

Curriculum Vitae (CV)

Miriam Farid Ayad Ayad, PhD.

Associate Professor

Analytical Chemistry Department,
Faculty of Pharmacy, Ain Shams University, Egypt.



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dr.miriamayad@yahoo.com,

Address: Analytical Chem. Dept., Faculty of Pharmacy, Ain Shams
University, African Union Organization St., 11566, El
Abbassia-Cairo, Egypt.

CURRENT POSITION: Associate Professor, Analytical Chemistry Department, Faculty of
Pharmacy, Ain Shams University.

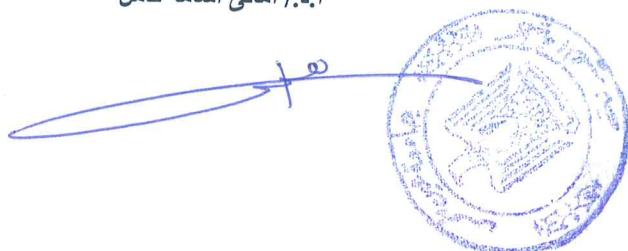
EDUCATION: **PhD., "Philosophy Doctor Degree of Pharmaceutical Sciences", 2009.**
Analytical Chemistry Dept.-Faculty of Pharmacy- Ain Shams University.
"Physicochemical investigation of some amino containing drugs"

MSc., "Master Degree of Pharmaceutical Sciences", June, 2004.
Analytical Chemistry Dept -Faculty of Pharmacy-Ain Shams University.
"Analytical study on some antibiotics"

BSc., Bachelor of Pharmaceutical Sciences, May, 1995
Faculty of Pharmacy, Cairo University, with general grade Excellent
"Honors"

عميد الكلية

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SUMMARY OF EXPERTISE:

- Topics in Good Manufacturing practice.
- Application of different analytical techniques for the determination of active pharmaceutical ingredients in the presence of their degradation product(s) and in the presence of other drugs in combined dosage forms. These techniques include;
- Different spectrophotometric methods such as colorimetry, derivative and derivative-ratio spectrophotometry, ratio subtraction, modification for the ratio subtraction method and mean centering spectrophotometric methods.
- Different spectrofluorimetric methods such as normal fluorescence spectrometry, enhanced fluorescence spectrometry, double scan synchronous fluorescence spectrometry, technique of simultaneous equations (Vierodt's method)
- Different chromatographic methods such as TLC-densitometry and HPLC.
- Monitoring of the degradation profile of the active pharmaceutical ingredients and kinetic studies.
- Potentiometric determination of active pharmaceutical ingredients using different sensors.
- Different chemometric – assisted spectrophotometric methods; chemometrics-assisted ratio spectra derivative method using moving window polynomial least square fitting method (Savitzky-Golay filters).
- Optimization of the reaction conditions of analytical methods by experimental design.
- Preparation of nanoparticles for application in advanced pharmaceutical analysis and trace analysis of contaminants in different environmental matrices.

CAREER:

- Demonstrator of analytical chemistry (1996-Mar.2004).
- Assistant lecturer of analytical chemistry (2004- 2009).
- Lecturer of analytical chemistry (2010 -2015).
- Associate Professor of analytical chemistry (2015 –till now).

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TEACHING EXPERIENCE:

A- UNDER-GRADUATE LEVEL:

- Participated as a demonstrator and assistant lecturer in teaching all practical courses of quantitative analytical chemistry, instrumental methods of analysis, inorganic chemistry, physical chemistry and food and cosmetic analysis for undergraduate students, Faculty of pharmacy- Ain Shams University.
- Participated as a lecturer and Associate Professor in teaching theoretical and supervising the practical courses of quantitative analytical chemistry, instrumental methods of analysis, inorganic chemistry, physical chemistry and food and cosmetic analysis for undergraduate students, Faculty of pharmacy- Ain Shams University.

