

Curriculum Vitae

Personal Information

Name: Asmaa Aboelnaga Abdel Hamid El-Sayed

Date of Birth: 25 August 1977

Nationality: Egyptian

Mobile: +20 1122277029

Email: asmaa_aboelnaga77@yahoo.com

Academic Email: asmaa.aboelnaga@women.asu.edu.eg

Academic Title: Professor of Organic Chemistry – Faculty of Women for Arts, Science and Education – Ain Shams University



Academic Qualifications

- **B.Sc. in Science (Chemistry)** – May 1999, Grade: Very Good, Faculty of Women, Ain Shams University.
- **M.Sc. in Science (Chemistry – Organic Chemistry)** – May 4, 2004, Faculty of Women, Ain Shams University.
- **Ph.D. in Science (Chemistry – Organic Chemistry)** – December 4, 2007, Faculty of Women, Ain Shams University.

Career Progression

- **Demonstrator**, Department of Chemistry, Faculty of Women, Ain Shams University – from April 3, 2001.
- **Assistant Lecturer**, Department of Chemistry – from June 1, 2004.
- **Lecturer**, Department of Chemistry – from December 30, 2007.
- **Assistance Professor of Organic chemistry** 2008-2018 Taibah university.KSA
- **Associate Professor of Organic Chemistry** – from March 30, 2020.
- **Professor of Organic Chemistry**, 2025 – Faculty of Women, Ain Shams University.

International Certifications

- Certified International Trainer – University of Missouri (USA) in collaboration with Cairo University, 2015.
 - Presidential Program “**Women Lead in Egyptian Governorates**” – National Training Academy (NTA), 2025.
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Scientific and Research Activities

- Published **25 research papers** in reputable international journals.
 - **Citations: 499** **H-Index: 15**
 - Published a **review article** in an international Q2 journal.
 - Served as **scientific reviewer** for several international journals.
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Research Projects

2014–2016 • Member of the Judging Committee for student submissions at the **Fifth Scientific Conference for Higher Education Students in the Kingdom of Saudi Arabia.**

2014–2016 • Reviewer of research projects funded by the **Deanship of Scientific Research, Northern Border University – Arar, Saudi Arabia.**

2014–2016 • Principal Investigator, Research Project No. **1434/4626**,
Synthesis of New Cyclic and Heterocyclic Compounds Derived from the Combination of Chitosan and 3-Aminotriazole and Their Application in Cotton Fiber Finishing.
Taibah University – Yanbu Branch.

2016–2017 • Principal Investigator, Research Project No. **435/6237**,
Metallization of Some Cyclic Azo Dyes and Their Biological Applications.
Taibah University – Yanbu Branch.

2019–2021 • Co-investigator, Textile Research and Technology Institute, **National Research Centre** – Project titled:
Smart Auxiliaries Derived from Nature for Achieving Emerging and Sustainable Textile Coloration and Antimicrobial Finishing through Click Chemical Reaction.

2022–2025 • Co-investigator, Textile Research and Technology Institute, **National Research Centre** – Project titled:
Innovative Techniques for Wastewater Treatment through Chemical Modification of Cellulose and Its Derivatives.

Supervision of Theses

Supervised multiple M.Sc. and Ph.D. theses in Organic Chemistry, including topics such as:

- Design and synthesis of novel heterocyclic compounds and evaluation of pharmaceutical applications.
- Eco-friendly synthesis and pharmacological evaluation of heterocyclic compounds based on cyanoacetohydrazide derivatives.
- Novel drug design approaches to enhance medicinal efficacy.

- Design of new heterocycles-functionalized macromolecules and their selected applications.
 - Computational chemistry and biological evaluation of newly synthesized drugs.
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Examination and Evaluation

- **External Examiner** for M.Sc. theses at Alexandria University (2022) and Mansoura University (2024).
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Scientific Conferences

Participated in and presented papers at numerous international and national conferences, including:

- The 7th International Conference on “Women and Creativity: Sustainable Development – Egypt Vision 2030” (2021).
 - The 4th & 5th International Conferences on Spectroscopy and Molecular Modeling – NRC (2022, 2023).
 - The Radiochemistry of Polymers Conference – Egyptian Atomic Energy Authority (2023).
 - Annual and thematic conferences at the Faculty of Women, Ain Shams University (2024).
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Training Courses and Workshops Attended

