

Curriculum vitae

Samar Hafez Abbas Amin

Professor of Pharmaceutical Chemistry, Medicinal Chemistry Department, Faculty of Pharmacy, Minia University, Minia, Egypt.

E-mail:

samar_hafez@mu.edu.eg

drsamar77@hotmail.com.com

Telephone **01005424005**

• h index	13 (Web of Science)	15 (Google Scholar)
• Citations	633 (Web of Science)	871 (Google Scholar)

Education

Professor	November 2024
Assistant Professor	July 2019
Ph.D	Medicinal Chemistry 2014, Department of Medicinal Chemistry, Faculty of pharmacy, Minia University. Thesis entitled " Synthesis, Anti-proliferative, Anti-inflammatory, and Molecular Docking Studies of New Heterocycles and Their Open Chain Analogs Derived from Furan-2(3H)-one "
M.Sc	Medicinal Chemistry 2005, Department of Medicinal Chemistry, Faculty of pharmacy, Minia University. Thesis entitled " Design and Synthesis of certain new heterocyclic compounds of potential biological activities "
B.Sc.	Pharmaceutical Sciences, Cairo University (Beni Suef, Egypt)- very good with degree of honor, May 1999.

Employment History

- Professor, Medicinal Chemistry Department, Faculty of Pharmacy, Minia University: from November 2024 till present
- Assistant professor, Medicinal Chemistry Department, Faculty of Pharmacy, Minia University: from July 2019 till November 2024.
- Lecturer, Medicinal Chemistry Department, Faculty of Pharmacy, Minia University: from May 2014 till July 2019.
- Assistant Lecturer, Medicinal Chemistry Department, Faculty of Pharmacy, Minia University, 2013 -2014.
- Assistant Lecturer, Medicinal Chemistry Department, Faculty of Pharmacy, Nahda University, 2008 -2013.
- Researcher, Medicinal Chemistry Department, Faculty of Pharmacy, Minia University, 2000 -2005.

Scientific Activities:**a- Teaching Experience**

1. Teaching and supervising the practical courses of Organic Chemistry and Medicinal Chemistry for the undergraduate students (first & second, third, and fourth year) in Faculty of Pharmacy, Nahda University- Minia University
2. Teaching the theoretical courses of Organic Chemistry for the undergraduate students (first & second year) in Faculty of Pharmacy, Minia University
3. Teaching the theoretical courses of Pharmaceutical Chemistry for the undergraduate students (third & fourth year) in Faculty of Pharmacy, Minia University
4. Teaching the theoretical courses of Organic Chemistry for clinical pharmacy students (organic I, organic II and organic III) in Faculty of Pharmacy, Minia

University

5. Teaching the theoretical courses of Pharmaceutical Chemistry for clinical pharmacy students (medicinal chemistry 1, medicinal chemistry 2) in Faculty of Pharmacy, Minia University
6. Teaching the theoretical courses (Medicinal Chemistry -1, 2 & 3) Nahda University.
7. Participation in the practical and theoretical books for clinical pharmacy students (first and second level), Faculty of Pharmacy, Minia University
8. Participation in the practical and theoretical books for undergraduate students (first, second, third and fourth year), Faculty of Pharmacy, Minia University.
9. Oral examiner for undergraduate students in faculties of pharmacy (Beni-Suef, Nahda, Ain Shams, Assiut, Deraya and El-Minia Universities).

b- Supervision of Graduate Students:

Master thesis	9
PhD thesis	9

c-Sharing in Conferences:

- The 2nd international conference on pharmaceutical biological sciences and applied chemistry, Faculty of pharmacy, Deraya University in association with International Society of Applied Chemistry and Community Development ICAC (5th conference, Hurghada, 10 to 13 September 2022).
- The 1st international conference on pharmaceutical biological sciences and applied chemistry, Faculty of pharmacy, Deraya University (Online, 15 to 16 February 2021).

