



Professor/ Marwa Fathy Bakr Ali

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

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Curriculum Vitae

1-Personal Data

Name: Marwa Fathy Bakr Ali

Nationality: Egyptian

Date of Birth: November 22th, 1980

Marital status: Married

Current position: Professor in Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Assiut University, Assiut, Egypt.

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ORCID ID: <https://orcid.org/0000-0002-7986-2580>

2-Education and Qualification

1. Bachelor of Pharmaceutical Sciences, From Faculty of Pharmacy – University of Assiut – Assiut – Egypt **Date:** June, 2002

2. Master of Pharmaceutical Sciences, From Faculty of Pharmacy – University of Assiut – Assiut – Egypt **Date:** September, 2007

3. Member of a Joint supervision Mission from August 2011 to August 2013 in Nagasaki University, Japan

4. Doctor of Philosophy in Pharmaceutical Sciences, From Faculty of Pharmacy – University of Assiut – Assiut – Egypt **Date:** June, 2014

5. Postdoctoral fellowship (6 months) in Nagasaki University, Japan in 2019

3-Occupation and Administrative Experience

1. Demonstrator-Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy-Assiut University from 21 December 2002 to September 2007.

2. Assistant Lecturer-Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy-Assiut University from 29 October 2007 to June 2014

3. Lecturer- Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy-Assiut University from 17 July 2014 till 24 September 2019.



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4. Associate Professor- Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy-Assiut University from 24 September 2019.

5. Professor- Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy-Assiut University from 2 February 2025.

4- Scientific Conferences

1. Assiut University 4th International Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut, March 2004.
2. Assiut University 5th International Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut, March, 2006.
3. Assiut University 6th International Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut, March, 2008.
4. The 56th Annual meeting of the Japan Society for Analytical Chemistry, Kanazawa, Japan, September 20, 2012.
5. The 133th Annual meeting of the Pharmaceutical Society of Japan, Yokohama, Japan, March 28, 2013.
6. Assiut University 9th International Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut, 12th-13th March, 2014.
7. Assiut University 10th International Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut, 13th-14th March, 2016.
8. Assiut University 11th International Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut, 11th-12th April, 2018, participating with accepted poster entitled with **"A validated RP-UPLC method for determination of Levetiracetam and Lacosamide in bulk and spiked human urine"**
9. The 36th Conference of the Pharmaceutical Society of Japan, Kyushu Branch, Nagasaki, Japan, On 16th-17th November 2019.
10. Assiut University 12th International Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut, 5th-6th November, 2020.
11. The 13th International Pharmaceutical Sciences Conference, Faculty of Pharmacy, 18th-19th November, 2022 Luxor, Egypt, participating with a poster entitled with **"A Highly sensitive HPTLC method for determination of ternary mixture composed of**



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empagliflozin, pioglitazone, and rosuvastatin in pharmaceuticals and biological samples"

12. The 14th International Pharmaceutical Sciences Conference, Faculty of Pharmacy, 6th -7th November, 2024 Assiut University, Assiut, Egypt, participating with a poster entitled with " **Silver stabilized sulfur-doped quantum dots-based fluorometric sensor for determination of dapagliflozin**"