B- POST GRADUATE LEVEL:

- Participated in teaching practical courses for postgraduate students for Analytical Chemistry Department- Faculty of Pharmacy-Ain Shams University
- Participated as a lecturer and Associate Professor in teaching some selected topics including “Green Chemistry course” and supervising the practical courses for postgraduate students for Analytical Chemistry Department- Faculty of Pharmacy-Ain Shams University

SUPERVISION OF M.Sc. AND Ph.D. THESES:

- **Completed**
Master Theses: (six), Ph.D. Theses: (four).
- **Theses under preparation:**
Master thesis: (six), Ph.D. Theses: (three)

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MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS:

- Egyptian Syndicate of Pharmacists
- Egyptian National Nanotechnology Network
- Egyptian Pharmaceutical Society.

TRAINING COURSES AND WORKSHOPS:

- 1- **“Educational session for demonstrators and assistant lecturers”** -Ain Shams University- September – 1998.
- 2- **“Applications of IR and FTIR in analysis”**, Central Laboratory, Faculty of Science -Ain Shams University- June – 1997.
- 3- **Training workshop entitled “Student Evaluation”** by Quality Assurance Unit, Faculty of Pharmacy, Ain Shams University, March 2012.
- 4- **Training workshop on “operation of Shimadzu Spectrofluorophotometer RF-6000 and its applications in analysis”** Faculty of Pharmacy- Ain Shams University- February-2017.
- 5- **Training workshop entitled “New Teaching strategies for Better Adult Learning Practice”** Faculty of Pharmacy- Ain Shams University- April-2018.
- 6- **Training workshop entitled “Microfabricatin Electrochemical Perspective”**, Faculty of Pharmacy, Ain Shams University, March 2019.
- 7- **Training workshop entitled “Analytical Biotechnology: QC of Biopharmaceuticals”**, Faculty of Pharmacy- Ain Shams University- May-2019.
- 8- **Training workshop entitled “Foundations of Teaching Excellence in Pharmacy Education”**, sponsored by EKB & Knowledge E as a part of ‘2020 Teaching Excellence in Pharmacy Education Program’, April 2020.
- 9- **Training workshop entitled “Developing a Modern Competency Based Pharmacy Program”**, sponsored by EKB & Knowledge E as a part of ‘2020 Teaching Excellence in Pharmacy Education Program’, June 2020
- 10- **Training workshop entitled “Curriculum Approach & Delivery”** sponsored by EKB & Knowledge E as a part of ‘2020 Teaching Excellence in Pharmacy Education Program’, September 2020
- 11- **Training workshop entitled “Using LMS Moodle”** organized by central unit for E-learning- Ain Shams University, October 2020
- 12- **Training workshop entitled “Question Banks”** organized by central unit for assessment & evaluation- Ain Shams University, October 2020

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- 13- Training workshop entitled “*Assessment, Evaluation, and Continuous Quality Improvement*” sponsored by EKB & Knowledge E as a part of ‘2020 Teaching Excellence in Pharmacy Education Program’, October 2020
- 14- Training workshop entitled “*Experiential & Interprofessional Education*” sponsored by EKB & Knowledge E as a part of ‘2020 Teaching Excellence in Pharmacy Education Program’, November 2020
- 15- Training workshop entitled “*Quality control and GLP in pharmaceutical industry (Between regulations and applications)*”, Faculty of Pharmacy- Ain Shams University- February-2021.
- 16- Training workshop entitled “*Assessment & evaluation methods and question banks for the medical sector*” Within the national system for electronic tests- May 2021.
- 17- Training workshop entitled “*LC-MS; Basics & Applications*” Faculty of Pharmacy, Ain Shams University, May 2021.
- 18- Training workshop entitled “*Strategic Approach to Change Management in Pharmacy Education*” sponsored by EKB & Knowledge E as a part of ‘2021 Advanced Teaching Excellence in Pharmacy Education’, June 2021.
- 19- Courses of Faculty and Leadership Development Project (FLDP) -Ain Shams University
 - *Effective Presentation Skills, 2006.*
 - *Professional ethics and morals, 2006.*
 - *Use of Technology in Teaching, 2008.*
 - *Legal & Financial Aspects in University Environment, 2009.*
 - *International Publishing of Research ,2009.*
 - *Conference Organization, 2009.*
 - *Competitive research projects, 2015.*
 - *Professional ethics and morals, 2015.*
 - *E-learning using Moodle, 2019*
 - *Effective Presentation Skills, 2019.*
 - *Scholarly Publishing in Indexed Journals (JCR and Scopus), 2019.*
 - *Strategic Planning, 2019.*
 - *Credit hours and academic counselling, 2019*
 - *Negotiation and persuasion skills, 2020*