- Creating e-courses and presentation broadcasting techniques – Ain Shams University (2020).
 - Egyptian Knowledge Bank workshop on using data sources for research (2021).
 - Method Validation in Testing Laboratories – NRC (2022).
 - Various certified courses on quality assurance, sustainable development, AI in science, global university ranking systems, research management, legal aspects in academia, and more (2022–2024).
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Workshops Delivered

- “Soap Manufacturing and Citrus Essential Oil Extraction” (2020).
 - “Endnote: The Most Powerful Tool for Managing Your Research” (2022).
 - “Preparation of Home Detergents” (2023).
 - “Effective Communication Skills” (2024).
 - Chaired conference sessions on “*Women between Creativity, Innovation, and the Economic Dimension*” (2021).
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Professional Memberships

- Member, Egyptian Society of Heterocyclic Chemistry (since 2022).

- Member, Organization for Women in Science in the Developing World (OWSD) (since 2023).
- Member, Egyptian Syndicate of Scientific Professions.

Awards and Recognitions

- International Publication Award – Ain Shams University (2020–2024).
- Certificates of Appreciation from:
 - Taibah University (2018).
 - Faculty Quality Assurance Unit (2020).
 - Department of Chemistry (2024).

Administrative and Departmental Activities

- Secretary of the Chemistry Department Council (2020–2021, 2022–present).
- Member of various committees: postgraduate control, cultural relations, library, timetables, program quality, and academic advising.
- Coordinator of postgraduate programs and field training (2020–present).
- Supervisor for course design, e-learning, and practical teaching videos during COVID-19.
- Active in teaching, research supervision, and academic advising for undergraduate and postgraduate students.

List of Publications

1. Shaarawy, Sahar; El-Shafei, Amira; **Aboelnaga, Asmaa**; Radwan, Emad K (2025) Multifunctional Propargylated microcrystalline cellulose-biphenyl Triazole derivative: Adsorption and antibacterial activity. *International Journal of Biological Macromolecules* nan(nan), 147051.
2. Ibrahim, Ahmed G; Abdalla, Taghreed Hassan; Elabbady, Samia; Nassar, Ekhlash; Hamed, Ahmed A; **Aboelnaga, Asmaa** (2025) Synthesis and characterization of chitosan Schiff bases conjugated with chalcones for enhanced biological applications. *International Journal of Biological Macromolecules* 321.0(nan), 146544.
3. Abdel-Megid, Mohamed; Salem, Mostafa E; El-boghdady, Aliaa H; El-Rashedy, Ahmed A; Abdel-Aal, Mohammed T; Nassrallah, Amr; **Aboelnaga, Asmaa**; Abouelenein, Mohamed G (2025) Novel Pyrano [2, 3-c] pyrazole Derivatives: Synthesis, Spectroscopic Characterization, and In Silico Evaluation of Interactions with VEGFR-1 and Aromatase. *Journal of Molecular Structure* nan(nan), 143107.
4. Ibrahim, Ahmed G; Elgammal, Walid E; Ebead, Eman El-Sayed; Ismail, Mahmoud F; Sharaf, Mohamed H; **Aboelnaga, Asmaa** (2025) Functionalized chitosan with new acrylohydrazide derivative: Synthesis, characterization, DFT calculations, antimicrobial and antiproliferative activities. *Journal of Molecular Structure* nan(nan), 142607.
5. Abdalla, Taghreed Hassan; Ibrahim, Ahmed G; Elabbady, Samia; Nassar, Ekhlash; Hamed, Ahmed A; **Aboelnaga, Asmaa** (2025) Chitosan-based Schiff base polymer derived from acetyl triazolyl uracil: Synthesis, characterization, evaluation of antimicrobial and antioxidant activities, and density functional theory calculations. *International Journal of Biological Macromolecules* 300.0(nan), 140327.
6. **Aboelnaga, Asmaa**; Ebead, Eman El-Sayed; Nassar, Ekhlash; Naguib, Mohamed M; Ismail, Mahmoud F (2024) Ultrasonic-assisted synthesis and antitumor evaluation of novel variant heterocyclic compounds based on piperidine ring. *Future Medicinal Chemistry* 16.0(18.0), 1865-1882.

