

Curriculum Vitae

Prof. Dr. Marwa Sayed Salem Khalil



(I) Personal Data:

- 1- **Name:** Marwa Sayed Salem Khalil
- 2- **Current Position:**
professor of organic Chemistry, Chemistry Department, Faculty of Science, Ain Shams University
- 3- **Date and Place of Birth:** August 14th 1981, Cairo, Egypt.
- 4- **Nationality:** Egyptian
- 5- **Marital Status:** Married
- 6- **Address:** Chemistry Department, Faculty of Science, Ain Shams University, Abbasiya, Cairo, Egypt.
- 7- **Postal code:** 11566
- 8- **Tel.:** (+202) 0224909458
- 9- **Mobile Phone No:** (+2) 01228011576
- 10- **E-mail:** s_s_marwa@yahoo.com; marwa_k@sci.asu.edu.eg
- 11- **Permenant Position:** Professor of Synthetic Organic Chemistry, Faculty of Science, Ain Shams University, Cairo, Egypt.
- 12- **Personal Sites**
Research Gate https://www.researchgate.net/profile/Marwa_Salem8
Google Scholar <https://scholar.google.com/citations?user=QFfxISgAAAAJ&hl=en>
Scopus <https://www.scopus.com/authid/detail.uri?authorId=55620428900>
ORCID <http://orcid.org/0000-0001-7237-6451>

(II) Academic Qualifications

- 1- B.Sc. in Special Degree of Chemistry (Very good), Ain Shams University, Egypt in 2002.
- 2- M.Sc. in Organic Chemistry, Ain Shams University, Egypt In 2006.

- 3- Ph.D. in Organic Chemistry, Ain Shams University, Egypt In 2009.

(III) Academic and Professional Positions

- 1- Demonstrator in Chemistry Department, Faculty of Science, Ain Shams University, Egypt since 2003.
- 2- Assistant Lecturer of Organic Chemistry, Faculty of Science, Ain Shams University, Egypt since 2006.
- 3- Lecturer of Organic Chemistry, Faculty of Science, Ain Shams University, Egypt since 2009.
- 4- Associate professor of Organic Chemistry, Faculty of Science, Ain Shams University, Egypt since 2016.
- 5- Professor of Organic Chemistry, Faculty of Science, Ain Shams University, Egypt since 2021.

(IV) Conferences:

- 1- 11th International Chemistry conference And Exhibition in Africa (11 ICCA) Egypt- luxor, 20-23 November 2010.
- 2- The 4th international conference of Chemical Industries Research Division on Chemical Industries:" Role and future Aspects" National Research Center, Cairo, Egypt. Nov. 30 - Dec. 2nd, 2010.
- 3- International Conference on Chemical Sciences & Applications Alex. Egypt 6-9 Aug 2016.

(V) Appreciation Awards:

□ Holds an International Publications Award from the University of Ain Shams, 2010, 2012, 2013, 2014, 2015, 2016, 2018, 2019, 2020, 2021 and 2022.

(VI) Academic Activities

- *Member of the Quality Assurance Unit*
- *Teaching Experiences:*

Teaching the following academic theoretical and practical courses for undergraduate students

A- Theoretical Courses:

1	Organic and inorganic chemistry	Level 1 Geophysics' petrol Students, Faculty of Science, Ain Shams University
2	Agrochemistry	B.Sc. ⁴ th year applied chem. Students Faculty of Science, Ain Shams University
3	Environmental chemistry	B.Sc. ⁴ th year Biochemistry/ chemistry& Physics/ chemistry Students. Faculty of Science, Ain Shams University
4	Petroleum	B.Sc. ³ rd year Microchemistry/ chemistry& zoo/ chemistry & Botany/chemistry& Entomology/chemistry Students. Faculty of Science, Ain Shams University
5	Photochemistry	Post graduate students, Faculty of Science, Ain Shams University
6	Reaction mechanism	B.Sc. ³ rd year major chem. Students, Faculty of Science, Ain Shams University
7	Aromatic mono-functional compounds	Level 2 major chem. Students, Faculty of Science, Ain Shams University
8	Aromatic poly-functional compounds	Level 2 major chem. Students, Faculty of Science, Ain Shams University