SCIENTIFIC ACTIVITIES:

i. Reviewer for International Journals

- Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy
- AOAC INTERNATIONAL
- Portugaliae Electrochimica Acta (PEA)

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رئيس قسم الكيمياء التحليلية

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- Bulletin of Faculty of Pharmacy, Cairo University (BFOPCU)
- Journal of Chromatographic Science.

ii. Conference organization and attendance

- **The 17th SCIENTIFIC CONGRESS OF THE ASSOCIATION OF COLLEGES OF PHARMACY IN THE ARAB WORLD**; Hosted and organized by Faculty of Pharmacy, Ain Shams University as its first international conference and entitled “ **New Trends in Drug Discovery, Development and Pharmacy Practice**”, October 14th-16th, 2014.

A poster was presented, under the title:

“TLC densitometric method for the simultaneous determination of Octinoxate, Oxybenzone and Octocrylene in Sunscreen Formulations”

Maha F. Abdel-Ghany, Omar Abdel-Aziz, Miriam F. Ayad and Neven N. Mikawy

- **21st SCIENTIFIC CONGRESS OF THE ASSOCIATION OF COLLEGES OF PHARMACY IN THE ARAB WORLD**; Hosted and organized by Faculty of Pharmacy, Ain Shams University as its second international conference and entitled “**Future Trends In The Development Of Pharmaceutical Education And Research**”, November 13th – 15th, 2018.

A poster was presented, under the title; “Stability Indicating HPLC Method for Determination of Certain UV-filters in Presence of their Acid, Alkaline and Oxidative Degradates”

Maha F. Abdel- Ghany, Omar Abdel-Aziz, Miriam F. Ayad and Neven N. Mikawy.

- **The 1st Nanotechnology International Conference held on 10-13th December 2018.**

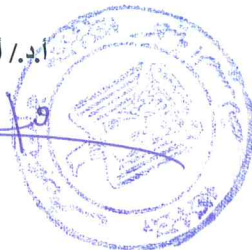
- **Biologics and Biosimilars Symposium held on 9-12th March 2020 at School of Pharmacy – New Giza University**

A poster was presented, under the title; “Biosimilarity assessment of rituximab and Comparability evaluation of glycol-engineering effect on the pattern and kinetics of degradation of Obinutuzumab using orthogonal testing protocol.”

Eman M. Moenes, Medhat A.Al-ghobashy, Marianne N. Morcos , Yossra A. Trabik, Miriam F. Ayad

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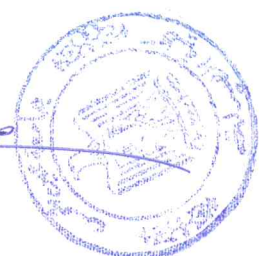

iii. Research Projects:

- **Principle Investigator of the research project entitled “Green nanotechnology approaches in water purification: evaluation of the effectiveness of functionalized carbon dots in detection and removal of antibiotic residues in water sources”** funded by the sector of community affairs and environment development, 2018-2020, Ain Shams University.
- **Co- Principle Investigator of the research project entitled “Environmental pollution in Egypt: development of sensitive analytical methods for determination and elimination of pollutants”** funded by the sector of postgraduate studies and research, 2018-2020, Ain Shams University.

