Curriculum Vitae

Personal Data

Name: **Mohamed Gamal Eldin Hassan Oraby**

Date of Birth: Jan. 1, 1976.

Birth place: Sohag Egypt.

Marital status: Married.

Citizenship: Egyptian.

Current Position: Assistant professor of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy Sohag University.

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Language Abilities: Arabic (mother language).
English (advanced levels).

Academic Qualifications

1/ 2022 Associate professor.

12/ 2013 Doctor of Philosophy, **PhD. (Pharmaceutical Sciences)**, thesis**" Development of sensitive HPLC method with fluorescence detection for determination of memantine and its application to pharmacokinetic study"**. Faculty of Pharmacy, Assiut University, Assiut, Egypt.

12/ 2005 Master degree of Pharmaceutical Sciences (Pharmaceutical Analytical Chemistry**)." Analysis of some pharmaceutical thiols and thioamides in pure, dosage forms and in biological fluids".** Faculty of Pharmacy, Assiut University, Assiut, Egypt.

7/ 1999 Bachelor degree of Pharmaceutical Sciences, Faculty of Pharmacy, Al-Azhar University, Assiut, Egypt, with the general grade: Very Good, with degree of honor.

Carrer Progression

4/ 2025- Vice Dean for Research and Postgraduate Studies.

9/ 2023 – 3/ 2025 Vice Dean for Community Service and Environmental Development.

2019- 2022 Manager of the Quality Assurance Unit, Faculty of Pharmacy, Sohag University, Sohag, Egypt.

1/ 2016- 7/ 2022 Supervisor of the Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Sohag University, Sohag, Egypt.

5/ 2015 Lecturer, Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Sohag University., Sohag, Egypt.

3/2014 – 4/2015 Lecturer, Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Al-Azhar University., Assiut, Egypt.

2009- 2011 Joint Supervision Mission for two years at the Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, Japan.

2005 -2013 Assistant Lecturer, Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Al-Azhar University, Assiut, Egypt.

2000- 2005 Demonstrator, Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Al-Azhar University, Assiut, Egypt.

Professional Membership

The Egyptian Pharmacists' syndicate, [Sohag, Egypt], since **1999**.

Skills & Experience

Teaching undergraduate students' different courses in Pharmaceutical Analytical Chemistry, such as:

No.	Course name
1-	Pharmaceutical Analytical Chemistry for First-year Students: Faculty of Pharmacy, Al-Azhar University, Assiut.
2-	Pharmaceutical Analytical Chemistry 1 & 2 for First year Pharm D Students: Faculty of Pharmacy, Sohag University. Sohag.
3-	Pharmaceutical Analytical Chemistry 1 & 2 for First year Pharm D Clinical Students: Faculty of Pharmacy, Sohag University. Sohag.
4-	Pharmaceutical Analytical Chemistry 3 for Second year Pharm D Students: Faculty of Pharmacy,

	Sohag University. Sohag.
5-	Pharmaceutical Instrumental Analysis for Second Year Pharm D Clinical Students: Faculty of Pharmacy, Sohag University. Sohag.
6-	Quality Control of Drugs for Fourth-year Clinical Students: Faculty of Pharmacy, Sohag University. Sohag.

Quality Assurance unit:

1-	Internal Auditing	3-5/ 11/ 2024
2-	Examination and student evaluation systems for colleges and institutes of higher education	8-9/ 1/ 2020
3-	Effective teaching and learning strategies for colleges and institutes of higher education	1-2/ 1/ 2020
4-	External review of colleges and institutes of higher education.	17-19/ 3/ 2019
5-	Strategic planning for colleges and institutes of higher education.	3-4/ 3/ 2019
6-	Programs and courses characterization and evaluation of learning outcomes for colleges and institutes of higher education.	17-19/ 2/ 2019
7-	Self-Assessment of colleges and institutes of higher education.	10-12/ 2/ 2019

Equipment Skills:

I have good experience in high-performance liquid chromatography (HPLC) with fluorescence/ UV - VIS detectors, solid phase extraction (SPE), spectrofluorometers, and double-beam spectrophotometers.

