# C.V.

## Personal Data

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| **Name** | **:** | Tamer Zekry Attia Shehata |
| **Date of Birth** | **:** | 26 December 1982 |
| **Place of Birth** | **:** | Minia – Egypt |
| **Citizenship** | **:** | Egyptian |
| **Gender** | **:** | Male |
| **Marital State** | **:** | Married |
| **Military Service** | **:** | Finally Exempted |
| **Occupation** | **:** | Associate professor in Analytical Chemistry Department, Faculty of Pharmacy, Minia University, Egypt. |
| **Mailing Address** | **:** | 9 portsaid street, minia, Egypt. |
| **Tel. No.** | **:** | 0862343287 |
| **Mobil No.** | **:** | 01091229126 |
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## Qualification

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|---|---|
| **Doctor of Philosophy** | In pharmaceutical Sciences (Analytical Chemistry), Faculty of Pharmacy, Minia University (April 2014).<br>**Title:** Analytical Study of Certain Central Nervous System Acting Drugs. |
| **Master Degree** | In pharmaceutical Sciences (Analytical Chemistry), Faculty of Pharmacy, Minia University (May 2008).<br>**Title:** Kinetic Spectrophotometric and Spectrofluorimetric Determination of Certain Cephalosporins In pure Form and Pharmaceutical Formulations |

## ***Previous Designations***

- Specially appointed associate professor at Osaka University, Japan from July 2019 to November 2019.
- Visiting Foreign Researcher at Osaka University, Japan from February 2018 to August 2018.
- Member of Channel System (Joint Supervision) Mission for studying Ph.D degree at Osaka University, Japan from December 2011 to December 2013.
- Assistant Lecturer in Analytical Chemistry Department, Faculty of Pharmacy, Minia University, Egypt from May 2008 to December 2011.
- Demonstrator in Analytical Chemistry Department, Faculty of Pharmacy, Minia University, Egypt from October 2004 to May 2008.

## ***Advanced Courses***

- International IBT TOEFL (August 2011)
- Analysis of Research Results 2005, presented by Prof Dr. Ezzat M. Hassan.
- Ten Training Courses in faculty and leadership development project (FLDP) 2006-2014.

## ***Foreign Languages***

- English: Excellent command in English, reading, writing, speaking and listening.
- French: Fair background.
- Japanese: Fair background.

## ***Work Experiences***

- Head of the training unit in faculty of pharmacy, minia university.
- Basic skills in synthesis, isolation and purification of human liver enzymes cytochrome P450 and kinetic analysis of metabolism of pharmaceutical drugs by these enzymes.

- Spectrophotometric, Spectrofluorimetric and Chromatographic techniques (HPLC, UPLC, column chromatography and preparative TLC) for qualitative and quantitative analysis of drugs in its pure form, pharmaceutical dosage form and human plasma.
- Development and validation of new analytical methods for quantitation of wide range of pharmaceutical drugs in their pure form and biological fluids

## Degrees (dissertation, title, year, and place)

### **6.1.1.** Higher Education (Start from the latest one)

| Degree | Field | Location | Name of University / Institution | Completion Date (Month, Year) |
|---|---|---|---|---|
| **Associate professor** | Analytical Chemistry | Minia/Egypt | Minia University/ Faculty of Pharmacy | 07, 2020 |
| **PhD** | Analytical Chemistry | Minia/Egypt | Minia University/ Faculty of Pharmacy | 04, 2014 |
| **Master** | Analytical Chemistry | Minia/Egypt | Minia University/ Faculty of Pharmacy | 04, 2008 |
| **Bachelor** | Pharmaceutical Sciences | Minia/Egypt | Minia University/ Faculty of Pharmacy | 05, 2004 |

**6.1.2.** Carrier (Start from the latest one)

| Name of Institution | Location | Position | From – To |
|---|---|---|---|
| Faculty of Pharmacy | Minia University, Egypt | Associate Professor | 06, 2020 up till now |
| Faculty of Pharmacy | Minia University, Egypt | Assistant Professor | 11, 2019 up till 06, 2020 |
| Graduate school of Pharmaceutical Science | Osaka University, Suita Campus, Japan | Specially appointed assistant professor | 07,2019 up 11, 2019 |
| Faculty of Pharmacy | Minia University, Egypt | Assistant Professor | 06, 2014 up 07,2019 |
| Faculty of Pharmacy | Minia University, Egypt | Assistant Lecturer | 05, 2008 - 06, 2014 |
| Faculty of Pharmacy | Minia University, Egypt | Demonstrator | 10, 2004 - 05, 2008 |