OTHER PROFESSIONAL ACTIVITIES:

- A member of Peer Reviewers team of the Journal of Faculty of Pharmacy, Ain Shams University; entitled “**Archives Of Pharmaceutical Sciences**”
- Head of Evaluation of Educational Effectiveness Committee in Quality Assurance Unit, Faculty of Pharmacy, Ain Shams University
- Responsible for preparing the documents and following up the implementation of two of the accreditation standards
 - Education and Learning
 - Students and Graduates.
- A member of the “**Editorial Committee**” of The 17th **SCIENTIFIC CONGRESS OF THE ASSOCIATION OF COLLEGES OF PHARMACY IN THE ARAB WORLD**; Hosted and organized by Faculty of Pharmacy, Ain Shams University as its first international conference and entitled “**New Trends in Drug Discovery, Development and Pharmacy Practice**”, October 14th-16th, 2014.
- A member of the “**IT Committee and Scientific Committee**” of 21st **SCIENTIFIC CONGRESS OF THE ASSOCIATION OF COLLEGES OF PHARMACY IN THE ARAB WORLD**; Hosted and organized by Faculty of Pharmacy, Ain Shams University as its second international conference and entitled “**Future Trends In The Development Of Pharmaceutical Education And Research**”, November 13th – 15th, 2018.
- **Deputy Director of Quality Assurance Unit, Faculty of Pharmacy, Ain Shams University (2018-May 2021).**
- **Director of Quality Assurance Unit, Faculty of Pharmacy, Ain Shams University (June 2021).**

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LIST OF PUBLICATIONS

Publications abstracted from master thesis (3):

1-Colorimetric and Spectrofluorimetric Determination of gentamicin and Tobramicin in Pure, Dosage Forms and in Mixture with Dexamethazone .

Amira M. El –Kosasy, Maha F. Abdel-Ghany, Miriam.F.Ayad and Laila E. Abd El-Fattah

Bull. Fac. Pharm. Cairo Univ. 2003, 41,(1): 89-108

2-Spectrophotometric and spectrofluorimetric determination of gentamicin and tobramicin using 1,4-benzoquinone

Maha F. Abdel-Ghany, Amira M. El –Kosasy, Miriam.F.Ayad and Laila E. Abd El-Fattah:

Bull. Fac. Pharm. Cairo Univ.2003, 41(1) : 69-88.

3-TLC and Scanning Densitometric Method for Determination of Gentamicin and Tobramicin in Pure, Dosage Forms and in Mixture with Dexamethazone

Amira M. El –Kosasy, Maha F. Abdel-Ghany, Miriam.F.Ayad and Laila E. Abd El-Fattah

Bull. Fac. Pharm. Cairo Univ. 2003,41(2) : 169- 177.

Publications abstracted from Ph.D thesis (2):

4-Spectrophotometric and potentiometric determination of the stability constant of pyrazinamide - Fe(III) binary complex.

Omar A. Ghonim, Amira M. El kosasy, Miriam.F.Ayad and Laila E.Abdel-Fattah

Analytical Chemistry An Indian Journal 2011,10 (3): 164-169.



5-Inclusion complexes and photo-stability studies of pyrazinamide with cyclodextrins :Spectrophotometric and kinetic determination of stability constant

Omar A. Ghonim , Amira M. El kosasy, Miriam.F.Ayad and Laila E.Abdel-Fattah

Analytical Chemistry An Indian Journal 2011 ,10 (3): 170-178.

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Publications after appointment as lecturer of analytical chemistry

6-Comparative study of calix[4]arene, 18-crown-6-ether and beta cyclodextrin as ionophores in miniaturized sensors for the determination of pazufloxacin mesylate: Application to pharmaceutical formulation and human plasma

***Miriam F. Ayad**, Nehad A. Abdallah and Amira M. El-Kosasy*

Journal of Pharmacy Research 2013, 6 (5): 520 -526.

