

Curriculum vitae



Personal Information

- **Alshaimaa Mohammed Ali Hamoda**
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Sex: female | Date of birth: 1/1/1989 | Nationality: Egyptian

Educational qualifications

Sep 2007-Jun 2011: **bachelor's degree in Pharmaceutical Sciences B.Sc.** (Excellent With Degree of Honor, 90.1%), ranked as the six of 760 students Faculty of Pharmacy, Assiut University, Assiut (Egypt).

Sep 2012-June 2017: **master's degree in Pharmaceutical Sciences (pharmacognosy) (M.Sc.)** Faculty of Pharmacy, Assiut University, Assiut (Egypt). With Postgraduate master courses: Instrumental Chemistry, Physical Chemistry, Molecular Biology, Statistics, Computer Sciences, Lab safety.

Administrative PhD overview

I started a full PhD scholarship in molecular medicine and translational research program in University of Sharjah, United Arab Emirates since fall semester of September 2020. The expected date of graduation will be in June 2025. Under the supervision of Dr. Sameh Soliman. All my experiments will be run in the research institute for medical and health sciences.

Achievements during my research

- Teaching assistant and lecturer in Assiut university, Egypt.
- Research assistant (From Jan 2018 till now RIMHS, Sharjah, UAE) through which I got an excellent experience in different pharmacological

approaches and handling several techniques in the field of chemistry of natural products.

- Good Publication record in highly reputable journal with H-Index 7 according to Scopus database.

My Scientific production

A-Research Articles:

- 1- Soliman, Sameh SM, Naglaa S. Ashmawy, **Alshaimaa M. Hamoda**, Haidy A. Gad, and Ali A. El-Keblawy. "Newly-sprouted leaves at the stem base differ anatomically and histochemically from the crown leaves in *Ficus johannis*." *Botany Letters* (2023): 1-9.
- 2- Mohammad, Mohammad G., Naglaa S. Ashmawy, Ahmed M. Al-Rawi, Ameera Abu-Qiyas, **Alshaimaa M. Hamoda**, Rania Hamdy, Salam Dakalbab et al. "SARS-CoV-2-free residual proteins mediated phenotypic and metabolic changes in peripheral blood monocyte-derived macrophages in support of viral pathogenesis." *PloS one* 18, no. 1 (2023): e0280592.
- 3- Ashmawy, Naglaa S., Eman M. El-Labbad, **Alshaimaa M. Hamoda**, Ali A. El-Keblawy, Abdel-Nasser A. El-Shorbagi, Kareem A. Mosa, and Sameh SM Soliman. "The Anti-Candida Activity of *Tephrosia apollinea* Is More Superiorly Attributed to a Novel Steroidal Compound with Selective Targeting." *Plants* 11, no. 16 (2022): 2120.
- 4- Hamdy, Rania, **Alshaimaa M. Hamoda**, Mariam Al-Khalifa, Varsha Menon, Raafat El-Awady, and Sameh SM Soliman. "Efficient selective targeting of *Candida* CYP51 by oxadiazole derivatives designed from plant cuminaldehyde." *RSC Medicinal Chemistry* 13, no. 11 (2022): 1322-1340.
- 5- Al-Nablsi, Shaimaa, Ali El-Keblawy, Muna A. Ali, Kareem A. Mosa, **Alshaimaa M. Hamoda**, Abdallah Shanableh, Ahmed M. Almehdi, and Sameh SM Soliman. "Phenolic contents and antioxidant activity of *Citrullus Colocynthis* fruits, growing in the hot arid desert of the UAE, influenced by the fruit parts, accessions, and seasons of fruit collection." *Antioxidants* 11, no. 4 (2022): 656.
- 6- Soliman, Sameh SM, Eman M. El-Labbad, Ameera Abu-Qiyas, Bahgat Fayed, **Alshaimaa M. Hamoda**, Ahmed M. Al-Rawi, Salam Dakalbab et al. "Novel Secreted Peptides From *Rhizopus arrhizus* var. *delemar* With Immunomodulatory

Effects That Enhance Fungal Pathogenesis." *Frontiers in Microbiology* (2022): 922.

7- Eldohaji, Leen M., Bahgat Fayed, **Alshaimaa M. Hamoda**, Mai Ershaid, Shifaa Abdin, Tasneem B. Alhamidi, Mohammad G. Mohammad, Hany A. Omar, and Sameh SM Soliman. "Potential targeting of Hep3B liver cancer cells by lupeol isolated from *Avicennia marina*." *Archiv der Pharmazie* 354, no. 9 (2021): 2100120.

8- Hamdy, Rania, Arwyn T. Jones, Mohamed El-Sadek, **Alshaimaa M. Hamoda**, Sarra B. Shakartalla, Zainab M. Al Shareef, Sameh SM Soliman, and Andrew D. Westwell. "New bioactive fused triazolothiadiazoles as Bcl-2-targeted anticancer agents." *International Journal of Molecular Sciences* 22, no. 22 (2021): 12272.

