

Mohammad Nabil Abo-Zeid, BPharm, MSc, MRSC, AFHEA

📍 Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Assiut University, 71526 Assiut, Egypt

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Google
Scholar



EDUCATION

Sep 2020 – Present

PhD in Chemistry

Faculty of Science and Engineering, University of Hull, Hull HU6 7RX, UK

Sep 2014 – Oct 2018

Master Degree in Pharmaceutical Analytical Chemistry

Faculty of Pharmacy, Assiut University, 71526 Assiut, Egypt

Thesis title: "Analysis of Some Hepatitis C Antiviral and Antidiabetic Drugs in Pharmaceutical Preparations and Biological Fluids"

Sep 2008 – Jul 2013

Bachelor Degree in Pharmaceutical Sciences

**First-Class Honours,
~90%, Top 1%**

Faculty of Pharmacy, Assiut University, 71526 Assiut, Egypt

WORK EXPERIENCE

Oct 2018 – Present

Assistant Lecturer

Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Assiut University, 71526 Assiut, Egypt

Dec 2013 – Oct 2018

Teaching Assistant

Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Assiut University, 71526 Assiut, Egypt

Languages

Mother tongue(s)

Arabic (native)

Foreign language(s)

English (full professional proficiency).

Scholarships & Awards

2020

Fully funded Newton-Mosharafa PhD scholarship for 4 years

2018

Five scientific publication awards from Assiut University

Societies

& Memberships

Jul 2024

Associate Fellow (AFHEA) of the British Higher Education Academy (Advance HE)

Feb 2021

Member of The Royal Society of Chemistry (MRSC)

Dec 2013

Member of Sohag and Egyptian Pharmaceutical Syndicate

Publications

1. Ahmed El-Kardocy, Yaser A. Mostafa, Noha G. Mohamed, **Mohammad Nabil Abo-Zeid**, Nivin A. Hassan, Helal F. Hetta, Abu-Baker M. Abdel-Aal, CK2 inhibition, lipophilicity and anticancer activity of new N1 versus N2-substituted tetrabromobenzotriazole

regioisomers, *New Journal of Chemistry*, 2020, **44**, 13007–13017.

2. **Mohammad Nabil Abo-Zeid**, Noha N. Atia, Samia M. El-Gizawy, Salwa R. El-Shaboury, Ultrasensitive spectrofluorimetric method for rapid determination of daclatasvir and ledipasvir in human plasma and pharmaceutical formulations, *Journal of Pharmaceutical and Biomedical Analysis*, 2018, **152**, 155–164.
3. **Mohammad Nabil Abo-Zeid**, Samia M. El-Gizawy, Noha N. Atia, Salwa R. El-Shaboury, Efficient HPTLC-dual wavelength spectrodensitometric method for simultaneous determination of sofosbuvir and daclatasvir: Biological and pharmaceutical analysis, *Journal of Pharmaceutical and Biomedical Analysis*, 2018, **156**, 358–365.
4. Salwa R. El-Shaboury, Samia M. El-Gizawy, Noha N. Atia, **Mohammad Nabil Abo-Zeid**, Validated Spectrodensitometric Method for Simultaneous Estimation of Sofosbuvir, Ribavirin and Saxagliptin in their Pure and Pharmaceutical Dosage Forms, *Current Pharmaceutical Analysis*, 2018, **14**, 212- 218.
5. Samia M. El-Gizawy, Salwa R. El-Shaboury, Noha N. Atia, **Mohammad Nabil Abo-Zeid**, New, simple and sensitive HPTLC method for simultaneous determination of anti-hepatitis C sofosbuvir and ledipasvir in rabbit plasma, *Journal of Chromatography B*, 2018, **1092**, 432-439.
6. Noha N. Atia, Salwa R. El-Shaboury, Samia M. El-Gizawy, **Mohammad Nabil Abo-Zeid**, Simultaneous quantitation of two direct acting hepatitis C antivirals (sofosbuvir and daclatasvir) by an HPLC-UV method designated for their pharmacokinetic study in rabbits, *Journal of Pharmaceutical and Biomedical Analysis*, 2018, **158**, 88–93.

Conference Posters

1. Abu-Baker M. Abdel-Aal, Noha G. Mohamed, Ahmed El-Kardocy, **Mohammad Nabil Abo-Zeid** “Synthesis, molecular docking and lipophilicity estimation of novel antiproliferative polyhalogenated benzotriazoles as casein kinase inhibitors” was presented as a poster at *EFMC International Symposium on Medicinal Chemistry (EFMC-ISMC) and EFMC Young Medicinal Chemists' Symposium (EFMC-YMCS) Virtual Poster Session*, September 9th, 2020, European Federation for Medicinal Chemistry Young Scientists Network (EFMC-YSN).
2. Salwa R. El-Shaboury, Samia M. El-Gizawy, Noha N. Atia, **Mohammad Nabil Abo-Zeid** “Validated spectrodensitometric method for determination of sofosbuvir, ribavirin and saxagliptin in their pure and pharmaceutical dosage forms” was presented as a poster at *Assiut University 10th International Pharmaceutical Sciences Conference*, April 13th & 14th, 2016, Faculty of Pharmacy, Assiut University, Assiut, Egypt.
3. Salwa R. El-Shaboury, Samia M. El-Gizawy, Noha N. Atia, **Mohammad Nabil Abo-Zeid** “Simultaneous quantitation of direct acting hepatitis c antiviral binary mixture via efficient HPLC-dual wavelength detection method” was presented as a poster at *Assiut University 11th International Pharmaceutical Sciences Conference*, April 11th & 12th, 2018, Faculty of Pharmacy, Assiut University, Assiut, Egypt.

Research Interests

- Molecular diagnostics and isothermal amplification techniques for virus detection
- Microfluidics and lab-on-a-chip technology for health care applications
- Chemical sensors and biosensors for Point-Of-Care testing
- Colorimetric and electrochemical immunosensors for viral diagnostics
- Aptamers and molecularly imprinted polymers for molecular recognition and Clinical Applications

Research Experience

- Design, development, optimization and validation of different analytical methods for analysis of drugs in their pure and pharmaceutical dosage forms and in biological fluids

such as human and rabbit plasma.

- Study of the pharmacokinetics of drugs in human and animals.
- Design and development of various chromatographic techniques such as HPLC, TLC, HPTLC and spectrodensitometry with UV-visible or fluorescence detection.
- Spectroscopy techniques mainly spectrofluorimetry and spectrophotometry and chemical derivatization for spectrofluorimetric analysis.
- Electrochemical characterization and analysis utilizing cyclic voltammetry, square wave voltammetry, and differential pulse voltammetry for pharmaceutical and clinical applications.
- Lipophilicity estimation of chemical compounds and drugs.

Instrumental and Technical Skills

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- Shimadzu UV-1601 PC UV-visible spectrophotometer (Tokyo, Japan).
 - Shimadzu Spectrofluorophotometer RF-5301 PC (Tokyo, Japan).
 - Young Lin HPLC system (Young Lin, Korea) having UV-Vis and Fluorescence detector and operated with YoungLin Autochro-3000 software.
 - CAMAG-HPTLC system operated with winCATS version 1.4.10 software (MuttENZ, Switzerland).
 - Hitachi Scanning Electron Microscope TM-1000 (Tokyo, Japan).
 - Krüss Force Tensiometer K11 (Hamburg, Germany).
 - Krüss Drop Shape Analysis System DSA10 Mk2 (Hamburg, Germany).

References

1- Prof. Noha N. Atia

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