7- HPLC and Densitometric TLC Methods for Simultaneous Determination of Pazufloxacin with Some Co-administered Drugs in Human Plasma

*Nehad A. Abdallah, **Miriam F. Ayad** and Amira M. El-Kosasy*

Journal of Chromatography & Separation Techniques 2012, 3:161 doi:10.4172/2157-7064.1000161.

8-Validation of different spectrophotometric methods for determination of vildagliptin and metformin in binary mixture

*Maha F. Abdel-Ghany, Omar A. Ghonim, **Miriam F. Ayad** and Mariam M. Tadros* **Spectrochimica**

Acta Part A: Molecular and Biomolecular Spectroscopy 2014,125 : 175–182.

9-A Novel Potentiometric Detection Strategy for the Determination of Amlodipine Besylate Based on Functionalized Particles

*Amira M. El-Kosasy, Shereen M. Tawakkol, **Miriam F. Ayad**, and Ahmed I. Sheta* **Electroanalysis**

2014, 26(5) : 1031–1038.

10-Stability-Indicating Liquid Chromatographic Method for Determination of Saxagliptin and Structure Elucidation of the Major Degradation Products Using LC–MS

*Maha F. Abdel-Ghany, Omar A. Ghonim, **Miriam F. Ayad** and Mariam M. Tadros*

Journal of Chromatographic Science 2015, 53 (4): 554-564.

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11-Compatible validated spectrofluorimetric and spectrophotometric methods for determination of vildagliptin and saxagliptin by factorial design experiments”

Omar A. Ghonim, Miriam F. Ayad, Mariam M. Tadros

Spectrochimica Acta Part A Molecular and Biomolecular Spectroscopy 2015, 140: 229–240.

12-Two smart spectrophotometric methods for the simultaneous estimation of Simvastatin and Ezetimibe in combined dosage form

Nancy Magdy and Miriam F. Ayad

Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 2015, 137: 685–691.

13-Application of New Spectrofluorometric Techniques for Determination of Atorvastatin and Ezetimibe in Combined Tablet Dosage Form

Miriam F. Ayad and N. Magdy

Chemical and Pharmaceutical Bulletin. 2015, 63:443–449.

14-New methods for amlodipine and valsartan native spectrofluorimetric determination, with factors optimization study

Amira M. El-Kosasy, Shereen M. Tawakkol, Miriam F. Ayad and Ahmed I. Sheta

Talanta 2015, 143: 402–413

15-Optimization of Extraction, HPLC and Kinetic Studies for Determination of Some Food Tainting Compounds in Different Food Matrices

Amira M. El-Kosasy, Lobna A. Hussin, Miriam F. Ayad and Nermine V. Fares

Journal of Chromatographic Science 2015; doi: 10.1093/chromsci/bmv046



16-Simultaneous Determination of Octinoxate, Oxybenzone, and Octocrylene in a Sunscreen Formulation Using Validated Spectrophotometric and Chemometric Methods

Omar Abdel- Aziz, Miriam F. Ayad, & Neven N. Mikawy

Journal of AOAC International Vol. 98, No. 5, 2015, 1215.

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17- Adding the effect of functionalized particles to increase Amlodipine ion selective electrode sensitivity based on precipitation technique.

Amira M. El-Kosasy, Shereen M. Tawakkol, Miriam F. Ayad and Ahmed I. Sheta

Conference: **3rd International Congress on Nanoscience & Nanotechnology**
(ICNT2015) At: Istanbul, Turkey Jul 2015.

Publications after appointment as Associate Professor of analytical chemistry

18-Pharmaceutical analysis of linagliptin and empagliflozin using LC-MS/MS

Maha F. Abdel-Ghany, Omar Abdel-Aziz, Miriam F. Ayad, Mariam M. Tadros

Der Pharma Chemica, 2016, 8(17):186-189

19-Investigation of different spectrophotometric and chemometric methods for determination of entacapone, levodopa and carbidopa in ternary mixture.