B-Practical Courses:

1	Practical Organic Chemistry, Synthesis and Quantitative Analysis	B.Sc. ⁴ th year major chem. Students Faculty of Science, Ain Shams University
2	Identification & Investigation of Organic Mixtures	³ rd year major chem. Students, Faculty of Science, Ain Shams University
3	Functional Groups, Detection and Identification	² nd year major chem. & biology students, Faculty of Science, Ain Shams University
4	Acidic & Basic Radicals of Inorganic salts	¹ st year students, Faculty of Science, Ain Shams University
5	Practical Organic Chemistry	Pre-pharmacy and pre-dental students. Faculty of Science, Ain Shams University

6	The Experimental Part of Chemistry Course (Acidic & Basic Radicals of Inorganic salts)	¹ st year students, Thebes Higher Institute for Engineering,
---	--	---

(VII) Training

- ☐ International computer driving license (ICDL)
- ☐ Courses of ICTP (Information and Communication Technology Project) Ain Shams University.
- ☐ Attendance of training programs in communication skills, research skills, teaching skills, presentation skills, thinking skills, the use of technology in teaching, the ethics of scientific research, the credit hours and Quality assurance at Ain Shams University. Courses of FLDP (Faculty and Leadership Developing Project)
- ☐ Successfully passing the course university teacher preparation at Ain Shams University in 2007.
- ☐ Attendance of training the Leadership Development Institute for Leadership Development Helwan, the Ministry of Higher Education, 2006.

(VIII) Skills

Computer Skills:

- ☐ Microsoft Office
- ☐ Internet
- ☐ Photoshop

Language Skills:

- ☐ Native language Arabic.
- ☐ English (successfully passed local TOEFL with scores 637).
- ☐ German (German has participated course of 400 lessons with success).

(IX) Research Interests and Creative Works:

My researching main interests focus on the synthesis and reactions of wide variety of Heterocyclic Compounds (Thienopyrimidines, Coumarins Chromones, Oxazones, Benzopyran, Pyridones, Pyrazoles, and γ -Keto acid) then evaluated the synthesized compounds for antifungal, antibacterial, antiviral and anticancer activities.

Results have been reported in some international journals of chemistry in 34 articles and have been presented as posters at numerous international conferences.

- i More than ten M.Sc. students and eight PhD students have been successfully awarded under my supervision.
- ii Many Masters and Ph.D's graduate students are still working under my supervision in the above mentioned topics.

(X) Current Research Work:

The current research provides the scientific community with some non-reported heterocyclic systems of anticipated promising biological activities that could be considered as a scaffold for manufacturing new medicinal agents.

التحكيم:

أولاً: تحكيم حالات ترقية أساتذة و أساتذة مساعدين في المراكز البحثية:

م	اسم الطالب	جهة العمل	الدرجة المتقدم لها
1	نسرين محمود مرسى محمد	المركز القومي للبحوث	أستاذ باحث
2	أحمد سلامه محمد محمد رمضان	المركز القومي للبحوث	أستاذ باحث
3	د.أشرف أحمد صديق زياده	دكتوراة الفلسفة في العلوم في الكيمياء	أستاذ باحث

ثانياً: رسائل ماجستير ودكتوراة تم تحكيمها في كلية العلوم جامعة عين شمس:

م	اسم الطالب	الدرجة العلمية	السنة
1	أسماء عمر أبو القاسم الرايس	دكتوراة الفلسفة في العلوم في الكيمياء	2016
2	منار رمضان عبد الجابر سليمان	الماجستير	2017
3	الشيماء عمر على محمود	دكتوراة الفلسفة في العلوم في الكيمياء	2017
4	صفاء ماهر هارون	دكتوراة الفلسفة في العلوم في الكيمياء	2018
5	سليمة علي محمد المبروك	دكتوراة الفلسفة في العلوم في الكيمياء	2018
6	تامر على عادل محمد سليمان خلوصي	دكتوراة الفلسفة في العلوم في الكيمياء	2020
7	سمر مسعد محمد علي	الماجستير	2022