Dissertations Supervision

A- Master thesis

1- **Ahamed Saad Ahmed**, a demonstrator in the Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Sohag University, Sohag, Egypt (completed) at the Faculty of Pharmacy, Minia University. Under the title **"Analysis of some antihistaminic and anti-inflammatory drugs using different spectroscopic and chromatographic methods".**

2- **Al Amir Saber Zafaan,** a demonstrator in the Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Sohag University, Sohag, Egypt (Completed) at the Faculty of Pharmacy, Minia University. Under the title **" The use of analytical protocols for the evaluation of drugs with central action on the nervous system ".**

3- **Hadeer Adel Elhamdy,** a demonstrator in the Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Sohag University, Sohag, Egypt (Completed) at the Faculty of Pharmacy,

Minia University. Under the title **" Utility of analytical techniques for determination of certain drugs treating central nervous system diseases".**

4- **Sara Ibraheem Badry,** a demonstrator in the Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Sohag University, Sohag, Egypt (12/ 2024 till now) at the Faculty of Pharmacy, Minia University. Under the title **"Utility of analytical techniques for determination of some drugs acting on respiratory tract system"**

B- PhD Thesis

1- **Ahamed Saad Ahmed**, assistant lecturer in the Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Sohag University, Sohag, Egypt (8/ 2023 till now) at the faculty of pharmacy, Minia University. Under the title **" Assay of Some Drugs Operating on Disorders of the Urinary System Using Different Analytical Methods".**

2- **Fatma M. Abdelnaeem**, assistant lecturer in the Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Sohag University, Sohag, Egypt (8/ 2023 till now) at the faculty of pharmacy, Minia University. Under the title **" Quantification of some cardiovascular Drugs utilizing different analytical Methods"**

Training Courses

1-	Competitive Research Projects.	24-25/ 6/ 2025
2-	Examination systems and students' evaluation	28-29/ 10/ 2024
3-	Communication skills in different learning styles	9-10/ 10/ 2024
4-	Sustainability Development.	11-12/ 9/ 2024
5-	Presentation Skills & Confident Professional Speaker Course	6-23/ 11/ 2023
6-	Statistical Analysis in Scientific Research (SPSS)	15-16/ 8/ 2021
7-	Competitive Research Projects	5-6/ 4/ 2021
8-	Communication Skills	30-31/ 3/ 2021
9-	Program Accreditation Criteria.	9-11/ 2/ 2021
10-	University Administration and Student Activities	29-31/12/ 2020
11-	Digital Transformation Certificate (Modules; Fundamentals of IT, Operating System and Word).	22/ 12/ 2020
12-	Anti-Corruption	7-8/ 10/ 2020

Research Interest

- HPLC determination of pharmaceuticals in biological fluids.
- Pharmacokinetic study of pharmaceuticals.

- Enantiomer separation.
- Spectroscopic determination of pharmaceuticals.
- Electrochemical Methods for the Analysis of Pharmaceuticals.

Scholarships, Honours, and Awards

2007 For two years, Joint Supervision Mission from the Egyptian Ministry of Higher Education at the School of Pharmaceutical Sciences, Nagasaki University, Japan.