5-List of Publications

1. "Utility of certain spectrofluorimetric methods for analysis of two binary mixtures" published in Bulletin of pharmaceutical sciences, Assiut University, vol. 31, part 2, 2008, page 183-195.
2. " Analysis of Paracetamol and Ascorbic acid in Pharmaceutical Binary Mixture " published in Bulletin of pharmaceutical sciences, Assiut University, vol. 32, part 2, 2009, page 339-347.
- 3.Characterization and Comparison of Methacrylic Acid with 2-Acrylamido-2-methyl-1-propanesulfonic Acid in the Preparation of Monolithic Column for Capillary Electrochromatography, *Journal of Chromatographic Science* 51 (2013) 425–429.
4. A novel lophine-based fluorescence probe and its binding to human serum albumin, *Analytica Chimica Acta* 780 (2013) 1– 6.
5. Chromatographic determination of aliphatic aldehydes in human serum after pre-column derivatization using 2,2'-furil, a novel fluorogenic reagent, *Journal of Chromatography A* 1300 (2013) 199-203.
6. Chromatographic determination of low-molecular mass unsaturated aliphatic aldehydes with peroxyoxalate chemiluminescence detection after fluorescence labeling with 4-(N,N-dimethylaminosulfonyl)-7-hydrazino-2,1,3-benzoxadiazole, *Journal of Chromatography B*, 953–954 (2014) 147–152.
7. Determination of 4-hydroxy-2-nonenal in serum by high-performance liquid chromatography with fluorescence detection after pre-column derivatization using 4-(N, N-dimethylaminosulfonyl)-7-hydrazino-2,1,3-benzoxadiazole, *Biomedical Chromatogr.* 28 (2014) 858–861.



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8. Ultrasound assisted dispersive liquid-liquid microextraction coupled with high performance liquid chromatography designated for bioavailability studies of felodipine combinations in rat plasma, *Journal of Chromatography B*, 1046 (2017) 200–210.
9. Eco-friendly fabricated electrochemical sensor using Red Cabbage extract for electrochemical determination of Dacarbazine with the aid of Factorial design approach, *Journal of The Electrochemical Society*, 164 (14) (2017) H1053-H1063.
10. Sensitive Spectrofluorimetric Methods for Determination of Sitagliptin Phosphate, Dipeptidyl Peptidase-4 Inhibitor, in Pharmaceutical Tablets and Spiked Human Urine, *Current pharmaceutical analysis* 14 (2018) 483-490.
11. 3-Amino-5-pyridin-3-yl-1,2,4-triazole, a novel fluorescence probe for trace analysis of silymarin in bulk material, pharmaceutical dosage forms and human plasma: Further insights on reaction mechanism using computational molecular modeling and NMR spectroscopy, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 204 (2018) 188-195.
12. Utility of fluorescamine-based approach for highly sensitive spectrofluorimetric determination of Ceftazidime and Vancomycin in pharmaceuticals and real human plasma, *Microchemical Journal* 145 (2019) 218-225.
13. Innovative ultra-sensitive spectrofluorimetric method for nanogram detection of doripenem monohydrate in human plasma, urine and pharmaceutical formulation, *Microchemical Journal* 145 (2019) 959-965.
14. A highly sensitive HPTLC method for estimation of oxcarbazepine in two binary mixtures with two metabolically related antiepileptic drugs: Application to pharmaceutical tablets and human plasma samples, *Microchemical Journal* 146 (2019) 414-422.
15. *In situ* polymerization and FT-IR characterization of poly-glycine on pencil graphite electrode for sensitive determination of anti-emetic drug, granisetron in injections and human plasma, *RSC Advances* 9 (2019) 4325-4335.
16. Enhancement effect of reduced graphene oxide and silver nanocomposite supported on poly brilliant blue platform for ultra-trace voltammetric analysis of rosuvastatin in tablets and human plasma, *RSC Advances*, 9 (2019) 7136–7146.
17. Micelle and inclusion complex enhanced spectrofluorimetric methods for determination of Retigabine: Application in pharmaceutical and biological analysis, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 207 (2019) 251-261.