## ***Teaching Experiences***

- Teaching and supervising the practical courses of qualitative analytical chemistry (Cations and Anions)
- Teaching and supervising postgraduate students (master and PhD students) at faculty of pharmacy, Minia university, Egypt.
- Teaching and supervising the practical courses of quantitative analytical chemistry for the undergraduate students (Acid base titration, Gravimetric analysis, and Preciptimetric analysis) in faculty of pharmacy, Minia University, Egypt.
- Teaching the theoretical and practical courses of pharmaceutical analytical chemistry (Redox titration, Spectroscopy, Spectrofluorimetry, Chromatographic Analysis) for clinical pharmacy students in faculty of pharmacy, Minia University.
- Participation in the practical and theoretical books for student in faculty

of pharmacy, Minia University, Egypt.

- Teaching the practical course of quality control for the undergraduate students in faculty of pharmacy, Minia University, Egypt.

## ***List of Publications***

1. Sayed M. Derayea, Shrouk G. Abdulrazik, Tamer Z. Attia, Utilizing erythrosine B absorption spectrum shifts for quantitative determination of octreotide and bromocriptine in their pure forms and pharmaceutical formulations. Evaluation of the method greenness, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 325, 2025, 125051.
2. Tamer Z. Attia , Shrouk G. Abdulrazik , Sayed M. Derayea, Greenness and practicality assessment of innovative TLC approach for facile determination of hepatorenal syndrome combination therapy "octreotide and midodrine": Application to pharmaceuticals, plasma, and urine, Journal of Molecular Liquids, 417, 2025, 126666.
3. Tamer Z. Attia, Asmaa Mohamed Abbas , Deena A.M. Nour El-Deen, Abobakr A. Mohamed , Mahmoud A. Omar, Enhancement of sensitivity for moxifloxacin spectrofluorimetric analysis through photoinduced electron transfer inhibition. Green assessment with application to pharmaceutical eye drops, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 326, 2025, 125201.
4. Sayed M. Derayea, Shrouk G. Abdulrazik, Tamer Z. Attia, Quantitative spectrofluorimetric method for determination of octreotide acetate synthetic peptide derivative in pure and its Sandostatin ampules forms, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Volume 305,2024, 123546, ISSN 1386-1425.
5. Ahmed Faried Abdel Hakiem, John M. Boushra, Deena A. M. Noureldeen, Adel S. Lashien, Tamer Z. Attia, Response surface experimental design for simultaneous chromatographic determination of two antiviral agents "Favipiravir and Remdesivir" in pharmaceuticals and spiked plasma samples, 38 (8), 2024, e3548.
6. Abdelmajed, M.A., El-Din, K.M.B., **Attia, T.Z.** et al. Condensation methodology for quantification of Polymyxin B fluorimetrically: application to pharmaceutical formulations and greenness assessment. BMC Chemistry 18, 105 (2024).

7. Omar MA, Khojah HMJ, Al Thagfan SS, Alolayan SO, **Attia TZ.** A highly sensitive spectrofluorimetric method for the determination of bilastine in human plasma: Application of content uniformity testing. Luminescence. 2024 Jul;39(7):e4816
8. Mahmoud A. Omar, Mahmoud A.H. Moustafa, Mohammed Almaghrabi, Ahmed K.B. Aljohani, **Tamer Z. Attia**, Validated spectrofluorimetric method for determination of cyproheptadine in pharmaceutical formulation and human plasma. Application to content uniformity test,Results in Chemistry,Volume 7,2024,101341, ISSN 2211-7156
9. Abdel Hakiem, A.F., Boushra, J.M., Noureldeen, D.A.M. Adel S. Lashien and **Tamer Z. Attia.** Nano-fluorescent quantum dots as substrates for determination of ribavirin in pharmaceuticals and human plasma as well as monitoring of its kinetic interaction with salmon sperm DNA. J Anal Sci Technol 14, 26 (2023).
10. Abdulrazik SG, **Attia TZ**, Derayea SM. The first spectrofluorimetric protocol for sensitive quantitative analysis of bromocriptine in its pure and pharmaceutical forms: evaluation of the greenness of the method. RSC Adv. 2023 Dec 8;13(50):35733-35740.
11. A novel spectrofluorimetric method for determination of lomefloxacin adopting on zinc(II) chelation strategy: Application in human plasma. **Tamer Z Attia,** Mahmoud A Omar, Deena A M Nour El-Deen, Asmaa Mohamed Abbas, Abobakr A Mohamed. Luminescence 2022; 37(2):255-262.
    Doi: 10.1002/bio.4168.
12. Green innovative fluorescence approach for the feasible and reliable assay of thiol-containing drugs; captopril as a model. Sayed M. Derayea, Dalia M. Nagy, Khalid M. Badr El-Din, **Tamer Z. Attia,** Ebtihal Samir, Abobakr A. Mohamed and Ahmed A. Hamad. ***RSC Adv.***, 2022,**12**, 17607-17616
13. Sensitivity improvement for spectrofluorimetric determination of commonly used antifungal drug ‘nystatin’: application for oral suspension. **Tamer Z. Attia,** Huda H. Saied, Deena A. M. Nour El-Deen, Yaser M. Alahmadi, Mahmoud A. Omar. Luminescence. 2022; 37:134–140. (https://doi.org/10.1002/bio.4154)
14. Spectrofluorimetric determination of the anti-Covid 19 agent, remdesivir, in vials and spiked human plasma. **Tamer Z Attia,** John M