Publications:

1. Fatma Fouad Hagar, **Samar H Abbas**, Ahmed M Sayed, Hesham AM Gomaa, Bahaa GM Youssif, Dalia Abdelhamid, Mohamed Abdel-Aziz. "New antiproliferative 1, 3, 4-oxadiazole/benzimidazole derivatives: Design, synthesis, and biological evaluation as dual EGFR and BRAFV600E inhibitors. ", *Bioorganic Chemistry* 157 (2025) 108297.
2. Fatma Fouad Hagar, **Samar H Abbas**, Eman Atef, Dalia Abdelhamid, Mohamed Abdel-Aziz. "Benzimidazole scaffold as a potent anticancer agent with different mechanisms of action (2016–2023).", *Molecular Diversity* 29 (2025) 1821–1849.
3. Adel Mohamed Abdelhakem, El-Shimaa Abdelhafez, **Samar H Abbas**, Sara Abdel Hafez, Walaa Yehia Abdelzaher, Omar M Aly. "A novel approach for apoptosis and caspase-3 inhibition using new candidates of 1, 5-Diaryl triazole-3-carboxamides.", *Octahedron Drug Research* 5 (2024) 64-75.
4. Mostafa M. Badran, **Samar H. Abbas**, Hiroshi Tateishi, Yuki Maemoto, Tsugumasa Toma, Akihiro Ito, Mikako Fujita, Masami Otsuka, Mohamed Abdel-Aziz, Mohamed O. Radwan. "Ligand-based design and synthesis of new trityl histamine and tritylcysteamine derivatives as SIRT2 inhibitors for cancer therapy.", *European Journal of Medicinal Chemistry* 269 (2024) 116302.
5. Hend A.A. Ezelarab, Amer Ali Abd El-Hafeez, Taha F.S. Ali, Ahmed M. Sayed, Heba A. Hassan, Eman A.M. Beshr, **Samar H. Abbas**. "New 2-oxoindole derivatives as multiple PDGFR α/β and VEGFR-2 tyrosine kinase inhibitors.", *Bioorganic Chemistry* 145 (2024) 107234.

6. Mostafa A. Mansour, Asmaa M. AboulMagd, **Samar H. Abbas**, Mohamed Abdel-Aziz, Hamdy M. Abdel-Rahman. "Quinazoline-chalcone hybrids as HDAC/EGFR dual inhibitors: Design, synthesis, mechanistic, and in-silico studies of potential anticancer activity against multiple myeloma.", Arch. Pharm. 357 (2024) e2300626.
7. Mostafa A. Mansour, **Samar H. Abbas**, Asmaa M. AboulMagd, Hamdy M. Abdel-Rahman, Mohamed Abdel-Aziz. "The significance of quinazoline derivatives as potential multi-target anti-cancer agents: review article.", Journal of Advanced Biomedical and Pharmaceutical Sciences 7 (2024) 1- 17.
8. Hend A. A. Ezelarab, Taha F. S. Ali, **Samar H. Abbas**, Ahmed M. Sayed, Eman A. M. Beshr, Heba A. Hassan. "New Anti-proliferative 3-Substituted Oxindoles Inhibiting EGFR/VEGFR-2 and Tubulin Polymerization." Molecular Diversity 28 (2024) 563–580.
9. Mostafa Badran, **Samar H Abbas**, Mikako Fujita, Mohamed Abdel-Aziz. "Derivatives contain dimethylaminopyridine as SIRT2 inhibitors: A mini review.", Journal of Advanced Biomedical and Pharmaceutical Sciences 6 (2023) 166 - 173.
10. Hend A. A. Ezelarab, Heba A. Hassan, **Samar H. Abbas**, Taha F. S. Ali, Eman A. M. Beshr. "The main biotargets of indole or 2-oxoindole-based hybrids acting as promising antiproliferative agents.", Journal of Advanced Biomedical and Pharmaceutical Sciences 6 (2023) 174 - 183.
11. Fatma Fouad Hagar, **Samar H. Abbas**, Hesham A. M. Gomaa, Bahaa G. M. Youssif, Ahmed M. Sayed, Dalia Abdelhamid, Mohamed Abdel-Aziz. "Chalcone/1,3,4-Oxadiazole/Benzimidazole hybrids as novel anti-proliferative agents inducing apoptosis and inhibiting EGFR & BRAF^{V600E}.", BMC Chemistry 17 (2023) 116.