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18. Highly sensitive UHPLC–DAD method for simultaneous determination of two synergistically acting antiepileptic drugs; levetiracetam and lacosamide: Application to pharmaceutical tablets and human urine, *Biomedical Chromatography* 2019, 4554.
19. Utility of the fluorogenic characters of benzofurazan for analysis of Tigecycline using spectroscopic technique; Application to pharmacokinetic study, urine and pharmaceutical formulations, *Luminescence* 34 (2019) 175–182.
20. Utility of Surface Plasmon Resonance Response of Silver Nanoparticles for Assay of Teicoplanin in Human Plasma Using spectroscopic technique, *Microchemical Journal* 146 (2019) 187-191.
21. Hantzsch reaction approach for determination of teicoplanin and vancomycin in real human plasma: Application to pharmaceutical preparations and to synthetic mixture with rifampicin for drug-resistant strain of *Staphylococcus aureus*, *Microchemical Journal* 147 (2019) 25–29.
22. Modification of N,S co-doped graphene quantum dots with p-aminothiophenol-functionalized gold nanoparticles for molecular imprint-based voltammetric determination of the antiviral drug sofosbuvir, *Microchimica Acta* 186 (2019) 617.
23. A comparative study of different electrodeposited NiCo_2O_4 microspheres anchored on a reduced graphene oxide platform: electrochemical sensor for anti-depressant drug venlafaxine, *RSC Advances* 9 (2019) 31609-31620.
24. Development of sensitive benzofurazan-based spectrometric methods for analysis of spectinomycin in vials and human biological samples, *Luminescence*, 2019, 1-8.
25. Development of HPLC method for estimation of glyoxylic acid after precolumn fluorescence derivatization approach based on thiazine derivative formation: A new application in healthy and cardiovascular patients' sera, *J. Chromatography B*, 1143 (2020) 122054.
26. A selective and highly sensitive high performance liquid chromatography with fluorescence derivatization approach based on Sonogashira coupling reaction for determination of ethinyl estradiol in river water samples, *J. Chromatography A*, 1628 (2020) 461440.
27. Applicability of ninhydrin as a fluorescent reagent for estimation of teicoplanin in human plasma using salting-out assisted liquid–liquid extraction technique, *Luminescence* 2020, 1-7.



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28. A bio-analytically validated HPLC-UV method for simultaneous determination of doripenem and ertapenem in pharmaceutical dosage forms and human plasma: a dual carbapenem regimen for treatment of drug-resistant strain of *Klebsiella pneumoniae*, RSC Advances, 2021, 11, 3125.
29. A novel polymer integrated Vertically-Oriented reduced graphene oxide sheets supported over palladium nanoparticles based sensor for Real-Time monitoring of Sorafenib; a Multi-kinase inhibitor in complex biological samples, Microchemical Journal 180 (2022) 107549.
30. Emphasis on the incorporation of Tropaeolin OO dye and silver nanoparticles for voltammetric estimation of Flibanserine in bulk form, tablets and human plasma, Talanta 245 (2022) 123420.
31. Ultra-sensitive green spectrofluorimetric approach for quantitation of Hg(II) in environmental samples (water and fish samples) using cystine @MnO₂ dots, Luminescence 38 (2023) 145-151.
32. NiFe-based Prussian blue analogue nanopolygons hybridized with unfunctionalized glyoxal polymer as a voltammetric platform for the determination of amisulpride in biological samples, Analytical and Bioanalytical Chemistry, 2023, <https://doi.org/10.1007/s00216-023-04559-0>
33. Development of sensitive spectrofluorimetric approach based on formation of pyrrolidone derivative for determination of Linagliptin through condensation reaction with ninhydrin and phenylacetaldehyde: Application to content uniformity and real plasma, Luminescence, 2023
- 34- Zinc (II) complexation strategy for ultra-sensitive fluorimetric estimation of molnupiravir: Applications and greenness evaluation, Archiv der Pharmazie 2023, DOI: 10.1002/ardp.202300005
- 35- An Innovative Polymer-Based Electrochemical Sensor Encrusted with Tb Nanoparticles for the Detection of Favipiravir: A Potential Antiviral Drug for the Treatment of COVID-19, Biosensors 2023, 13, 243. <https://doi.org/10.3390/bios13020243>
- 36-Development of a highly sensitive and eco-friendly high-performance thin-layer chromatography approach for the determination of empagliflozin, pioglitazone, and rosuvastatin simultaneously in pharmaceutical preparations and different biological fluids, JPC – Journal of Planar Chromatography – Modern TLC, 36 (2023) 401-414, <https://doi.org/10.1007/s00764-023-00264-x>.