ثالثاً : محكم للبحوث المقدمة للنشر في بعض المجلات العلمية الدولية:

No.	عنوان البحث	اسم المجلة	السنة
1	Pyridine derivatives as preferable scaffolds for the process of discovering new drugs	Chemistry Africa(CHAF)	2022
2	Synthesis of Some Fused Heterocyclic Compounds Containing Pyrazole Ring as Anticancer Precursors	Polycyclic Aromatic Compounds	2019
3	Deep eutectic solvent mediated one-pot synthesis of hydrazinyl-4-phenyl-1,3-thiazoles	Polycyclic Aromatic Compounds	2019
4	aryl-1,2-dihydro-6-(4--New Substituted4 hydroxy-2-oxo2H-chromen-3-yl)-2-oxopyridin-3-carbonitriles via three-Component Reaction Utilizing Ammonium characterization and ,acetate: Synthesis biological determination	Mediterranean Journal of Chemistry	2018
5	Acid/Base Mediated Heterocyclization of ketonic compounds: Synthesis and Anticancer Ativity of Dihydropyrimidinethione, 1,3-Thiazine and 2-Oxonicotinonitrile Derivatives	Journal of heterocyclic Chemistry	2016

التقدير العلمي (جوائز):

تم الحصول علي جائزة النشر الدولي من جامعة عين شمس عدة مرات للاعوام
الآتية

2010, 2012, 2013, 2014, 2015, 2016, 2018, 2019, 2020, 2021.

الانشطة الاكاديمية:

1- محكم لفحص الانتاج العلمي لشغل وظائف الاساتذة والاساتذة المساعدين (لجنة الكيمياء العضوية) الدورة
الرابعة عشر (2022-2025)

2- تدريس المقررات النظرية المختلفة بقسم الكيمياء كلية العلوم جامعة عين شمس
مثل) تدريس مقرر photochemistry لطلبة تمهيدي ماجستير - تدريس مقرر Environmental chemistry
لطلبة الفرقة الرابعة- تدريس مقرر Physical organic reaction mechanisms لطلبة الفرقة الثالثة-
تدريس مقرر Agrochemistry لطلبة الفرقة الرابعة كيمياء تطبيقية - تدريس مقرر Petroleum لطلبة الفرقة
الثالثة-تدريس مقرر mono and poly functional aromatic compounds لطلبة الفرقة الثانية برنامج
كيمياء وتدريس مقرر General Chemistry لطلاب المستوى الاول برنامج جيوفيزياء بترول).

3- تدريس المقررات العملية لطلاب الفرق الاربع بقسم الكيمياء كلية العلوم جامعة عين شمس.
4- الاشتراك في جميع اعمال الامتحانات من وضع امتحانات والمراقبة واعمال الكنترول والتصحيح والشفوى
واعمال الجودة.

5- عضو لجنة تطوير المقررات العملية للفرقة الثالثة بالقسم.

6- الاشراف على العديد من ابحاث التخرج لطلاب البكالوريوس.

الانشطة الجامعية

1- رئيس لجان امتحانات الدراسات العليا تمهيدي الماجستير والدكتوراة للعام الدراسي 2023-2024 حتي الان

2- رئيس كنترول البرامج الخاصة والعلوم الجيولوجيا والجيوفيزياء للعام الدراسي 2021-2022 وحتى2022-

2023

3- عضو بلجنة الجداول الدراسية والامتحانية بالكلية للعام الدراسي 2021-2022

4- عضو بلجنة الجداول الدراسية بالقسم منذ العام الدراسي 2014-2015 حتي العام الدراسي 2021-2022

5- المشاركة بأعمال لجنة الجودة بالقسم والقيام بأعمال الجودة المطلوبة.

6- عضو بلجنة الاجتماعيات.

7- عضو بلجنة فحص الكيماويات.

