

Curriculum Vitae (CV)

Noha Morsy Ibrahim El Zahar, Ph.D

Lecturer

Pharmaceutical Analytical

Chemistry Department,

Faculty of Pharmacy,

Ain Shams University, Egypt.



CV of the Applicant

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Personal Data

Date of Birth	January 19 th 1988
Nationality	Egyptian
Marital Status	Single

Education

04/09/2018	Ph.D degree of Pharmaceutical Sciences (Pharmaceutical Analytical Chemistry). Faculty of Pharmacy, Ain Shams University, Cairo, Egypt
19/04/2016- 18/04/2018	Ph.D visiting student, Pharmaceutical and Biomedical Sciences. College of Pharmacy, University of Georgia, Athens, GA, USA
24/12/2014- 14/08/2018	Ph.D student, Pharmaceutical Sciences (Pharmaceutical Analytical Chemistry). Faculty of Pharmacy, Ain Shams University, Cairo, Egypt
26/10/2014	Master degree of Pharmaceutical Sciences (Pharmaceutical Analytical Chemistry). Faculty of Pharmacy, Ain Shams University, Cairo, Egypt
01/07/2011- 29/09/2014	Master student, Pharmaceutical Sciences (Pharmaceutical Analytical Chemistry). Faculty of Pharmacy, Ain Shams University, Cairo, Egypt
09/2005- 05/2010	Bachelor degree of Pharmaceutical Sciences. Faculty of Pharmacy, Ain Shams University, Cairo, Egypt Mention: Excellent with Honor and Rank: 9 th on my class
09/1992- 06/2005	Graduated from Notre Dame Des Apôtres. Zeitoun, Cairo, Egypt – French school Secondary Certificate: Thanaweya ama Degree: 98.5% and Rank: 2 nd on my class

Languages

Arabic	Native “Proficiency”
English	Very Good (TOEFEL.iBT (2015), TOEFEL.ITP (2014))
French	Very Good (Delf, A5 and A6 elementary diplomas in French (2004))

Skills

Computer	Windows, Microsoft office (word, power point, excel). Internet browsing and search.
Other skills	Can work either independently or in a team. Proactive & self-motivated. Good interpersonal & communication skills. Ability to work under stress.

Work Experience

Training

08/2008	The Nile Company for Pharmaceuticals and Chemical Industries, Cairo, Egypt
07/2008	The Egyptian Group for Pharmaceutical Industries “EGPI”, Cairo, Egypt
07/2007	The Research National Institute, Cairo, Egypt

Position

26/02/2024-present	Associate Professor in Pharmaceutical Analytical Chemistry Department Faculty of Pharmacy, Ain Shams University, Cairo, Egypt <ul style="list-style-type: none">▪ 01/10/2024-30/06/2025: Fulbright scholar in Chemistry Department College of Natural Sciences, The University of Texas at Austin, Austin, TX, USA▪ 01/07/2025-present: Remote Research Collaborator in Chemistry Department College of Natural Sciences, The University of Texas at Austin, Austin, TX, USA
28/10/2018-25/02/2024	Assistant Professor in Pharmaceutical Analytical Chemistry Department Faculty of Pharmacy, Ain Shams University, Cairo, Egypt <ul style="list-style-type: none">▪ 01/10/2020-30/09/2024: Assistant Prof. in Medicinal Chemistry Department (Deputation), Faculty of Pharmacy, King Salman International University, Ras-Sedr, Egypt.▪ 01/10/2019-31/01/2020: Part time-Lecturer in Analytical Chemistry Department, Faculty of Pharmacy, British University in Cairo, Egypt
29/12/2014-27/10/2018	Assistant Lecturer in Pharmaceutical Analytical Chemistry Department Faculty of Pharmacy, Ain Shams University, Cairo, Egypt
17/04/2011-28/12/2014	-Teaching Assistant in Pharmaceutical Analytical Chemistry Department Faculty of Pharmacy, Ain Shams University, Cairo, Egypt -Pharmacist in a local Pharmacy, Heliopolis, Cairo, Egypt

Teaching Experience

- Participated as a Demonstrator and Teaching Assistant for all the practical courses of Analytical and Physical chemistry for undergraduate students.
- Participated as an Assistant and an Associate Professor in teaching theoretical and supervising practical courses of Analytical and Physical chemistry for undergraduate students.
- These courses included: Pharmaceutical Analytical Chemistry I and II; Instrumental analysis; Inorganic & Physical Chemistry; Food & Cosmetics Analysis and Quality Control.