12. Hend A. A. Ezelarab, Taha F. S. Ali, **Samar H. Abbas**, Heba A. Hassan, Eman A. M. Beshr. "Indole-based FLT3 inhibitors and related scaffolds as potential therapeutic agents for acute myeloid leukemia.", *BMC Chemistry* 17(2023) 73.
13. Mostafa Badran, **Samar H Abbas**, Mikako Fujita, Mohamed Abdel-Aziz. "Harnessing pyrimidine as a building block for histone deacetylase inhibitors.", *Archiv der Pharmazie* 356 (2023) e2300208.
14. Mostafa A. Mansour, Asmaa M. AboulMagd, **Samar H. Abbas**, Hamdy M. Abdel-Rahman, Mohamed Abdel-Aziz. "Insights into fourth generation selective inhibitors of (C797S) EGFR mutation combating non-small cell lung cancer resistance: a critical review.", *RSC Advances* 13 (2023) 18825–18853.
15. Fatma Hagar, **Samar Abbas**, Ahmed Sayed, Dalia Abdelhamid, Mohamed Abdel-Aziz. "New Oxadiazole/ Benzimidazole Hybrids: Design, Synthesis, and Molecular Docking Studies.", *Journal of Advanced Biomedical and Pharmaceutical Sciences* 6 (2023) 97-106.
16. Hend A. A. Ezelarab, Heba A. Hassan, Gamal El-Din A. Abuo-Rahma, **Samar H. Abbas**. "Design, synthesis, and biological investigation of quinoline/ciprofoxacin hybrids as antimicrobial and anti-proliferative agents.", *Journal of the Iranian Chemical Society* (2023) 20:683–700.
17. Fatma Fouad Hagar, **Samar H. Abbas**, Dalia Abdelhamid, Hesham A. M. Gomaa, Bahaa G. M. Youssif, Mohamed Abdel-Aziz. "New 1,3,4-oxadiazole-chalcone/benzimidazole hybrids as potent antiproliferative agents.", *Archiv der Pharmazie* 356 (2023) e2200357.
18. Hamada H. H. Mohammed, Doaa Mohamed Elroby Ali, Mohamed Badr, Ahmed G. K. Habib, Abobakr Mohamed Mahmoud, Sarah M. Farhan, Shimaa Salah Hassan Abd El Gany, Soad A. Mohamad, Alaa M. Hayallah,

- Samar H. Abbas**, Gamal El-Din A. Abuo-Rahma. "Synthesis and molecular docking of new N4-piperazinyl ciprofloxacin hybrids as antimicrobial DNA gyrase inhibitors.", *Molecular Diversity* 27 (2023) 1751–1765.
19. Hamada H. H. Mohammed, Amer Ali Abd El-Hafeez, Kareem Ebeid, Aml I. Mekawy, Mohammed A. S. Abourehab, Emad I. Wafa, Suhaila O. Alhaj-Suliman, Aliasger K. Salem, Pradipta Ghosh, Gamal El-Din A. Abuo-Rahma, Alaa M. Hayallah, **Samar H. Abbas**. "New 1,2,3-triazole linked ciprofloxacin-chalcones induce DNA damage by inhibiting human topoisomerase I & II and tubulin polymerization.", *Journal of Enzyme Inhibition and Medicinal Chemistry* 37 (2022) 1346–1363.
20. Hend A. A. Ezelarab, **Samar H. Abbas**, Mohammed A. S. Abourehab, Mohamed Badr, Sanya Sureram, Poonpilas Hongmanee, Prasat Kittakoo, Gamal El-Din A. Abuo-Rahma, Heba A. Hassan. "Novel antimicrobial ciprofloxacin-pyridinium quaternary ammonium salts with improved physicochemical properties and DNA gyrase inhibitory activity.", *Medicinal Chemistry Research* 30 (2021) 2168–2183.
21. Hamada H.H. Mohammed, **Samar H. Abbas**, Alaa M. Hayallah, Gamal El-Din A. Abuo-Rahma, Yaser A. Mostafa. "Novel urea linked ciprofloxacin-chalcone hybrids having antiproliferative topoisomerases I/II inhibitory activities and caspases-mediated apoptosis.", *Bioorganic Chemistry* 106 (2021) 10442.
22. Hossameldin A. Aziz, Gamal A. I. Moustafa, Gamal El-Din A. Abuo-Rahma, Safwat M. Rabea, Glenn Hauk, Vagolu S. Krishna, Dharmarajan Sriram, James M. Berger, **Samar H. Abbas**. "Synthesis and antimicrobial evaluation of new nitric oxide-donating fluoroquinolone/oxime hybrids.", *Archiv der Pharmazie* 354 (2021)

e2000180.