List of Publications

A. **Published articles**

1. Khalid M. Badr El-Din, Sayed M. Derayea, **Mohamed Oraby**, and Hadeer A. Elhamdy. Trifluoperazine nano-level assay in pharmaceutical formulation using a green and simple spectrofluorometric approach based on ion pairing with erythrosine B: Application to content uniformity with greenness and blueness evaluation. **Luminescence, 40** (2025). https://doi.org/10.1002/bio.70252
2. Sayed M. Derayea, Dalia M. Nagy, Sara I. Badry, and **Mohamed Oraby.** Investigating the Luminescent Characteristics of Formoterol for Innovative Spectrofluorimetric Determination in Pharmaceutical Formulation: Theoretical Calculations and Greenness Evaluation. **Luminescence, 40** (2025), e70214. https://doi.org/10.1002/bio.70214
3. Pakinaz Y. Khashaba, Mahmoud Abdelgaleel, Dalia M. Nagi, **Mohamed Oraby**, and Sayed M. Derayea. Facile one-pot green chemistry approach with whiteness assessment for unveiling micellar-mediated fluorescence amplification of midodrine: A comprehensive study of analytical significance. **Sustainable Chemistry and Pharmacy**, **46** (2025), 102058. https://doi.org/10.1016/j.scp.2025.102058
4. Ahmed A. Khorshed, Fatma M. Abdelnaeem, **Mohamed Oraby**, Dalia M. Nagy, and Sayed M. Derayea. Simultaneous determination of triamterene and losartan mixture in spiked human plasma utilizing high-performance thin-layer chromatography with ultraviolet detection. **Journal of Planar Chromatography – Modern TLC, 37** (2025), 261–269. DOI: 10.1007/s00764-025-00339-x
5. Al Amir S. Zaafan, Sayed M. Derayea, **Mohamed Oraby**, and Dalia M. Nagy. Development and validation of derivative UV spectroscopic methods for simultaneous estimation of duloxetine and tadalafil in their binary mixtures: Greenness -Blueness evaluation. **BMC chemistry, 19** (2025), 96. https://doi.org/10.1186/s13065-025-01458-6
6. Hadeer A. Elhamdy, Sayed M. Derayea, Khalid M. Badr El-Din, and **Mohamed Oraby**. Novel spectrophotometric methods for concurrent assessment of duloxetine and avanafil in their binary mixture using derivative spectroscopy: greenness-blueness evaluation. **BMC chemistry, 19** (2025), 87. https://doi.org/10.1186/s13065-025-01450-0

7. Ahmed A. Khorshed, Fatma M. Abdelnaeem, **Mohamed Oraby**, Dalia M. Nagy, and Sayed M. Derayea. Dual pH-optimized HPTLC method for simultaneous quantification and enhanced fluorescence detection of triamterene and losartan in human plasma: Toward achieving maximum separate fluorescence intensity. **Microchemical Journal, 212** (2025), 113407. https://doi.org/10.1016/j.microc.2025.113407
8. Sayed M. Derayea, Khalid M. Badr El-Din, Ahmed S. Ahmed, **Mohamed Oraby**, and Mohamed A. Abdelshakour. Green HPLC-Fluorescence detection method for concurrent analysis of Tamsulosin hydrochloride and Tolterodine tartrate in dosage forms and biological fluids. **Scientific Reports, 15** (2025), 10615. https://doi.org/10.1038/s41598-025-92183-6
9. Khalid M. Badr El-Din, Sayed M. Derayea, Ahmed S. Ahmed, **Mohamed Oraby**, and Mohamed A. Abdelshakour. Two birds with one stone: sustainable smart spectrophotometric methods for concurrent determination of silodosin and mirabegron: application to dosage forms and greenness assessment. **BMC chemistry, 19** (2025), 56. https://doi.org/10.1186/s13065-025-01411-7.
10. Mahmoud Abdelgaleel, Dalia M Nagi, **Mohamed Oraby**, Sayed M Derayea, Pakinaz Y Khashaba. Application of nucleophilic substitution reaction for sensitive determination of heptaminol hydrochloride in pharmaceuticals. **BMC chemistry, 18** (2024), 218. https://doi.org/10.1186/s13065-024-01327-8.
11. Sayed M. Derayea, Dalia M. Nagy, **Mohamed Oraby**, and Al Amir S. Zaafan. Novel eco-friendly HPTLC method using dual-wavelength detection for simultaneous quantification of duloxetine and tadalafil with greenness evaluation and application in human plasma. **Scientific Reports, 14** (2024), 23907. https://doi.org/10.1038/s41598-024-73523-4
12. Hadeer A. Elhamdy, Sayed M. Derayea, **Mohamed Oraby**, and Khalid M. Badr El-Din. Exploitation of erythrosine B as a fluorometric marker for lurasidone determination through electrostatic attraction; Application to content uniformity test. **Luminescence, 37** (2024), e4845. https://doi.org/10.1002/bio.4845
13. Al Amir S. Zaafan, Sayed M. Derayea, Dalia A Nagi, and **Mohamed Oraby.** Development and validation of a precise flow injection method for the assessment of brexpiprazole, with application to pharmaceutical dosage forms and human plasma analysis. **BMC Chemistry, 18** (2024), 137. https://doi.org/10.1186/s13065-024-01240-0
14. Mahmoud A. Abdelmajed, Khalid M. Badr El-Din, Tamer Z. Attia, **Mohamed Oraby**, and Mahmoud A. Omar. Condensation methodology for quantification of Polymyxin B fluorimetrically: application to pharmaceutical formulations and greenness assessment. **BMC Chemistry, 18** (2024), 105. https://doi.org/10.1186/s13065-024-01156-9
15. Ahmed A Khorshed, Fatma M Abdelnaeem, Sayed M Derayea, **Mohamed Oraby**, and Dalia M Nagy. Simultaneous determination of amlodipine besylate and azilsartan mixture in human plasma utilizing