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- 37- Ruthenium nanoparticles encrusted with nitrogen & sulphur magnetic quantum dots as an efficient electrochemical sensor for simultaneous determination of itraconazole and terbinafine; a dual regimen for black fungus: Magnetic solid phase micro-extraction for urine and plasma analysis, *Microchemical Journal* 197 (2024) 109763.
- 38- Spectrofluorimetric determination of Alogliptin benzoate through condensation with ninhydrin and phenylacetaldehyde: application to dosage form and rat plasma. *Chem. Pap.* (2024). <https://doi.org/10.1007/s11696-024-03451-0>
- 39-A Highly Sensitive Inclusion Complex Based Spectrofluorimetric Method for the Determination of Certain Sodium Glucose Cotransporter-2 Inhibitors: Greenness Assessment and Application to Different Biological Fluids, *Luminescence* 39 (2024) e4917
- 40-An innovative electrochemical sensor for brinzolamide detection in athletes' urine using a mercury–phen complex: a step forward in anti-doping, *RSC Adv.*, 2024, 14, 34214
- 41- A novel electrochemical sensor based on collaborative performance enhancement of hybrid Acid Orange 10 polymer/Zirconium nanoparticles for first voltammetric determination of Istradefylline in plasma, *Microchemical Journal* 209 (2025) 112911
- 42- Advancing green and white assessment: DFT-assisted spectrofluorimetry for accurate favipiravir quantification in human plasma, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 336 (2025) 125983

6-Teaching Experience:

1. Teaching of Pharmaceutical Analytical Chemistry-1 course for first year Pharmacy students in Faculty of Pharmacy-Assiut University, Assiut, Egypt
2. Teaching Instrumental Analysis course for 2nd year (2nd Term) Pharmacy students in Faculty of Pharmacy-Assiut University, Egypt
3. Teaching Quality Control and Pharmaceutical analysis course for 4th year Pharmacy students (elective course) in Assiut University, Assiut, Egypt
4. Teaching Pharmaceutical Analytical Chemistry-2 for clinical Pharmacy student in Faculty of Pharmacy- Assiut University
5. Teaching Instrumental Analysis course PC407 for clinical Pharmacy student in Faculty of Pharmacy-Assiut University.



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6. Teaching Pharmaceutical Analytical chemistry-3 for 2nd year (1st Term) Pharmacy student in Faculty of Pharmacy- Assiut University
7. Teaching Advanced techniques for analysis course for master students, Faculty of Pharmacy, Assiut University
8. Teaching Extraction and cleanup methods & New trends in drug analysis courses for Ph.D. Students, Faculty of Pharmacy, Assiut University.
9. Teaching Chemical authentication, and drug & poison analysis courses for Forensic medicine Diploma, Faculty of Pharmacy, Assiut University
10. Teaching Identification and analysis of chemicals and quality control courses for Instrumental analysis and quality control Diploma, Faculty of Pharmacy, Assiut University.
11. Teaching Stability of Drugs & Separation techniques courses for PhD Students, Faculty of Pharmacy, Assiut University

7-Thesis Supervision:

1. Supervisor in Master thesis entitled with "Analytical study of some anti-epileptic drugs"
2. Supervisor in Ph.D. thesis entitled with "Analytical study of certain antimicrobial drugs in their pure forms, pharmaceutical formulations and biological fluids"
3. Supervisor in Master thesis by pharmacist Doaa Hassan, entitled with "Analytical study of certain anti-diabetic drugs with co-administered drugs in pharmaceutical dosage forms and biological fluids"
4. Supervisor in Master thesis by pharmacist Noha Gamal, entitled with "Analysis of recent anti-glaucoma drugs with co-administered drugs in pharmaceuticals and biological fluids".
5. Supervisor in Master thesis by pharmacist Aliaa Abdouh, entitled with "Analytical study of certain hazardous materials of pharmaceutical and environmental relevance in different matrices".
6. Supervisor in Master thesis by pharmacist Yomna Emad Eldin entitled with "Analysis of some anti-depressant drugs concomitantly either with certain anti-cancer or with proton pump inhibitor drugs in different matrices".
7. Supervisor in Master thesis by pharmacist/ Arwa Atef, entitled with "New analytical approaches for estimation of some anti-ischemic drugs in pharmaceutical preparations and biological fluids".