7. Ismail, Mahmoud F; **Aboelnaga, Asmaa**; Naguib, Mohamed M; Ismaeel, Hind M (2024) Synthesis, anti-proliferative activity, DFT and docking studies of some novel chloroquinoline-based heterocycles. *Polycyclic Aromatic Compounds* 44.0(9.0), 5951-5982.
8. El-Sayed Ebead, Eman; **Aboelnaga, Asmaa**; Nassar, Ekhllass; Naguib, Mohamed M; Ismail, Mahmoud F (2023) Ultrasonic-induced synthesis of novel diverse aryldienes via Knoevenagel condensation reaction. Antitumor, QSAR, docking and DFT assessment. *RSC Advances* 13.0(42.0), 29749-29767.
9. Ebead, Eman El-Sayed; **Aboelnaga, Asmaa**; Nassar, Ekhllass; Naguib, Mohamed M; Ismail, Mahmoud F (2023) Ultrasonic-induced synthesis of novel diverse aryldienes via Knoevenagel condensation reaction. Antitumor, QSAR, docking and DFT assessment. *RSC advances* 13.0(42.0), 29749-29767.
10. **Aboelnaga, Asmaa**; Soror, Sahar; Nassar, Ekhllass; Elabbady, Samia; Fahim, Asmaa M (2023) Novel bis pyrimidine-pyrazolone and pyridinyl-4, 5-dihydropyrimido [2, 1 [1]-c, 1, 2, 4] triazepine utilized ultrasonic energy, anti-proliferative activity, docking simulation, and theoretical investigation. *Journal of Molecular Structure* 1294.0(nan), 136517.
11. Abouelenein, Mohamed G; Ismail, Abd El-Hamid A; **Aboelnaga, Asmaa**; Tantawy, Mohamed A; El-Ebiary, Nora MA; El-Assaly, Samy A (2023) Synthesis, DFT calculations, In silico studies, and biological evaluation of pyrano [2, 3-c] pyrazole and pyrazolo [4', 3': 5, 6] pyrano [2, 3-d] pyrimidine derivatives. *Journal of Molecular Structure* 1275.0(nan), 134587.
12. Attia, Adel; **Aboelnaga, Asmaa**; Fahim, Asmaa M (2023) Isonicotinohydrazide chalcone and Its Ni complex as corrosion inhibitors during acid cleaning: Theoretical and experimental approaches. *Egyptian Journal of Chemistry* 66.0(7.0), 95-111.
13. Ahmed, Hoda A; **Aboelnaga, Asmaa** (2022) Synthesis and mesomorphic study of new phenylthiophene liquid crystals. *Liquid Crystals* 49.0(6.0), 804-811.
14. Mahmoud, Nelly H; Elsayed, Ghada H; **Aboelnaga, Asmaa**; Fahim, Asmaa M (2022) Spectroscopic studies, DFT calculations, cytotoxicity activity, and docking stimulation of novel metal complexes of Schiff base ligand of isonicotinohydrazide derivative. *Applied Organometallic Chemistry* 36.0(7.0), e6697.
15. **Aboelnaga, Asmaa**; Mansour, Eman; Fahim, Asmaa M; Elsayed, Ghada H (2022) Synthesis, anti-proliferative activity, gene expression, docking and DFT investigation of novel pyrazol-1-yl-thiazol-4 (5H)-one derivatives. *Journal of molecular structure* 1251.0(nan), 131945.
16. Fahim, Asmaa M; Magar, Hend S; Nasar, Ekhllass; Abdelrazek, Fathy M; **Aboelnaga, Asmaa** (2022) Synthesis of Cu-porphyrazines by annulated diazepine rings with electrochemical, conductance activities and computational studies. *Journal of Inorganic and Organometallic Polymers and Materials* 32.0(1.0), 240-266.
17. Soror, Sahar; Fahim, Asmaa M; Elabbady, Samia; Nassar, Ekhllass; **Aboelnaga, Asmaa** (2022) Synthesis, antimicrobial activities, docking studies and computational calculations of new bis-1, 4-phenylene-1 H-1, 2, 3-triazole derivatives utilized ultrasonic energy. *Journal of Biomolecular Structure and Dynamics* 40.0(12.0), 5409-5426.
18. **Aboelnaga, Asmaa**; Amer, Nesreen; Zakaria, Nada (2022) Polyaniline/aza-bicyclo composites containing P, S, and Si atoms: synthesis, characterization, molecular orbital calculations, electrical conductivity, and biocidal activities against some biofouling-causing organisms. *Polycyclic Aromatic Compounds* 42.0(5.0), 2392-2409.
19. Alamro, Fowzia S; Ahmed, Hoda A; Popoola, Saheed A; **Aboelnaga, Asmaa** (2021) Synthesis, phase behavior and computational simulations of a pyridyl-based liquid crystal system. *Molecules* 26.0(21.0), 6416.