high-performance thin-layer chromatography with ultraviolet detection. **Journal of Planar Chromatography – Modern TLC, 37** (2024), 261–269. https://doi.org/10.1007/s00764-024-00300-4

16. Huda Salem AlSalem, Sara Naif Alharbi, Mona Saad Binkadem, Soha Talal Al-Goul, Ahmed A. Abu-hassan, **Mohamed Oraby**, and Mohamed A. Abdel-Lateef. A nano-level assay of tizanidine using the fluorogenic character of benzofurazan derivative: Application to plasma, tablets, and content homogeneity evaluation. **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 320** (2024), 124596. https://doi.org/10.1016/j.saa.2024.124596
17. Al Amir S. Zaafan, Sayed M. Derayea, Dalia A Nagi, and **Mohamed Oraby**. Evaluation of the on-off fluorescence method for facile measurement of vilazodone in pharmaceutical dosage form; Application to content uniformity testing and greenness evaluation. **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 319** (2024), 124519. https://doi.org/10.1016/j.saa.2024.124519
18. Sayed M. Derayea, Ahmed S. Ahmed, Mohamed A. Abdelshakour, **Mohamed Oraby**, and Khalid M. Badr El-Din. Diaryl pyrrolone fluorescent probing strategy for Mirabegron determination through condensation with ninhydrin and phenylacetaldehyde: Application to dosage forms, human urine, and plasma. **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 318** (2024), 124515. https://doi.org/10.1016/j.saa.2024.124515
19. Ahmed A. Khorshed, Fatma M. Abdelnaeem, Sayed M. Derayea, Dalia M. Nagy, and **Mohamed Oraby**. Enhancing simultaneous determination of some angiotensin II receptor antagonists and amlodipine in plasma using HPTLC with fluorescence densitometry: Independent fluorescence detection of the co-administrative drugs in the mixture across various pH conditions. **Journal of Chromatography B, 1241 (**2024) 124162**.** https://doi.org/10.1016/j.jchromb.2024.124162
20. Sayed M. Derayea, Hadeer A. Elhamdy, **Mohamed Oraby**, and Khalid M. Badr El-Din. Simultaneous measurement of duloxetine hydrochloride and avanafil at dual- wavelength using novel ecologically friendly TLC-densitometric method: application to synthetic mixture and spiked human plasma with evaluation of greenness and blueness. **BMC Chemistry, 18** (2024). 92. https://doi.org/10.1186/s13065-024-01195-2
21. Sayed M. Derayea, Al Amir S. Zaafan, Dalia A Nagi, and **Mohamed Oraby**. A facile on-off fluorescence approach for fluvoxamine determination in pharmaceutical tablets; Application to content uniformity testing. **RSC Advances, 14** (2024), 8283-8292. https://doi.org/10.1039/D3RA08257A
22. Sayed M. Derayea, Khalid M. Badr El-Din, Ahmed S. Ahmed, Ahmed Khorshed, and **Mohamed Oraby**. Determination of Antihistaminic Drugs Alcaftadine and Olopatadine Hydrochloride via Ion-Pairing with Eosin Y as a Spectrofluorimetric and Spectrophotometric Probe: Application to Dosage Forms. **BMC Chemistry, 18** (2024), 40. https://doi.org/10.1186/s13065-024-01137-y