Boushra, Ahmed F Abdel Hakiem, Adel S Lashien, Deena A M Noureldeen. Luminescence.2022;1–8.
DOI: 10.1002/bio.4274

15. Novel environment friendly TLC-densitometric method for the determination of anti-coronavirus drugs "Remdesivir and Favipiravir": Green assessment with application to pharmaceutical formulations and human plasma. Deena A.M. Noureldeen, John M. Boushra b, Adel S. Lashien, Ahmed F. Abdel Hakiem, **Tamer Z. Attia.** Microchemical Journal 2022; 174: 107101.
Doi: 10.1016/j.microc.2021.107101.
16. Selective Spectrofluorimetric Protocol for Determination of Commonly Used Gram-negative Bactericidal Drug in Combined Pharmaceutical Dosage Forms and Human Plasma. **Tamer Z. Attia,** Mahmoud A. Abdelmajed, Mahmoud A. Omar, Khalid M. Badr El-Din. Journal of Fluorescence 2022; 32: 603–612.
https://doi.org/10.1007/s10895-021-02862-6.
17. Salvage parenteral antibiotics for multidrug-resistant (MDR) Gram-negative bacteria; a fluorescamine-based technique for ultrasensitive spectrofluorimetric measurement of Polymyxins; human plasma application. Khalid M. Badr El-Din, Mahmoud A. Abdelmajed, Mahmoud A. Omar, **Tamer Z. Attia**. Luminescence. 2022; 37:971–979.
https://doi.org/10.1002/bio.4245
18. Green spectrofluorimetric determination of salmeterol xinafoate in its pure forms, medicinal commercial formula, and human plasma: Application for stability studies. Mahmoud A Omar, Dalia M Nagy, Hoda S Ahmed, **Tamer Z Attia.** Luminescence 2021; 36(4):937-942.
Doi: 10.1002/bio.4019.
19. The first spectrofluorimetric approach for quantification of colistin sulfate and its prodrug colistimethate sodium in pharmaceutical dosage form and human plasma. Khalid M. Badr El-Din, Mahmoud A. Abdelmajed, Mahmoud A. Omar, **Tamer Z. Attia.** Luminescence. 2021; 36:1249–1256.
DOI: 10.1002/bio.4050.
20. Effect of Drug Combination on Omeprazole Metabolism by Cytochrome P450 2C19 in Helicobacter pylori Eradication Therapy. **Tamer Z. Attia**,

Taku Yamashita, Hirofumi Tsujino, Sayed M. Derayea, Yasuo Tsutsumi, Tadayuki Uno. Chem. Pharm. Bull. 67 (2019) 810–815.
DOI: 10.1248/cpb.c19-00084.

