

Dr. Aya Moneer Mostafa Mohamed

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[ORCID](#) | [Web of Science](#) | [LinkedIn](#)

Profile

I am a highly motivated and adaptable researcher with a strong background in analytical chemistry, specializing in molecularly imprinted polymers (MIPs) and advanced analytical method development. Experienced in independently designing and executing complex research projects, from conceptualization to publication, with a proven track record of innovation in sample extraction, biomarker analysis, environmental analysis, and nanoparticle integration. Skilled in learning new techniques rapidly, I am eager to contribute my expertise to interdisciplinary postdoctoral projects, while expanding my research into emerging areas such as electrochemical sensing and advanced material applications. Committed, collaborative, and driven to advance scientific knowledge with tangible real-world impact.

Education

PhD in Analytical Chemistry (Dec. 2024)

HSSCE, Kingston University, London, UK.

MRes in Pharmaceutical Sciences: Pharmaceutical Analytical Chemistry (Dec. 2018)

Faculty of Pharmacy, Assiut University, Assiut, Egypt.

BSc in Pharmacy and Pharmaceutical Sciences (Hons.) (Sept. 2013)

Faculty of Pharmacy, Assiut University, Assiut, Egypt.

Professional Experience

Lecturer of Analytical Chemistry

Assiut University, Assiut, Egypt | Mar 2025 – Present

Lecturer of Pharmaceutics (HPL)

Kingston University, London, UK | Jan 2024 – Mar 2024

Teaching Assistant

Kingston University, London, UK | Mar 2022 – Mar 2025

Technical Advisor (Analytical Chemistry Labs)

Kingston University, London, UK | Jun 2022 – Oct 2022

Associate Lecturer

Pharmaceutical Analytical Chemistry Dept., Assiut University, Egypt | Jan 2019 – Feb 2025

Lab & Class Demonstrator

Pharmaceutical Analytical Chemistry Dept., Assiut University, Egypt | Dec 2013 – Jan 2019

Skills

- **Analytical Techniques:** HPLC, LC-MS, GC-MS, HPTLC, SPE, Spectrofluorimetry, UV-Vis Spectroscopy, electrochemistry, FT-IR, DSC, TGA, ICP-OES, DLS.
 - **Method Development:** Extensive experience in designing and optimising analytical methods for analytes of interest.
 - **Forensic Analysis:** Development of analytical methods for collection, detection and analysis of forensic samples.
 - **Scientific Writing:** Proficient in writing and disseminating research findings and data into a publication format.
 - **Supervision & Mentorship:** Successful supervision of a number of undergraduate and postgraduate students.
 - **Grant Writing & Research Funding:** Successful proposal writing and application to grant systems.
 - **Interdisciplinary cooperation:** Successful establishment of interdisciplinary cooperation with other universities and fields.
 - **Languages:** Fluent in Arabic and English (TOEFL score: 106, IELTS score: 7.5).
 - **Communication:** Excellent verbal and written skills developed through teaching, research presentations, and report writing.
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Key Publications

- 1- **A.M. Mostafa**, S.J. Barton, S.P. Wren, J. Barker, *Talanta Open*, 10 (2024), 100351.
- 2- **A.M. Mostafa**, S.J. Barton, S.P. Wren, J. Barker, *Biosensors*, 14 (2024), 151.
- 3- **A.M. Mostafa**, S.J. Barton, S.P. Wren, J. Barker, *Polymer*, 261 (2022), 125417.
- 4- **A.M. Mostafa**, S.J. Barton, S.P. Wren, J. Barker, *TrAC Trends Anal. Chem.*, 144 (2021), 116431.
- 5- F.A. Mohamed, M.F.B. Ali, A.H. Rageh, **A.M. Mostafa**, *Biomed. Chromatogr.*, (2019), 4554.
- 6- F.A. Mohamed, M.F.B. Ali, A.H. Rageh, **A.M. Mostafa**, *Microchem. J.*, 146 (2019), 414-422.
- 7- **A.M. Mostafa**, A.H. Rageh, M.F.B. Ali, F.A. Mohamed, *Spectrochim. Acta A Mol. Biomol. Spectrosc.*, 207 (2019), 251-261.
- 8- F.A. Mohamed, M.F. Bakr, A.H. Rageh, **A.M. Mostafa**, *J. Liq. Chromatogr. Relat. Technol.*, 39 (2017), 783-798.

For the full list please refer to my ORCID

Certifications & Courses

- **Measurement and Evaluation Methods in Higher Education**, Mar 2025.
- **Associate Fellow of the Higher Education Academy (AFHEA)**, July 2023.
- **Introduction to LC-MS**, Phenomenex, Mar 2023.

- **Cyber Security**, Kingston University, Dec 2024.
- **Research Ethics in Practice**, Kingston University, Jan 2021.
- **Ethical research**, Kingston University, Jan 2021
- **Preparation of an excellent educator**, Assiut University, Mar 2020.

Awards & Achievements

- **Best Oral Presentation Award**: PGR conference, Kingston university, UK, June 2024.
- **Best Poster Award**: Global Conference on Polymers, Plastics, and Composites, Barcelona, Sep 2023.
- **Newton Mosharafa PhD Scholarship**, The British Council & Egyptian Ministry of Higher Education, Sep 2020.

Conferences & Presentations

Presenter: Poster on "Comparing the performance of two different fluorescent dyes in the development of fluorescent molecularly imprinted polymers for pepsin enzyme" [JPAG Pharmaceutical Analysis Research Awards and Careers Symposium 2024, Royal society of chemistry, UK], November 2024.

Presenter: Oral talk on "Development of Eco-Friendly Molecularly Imprinted Polymers Using Deep Eutectic Solvents for Selective Extraction and HPLC Analysis of Pepsin: Towards a Biosensor for GERD Biomarker Detection" [11th international workshop on Biosensors, Marrakech, Morocco], October 2024.

Presenter: Oral talk on "Development of magnetic MIPs for the extraction and detection of pepsin enzyme prior to HPLC analysis" [PGR conference, Kingston, UK], June 2024.

Presenter: Oral talk on "Development of magnetic MIPs for the extraction and enrichment of pepsin enzyme prior to HPLC analysis" [AnalytiX 2024, Nagoya, Japan], April 2024.

Presenter: Poster on "Comparing the performance of two different fluorescent dyes in the development of fluorescent molecularly imprinted polymers for pepsin enzyme" [3rd Global Conference on Polymers, Plastics and Composites (PPC), Barcelona, Spain], September 2023.

Presenter: Poster on "The integration between highly fluorescent novel carbon dots and molecular imprinting technology for the sensitive detection and quantitation of pepsin enzyme" [John Fossey Symposium, Birmingham university, UK], February 2023.

Presenter: Poster on "A validated RP-UPLC method for determination of levetiracetam and lacosamide in bulk and spiked human urine" [Eleventh Assiut university International Pharmaceutical Sciences conference, Assiut, Egypt], April, 2018.