Laboratory Experience

- Development of HPLC and LC-MS/MS quantitative assays in different matrices and dosage forms.
- Spectroscopic determination of complex mixtures in different matrices and dosage forms.
- Electrochemical methods for assembly and construction of ion selective membrane sensors for analysis of compounds in different matrices and dosage forms.
- Development of different sample preparation including protein precipitation, liquid-liquid extraction and solid phase extraction.
- Development of bioanalytical method validated according to FDA Guidance for industry.

Peer Reviewer Experience

Participated in reviewing manuscripts for several journals including; Archives of Pharmaceutical Sciences Ain Shams University, AOAC, Biomedical Chromatography, Molecules, and Separations.

Workshops, Courses and Symposia

04/2025	RNA Mass Spectrometry Virtual 2-days Symposium featuring global experts in RNA mass spectrometry, sharing latest research and innovations in RNA modifications and sequencing.
03/2025	Bruker-sponsored Texas Area Mass Spectrometry Symposium at the University of Texas at Austin, Austin, Texas, USA
07/2024	AY2024-2025 Fulbright Egyptian Scholar Program Pre-Departure Orientation (PDO) sessions, Safir hotel, Cairo, Egypt
04/2024	“ChatGPT: Maximizing Research Creativity with AI Webinar”, Scientific Conference of the Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Ain Shams University
06/2023	Faculty and leadership Development Courses [E-Learning Using ASU2Learn (Advanced Level)/ Legal Aspects In University Business For Faculty Members], Training and Development Center, Ain Shams University, Cairo, Egypt

05/2023	Exploring The Power Of HPTLC Advancements And Applications, Peak Scientific Instrument, CAMAG and Nawah Scientific Companies
12/2021-02/2022	Faculty and leadership Development Courses [Constructive Assessment For Learning/Competitive Research Proposal/Collaborative Learning Strategies & Tools/Project Management], Training and Development Center, Ain Shams University, Cairo, Egypt
11/2021	“Metabolomics Gateway For Milestone Discoveries in the Prehistoric And Post Genomic Era” “On The Perspective Of Capillary Electrophoresis As An Alternative Separation Technique” Badr University in Cairo 1 st Conference of Pharmaceutical Sciences (BUCPS), Cairo, Egypt
06/2021	“Pharmacovigilance Awareness Webinar”, Boehringer Ingelheim.
10/2019	“Innovative Separation Strategies For Enhanced MS Analysis”, Agilent Technologies.
06/2019	“Proposal Writing For Postdocs”, DAAD Kairo Akademie at the premises of Scientific Research and Technology ASRT.
03-05/2019	“Microfabrication Electrochemical Perspectives” “Analytical Biotechnology: QC Of Biopharmaceuticals” Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Ain Shams University
11/2018	“Colorimetry: Application To Archeology And Cultural Heritage Documentation”, The 2 nd ICPASU International Conference of Faculty of Pharmacy, Ain Shams University, Cairo, Egypt
07-08/2018	Faculty and leadership Development Courses [Effective Use Of Egyptian Knowledge Bank (EKB)/Change Management/Using Technology In Teaching/Hunting A Scholarship/Problem Solving & Decision Making/Effective Teaching Tools], Training and Development Center, Ain Shams University, Cairo, Egypt
05/2015	Attend The 1 st Capillary Electrophoresis workshop organized by Unit of Drug Analysis and Pharmaceutical preparations in Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