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8. Supervisor in Master thesis by pharmacist/ Nada Khaled, entitled with "Pharmacokinetic study of some anti-viral drugs using new analytical methods".
9. Supervisor in Master thesis by pharmacist/ Basma Hossiny, entitled with "New analytical methods for estimation of some antineoplastic drugs in pharmaceutical dosage forms and biological fluids".
10. Supervisor in Master thesis by pharmacist/ Mai Mohamed entitled with "Analytical study of some recently approved heart failure drugs with certain co-administered drugs in their pharmaceutical dosage forms and biological fluids".

8-Training Courses and Workshops:

A-Workshops held by Faculty and Leader Development Center (FLDC)

1. A workshop on "Effective Teaching" in Faculty and leader Development center-Assiut University From 7-11 May 2005
2. A workshop on "Teaching with Technology" in Faculty and Leader Development Center-Assiut University From 30 July-2 August 2005
3. A workshop on "Time management and work pressure" in Faculty and Leader Development Center-Assiut University From 17-20 September 2005
4. A workshop on "Thinking Skills" in Faculty and leader Development center-Assiut University From 1-3 July 2006
5. A workshop on "Effective Communication Skills" in Faculty and leader Development center-Assiut University From 10-12 July 2006
6. A workshop on "Legal Aspects of Universities" in Faculty and leader Development center-Assiut University From 18-20 November 2006
7. A workshop on "Time and meeting management" in Faculty and leader Development center-Assiut University From 17-20 September 2005
8. A workshop on "Effective Presentation" in Faculty and leader Development center-Assiut University From 16 -18 February 2008
9. A workshop on "Ethics of Scientific Research" in Faculty and leader Development center-Assiut University From 29-31 January 2008
10. A workshop on "Exam System and Student Evaluation" in Faculty and leader Development center-Assiut University From 26-28 February 2008



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11. A workshop on " Quality Standards in Teaching" in Faculty and leader Development center-Assiut University From 1-3 March 2008.
12. A workshop on "Profession Behavior" in Faculty and leader Development center-Assiut University From 15-17 March 2008.
13. A workshop on "Quality Standards in Teaching 1" in Faculty and leader Development center-Assiut University From 1-2 February 2015
14. A workshop on "Quality Standards in Teaching 2" in Faculty and leader Development center-Assiut University From 7-8 February 2015
15. A workshop on "Conference Organization" in Faculty and leader Development center-Assiut University From 19-20 September 2017
16. A workshop on "Scientific Researches funding and grants" in Faculty and leader Development center-Assiut University From 17-18 October 2017
17. A workshop on "Credit Hours System" in Faculty and leader Development center-Assiut University From 4-5 December 2018
18. A workshop on "Publishing Researches in Scientific Journals" in Faculty and leader Development center-Assiut University From 28-29 January 2019.
19. A workshop on "Principles of statistical analysis in scientific research" in Faculty and leader Development center-Assiut University From 15-16 January 2020.
20. A workshop on "How to Design the E-Course " in Faculty and leader Development center-Assiut University From 29-30 January 2023.
21. A workshop on "Biostatistical analysis in scientific research SPSS " in Faculty and leader Development center-Assiut University From 19-20 February 2023.
22. A workshop on "Application of Information Technology in Teaching" in Faculty and leader Development center-Assiut University From 1-2 October 2023
23. A workshop on "Preparing a Proposal for a competitive research project" in Faculty and leader Development center-Assiut University From 22-24 October 2023.
24. A workshop on " Fundamentals of Digital Transformation Certificate, 1 Module (Mobile Applications)" From 13-15 February 2024 in Faculty and leader Development center-Assiut University