21. A highly sensitive fluorimetric protocol based on isoindole formation for determination of gabapentin. **Tamer Z. Attia**, Mohamed Elnady, Sayed M. Dearyea, RSC Advances 9 (2019) 29942.
DOI: 10.1039/C9RA06164A.
22. Isoindole based fluorophore for the sensitive fluorimetric determination of isobutyl gamma amino butyric acid. Sayed M. Derayea, **Tamer Z. Attia**, Mohamed Elnady, Dalia M. Nagy, Microchemical Journal 150 (2019) 104143.
DOI: https://doi.org/10.1016/j.microc.2019.104143.
23. The Utility of Acetylbutyrolactone for Spectrofluorimetric Determination of Two Gamma-Aminobutyric Acid (GABA) Analogues. Sayed M. Derayea, **Tamer Z. Attia**, Mohamed Elnady, J. Adv. Biomed. & Pharm. Sci. 1 (2018) 1- 7.
24. Development of spectrofluorimetric method for determination of certain antiepileptic drugs through condensation with ninhydrin and phenyl acetaldehyde. Sayed M. Derayea, Tamer Z. Attia, Mohamed Elnady, Spectrochimica Acta part A: Molecular and Biomolecular spectroscopy 204 (2018) 48 -54.
DOI: 10.1016/j.saa.2018.06.027.
25. Spectrofluorimetric determination of certain adrenergic agonist drugs in their pure forms and pharmaceutical formulations: Content uniformity test application. Khalid M. Badr El-Din and **Tamer Z. Attia**. *Luminescence.* 32(5):706-712. 2017.
DOI: 10.1002/bio.3240.
26. Spectrofluorimetric protocol for antidepressant drugs in dosage forms and human plasma through derivatization with dansyl chloride. Mahmoud A. Omar, Osama H. Abdelmageed, Sayed M. Derayea, **Tamer Z. Attia**. Arabian Journal of Chemistry. 10(2): S3197- S32106. 2017.
DOI: https://doi.org/10.1016/j.arabjc.2013.12.015.
27. Simultaneous determination of rutin and ascorbic acid mixture in their pure forms and combined dosage form. **Tamer Z. Attia**. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy.* 169: 82–86. 2016.

DOI: 10.1016/j.saa.2016.06.030.

28. Spectrofluorimetric determination of thioridazine and flupentixol in dosage forms; application to content uniformity test. **Tamer Z. Attia** and Mahmoud A. Omar, *Luminescence.* 31(5):1091-1097. 2016.
DOI: 10.1002/bio.3076.

29. Effect of Cytochrome P450 2C19 and 2C9 Amino Acid Residues 72 and 241 on Metabolism of Tricyclic Antidepressant Drugs. **Tamer Zekry Attia**, Taku Yamashita, Mohamed Abdelkhalek Hammad, Akinori Hayasaki, Takumi Sato, Masayoshi Miyamoto, Yuki Yasuhara, Takashi Nakamura, Yusuke Kagawa, Hirofumi Tsujino, Mahmoud Ahmed Omar, Osama Hassan Abdelmageed, Sayed Mohamed Derayea, and Tadayuki Uno. *Chem. Pharm. Bull.* 62(2): 176–181. 2014.
DOI: https://doi.org/10.1248/cpb.c13-00800

30. Spectrofluorimetric determination of certain antidepressant drugs in human plasma. Mahmoud A Omar, Osama H Abdelmageed, Sayed M Derayea, Tadayuki Uno and **Tamer Z Atia**, Journal of Analytical Science and Technology, 4:5 (2013).
DOI: https://doi.org/10.1186/2093-3371-4-5

31. Comparison of Cytochrome P450 Mediated Metabolism of Three Central Nervous System Acting Drugs. **Tamer Zekry Attia**, Taku Yamashita, Masayoshi Miyamoto, Atsushi Koizumi, Yuki Yasuhara, Jun-ichi Node, Yumi Erikawa, Yumi Komiyama, Chiaki Horii, Mayu Yamada, Mahmoud Ahmed Omar, Osama Hassan Abdelmageed, Sayed Mohamed Derayea, and Tadayuki Uno. *Chem. Pharm. Bull.* 60(12): 1544–1549. 2012.
DOI: https://doi.org/10.1248/cpb.c12-00719

32. Kinetic Spectrofluorimetric determination of certain cephalosporins in human plasma. Mahmoud A. Omar, Osama H. Abdelmageed and **Tamer Z. Attia**, Talanta 77 (4): 1394-1404.
DOI: 10.1016/j.talanta.2008.09.040

33. Kinetic Spectrophotometric determination of certain cephalosporins in pharmaceutical formulations Mahmoud A. Omar, Osama H. Abdelmageed and **Tamer Z. Attia**, International journal of analytical chemistry, volume 2009. Article ID 596379, 12 pages. 2009
DOI: http://dx.doi.org/10.1155/2009/596379