8- عضو بلجنة الارشاد الاكاديمي بالقسم

9- حضور الندوات وورش العمل التي تقيمها وحدة ضمان الجودة.

10- حضور البرنامج التدريبي علي ال Moodle في الفترة 2020-9-26 و 2020-10-10

List of Publications

1. Synthesis, cytotoxicity and molecular docking of novel quinazoline-4(3H)-thione derivatives as EGFR-TKIs Alyaa S. Abdel Halim, **Marwa S. Salem**, Selima A.M. Al-Mabrook, Maher A.E.M. El-Hashash, *Journal of the Indian Chemical Society*, 101, 101388 (2024)
2. 2(1H)-Pyridone and Quinolone as Synthon for Efficient and Simple Synthesis of Polysubstituted Pyridines and Quinolines. Samar Mosad Mohamed Ali, **Marwa S. Salem**, Hassan M. F. Madkour, Alaa Zidan *Polycyclic Aromatic Compounds*, 43(1), 328-342 (2023)
3. Design, synthesis and insecticidal activity of new 1,3,4-thiadiazole and 1,3,4-thiadiazolo[3,2-a]pyrimidine derivatives under solvent-free conditions. Mahmoud F. Ismail, Hassan M. F. Madkour, **Marwa S. Salem**, Ali M. M. Mohamed & Aly Fahmy Aly. *Synthetic Communications*, 51 (17), 2644-2660(2021).
4. Kretschmann-Based Optical Sensor via Thermally Tunable Refractive Index. Hassanein Shaban, Adel Shaaban, **Marwa S. Salem**, Lotfy Rabeh Gomaa, Mohamed Medhat and Yi-Chun Du, *Crystals*, 11, 616 (2021)
<https://doi.org/10.3390/cryst11060616>
5. Design, Synthesis and Antiproliferative activity of novel heterocycles from 6-iodo-2-phenyl-4H-benzo[d][1,3]thiazine-4-thione, **Marwa S. Salem**, Selima A. M. Al-Mabrook, Maher A. E. M. El-Hashash, *J. Sulfur Chem.*, VOL. 42, NO. 3, 251–263
<https://doi.org/10.1080/17415993.2020.1847287> (2021).
6. Synthesis and antiproliferative Evaluation of Some Novel Quinazolin-4(3H)-one Derivatives, **Marwa S. Salem**, Selima A. M. Al-Mabrook, Maher A. M. El-Hashash, *J. Heterocyclic Chem.*, 57 (11), 3898-3906 (2020).
7. Synthesis and cytotoxic Activity against Human Tumor Cells of Heterocyclic systems Derived from 2-thioxo-1,2-dihydro-4H-3,1-benzothiazin-4-one, Tamer A. Khlosy, **Marwa S. Salem**, Amira T. Ali, Hassan M. F. Madkour, *J. Heterocyclic Chem.*, 57(10), 60–68 (2020)
8. Straightforward synthesis of 2-chloro-N-(5-(cyanomethyl)-1,3,4-thiadiazol-2-yl)benzamide as a precursor for synthesis of novel heterocyclic compounds with insecticidal activity., Ali M. M. Mohamed, Mahmoud F. Ismail, Hassan M. F. Madkour, Aly F Aly, **Marwa S. Salem**, *Synthetic Communications*, 50 (22), 3424-3442 (2020)

