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Eman Mohamed Morgan

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Academic Employment:

- February 2024: **Lecturer of Analytical Chemistry** in Pharmaceutical Chemistry Department at Future University in Egypt (FUE).
- November 2018 - November 2023: **Lecturer Assistant of Analytical Chemistry** in Pharmaceutical Chemistry Department at Faculty of pharmacy - Future University in Egypt (FUE).
- April 2012 – July 2018: **Teaching Assistant** in Pharmaceutical Chemistry Department (Analytical Chemistry Sector) at Faculty of pharmacy - Future University in Egypt (FUE) that is ranked from top private universities in Egypt.
- August 2011: Working as a Community Pharmacist at El-Ezaby Pharmacy, El-Mokattam.

Academic and professional profile:

- Over 10 years of teaching experience (since 2012) in analytical chemistry across all levels for undergraduate pharmacy students.
- Demonstrated leadership and teamwork capabilities, supported by strong presentation and communication skills.
- Author of multiple international peer-reviewed publications in pharmaceutical drug analysis, with emphasis on Green Analytical Chemistry (GAC) and White Analytical Chemistry (WAC) applications.
- Expert in the application of analytical techniques, including UV–Vis spectrophotometry, colorimetry, chromatography (TLC, HPLC, UPLC), and electrochemical methods, particularly ion-selective electrodes.
- Active incorporation of advanced environmental greenness assessment tools, including Eco-Scale, GAPI, AGREE, and D-CHEMS-1.
- Proficient in sustainability and blueness assessment tools, such as the RGB12 algorithm, GSST tool, hexagon tool, and BAGI.
- Active participant in many international scientific conferences in Egypt and London, contributing to enhanced scientific expertise and international research collaboration.
- Experienced peer reviewer for various international, peer-reviewed scientific journals.
- Significant involvement in quality assurance, accreditation, and reaccreditation processes at the Faculty of Pharmacy, Future University in Egypt (FUE).
- Authorized participant in accreditation activities under the National Authority for Quality Assurance and Accreditation of Education (NAQAAE).
- Serves as a Quality Assurance Coordinator and Chemistry Department representative at FUE.

List of Publications:

- June 2024 **Eman M. Morgan**, Shereen A. Boltia, Yasmin Mohammed Fayez, Reem H. Obaydo, M. Abdelkawy and Hayam Mahmoud Lotfy, ChlorTox scale assessment, greenness, and whiteness evaluation of selective spectrophotometric analysis of dimenhydrinate and cinnarizine, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 321 (2024) 124740, <https://doi.org/10.1016/j.saa.2024.124740>.
- May 2024 **Eman M. Morgan**, Shereen A. Boltia, Yasmin Mohammed Fayez, Reem H. Obaydo, M. Abdelkawy and Hayam Mahmoud Lotfy, Green Electrochemical Sensing: Novel Ion-Selective Electrode Method for Precise Determination of Dimenhydrinate and its Metabolite along with Cinnarizine in Pharmaceutical and Plasma Samples, 171 (2024) 057508, <https://doi.org/10.1149/1945-7111/ad4ba4>.
- December 2023: **Eman M. Morgan**, Shereen A. Boltia, Yasmin Mohammed Fayez, Reem H. Obaydo, M. Abdelkawy and Hayam Mahmoud Lotfy. Spectrophotometric Resolution Methods for Determination of Dimenhydrinate and Cinnarizine in Presence of their Toxic Impurities: Greenness, Environmental Sustainability and Blueness Assessment Tools. *Bulletin of Faculty of Pharmacy Cairo University*, (2023) 61: 57-71. <https://doi.org/10.54634/2090-9101.1042>.
- September 2023: **Eman M. Morgan**, Reem H. Obaydo, Shereen A. Boltia, Yasmin M. Fayez, M. Abdelkawy and Hayam Mahmoud Lotfy. Whiteness and greenness assessment with efficacy evaluation of two UPLC systems applied for the quantification of cinnarizine and dimenhydrinate along with their toxic impurities. *Sustainable Chemistry and Pharmacy* 36 (2023) 101225. <https://doi.org/10.1016/j.scp.2023.101225>
- May 2023: **Eman M. Morgan**, Shereen A. Boltia, Yasmin M. Fayez and M. Abdelkawy, Hayam Mahmoud Lotfy. Coupling of physical extraction and mathematical filtration in spectrophotometric analysis of natural therapy essential for prophylaxis and treatment of COVID-19 infection - Comparative study along with greenness evaluation. *Heliyon*, 9 (2023) e16284. <https://doi.org/10.1016/j.heliyon.2023.e16284>.
- December 2021: **Eman M. Morgan**, Hayam Mahmoud Lotfy, Yasmin Mohammed Fayez and M. Abdelkawy. Comparative Study of the Selectivity Power of Colorimetric Method over Chromatographic Methods for the Analysis of Valaciclovir Hydrochloride, *Journal of AOAC International*, 105:3, 717-726 (2022). doi.org/10.1093/jaoacint/qsab170
- August 2019: **Eman M. Morgan**, Hayam M. Lotfy, Yasmin Mohammed Fayez & M. Abdelkawy. Different Aspects in Manipulating Overlapped Spectra Used for the Analysis of Trimebutine Maleate and Structure Elucidation of its Degradation Products, *Future Journal of Pharmaceutical Sciences*, 5:7, 1-14 (2019) DOI:10.1186/s43094-019-0004-y .
- July 2019: **Eman M. Morgan**, Hayam M. Lotfy, Mohamed K. Abd El-Rahman, Yasmin Mohammed Fayez & M. Abdelkawy. Potentiometric Sensing of Valaciclovir Hydrochloride in the Presence of its Acid Induced Degradation Product with Real Time Acquisition of the Dissolution Profile from its Pharmaceutical Formulations, *Journal of the electrochemical society*, 166(10):B866-B872 (2019) DOI: 10.1149/2.0111912jes.
- October 2016: **Eman M. Morgan**, Hayam M. Lotfy, Yasmin Mohammed Fayez, Engy Shokry & M. Abdelkawy. Comparative Study of the Spectral Resolution Efficiency of the