20. **Aboelnaga, Asmaa**; Mansour, Eman; Ahmed, Hoda A; Hagar, Mohamed (2021) Synthesis of asymmetric pyrazoline derivatives from phenylthiophenechalcones; DFT mechanistic study. *대한 화학 학회지* 65.0(2.0), 113-120.
21. **Aboelnaga, A**; Fahim, AM; El-Sayed, TH (2020) Computer aid screening for potential antimalarial choroquinone compounds as Covid 19 utilizing computational calculations and molecular docking study. *OnLine J. Biol. Sci.* 20.0(4.0), 207-220.
22. Mansour, Eman; **Aboelnaga, Asmaa**; Nassar, Ekhlass M; Elewa, Safaa I (2020) A new series of thiazolyl pyrazoline derivatives linked to benzo [1, 3] dioxole moiety: Synthesis and evaluation of antimicrobial and anti-proliferative activities. *Synthetic Communications* 50.0(3.0), 368-379.
23. Husien, Taghreed; **Aboelnaga, Asmaa** (2020) Synthesis, characterization, and biological applications of new series of azo triazole organometallic derivatives and their silver nanoparticle forms. *Egyptian Journal of Chemistry* 63.0(1.0), 101-115.
24. **Aboelnaga, Asmaa**; Shaarawy, Sahar; Hassabo, Ahmed G (2018) Polyaconitic acid/functional amine/azo dye composite as a novel hyper-branched polymer for cotton fabric functionalization. *Colloids and Surfaces B: Biointerfaces* 172.0(nan), 545-554.
25. El-Sayed, Taghreed H; **Aboelnaga, Asmaa**; El-Atawy, Mohamed A; Hagar, Mohamed (2018) Ball milling promoted N-heterocycles synthesis. *Molecules* 23.0(6.0), 1348.
26. **Aboelnaga, Asmaa**; EL-Sayed, Taghreed H (2018) Click synthesis of new 7-chloroquinoline derivatives by using ultrasound irradiation and evaluation of their biological activity. *Green Chemistry Letters and Reviews* 11.0(3.0), 254-263.
27. **Aboelnaga, Asmaa**; Shaarawy, Sahar; Hagar, Mohamed (2017) A novel chitosan 3-amino-1, 2, 4-triazole hybrid: Preparation and its effects on cotton fabric properties. *Journal of Taibah University for Science* 11.0(5.0), 768-774.
28. **Aboelnaga, Asmaa**; Abbady, Samia (2017) Ball milling assisted 1, 3-dipolar cycloaddition reaction of 1-(4-Nitrobenzyl)-pyridinium-3-olate. *Indian Journal of Heterocyclic Chemistry* 27.0(4.0), 423-430.
29. Taghreed, EL-Sayed; **Aboelnaga, Asmaa**; Hagar, Mohamed (2016) Ball Milling Assisted Solvent and Catalyst Free Synthesis of Benzimidazoles and Their Derivatives. *Molecules* 21.0(9.0), nan.
30. El-Sayed, Taghreed H; **Aboelnaga, Asmaa**; Hagar, Mohamed (2016) Ball milling assisted solvent and catalyst free synthesis of benzimidazoles and their derivatives. *Molecules* 21.0(9.0), 1111.
31. **Aboelnaga, Asmaa**; Hagar, Mohamed; Soliman, Saied M (2016) Ultrasonic synthesis, molecular structure and mechanistic study of 1, 3-dipolar cycloaddition reaction of 1-alkynylpyridinium-3-olate and acetylene derivatives. *Molecule*.

Management Development Institute

Certificate of Completion

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فبراير ٢٠٢٥



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