9. Development of promising Chromones-Pyrazoles Based Anticancer Agents, **Marwa S. Salem**, Eman A. E. El-Helw and Hamed A. Y. Derbala, *Russian Journal of Bioorganic Chemistry*, 46(1),77–84 (2020)
10. Substitution at Phenyl Rings of Chalcone and Schiff Base Moieties Accounts for their Antiproliferative Activity, **Marwa S. Salem**, Rasha A. Hussein, Wael M. El-Sayed. *Anti-Cancer Agents in Medicinal Chemistry* 19 (5), 620-626 (2019).
11. Synthesis and *In Vitro* Antitumor Activity of Novel Chromenones Bearing Benzothiazole Moiety Eman A. El-Helw, Hamed A. Derbala, Manal M. El-Shahawi, **Marwa S. Salem**, Mamdouh M. Ali *Russian Journal of Bioorganic Chemistry* 45 (1), 42-53 (2019).
12. Synthesis and Anticancer Activity of Novel Quinazolinone and Benzamide Derivatives, Maher A. M. El-Hashash, **Marwa S. Salem**, Selima A. M. Al-Mabrook, *Res. Chem. Intermed.* 44, 2545–2559 (2018).
13. Synthesis, antileishmanial and cytotoxicity activities of fused and nonfused tetrahydroquinoline derivatives, Hassan M. F. Madkour, Maher A. M. El-Hashash, **Marwa S. Salem**, Al-Shimaa O. A. Mahmoud, *Res. Chem. Intermed* 44, 3349 –3364 (2018).
14. “Design, Synthesis, and In Vitro Antileishmanial and Antitumor Activities of New Tetrahydroquinolines” Hassan Mohamed Fawzy Madkour, Maher Abd El-Aziz Mahmoud El-Hashash, **Marwa S. Salem**, Al-Shimaa Omar Ali Mahmoud, Yasser M. A. S. Al-Qahraman, *J. Heterocyclic Chem.*, 55, 391 (2018).
15. “Proclivity of chromonyloxazolone towards some nitrogen nucleophiles” Hamed A. Derbala, Manal M. El-Shahawi, **Marwa S. Salem**, Eman A. E. El-Helw, *International Journal of Latest Engineering and Management Research (IJLEMR)* 03(07), 39-44 (2018).
16. " One-pot Synthesis of 1,2,3,4-Tetrahydropyrimidin-2(1H)-thione Derivatives and their Biological Activity" Mounir A. I. Salem, Magda I. Marzouk, **Marwa S. Salem**, and Ghazala A. Alshibani. *J. Heterocyclic Chem.* 53, 545-557 (2016).
17. "Novel Pyrazolo[3,4-b]pyridine Derivatives: Synthesis, Characterization, Antimicrobial and Antiproliferative Profile " **Marwa S. Salem**, Mohamed A. M. Ali. *Biol. Pharm. Bull.* 39, 473–483 (2016)
18. "Synthesis and antioxidant properties of novel pyrimidine-containing heterocycles", **Marwa S. Salem**, Asma Omer Errayes, *J. Chem. Res.* 40, 299–304(2016)