Recently Developed and Conventional Spectrophotometric Methods in the Analysis of Severely Overlapped Zero-Order Absorption Spectra with the Same Geometrical Features, Analytical Chemistry Letters, 6:5, 540-560 (2016). DOI: 10.1080/22297928.2016.1232176

Conferences:

- Feb 2024 **Oral Presentation** in 6th FUE International Conference of Pharmaceutical Sciences entitled “Eco-Innovative Spectrophotometry: Aligning Drug Safety with Egypt’s Sustainable Development Goals”.
- May 2023 **Poster Presentation** in 11th International Scientific Conference of Faculty of Pharmacy, Cairo University entitled “Novel Spectrophotometric Analysis of a Challengeable Ternary Mixture Containing Structurally Related Phlebotonic Drugs in a Co-formulated Natural Therapy with Vitamin C”.
- May 2022 **Poster Presentation** in 36th International Scientific Conference of Pharmaceutical Sciences, Egyptian Pharmaceutical Society entitled “Development and Validation of a Fast and Effective RP-UPLC Method for the Simultaneous Determination of Cinnarizine and Dimenhydrinate in their Combined Dosage Form”.
- January 2019: **Poster Presentation** in 5th FUE International Conference of Pharmaceutical Sciences (5th FUE-ICPS) entitled “Development and Validation of Stability Indicating Chromatographic Methods for the determination of Trimebutine Maleate in the Presence of its Alkali Induced degradation Product”.
- April 2017: **Poster Presentation** in 8th International Scientific Conference of Faculty of Pharmacy – Cairo University entitled “Novel Ion Selective Electrode for the Determination of Valaciclovir in Presence of its Degradation Product with Real Time Acquisition of the Dissolution Profile from its Pharmaceutical Formulation”.
- February 2017: **Poster Presentations** in 4th FUE International Conference of Pharmaceutical Sciences (4th FUE-ICPS) entitled: “Validated Stability-Indicating Spectrophotometric Methods for the Determination of Trimebutine Maleate in the presence of its Alkali-Induced degradation Product” & “TLC-densitometric Method for the Simultaneous Determination of Valaciclovir and Aciclovir in the Presence of their Major Impurity Guanine. Application in Human plasma”.
- August 2016: **Poster Presentation** in 18th International Conference on Ethnopharmacology and Pharmaceutical Chemistry (18th ICEPC, London) entitled “Development and Validation of Selective Methods for Estimation of Valaciclovir in Pharmaceutical Dosage Form”.
- February 2015: **Poster Presentation** in 3rd FUE International Conference of Pharmaceutical Sciences (3rd FUE-ICPS) entitled “Stability – Indicating Methods for the Determination of Valaciclovir in the presence of its Acid- Induced Degradation Product”.

Certificates:

Elsevier reviewing recognition from Spectrochimica Acta Journal.
Springer Nature reviewing recognition from Scientific Reports journal
PhD in Analytical Chemistry from faculty of pharmacy – Cairo University.

MSc. in Analytical Chemistry from faculty of pharmacy – Cairo University.
Artificial Intelligence in Higher Education from DAAD kairo Akademie.
Ethical Guidelines for Publishing from faculty of pharmacy – Future University.
Fundamentals of Digital Transformation from Cairo University.
Understanding Medical Research from Coursera.
Proposal Writing for Master & PhD Candidates from DAAD kairo Akademie.
Leading Teams from DAAD kairo Akademie.
Digital Transformation in Higher Education from DAAD kairo Akademie.
Fundraising Skills and Best Practices from DAAD kairo Akademie.
International Publishing from DAAD kairo Akademie.
How to Present Scientific Papers from DAAD kairo Akademie.
English Conversation Course From Berlitz.
 Test of English as a Foreign Language “**TOEFL**”.
 International Computer Driving License “**ICDL**”
Institutional Self-Assessment Course for Institutions of Higher Education from National Authority for Quality Assurance of Education and Accreditation.
Industrial Pharmacy Course from Temple University School of Pharmacy in U.S.A.
Clinical Pharmacy Course from Temple University School of Pharmacy in U.S.A.
Biopharmaceutics Course from Temple University School of Pharmacy in U.S.A.
Drug Design Course from Temple University School of Pharmacy in U.S.A.

Workshops:

Artificial Intelligence on Green Chemistry and Green Hydrogen Revolution Workshop from SRG in Egypt.
Professional Ethics Workshop at the premises of Future University in Egypt.
Rights of Intellectual Properties Workshop at the premises of Future University in Egypt.
Presentation Skills Workshop from LOGIC Management Consulting.
Interviewing Skills Workshop from SERVIER.
Communication Skills Workshop from ROCHE.
Community Pharmacy Workshop from EL EZABY Pharmacy.

Education:

December 2023: **PhD degree in Analytical Chemistry** – Faculty of Pharmacy - Cairo University. Thesis entitled “Analytical Study on some Drugs used for Treatment of Circulatory Disorders”.
 July 2018: **MSc. degree in Analytical Chemistry** – Faculty of Pharmacy - Cairo University. Thesis entitled “Analytical Study of some Drugs Containing Carboxylic Acid Derivatives”.
 June 2011: **BSc. in Pharmaceutical Sciences and Pharmaceutical Industries** - Faculty of Pharmacy - Future University in Egypt (FUE) being from first 10 students every year with CGPA **3.97/4 (Excellent with Honor)**.

Referees:

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