Publications

Scopus *h*-index: 9

ORCID: 0000-0002-2397-3361

Web of Science ResearcherID: GLS-1102-2022

<https://www.webofscience.com/wos/author/record/GLS-1102-2022>

2023	“Greenness And Whiteness Evaluated Triple Divisor-Continuous Wavelet Transform Spectrophotometric And Advanced Chemometric Methods For The Simultaneous Determination Of Four Photoinitiators In Saliva And Intravenous Injection Solution”, M. Gamil, N.M. El Zahar , N. Magdy, A.M. El-Kosasy, Sustainable Chemistry and Pharmacy 36 (2023), 101284.
2022	“Simultaneous Quantification Of A Neoadjuvant Treatment Used In Locally Advanced Breast Cancer Using An Eco-Friendly UPLC-MS/MS Method: A Pharmacokinetic Study In Rat Plasma”, N.F. El Azab, FA Binjubair, S.T. AL-Rashood, S. Okeil, N.M. El Zahar , Separations 9 (2022), 403.
2022	“Development and Validation OF Molnupiravir Assessment In Bulk Powder And Pharmaceutical Formulation By The RP-HPLC-UV Method”, A.M. Annadi, N.M. El Zahar , N.E.A. Abdel-Sattar, E.H. Mohamed, S.A. Mahmoud, M.S. Attia, RSC advances 12 (2022), 34512-34519.
2022	“Green, Bioanalytically Validated Chromatographic Method For The Determination And Quantification Of Photoinitiators In Saliva In Contact With Baby Bibs, Teethers And Pacifiers”, M. Gamil, N.M. El Zahar , N. Magdy, A.M. El-Kosasy, Microchemical Journal 181 (2022), 107841.
2021	“Simultaneous Determination Of Avanafil And Dapoxetine In Human Plasma Using Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS) Based On A Protein Precipitation Technique”, M.N. Abou-Omar, A.M. Annadi, N.M. El Zahar , A.O. Youssef, M.A. Amin, M.S. Attia, E.H. Mohamed, RSC advances 11 (2021), 29797-29806.
2021	“Economic Spectrofluorometric Bioanalysis Of Empagliflozin In Rats’ Plasma”, B.M. Ayoub, H. Michel, N.M. El Zahar , M.M. Tadros, Journal of Analytical Methods in Chemistry 2021 (2021) Article ID 9983477.