23. Hamada H. H. Mohammed, **Samar H. Abbas**, El-Shimaa M. N. Abdelhafez, James M. Berger, Satoshi Mitarai, Masayoshi Arai, Gamal El-Din A. A. Abuo-Rahma. "Synthesis, molecular docking, antimicrobial evaluation, and DNA cleavage assay of new thiadiazole/oxadiazole ciprofloxacin derivatives.", *Monatshefte für Chemie - Chemical Monthly* 150 (2019) 1809–1824.
24. Hossameldin A. Aziz, Gamal A. I. Moustafa, **Samar H. Abbas**, Glenn Hauk, Vagolu Siva Krishna, Dharmarajan Sriram, James M. Berger, Gamal El-Din A. Abuo-Rahma. "New fluoroquinolones/nitric oxide donor hybrids: design, synthesis and antitubercular activity.", *Medicinal Chemistry Research* 28 (2019) 1272–1283.
25. Hamada H.H. Mohammed, El-Shimaa M.N. Abdelhafez, **Samar H. Abbas**, Gamal A.I. Moustafa, Glenn Hauk, James M. Berger, Satoshi Mitarai, Masayoshi Arai, Rehab M. Abd El-Baky, Gamal El-Din A. Abuo-Rahma. "Design, synthesis, and molecular docking of new N-4-piperazinyl ciprofloxacin-triazole hybrids with potential antimicrobial activity.", *Bioorganic Chemistry* 88 (2019) 102952.
26. Hamada H.H. Mohammed, Gamal El-Din A.A. Abuo-Rahma, **Samar H. Abbas**, El-Shimaa M.N. Abdelhafez. "Current Trends and Future Directions of Fluoroquinolones.", *Current Medicinal Chemistry*, 26 (2019) 3132 – 3149.
27. Marwa Ali A. Fathia, Amer Ali Abd El-Hafeezb, Dalia Abdelhamida, **Samar H. Abbas**, Monica M. Montano, Mohamed Abdel-Aziz, "1,3,4-oxadiazole/chalcone hybrids: Design, synthesis, and inhibition of leukemia cell growth and EGFR, Src, IL-6 and STAT3 activities." *Bioorganic Chemistry* 84 (2019) 150–163.

28. **Samar H. Abbas**, Amer Ali Abd El-Hafeez, Mai E. Shoman, Monica M. Montano, Heba A. Hassana, "New quinoline/chalcone hybrids as anti-cancer agents: Design, synthesis, and evaluations of cytotoxicity and PI3K inhibitory activity." *Bioorganic Chemistry* 82 (2019) 360–377.
29. Gamal El-Din A. Abuo-Rahma, **Samar H. Abbas**, Mai E. Shoman, Ebtihal Samir, Rehab M. Abd El-Baky, "New N-4 piperazinyl derivatives of norfloxacin: design, synthesis, and correlation of calculated physicochemical parameters with antibacterial activity." *Turkish Journal of Chemistry* 42 (2018) 1072 – 1085.
30. Hend A. A. EzelArab, **Samar Hafez Abbas**, Heba A. Hassan, Gamal El-Din A.A. Abuo-Rahma, "Recent updates of fluoroquinolones as antibacterial agents." *Archiv der Pharmazie* 351(2018) 1800141.
31. Hend. A. A. Ezelarab, Heba. A. Hassan, **Samar. H. Abbas**, Rehab M. Abd El-Baky, Gamal El-Din. A. Abuo-Rahma, "Design, Synthesis and Antifungal Activity of 1,2,4-Triazole and 1,3,4- Oxadiazole-ciprofloxacin hybrids.", *Journal of Advanced Biomedical and Pharmaceutical Sciences* 1 (2018) 78-84.
32. Fatma F. Ahmed, Amer Ali Abd El-Hafeez, **Samar H. Abbas**, Dalia Abdelhamid, Mohamed Abdel-Aziz, "New 1,2,4-triazole-Chalcone hybrids induce Caspase-3 dependent apoptosis in A549 human lung adenocarcinoma cells." *European Journal of Medicinal Chemistry* 151 (2018) 705-722.
33. Hossameldin Ali Aziz, Gamal Abdeltawab Idris Mosustafa, **Samar Hafez Abbas**, Sayed Mohamed Derayea, Gamal El-Din A.A. Abuo-Rahma, "New Norfloxacin /Nitric Oxide Donor Hybrids: Synthesis and Nitric Oxide Release Measurement using Modified Griss Colorimetric Method." *European Journal of Chemistry* 8 (2) (2017) 119-124.