23. Sayed M. Derayea, Khalid M. Badr El-Din, Ahmed S. Ahmed, Mohamed A. Abdelshakour, and **Mohamed Oraby**. An eco-friendly one-pot spectrofluorimetric approach for the facile determination of overactive bladder drug, tolterodine: Application to dosage forms and biological fluids. **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 311** (2024), 123986. https://doi.org/10.1016/j.saa.2024.123986
24. Ashraf M. Mahmoud, Samer S. Abu-Alrub, Ali O. Al-Qarni, Bandar A. Alyami, Mohamed M. El-Wekil, and **Mohamed Oraby.** First report for fluorometric determination of kasugamycin based on amino acid-functionalized bimetallic nanoclusters. **Microchemical Journal, 199** (2024) 110012. **Microchemical Journal 199** (2024) 110012. https://doi.org/10.1016/j.microc.2024.110012
25. Sayed M. Derayea, Hadeer A. Elhamdy, Khalid M. Badr El-Din, and **Mohamed Oraby**. Novel spectrofluorometric approach for assessing vilazodone by blocking photoinduced electron transfer: analytical performance, and greenness–blueness evaluation. **RSC Advances, 14** (2024), 4065-4073. https://doi.org/10.1039/d3ra08034j
26. Sayed M. Derayea, Khalid M. Badr El-Din, Ahmed S. Ahmed, Ahmed Khorshed, and **Mohamed Oraby**. Development of a green synchronous spectrofluorimetric technique for simultaneous determination of Montelukast Sodium and Bilastine in Pharmaceutical Formulations. **BMC Chemistry, 18** (2024), 18. https://doi.org/10.1186/s13065-024-01116-3
27. Sayed M. Derayea, Mahmoud Abdelgaleel, Dalia M. Nagi, **Mohamed Oraby,** and Pakinaz Y. Khashaba. Utility of dansyl chloride for the establishment of a sensitive spectrofluorimetric approach for estimating midodrine hydrochloride: application to content uniformity testing. **RSC Advances**, **13** (2023), 33453–33458. https://doi.org/ 10.1039/d3ra06268f
28. Sayed M. Derayea, Khalid M. Badr El-Din, Hadeer A. Elhamdy, and **Mohamed Oraby**. Versatile applications of a spectrofluorimetric approach based on photo-induced electron transfer blocking of Lurasidone. **Journal of Molecular Liquids**, Part A **391** (2023), 123264. https://doi.org/10.1016/j.molliq.2023.123264
29. Mona Saad Binkadem, Huda Salem AlSalem, Soha Talal Al-Goul, Mohamed A. El Hamd, **Mohamed Oraby**, Faten M. Ali Zainy, and Mohamed A. Abdel-Lateef. Validated spectrofluorimetric and resonance Rayleigh scattering methods for determining naftidrofuryl in varied pharmaceutical samples based on its interaction with erythrosin B. **Luminescence**, **38** (2023):1836-1843. https://doi.org/10.1002/bio.4570.
30. Sayed M. Derayea, Al Amir S. Zaafan, Dalia A Nagi, and **Mohamed Oraby**. Augmentation of Brexpiprazole fluorescence through photoinduced electron transfer inhibition for the sensitive spectrofluorimetric assay of pharmaceutical dosage forms and spiked human plasma: Application to

content uniformity testing. **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 301** (2023) 122948. https://doi.org/10.1016/j.saa.2023.122948