- 2021 “Assessment Of Brain-To-Blood Drug Distribution Using Liquid Chromatography”, **N.M. El Zahar**[#], J.M. Sutton, M.G. Bartlett, Biomedical Chromatography 30 (2021) e5123. (*#Corresponding Author*)
- 2021 “Oligonucleotide Anion Adduct Formation Using Negative Ion Electrospray Ion-Mobility Mass Spectrometry”, J.M. Sutton, **N.M. El Zahar**, M.G. Bartlett, Journal of the American Society for Mass Spectrometry 32 (2021) 497-508.
- 2021 “Bioanalysis And Biotransformation Of Oligonucleotide Therapeutics By Liquid Chromatography Mass Spectrometry”, J.M. Sutton, J. kim, **N.M. El Zahar**, M.G. Bartlett, Mass Spectrometry Reviews 40 (2021) 334-358.
- 2020 “Development Of Advanced Chemometric-Assisted Spectrophotometric Methods For The Determination of Cromolyn Sodium And Its Alkaline Degradation Products”, **N.M. El Zahar**[#], M.M. Tadros, B.M. Ayoub, Molecules 25 (2020) 5953. (*#Corresponding Author*)
- 2020 “Rosuvastatin Dose Should Be Case Individualized: An Observation from Inherited Hypercholesterolemia Case Study”, B.M. Ayoub, N. Ashoush, M.M. Tadros, **N.M. El Zahar**, M.S. Hendy, S. Mowaka, Pharmazie 75 (2020) 531-532.
- 2020 “Enhanced Extraction Technique Of Omarigliptin from Human Plasma—Applied To Biological Samples from Healthy Human Volunteers”, S. Mowaka, N. Ashoush, M.M. Tadros, **N.M. El Zahar**, B.M. Ayoub, Molecules 25 (2020) 4232.
- 2020 “In Vitro Metabolism of 2’- Ribose Unmodified and Modified Phosphorothioate Oligonucleotide Therapeutics Using Liquid Chromatography-Mass Spectrometry”
J. kim, **N.M. El Zahar**, M.G. Bartlett, Biomedical Chromatography 34 (2020) e4839.
- 2018 “Alkylamine Ion-pairing Reagents And The Chromatographic Separation Of Oligonucleotides”, N. Li^{*}, **N.M. El Zahar**^{*}, J.G. Saad, E.R.E. van der Hage, M.G. Bartlett, Journal of Chromatography A, 1580 (2018) 110-119. (*Equal Contribution*)
- 2018 “Degradation Product Characterization Of Therapeutic Oligonucleotides Using Liquid Chromatography Mass Spectrometry”, **N.M. El Zahar**, N. Magdy, A.M. El-Kosasy, M.G. Bartlett, Analytical and Bioanalytical Chemistry, 410 (2018) 3375-3384.
- 2018 “Simultaneous Determination Of Tianeptine And Its Active Metabolite Tianeptine MC5 In Rat Plasma And Brain Tissue Using High Performance Liquid Chromatography/Electrospray Ionization Tandem Mass Spectrometry (LC-MS/MS)”, **N.M. El Zahar**, N. Magdy, A.M. El-Kosasy, W.D. Beck, P.M. Callahan, A.V. Terry, M.G. Bartlett, Analytical Methods, 10 (2018) 439-447.
- 2018 “Chromatographic Approaches For The Characterization And Quality Control Of Therapeutic Oligonucleotide Impurities”, **N.M. El Zahar**, N. Magdy, A.M. El-Kosasy, M.G. Bartlett, Biomedical Chromatography 4 (2018) e4088.
- 2016 “Spectrophotometric And Chemometric Methods For Determination Of Imipenem, Ciprofloxacin Hydrochloride, Dexamethasone Sodium Phosphate, Paracetamol And Cilastatin Sodium In Human Urine”, A.M. El-Kosasy, O. Abdel-Aziz, N. Magdy, **N.M. El Zahar**[#], Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 157 (2016) 26-33. (*#Corresponding Author*)
- 2016 “Comparative Study Of Different Potentiometric Ion-Selective Electrodes For Determination Of Certain Polyionic Drugs”, A.M. El-Kosasy, O. Abdel-Aziz, N. Magdy, **N.M. El Zahar**, International Journal of Electrochemical Science 11 (2016) 3738-3754. (*#Corresponding Author*)
- 2015 “Screening and Optimization of the Reaction of Polymyxin B Sulphate With NBD-Cl For The Synchronous Spectrofluorimetric Determination Of Polymyxin B Sulphate In Human Plasma”, A.M. El-Kosasy, O. Abdel-Aziz, N. Magdy, **N.M. El Zahar**[#], Journal of Fluorescence 25 (2015) 695-705. (*#Corresponding Author*)
- 2014 “Novel Spectroscopic Methods For Determination Of Cromolyn Sodium And Oxymetazoline Hydrochloride In Binary Mixture”, O. Abdel-Aziz, A.M. El-Kosasy, N. Magdy, **N.M. El Zahar**[#], Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 131 (2014) 59-66. (*#Corresponding Author*)

Conferences

- 2025 Participate at The 2025 AAPS PharmSci 360, San Antonio, Texas, USA. with a poster presentation, "Separation and Structural Analysis of Heavily Modified Therapeutic RNAs Using Hydrophilic Interaction Liquid Chromatography Coupled to Advanced Ion Activation Techniques for Tandem Mass Spectrometry".
- 2025 Participate and attend The 73rd ASMS Conference on Mass Spectrometry & Allied topics in Baltimore, Maryland, USA with a poster presentation, "Impact of charge state and ligand binding on collision cross-sections of nucleic acids in an Orbitrap mass analyzer".
- 2023 Participate at The 3rd ICPASU International Conference of Faculty of Pharmacy, Ain Shams University "Sustainability and Innovation in Pharmaceutical Research and Industry" with a poster presentation, "Green Ion Selective Electrodes for the Potentiometric Determination of Diphenyliodonium Hexafluorophosphate in Dental Products and Saliva". Cairo, Egypt,
- 2021 Attend Badr University in Cairo 1st Conference of Pharmaceutical Sciences (BUCPS), Cairo, Egypt.
- 2019 Participate and attend 8th ASU Scientific Annual Conference, Ain Shams University, Cairo, Egypt with a poster presentation, "Determination of Psychoactive Stimulatory Drugs in Pharmaceutical Plant Effluent and Surface Water Samples by High-Performance Liquid Chromatography–Electrospray Tandem Mass Spectrometry".
- 2018 Organize and attend 2nd ICPASU International Conference of Faculty of Pharmacy, Ain Shams University (21st Scientific Congress of The Association of Pharmacy Colleges in Arab World) on "Future Trends in Development of Pharmaceutical Education and Research", Cairo, Egypt.
- 2018 Participate at The 66th ASMS Conference on Mass Spectrometry and Allied topics in San Diego, California, USA with a poster presentation, "Degradation Profiles and Kinetics of Phosphorothioate Oligonucleotides Using Liquid Chromatography Mass Spectrometry".
- 2017 Participate and attend The 2017 AAPS Annual meeting, San Diego, California, USA with an award winner poster presentation, "Simultaneous Determination of Tianeptine and Its Active Metabolite Tianeptine MC5 in Rat Plasma and Brain Tissue Using High Performance Liquid Chromatography/Electrospray Ionization Tandem Mass Spectrometry (LC-MS/MS)".
- 2017 Participate and attend The 65th ASMS Conference on Mass Spectrometry and Allied topics in Indianapolis, Indiana, USA with a poster presentation, "Impurity Profiling Second Generation Therapeutic Oligonucleotides Using Liquid Chromatography Mass Spectrometry".
- 2016 Attend The 64th ASMS Conference on Mass Spectrometry & Allied topics in San Antonio, Texas, USA.
- 2014 Participate, Organize and attend The 1st ICPASU International Conference of Faculty of Pharmacy, Ain Shams University (The 17th Scientific Congress of the Association of Pharmacy Colleges in The Arab World) on "New trends in Drug Discovery, Development and Pharmacy Practice", Cairo, Egypt with an oral presentation, "Comparative Study of Different Potentiometric Ion-Selective Electrodes for Determination of Certain Polyionic Drugs".