Maha Abdel-Ghany, Lobna Hussein, Miriam F. Ayad, Menatallah Youssef

Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy.107(2017)236–245

20-New LC–UV methods for pharmaceutical analysis of novel anti-diabetic combinations.

M.F.Abdel- Ghany, O. Abdel-Aziz, Miriam F. Ayad, M.M. Tadros,.

Published Online: March 07, 2017 **Acta Chromatographica,**

<https://doi.org/10.1556/1326.2016.00089>

21-Comparative study between multivariate and univariate analysis of two antidiabetic combinations

Maha F. Abdel-Ghany, Omar Abdel-Aziz, Miriam F. Ayad & Mariam M. Tadros

Journal of AOAC International, 2017, 100(5), pp. 1379–1391. DOI: 10.5740/jaoacint.16-0314

22-Enhanced LC–MS/MS analysis of alogliptin and pioglitazone in human plasma: Applied to a preliminary pharmacokinetic study.

Maha F. Abdel-Ghany, Miriam F. Ayad & Mariam M. Tadros

Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences,

2017, 1058, pp. 93–101. <https://doi.org/10.1016/j.jchromb.2017.04.043>

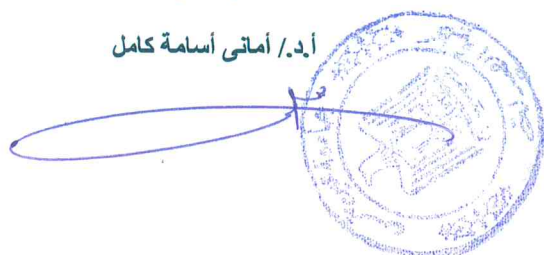
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23-A mini review of spectrophotometric and chromatographic analysis and bioanalysis of selected recently approved anti-diabetic combinations.

M.F.Abdel- Ghany, Miriam F. Ayad, M.M.Tadros

Research Journal of Pharmacy and Technology, 2017, 10(9), pp. 3161–3172.

DOI: 10.5958/0974-360X.2017.00563.7

24-Mimicking new receptors based on molecular imprinting and their application to potentiometric assessment of 2,4-dichlorophenol as a food taint.

Amira M. El- Kosasy, Ayman H.Kamel, L.A. Hussin, Miriam F. Ayad, Nermine.V. Fares

Food Chemistry, 2018,250: 188–196

25-Sensitive Synchronous Spectrofluorimetric Study of Certain Sunscreens Using Fluorescence Enhancers in Cosmeceutical Formulations

Maha F. Abdel-Ghany, Miriam F. Ayad and Neven N. Mikawy

Journal of Fluorescence, 2018, 28(2), pp. 491–504. <https://doi.org/10.1007/s10895-017-2206-z>

26-HPLC Method for Simultaneous Determination of Bisphenol-A-Diglycidyl Ether and Some of Its Reaction Products in Canned Foods Using Photodiode Array Detector

Amira M El- Kosasy, Omar Abdel-Aziz, Miriam F. Ayad and Ola M Mabrouk

Journal of Chromatographic Science, Volume 56, Issue 10, 1 November 2018, Pages 920–932.

27-Validated chemometrics-assisted spectrophotometric methods for simultaneous determination of bisphenol-A-diglycidyl ether and some of its reaction products in canned foods in the Egyptian market.

Amira M.El-Kosasy, Miriam F.Ayad and Ola M. Mabrouk

Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Volume 203, 5 October 2018, Pages 443-449.

28-Liquid chromatographic and spectrofluorimetric assays of empagliflozin: Applied to degradation kinetic study and content uniformity testing.

Maha F. Abdel-Ghany, Miriam F. Ayad and Mariam M. Tadros

Luminescence, Volume33, Issue5, August 2018, Pages 919-932.

