (TDC), Egyptian Chinese University 8<sup>th</sup> November 2020.
9. **“Learning management system”** held by Training and Development Center (TDC), Egyptian Chinese University 1<sup>st</sup> October 2020.

10. **“Credit hour system objectives of interviews”** held by Training and Development Center (TDC), Egyptian Chinese University 29<sup>th</sup> – 30<sup>th</sup> September 2020.
11. **“Quality assurance system in higher education institutions academic advising system”** held by Training and Development Center (TDC), Egyptian Chinese University 27<sup>th</sup> – 28<sup>th</sup> September 2020.
12. **“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 26<sup>th</sup> December 2015.
13. **“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 13<sup>th</sup> October 2015.
14. Organized the workshop **“Laboratory Quality Management Systems”** held by Biotechnology Centre, Faculty of Pharmacy - Cairo University, Egypt on 22<sup>nd</sup> -24<sup>th</sup> February 2014.
15. Organized and taught the workshop **“Advanced Pharmaceutical Analysis”** held by Biotechnology Centre, Faculty of Pharmacy - Cairo University, Egypt on 25<sup>th</sup> -27<sup>th</sup> June 2013.
16. **“Advanced Pharmaceutical Analysis”** held by Biotechnology Centre, Faculty of Pharmacy - Cairo University, Egypt on 14<sup>th</sup> -22<sup>th</sup> April 2012.
17. **“New Trends in Biotechnology”** held by Biotechnology Centre, Faculty of Pharmacy - Cairo University, Egypt on 22<sup>nd</sup> -23<sup>th</sup> November 2010.

### **Journal Peer-reviewing**

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

### **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.