

Adel Magdy Awad Michael

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Education and Qualifications:

- ✚ Visiting Fellowship, **School of Science and Health, University of Western Sydney; Australia, 2017.**
- ✚ Ph.D in Analytical Chemistry, **Faculty of Pharmacy, Cairo University; Egypt, 2013.**
- ✚ An Internship, **Faculty of Pharmacy and Pharmaceutical Science, University of Alberta; Canada, 2011.**
- ✚ M.Sc in Analytical Chemistry, **Faculty of Pharmacy, Cairo University; Egypt, 2010.**
- ✚ B. Pharm. Sci (Excellent with Honors), **Ain Shams University; Egypt, 2003.**

Work Experience:

- ✚ **April 2022 till now:** Director of Quality Assurance Unit - Faculty of Pharmacy, Ahrm Canadian University (ACU), Egypt.
- ✚ **December 2020 – September 2021:** Director of Quality Assurance Center - Ahrm Canadian University, Egypt.
- ✚ **June 2018 till now:** Associate Professor of Analytical Chemistry - Faculty of Pharmacy, ACU.
- ✚ **February 2013 - June 2018:** Lecturer of Analytical Chemistry - Faculty of Pharmacy, ACU.
- ✚ **April, 2010 – February, 2013:** Assistant Lecturer of Analytical Chemistry - Faculty of Pharmacy, ACU.
- ✚ **September 2005 – April 2010:** Teaching Assistant of Analytical Chemistry - Faculty of Pharmacy, ACU.

Responsibilities and Activities

A- Research:

✚ **Research interests:**

- 1- Pharmaceutical analysis of medicines and natural products using spectrophotometry, chemometrics, ion selective electrodes and chromatography (LC/MS, UPLC, SFC and HPTLC) with applications on biological fluids and food safety.
- 2- Analysis of trace elements using Inductively Coupled Plasma (ICP).
- 3- Study of protein interactions with nanoparticles and drug molecules.

✚ **Selected Publications:**

1. Nesma M. Fahmy, Hind A. Abdullatif, Adel M. Michael, Miriam F. Ayad and Yossra A. Trabik, Smart Eco-Friendly Spectrophotometric Methods Resolving Highly Overlapping Spectra: Application to Veterinary Antibiotic Injections, **Journal of AOAC Int.**, 105 (5), 1234–1246, (2022).

2. Hany H. Monir, Yasmin M. Fayez, Christine K. Nessim and Adel M. Michael, When is it safe to eat different broiler chicken tissues after administration of doxycycline and tylosin mixture?, **Journal of Food Science**, 86(3), 1162-1171, (2021).
3. Adel M. Michael, Ahmed A. Mohamed, Yousef A. Abdelaziz, and Nesma M. Fahmy, A Comparative Study between Conventional ICP-OES and The Innovative PLS Model-Assisted ICP-OES for The Assay of Trace Elements, **Journal of AOAC**, 104(1), 84–90, (2021).
4. Hayam M. Lotfy, Hany H. Monir, Yasmin M. Fayez, Adel M. Michael and Christine K. Nessim, Paired Wavelength Relevance as Spectrophotometric Strategy for Evaluation the Potency of Medicine Affecting Human Health, **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy**, 239, (2020).
5. Adel M. Michael, The first validated HPLC method for separation and quantification of imiprothrin and deltamethrin in insecticide spray formulation, **International Journal of Environmental Analytical Chemistry**, 99, 928-935, (2019).
6. Adel M. Michael and Andrew R. Shalliker, Pentafluorophenyl bonded phase separation: the assay of Australian antioxidant formulation of ascorbic acid, rutin and hesperidin, **Analytical Methods**, 9 (31), 4514-4519, (2017).
7. Adel M. Michael and Mohamed N. Malash, A validated assay of urease enzyme in different sources using silver nanoparticles, **Food Analytical Methods**, 8, 2482–86, (2015).
8. Adel M. Michael, Hayam M. Lotfy, Mamdouh R. Reda, Karim Michail, Vishwa Somayaji, Arno Siraki, Ayman El-Kadi and Mostafa A. Shehata; Simultaneous determination of sumatriptan and naproxen in dosage forms and human plasma using LC/MS, **Current Analytical Chemistry**, 8, 512-19, (2012).
9. Mamdouh R. Rezk, Adel M. Michael, Hayam M. Lotfy and Mostafa A. Shehata; Validation of selective electrochemical method for determination of sumatriptan in combined dosage form, **Analytical and Bioanalytical Electrochemistry**, 4(6), 553-63, (2012).

B- Teaching:

- ✚ Teaching of different department courses like: Analytical Chemistry-1, Analytical Chemistry-2, Instrumental Analysis, GLP & GMP, Drug Quality Control and Food & Cosmetics Analysis.
- ✚ The effective teaching and learning strategies are problem-based learning, blended learning, self-learning, field visits and brainstorming.

C- Quality Assurance:

- ✚ External Auditor at **National Authority for Quality Assurance and Accreditation of Education (NAQAAE), Egypt.**
- ✚ Managing the quality assurance and accreditation arrangements, ensuring that policies are in accordance with the national expectations.
- ✚ Developing an appraisal system for all members.

- ✚ Preparation of the Faculty strategic plan.
- ✚ Leading the internal reviews in the coordination of external reviews.
- ✚ Providing support for the design and development of new programs.
- ✚ Maintaining guidance relating to academic quality and standards.
- ✚ Providing training to enhance performance.
- ✚ Distribution and analysis of surveys and taking the necessary corrective actions.

D- Community Service:

- ✚ Presenting seminars and training programs for partners in the pharmaceutical industry.
- ✚ Organizing/ participation in international conferences.
- ✚ Providing technical support for ACU faculties.
- ✚ Undergoing research in order to solve environmental and community problems.

Grants:

A research project was funded in 2019 by Nerhadou which is one of the leading pharmaceutical corporates in Egypt.

Skills:

✚ Personal skills:

Working effectively in a team - time management - communication skills

✚ Language skills:

Overall “Proficient Plus” in Pearson Test of English - Academic (PTE)

Selected training programs:

- ✚ Agile Project Management: Charles Sturt University, Australia.
- ✚ Training of trainers (TOT): Canadian Center for Human Development, Egypt.
- ✚ Strategic planning - Students assessment – Program Specification – Teaching and learning strategies: National Authority for Quality Assurance and Accreditation of Education, Egypt.
- ✚ Comparative glycomics using LC/MS/MS: Ahram Canadian University, Egypt.
- ✚ Leadership skills – Digital transformation: Cairo University, Egypt.
- ✚ Blended learning - Managing institutional change: American University in Cairo, Egypt.