Co-Supervision & Mentoring

- 10/2025 Supervision, mentoring and training of Pharmacy students-Experiential year (PharmD Program-BSc) at Faculty of Pharmacy–Ain Shams University in the graduation project entitled "Exploring Metal–Organic Frameworks as Novel Platforms for Colorimetric Biosensing" for the academic year 2025-2026.
- 01/2023 Analytical Studies On Certain Leachables From Packaging Materials. (MSc Thesis Supervision)
- 11/2020 Analytical Studies On Certain Photoinitiators. (MSc Thesis Supervision)
- 10/2020 Supervision, mentoring and training of level five Pharmacy students (Drug Design Program-BSc) at Faculty of Pharmacy–Ain Shams University in the graduation project entitled "Implementation Of Fluorescence Spectroscopy As An Advanced Tool For The Evaluation Of Carbendazim And Thiabendazole Pesticides In Biological Fluids" for the academic year 2019-2020.
- 10/2019 Supervision, mentoring and training of level five Pharmacy students (Drug Design Program-BSc) at Faculty of Pharmacy–Ain Shams University in the graduation project entitled "Determination Of Psycho-active Drugs In Pharmaceutical Plant Effluent And Surface Waters By HPLC-MS/MS" for the academic year 2018-2019.

Awards and Scholarships:

06/2025	AY2024-2025 Fulbright Program Certificate of Completion. -The Fulbright Foreign Scholarship Board and The Bureau of Educational and Cultural Affairs of the United States Department of State, Washington DC, USA -Binational Fulbright Commission in Egypt.
03/2024	AY2024-2025 Fulbright Egyptian Scholar Program Award Nomination at the University of Texas at Austin, Austin, Texas, USA. Binational Fulbright Commission in Egypt.
05/2022	Seal of Excellence of “The project proposal 101066759, LINERT”, submitted under the Horizon Europe Marie Skłodowska-Curie actions call, HORIZON-MSCA-2021-PF-01-01-MSCA Postdoctoral Fellowships 2021.
03/2021	Seal of Excellence of “The project proposal 101032784, LINERT”, submitted under the Horizon 2020’s Marie Skłodowska-Curie actions call H2020-MSCA-IF-2020 of 9 September 2020.
11/2017	AAPS Graduate Student Research Award in Analysis and Pharmaceutical Quality. AAPS Annual meeting and exposition, San Diego, California, USA
09/2015	Egyptian Joint Supervision Scholarship Ministry of Higher Education, Cairo, Egypt
08/2010	Appreciation Awards for being one of the top ten of class 2010, -Egyptian Pharmacists Syndicate, Cairo, Egypt -Faculty of Pharmacy, Ain Shams University, Cairo, Egypt