34. Hamada H.H. Mohammed, Amer Abd El-Hafeez, **Samar Hafez Abbas**, El-Shimaa M.N. AbdelHafez, Gamal El-Din A.A. Abuo-Rahma, "New antiproliferative 7-(4-(N-substituted carbamoylmethyl) piperazin-1-yl) derivatives of ciprofloxacin induce cell cycle arrest at G2/M phase.", *Bioorganic & Medicinal Chemistry* 24 (2016) 4636–4646.
35. **Samar Hafez Abbas**, Gamal El-Din A.A. Abuo-Rahma, Mohamed Abdel-Aziz, Omar M. Aly, Eman A. Beshr, Amira M. Gamal-Eldeen, "Synthesis, cytotoxic activity, and tubulin polymerization inhibitory activity of new pyrrol-2(3H)-ones and pyridazin-3(2H)-ones.", *Bioorganic Chemistry* 66 (2016) 46–62.

Posters

1. Hend A A Ezelarab, **Samar H. Abbas**, Heba A Hassan, Gamal El-Din A Abuo-Rahma "Antimicrobial and Anti-proliferative Activities of New Quinoline/ Ciprofloxacin Hybrids" Abstracts of papers of the 2nd international conference on pharmaceutical biological sciences and applied chemistry, Faculty of pharmacy, Deraya University in association with International Society of Applied Chemistry and Community Development ICAC, Egypt, September 2022.
2. Hamada Mohammed, El-Shimaa Abdelhafez, **Samar H. Abbas**, Gamal Moustafa, Kevin Dalby, Tamer Kaoud, Glenn Hauk, James Berger, Satoshi Mitarai, Masayoshi Arai, Gamal El-Din Abuo-Rahma "*Design, synthesis, molecular docking and antimicrobial activity of New 7-(4-(2-((1,2,4-triazol-3-yl)thio)acetyl)piperazin-1-yl) derivatives of ciprofloxacin*" Abstracts of papers of the American Chemical Society meeting no. 255, New Orleans, LA, USA, March 2018.

3. Hamada Mohammed, **Samar H. Abbas**, El-Shimaa Abdelhafez, Gamal Moustafa, Kevin Dalby, Tamer Kaoud, Glenn Hauk, James Berger, Satoshi Mitarai, Masayoshi Arai, Gamal El-DinAbuo-Rahma “*Design, synthesis and molecular modeling of new N-4-piperazinyl ciprofloxacin thiadiazole derivatives with antimycobacterial activity*” Abstracts of papers of the American Chemical Society meeting no. 255, New Orleans, LA, USA, March 2018.
4. **Samar H. Abbas**, Mai E. Shoman, Kevin N. Dalby, Tamer S. Kaoud and Heba A. Hassan. “Design, synthesis and cytotoxicity of new quinoline/oxime hybrids” Abstracts of papers of the American Chemical Society meeting no. 255, New Orleans, LA, USA, March 2018.
5. Amer Ali Abd El-Hafeez, Heba A. Hassan, Samar H. Abbas, Toru Hosoi, Koichiro Ozawa, Mai E. Shoman. “New Quinoline/Chalcone Hybrids induce G2/M cell cycle arrest and apoptosis in A549 and K-562 cells via PI3K/Akt/mTOR pathway inhibition” Abstracts of papers of Nano Info Chemistry Symposium no. 14, Hiroshima, Japan, *December* 2017.

References:

Prof. Mohamed Abdel-Aziz M. Othman (Minia University)

Tel: +20- (0)10-0331-1327. E-mail: abulnil@hotmail.com

Prof. Gamal El-Din A.A. Abuo-Rahma (Minia University, Egypt)

Tel: +20- (0)10-0306-9431. E-mail: gamal.aborahama@mu.edu.eg

Links

1- Google scholar

<https://scholar.google.com/citations?hl=en&user=zmBoAKYAAAAJ>

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<https://www.researchgate.net/profile/Samar-Abbas-4>

4- Orchid

<https://orcid.org/0000-0002-9586-2644>