19. "Study of Chalcones' Effect on Milk Production in Zaraibi Goats" Hassan M.F. Madkour, Ferial Hassan, **Marwa S. Salem**, Manar R. A. Soliman *Egyptian Journal of Sheep & Goat Sciences*, 11(3), 25-35 (2016)
20. " Antioxidant Activity of Novel Fused Heterocyclic Compounds Derived from Tetrahydropyrimidine Derivative" **Marwa S. Salem**, Mahmoud Farhat, Asma O. Errayes and Hassan M. F. Madkour. *Chem. Pharm. Bull.* 63, 866 – 872 (2015)
21. "Synthesis and antimicrobial evaluation of novel 1,3-thiazoles and unsymmetrical azines" Mohamed El-Kady, Eman M. H. Abbas, **Marwa S. Salem**, Asmaa F. M. Kassem, Sherein I. Abd El-Moez. *Res. Chem. Intermed.* 41(9), 1-17 (2015)
22. " Synthesis, reactions and antimicrobial activity of benzothiazoles" Eman M. Abbas, **Marwa S. Salem**, Asmaa F. Kassem, Sherein I. Abd El-Moez and Mohamed Y. El-Kady. *European Journal of Chemistry* 6 (2), 98-106 (2015)
23. "Antioxidant Activity of Heterocyclic Compounds Derived from 4-(4-Acetamidophenyl)-4-oxobut-2-enoic Acid" **Marwa S. Salem**, Dalal B. Guirguis, Eman A. E. El-Helw, Mosad A. Ghareeb, and Hamed A. Y. Derbala. *International Journal of Science and Research (IJSR)* 3 (5), 1274-1282 (2014)
24. "Facile synthesis of new fused and non-fused heterocyclic systems from γ -keto acid" **Marwa. S. Salem**, Maher. A. M. El-Hashash, Al-Shimaa. O. A. Mahmoud, and Hassan M. F. Madkour. *European Journal of Chemistry*, 5 (1), 33-40 (2014)
25. "Antioxidant Activity of Novel Pyrimidines Derived from Arylidenes" Hassan M. F. Madkour, Kamal A. Kandeel, **Marwa S. Salem**, Safaa M. Haroun. *International Journal of Pharmaceutical Science and Health Care* 4(2), 102-115, (2014)
26. "2-{[3-Cyano-4-(furan-2-yl)-6-(naphthalen-1-yl)pyridin-2-yl]oxy}acetohydrazide as a synthon for Potent Anticancer Agents" Hassan M. F. Madkour, **Marwa S. Salem**, Mamdouh M. Ali, Sameh I. Sakr. *International Journal of Advanced Scientific and Technical Research* 4 (2), 122-136, (2014)
27. "Synthesis, Antibacterial, and Antiviral Evaluation of New Heterocycles Containing Pyridine Moiety" **Marwa S. Salem**, Sameh I. Sakr, Waled M. El-Senousy, and Hassan M. F. Madkour. *Arch. Pharm. Chem. Life Sci.*, 346(10), 766-773 (2013).
28. "Synthesis, Reactivity and Antimicrobial activity of Coumarinic and Chromonic Heterocycles" **Marwa S. Salem**, H. A. Y. Derbala, M. B. Lashlam, H. M. F. Madkour *Archives Des Sciences* 66(5), 634-648 (2013).

29. "Biological Evaluation of Some Synthetic Coumarin Derivatives as Inhibitors of Leishmania Major" Hassan M. F. Madkour, Nizam Baloch, **Marwa S. Salem**, Yasser M. S. A. Al-kahraman, Mona B. Lashlam. *Archives Des Sciences* 65(12), 349-356 (2012)
30. "Reaction of Some Alkyl Phosphite and Wittig – Horner Reagents with Derivatives of 5- Bromo-3-Cyano-Pyridone and Camphorquin" Hoda A. Abdel-Malek and **Marwa S. Salem**. *Journal of American Science*; 8(2): 670-676 (2012)
31. "Synthesis, Structure, Characterization and Biological Evaluation of New 6,8-Dichloro-2-methyl-4H-chromen-4-one Derivatives" **Marwa S. Salem**, Magda I. Marzouk, Salma N. Ali and Hassan M. F. Madkour, *European Journal of Chemistry*, 3(2), 220-227 (2012)
32. "Reactions of 5-Bromo-4,6-Dimethyl-2-Thioxo-1,2- Dihydropyridine -3-Carbonitrile with Organophosphorus Reagents" Hoda A. Abdel – Malek, **Marwa S. Salem**, and Laila S. Boulos *Life Science Journal*; 9(1), 695-700 (2012).
33. "Synthetic utility of enaminoester moiety in heterocyclic synthesis" Hassan M. F. Madkour, Ameen A. E. Afify, Abdelaal A. Abdalha, Galal A. Elsayed and **Marwa S. Salem**. *European Journal of Chemistry* 1 (4), 352-359 (2010).
34. "Synthetic Utility of Enaminonitrile Moiety in Heterocyclic Synthesis: Synthesis of Some New Thienopyrimidines" Hassan M. F. Madkour, Ameen A. E. Afify, Abdelaal A. Abdalha, Galal A. Elsayed and **Marwa S. Salem**. *Phosphorus, Sulfur, and Silicon and the Related Elements*, 184 (3), 719 - 732 (2009).
35. "Synthetic Utility of Enaminonitrile Moiety in Heterocyclic Synthesis" Hassan M. F. Madkour, Ameen A. E. Afify, Galal A. El-Sayed and **Marwa S. Salem**. *Bul. Chem. Commun.*, 40 (2), 147-159 (2008)