B- Scientific Workshops



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1. A workshop on "Electroanalytical chemistry and its Pharmaceutical and Pharmacokinetic Applications" –Department of Pharmaceutical Analytical Chemistry- Faculty of Pharmacy, Assiut University from 13-14th December, 2018
2. A workshop on Thin Layer and High Performance Thin Layer Chromatography (TLC and HPTLC) Theory and Application in Drug Research Center-Assiut University on March 9th and 10th, 2019
3. A workshop on High Performance Liquid Chromatography (HPLC) a Research Tool for Versatile Application in Drug Research Center-Assiut University on April 20th and 21th, 2019.
4. "5 Basic Chromatography Tools for LC or LC/MS Method Development" on December 14, 2022, organized by Phenomenex.
5. "5 Habits That can make your LC methods more consistent" on 31 January 2023 organized by Phenomenex.
6. "High-Performance Liquid Chromatography (HPLC): Principles and Practice" workshop that place in March 15th and 16th, 2023 held on Drug Research Center, Assiut University.
7. "Exploring the power of HPTLC Advancement and Applications" workshop held on 9th-10th May, 2023 at Nawah Scientific.
8. "GC Chromatographic Tips and Tricks" on 9th April 2024 organized by Phenomenex.
9. "HPLC mobile Phase and Gradients" on 7th May 2024 organized by Phenomenex.
10. "Effortless Solid Phase Extraction (SPE) Method Development in a Single Experiment" on May 14, 2024, organized by Phenomenex.

C- Training Workshops

1. A workshop on " How to make an account in Google scholar and research gate", in IT Center–Faculty of Pharmacy, Assiut University on 26 November 2017
2. A workshop on " How to register to Egyptian Knowledge Bank", in IT Center – Faculty of Pharmacy, Assiut University on 7 March 2018
3. A workshop on " How to register to use Sci-Finder" in IT Center –Faculty of Pharmacy, Assiut University on 19 September 2018
4. A workshop on "How to use Mendeley Program" in IT Center –Faculty of Pharmacy, Assiut University on 18 November 2018



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5. A workshop on "Prezi presentation" in IT Center –Faculty of Pharmacy, Assiut University on 22 November 2018
6. A workshop on "Using Endnote to insert Citations and Create a Bibliography", 13th March 2019
7. Automatic Correction using “OMR” Program on November 8, 2021, organized by IT Unit, Faculty of Pharmacy, Assiut University, Assiut, Egypt.
8. A workshop on Apply for funding for research projects held on 15 September 2022 in FLDC center-Assiut University.
9. “Open Access for Egypt – What you Need to Know in 2023 from How to Publish your Article and Get Funded to Nature Newly Introduced” held on February 1, 2023, organized by STDF and EKB, Egypt

9- Editorial and Reviewing:

- Reviewer for: Microchimica Acta, Analyst, Journal of Applied electrochemistry, Microchemical Journal, Spectrochimica Acta Journal, Analytical sciences, Luminescence Journal, Journal of Planar Chromatography, Bulletin of Pharmaceutical Sciences, Assiut University.

10-Activities in academic society and community

- Member of Egyptian Syndicate of Pharmacist and Japan Society of Analytical Chemistry
- Member of the Committee of Library at Faculty of Pharmacy, Assiut University.
- Member of the Committee of Development of Postgraduate Courses, and Committee of Courses Development – Pharmaceutical Analytical Chemistry Department at Faculty of Pharmacy, Assiut University
- Member of the Committee of Scientific Research – Pharmaceutical Analytical Chemistry Department at Faculty of Pharmacy, Assiut University