

Ahmed Hafez Nagib

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Department: Analytical chemistry

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Qualifications

Ph.D. (Analytical Chemistry), Faculty of pharmacy, Cairo University - **May 2019**

Topic: Biopharmaceuticals & Biologicals

Title: *Downstream purification and analysis of some biological products*

Supported by the Science and Technology Development Fund (STDF), Ministry of Scientific Research, Egypt (ID 5875)

MSc.Pharm.Sci (Analytical Chemistry), Faculty of pharmacy, Cairo University – **Feb. 2016**

Topic: Pharmaceutical wastewater treatment

Title: *Analytical applications of nanotechnology in pharmaceutical industry*

B.Pharm.Sci., Faculty of pharmacy, Cairo University – **May 2010**

Academic and Professional Work profile

Lecturer, Analytical Chemistry, Faculty of Pharmacy, Cairo University, **2019 – until now**

A/Lecturer, Analytical Chemistry, Faculty of Pharmacy, Cairo University, **2016 - 2019**

Demonstrator, Analytical chemistry, Faculty of Pharmacy, Cairo University, **2011 – 2016**

Research interest

Biopharmaceuticals & Biologicals

Quality Control of biopharmaceuticals is challenging in nature since they have been produced in heterogenous systems. Orthogonal testing protocols are required to cover the quality attributes of these products. Downstream purification of biological product refers to the recovery and purification of biosynthetic products from natural sources. It aims to obtain a clarified extract of the source material. Main techniques involved are *chromatography, capillary electrophoresis (CE), electrochemistry and immuno-analytical techniques*.

Environmental analysis

There has been an increasing concern about the occurrence, fate, and adverse effects of pharmaceutical residues in the aquatic environment. Conventional wastewater treatment processes are not designed to quantitatively remove such pollutants. Our research is focused on the use of nanoparticles, both commercially available and synthesized in the photocatalytic treatment of wastewater. Main techniques involved are *chromatography, capillary electrophoresis (CE) and spectroscopy*.

Publications and Conferences

1. Medhat A. Al-Ghobashy, **Ahmed H. Nadim**, Ghada M. El-Sayed, Marianne Nebsen, Label-Free Potentiometric Ion Flux Immunosensor for Determination of Recombinant Human Myelin Basic Protein: Application to Downstream Purification from Transgenic Milk. ACS Sensors, 4(2), **2019**, 413-420, DOI 10.1021/acssensors.8b01315.
2. **Ahmed H. Nadim**, Medhat A. Al-Ghobashy, Marianne Nebsen, Mostafa A. Shehata. Gallic acid magnetic nanoparticles for photocatalytic degradation of meloxicam: synthesis, characterization and application to pharmaceutical wastewater treatment. RSC adv. **2016**; 5, 104981-104990, DOI: 10.1039/C5RA20281G
3. **Ahmed H. Nadim**, Medhat A. Al-Ghobashy, Marianne Nebsen, Mostafa A. Shehata. Optimization of photocatalytic degradation of meloxicam using titanium dioxide nanoparticles: application to pharmaceutical wastewater analysis, treatment, and cleaning validation. Environ. Sci. Pollut. Res. **2015**; 22(20). DOI: 10.1007/s11356-015-4713-2
4. Photocatalytic degradation of meloxicam using titanium dioxide nanoparticles for pharmaceutical wastewater treatment, 4th international scientific conference of Faculty of Pharmacy, Cairo University, **Poster presentation, 2013**

Workshops, Seminars and training courses

- Analytical Toxicology - practical aspects, Trainer, IT-Based International Diploma and Professional Certificate in Clinical Toxicology-ITCT, Co-funded by Erasmus+ program of the European Union, Mar 2019
- Total Quality Management in Healthcare, FLDC, Cairo University Aug 2018

- Data Integrity in Pharmaceutical Analysis, Newgiza University, Mar 2018
- Quality Control of biopharmaceuticals and bio-similarity assessment, CARAS, Faculty of Pharmacy, Cairo University, Feb 2018
- Conference Organization, FLDC, Cairo University Dec 2015
- International Publishing of Scientific research, FLDC, Cairo University Aug 2015
- Effective Teaching Skills, FLDC, Cairo University Jan 2015
- Advanced Pharmaceutical Analysis, BTC, Faculty of Pharmacy, Cairo University, Apr 2012
- Creative Thinking, FLDC, Cairo University Dec 2014
- How to Compete for a Research Fund, FLDC, Cairo University Sep 2011
- Strategic Planning, FLDC, Cairo University Jun 2011