31. Ahmed A Khorshed, Fatma M. Abdelnaeem, Sayed M Derayea, **Mohamed Oraby**, and Dalia M Nagy. Concurrent estimation of montelukast and loratadine mixture in spiked human plasma utilizing high-performance thin-layer chromatography with ultraviolet detection. **Journal of Planar Chromatography – Modern TLC, 35** (2022), 617-625. https://doi.org/10.1007/s00764-022-00209-w
32. Alyaa H. Ibrahim, **Mohamed Oraby**, and Ahmed A.Khorshed, HPTLC determination of ergosterol in wheat and structure elucidation by NMR: Toward confirming method selectivity, **Journal of Food Composition and Analysis 114** (2022) 104763. https://doi.org/10.1016/j.jfca.2022.104763
33. Ahmed A.Khorshed, Fatma M. Abdelnaeem, Sayed M.Derayea, Dalia M. Nagy, and **Mohamed Oraby**. Ultrasensitive TLC determination of montlukast and loratadine mixture in human plasma utilizing fluorescence detection at dual pH values: Toward attaining separate maximum fluorescence intensity. **Journal of Chromatography B, 1193**, (2022), 123161. https://doi.org/10.1016/j.jchromb.2022.123161
34. Khaled Badr El-Din, Ahmed Ahmed, Ahmed Khorshed, Sayed Derayea, and **Mohamed Oraby**. Smart Spectrophotometric Methods Based on Feasible Mathematical Processing and Classical Chemometry for The Simultaneous Assay of Alcaftadine and Ketorolac in Their Recently Approved Pharmaceutical Formulation. **Egyptian Journal of Chemistry**, **65** (2022), 167-174. https://doi.10.21608/EJCHEM.2021.82464.4098
35. Ahmed Khorshed, Mohamed M Elsutohy, Abobakr A. Mohamed and **Mohamed Oraby.** HPTLC method for the ultrasensitive detection of triamterene in plasma. **Journal of Chromatographic Science,** 2021, 1–8. https://doi.org/10.1093/chromsci/bmab076
36. **Mohamed Oraby**, Ahmed S. Ahmed Mohamed A. Abdel-Lateef, Mahmoud A. H. Mostafa, and Ahmed I. Hassan. Employ FTIR spectroscopic method for determination of certain Multiple Sclerosis medications in plasma and pharmaceutical formulations. **Microchemical Journal, 167**, 2021, 106329. https://doi.org/10.1016/j.microc.2021.106329
37. K. Yugender Goud, K. Koteshwara Reddy, Ahmed Khorshed, V. Sunil Kumar, Rupesh K. Mishra, **Mohamed Oraby**, Alyaa Hatem Ibrahim, Hern Kim, and K. Vengatajalabathy Gobi. Electrochemical diagnostics of infectious viral diseases: Trends and challenges. **Biosensors and Bioelectronics, 180** (2021) 113112. https://doi.org/10.1016/j.bios.2021.113112
38. Mohamed A. Abdel-Lateef, Sayed M Derayea, Deena A. M. Nour El-Deen and **Mohamed Oraby**. Investigating the interaction of terbinafine with xanthenes dye for its feasible determination applying resonance Rayleigh scattering technique. **Royal society Open Science, 7** (2021) 201545. https://doi.org/10.1098/rsos.201545