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- 29-Validated Univariate and Multivariate Spectrophotometric Methods for Simultaneous Determination of Pioglitazone and Glimpiride in their Binary Mixture and in Tablet Preparation
Safa'a M. Riad, Miriam F. Ayad, Mona H. Abdel Rahman and Dina Atef
Analytical Chemistry Letters, May 2019, Pages 234-247
- 30-Sensitive derivative synchronous and micellar enhanced ecofriendly spectrofluorimetric methods for the determination of atenolol, diclofenac and triclosan in drinking tap water
Nardine Safwat, Maha F. Abdel-Ghany and Miriam F. Ayad
Journal of AOAC INTERNATIONAL, Volume 104, Issue 1, January-February 2021, Pages 103–112. <https://doi.org/10.1093/jaoacint/qsaa100>
- 31-Analytical comparability study of anti-CD20 monoclonal antibodies rituximab and obinutuzumab using a stability-indicating orthogonal testing protocol: Effect of structural optimization and glycoengineering.
Yossra A. Trabik, Eman M. Moenes, Medhat A. Al-Ghobashy, Marianne Nebsen, Miriam F. Ayad
Journal of Chromatography B 1159 (2020) 122359
- 32-Potentiometric Carbon Quantum Dots-Based Screen-Printed Arrays for Nano-Tracing Gemifloxacin as a Model Fluoroquinolone Implicated in Antimicrobial Resistance
Miriam F. Ayad, Yossra A. Trabik, Mona H. Abdelrahman, Nermine V. Fares and Nancy Magdy
Chemosensors 2021, 9 (1), 8. <https://doi.org/10.3390/chemosensors9010008>
- 33-In situ Monitoring of Triclosan in Environmental Water with Subnanomolar Detection Limits Using Eco-friendly Electrochemical Sensors modified with cyclodextrins
Nardine Safwat, Amr M. Mahmoud, Maha Abdelghany and Miriam F. Ayad
Environmental Science: Processes & Impacts, 2021. <https://doi.org/10.1039/D0EM00387E>
- 34-Influence of Nitrogen-Doped Carbon Dot and Silver Nanoparticle Modified Carbon Paste Electrodes on the Potentiometric Determination of Tobramycin Sulfate: A Comparative Study
Nermine Fares, Passant M. Medhat, Christine M. El Maraghy, Sherif Okeil, Miriam F. Ayad
Chemosensors March 2021, DOI: [10.3390/chemosensors9030052](https://doi.org/10.3390/chemosensors9030052)

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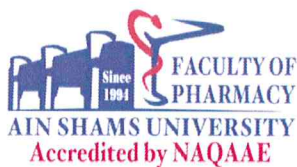
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Miriam F. Ayad, PhD.



كلية الصيدلة
كلية معتمدة

35-Determination of Fungicides' residues and Their Degradation Kinetics in Orange Tree Fruits using Liquid Chromatography – Tandem Mass Spectrometry Coupled with QuEChERS Method.

Nermine V. Fares, Yasmineen A. A. Hassan, Lobna A. Hussein, Miriam F. Ayad

Microchemical Journal <https://doi.org/10.1016/j.microc.2021.106376>

36-A comprehensive Stability Assessment of Insulin degludec using New customized validated RP-HPLC and SEC-HPLC methods in an orthogonal testing protocol.

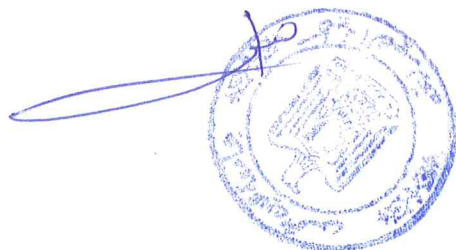
Eman A. Abdelwaly, Abeer A. Mohamed, Amira M. El- Kosasy & Miriam F. Ayad

Journal of Pharmaceutical and Biomedical Analysis, 31 May 2021, 114175

<https://doi.org/10.1016/j.jpba.2021.114175>

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