39. **Mohamed Oraby**, Antar A. Abdelhamid, Khaled M. H. Mohamed, Abul-Hamd E. Mehanni, and Mohamed M. Elsutohy. A rapid and simple spectrophotometric method for the determination of antiviral and anti-Parkinsonism drugs. **Journal of applied Spectroscopy, 87** (2020) 289-295**.** https://doi:10.1007/s10812-020-00998-0
40. Saad A. Alkahtani, Mohamed M. El-Wekil, Ashraf M. Mahmoud, Mater H. Mahnash, and **Mohamed Oraby**. One pot synthesis of AuPdPt trimetallic nanohybrid decorated reduced graphene oxide nanosheets for ultrasensing of anti-convulsant drug retigabine (ezogabine). **Journal of the Electrochemical Society, 166** (2019) H521-H526. https://doi.org/10.1149/2.0791912jes
41. **Mohamed Oraby**, Ahmed Khorshed, Eman Abdul-Rahman, Ramadan Ali, and Mohamed M Elsutohy. A clinical study for the evaluation of pharmacokinetic interaction between daclatasvir and fluoxetine. **Journal of Pharmaceutical and Biomedical Analysis**, **171** (2019) 104-110. https://doi.org/10.1016/j.jpba.2019.03.065
42. **Mohamed G. Hassan**, Rie Ikeda, Mitsuhiro Wada, Naotaka Kuroda, Hanaa M. Abdel-Wadood, Horria A. Mohamed, and Kenichiro Nakashima. Interaction study of acetylcholinesterase inhibitors on pharmacokinetics of memantine in rat plasma by HPLC-fluorescence method. **Biomedical Chromatography; 27** (2013), 1685–1689. https://doi.org/10.1002/bmc.2980
43. **Mohamed G. Hassan**, Kamla M. Emara, Horria A. Mohamed, Hanaa M. Abdel-Wadood, Rie Ikeda, Mitsuhiro Wada, Naotaka Kuroda, and Kenichiro Nakashima. Determination of memantine in rat plasma by HPLC-fluorescence method and its application to study of the pharmacokinetic interaction between memantine and methazolamide. **Biomedical Chromatography; 26** (2012), 214–219. https://doi.org/10.1002/bmc.1648
44. Kamla M. Emara, Ibrahim H. Refaat, Hanaa M. Abdel-Wadood, and **Mohamed G. Hassan**. Spectrophotometric determination of certain drugs using Ammonium Cerium (IV) Sulfate and *p*-Dimethylaminobenzaldehyde. **Egyptian Journal of Pharmaceutical Sciences; 48** (2007), 69-85.
45. Kamla M. Emara, Ibrahim H. Refaat, Hanaa M. Abdel-Wadood, and **Mohamed G. Hassan**. Oxidized diphenylamine as a spectrophotometric reagent for the determination of some pharmaceutical thiols and thioamides, **Bulletin of Pharmaceutical Sciences, Assiut University; 28** (2005), 225-236.

2. Books and Chapters

1- Pharmaceutical Analytical Chemistry 1 & 2 for First year Pharm D Students: Faculty of Pharmacy, Sohag University. Sohag.

2- Pharmaceutical Analytical Chemistry 1 & 2 for First year Pharm D Clinical Students: Faculty of Pharmacy, Sohag University. Sohag.

3- Pharmaceutical Analytical Chemistry 3 for Second year Pharm D Students: Faculty of Pharmacy, Sohag University. Sohag.

4- Pharmaceutical Instrumental Analysis for Second year Pharm D Clinical Students: Faculty of Pharmacy, Sohag University. Sohag.

5- Quality Control of Drugs for Fourth year Clinical Students: Faculty of Pharmacy, Sohag University. Sohag.

Conferences and Workshops

A. Oral Presentations:

Presentation entitled **"HPTLC method for the ultrasensitive detection of triamterene in plasma"**, "New Avenues in Pharmacy and Health Care", in the Virtual Scientific Conference of Faculty of Pharmacy Tanta University, Tanta, Egypt (10-11/ 10/ 2020).

B. Posters:

1. Poster entitled **"Application of FTIR spectroscopic method for simultaneous determination of Fampridine, Dexamethasone, and Fluoxetine in pharmaceutical dosage forms"**, in The Fourth International Conference on Applied Chemistry (ICAC), Hurgada, Egypt (3-6/4/ 2021).
2. Poster entitled **"A rapid and simple spectrophotometric method for the determination of antiviral and anti-Parkinsonism drugs"**, in The Fourth International Conference on New Horizons in Basic and Applied Science (ICNHBAS), Hurgada, Egypt (26-29/ 7/ 2019).

I- Workshops

1-		
2-		
3-	HPLC column chemistry.	6/ 3/ 2021
4-	Nanotechnology.	3-4/ 2/ 2021
5-	Nuclear Magnetic Resonance (NMR): Basics and Applications.	13-15/ 1/ 2021
6-	Liquid Chromatography Mass Spectrometry (LC-MS) Basics and Applications.	11-15/ 7/ 2020

References:

1- **Gamal Ahmed Saleh,** Professor of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy Assiut University, Assiut, Egypt.
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2- **Mohamed Mahmoud El-Wakeel,** Assistant Professor of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy Assiut University, Assiut, Egypt.
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3- **Ahmed Abdel-Hameed Khorshed,** Assistant professor of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy Sohag University, Sohag, Egypt.
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