9- **Hamoda, Alshaimaa M.**, Bahgat Fayed, Naglaa S. Ashmawy, Abdel-Nasser A. El-Shorbagi, Rania Hamdy, and Sameh SM Soliman. "Marine sponge is a promising natural source of anti-SARS-CoV-2 scaffold." *Frontiers in Pharmacology* 12 (2021): 666664.

10- Alzaabi, Moza Mohamed, Rania Hamdy, Naglaa S. Ashmawy, **Alshaimaa M. Hamoda**, Fatemah Alkhayat, Neda Naser Khademi, Sara Mahmoud Abo Al Joud, Ali A. El-Keblawy, and Sameh SM Soliman. "Flavonoids are promising safe therapy against COVID-19." *Phytochemistry Reviews* (2021): 1-22.

11- Hamdy, Rania, Bahgat Fayed, **Alshaimaa M. Hamoda**, Mutasem Rawas-Qalaji, Mohamed Haider, and Sameh SM Soliman. "Essential oil-based design and development of novel anti-Candida azoles formulation." *Molecules* 25, no. 6 (2020): 1463.

12- Soliman, Sameh SM, Rania Hamdy, Samia A. Elseginy, Teclegiorgis Gebremariam, **Alshaimaa M. Hamoda**, Mohamed Madkour, Thenmozhi Venkatachalam et al. "Selective inhibition of *Rhizopus eumelanin* biosynthesis by novel natural product scaffold-based designs caused significant inhibition of fungal pathogenesis." *Biochemical Journal* 477, no. 13 (2020): 2489-2507.

13- Eldohaji, Leen M., **Alshaimaa M. Hamoda**, Rania Hamdy, and Sameh SM Soliman. "*Avicennia marina* a natural reservoir of phytopharmaceuticals: Curative power and platform of medicines." *Journal of Ethnopharmacology* 263 (2020): 113179.

14- Hamdy, Rania, Sameh SM Soliman, Abrar I. Alsaadi, Bahgat Fayed, **Alshaimaa M. Hamoda**, Samia A. Elseginy, Mohamed I. Husseiny, and Ashraf S. Ibrahim. "Design and synthesis of new drugs inhibitors of *Candida albicans* hyphae and biofilm formation by upregulating the expression of TUP1 transcription repressor gene." *European Journal of Pharmaceutical Sciences* 148 (2020): 105327.

15- Soliman, Sameh, **Alshaimaa M. Hamoda**, Abdel-Nasser A. El-Shorbagi, and Ali A. El-Keblawy. "Novel betulin derivative is responsible for the anticancer folk use of *Ziziphus spina-christi* from the hot environmental habitat of UAE." *Journal of ethnopharmacology* 231 (2019): 403-408.

16- Soliman, Sameh SM, Mohamed Abouleish, Maged MM Abou-Hashem, **Alshaimaa M. Hamoda**, and Ali A. El-Keblawy. "Lipophilic metabolites and anatomical acclimatization of *Cleome amblyocarpa* in the drought and extra-water areas of the arid desert of UAE." *Plants* 8, no. 5 (2019): 132.

17- Soliman, Sameh, **Alshaimaa M. Hamoda**, Abdel-Nasser A. El-Shorbagi, and Ali A. El-Keblawy. "Habitat of UAE, *Journal of Ethnopharmacology*." (2018).

18- Khalifa, A. A., A. A. Mohamed, Z. Z. Ibrheim, and **Alshaimaa M. Hamoda**. "Macro-and micromorphology of the leaves, stems, seeds and fruits of *Ipomoea eriocarpa* (r. br.) growing in Egypt." *Bulletin of Pharmaceutical Sciences. Assiut* 40, no. 1 (2017): 9-31.

B- Conferences and scientific events

1- UAE innovation week which was held from 14-28 February 2022, Poster presentation.

2- Second annual conference of Emirates Society of clinical Microbiology, 7-8 Dec 2022, Khalifa University, UAE, First winner place in poster presentation.

3- Your Gateway to Research event, 16-2-2023, Research institute for medical and health sciences, University of Sharjah, Poster presentation.

Activities having an impact on the development of scientific research in my country.

I have been assigned as laboratory safety officer in which my duty to conduct routine chemical inspections, report any shortages, and ensure that chemicals are

stored according to international safety standards. As a research assistant, I've been tasked with helping in finding a new medication to treat COVID 19 which was a big, granted project that was patented in the US. In addition to, teaching practical courses of chemistry of natural product and quality control of herbal drugs to undergraduates' pharmacy students. I always motivate undergraduate students to adopt a culture of research in our community. Moreover, I mentored undergraduate and master students in their graduation projects.

Collaborations and partnerships with foreign institutions

Type of collaboration	Project title	Partner institution	Researcher	Project funding	Achievements
International academic and research	Design and synthesis of new drugs inhibitors of <i>Candida albicans</i> hyphae and biofilm formation by upregulating the expression of TUP1 transcription repressor gene.	Division of Infectious Diseases, The Lundquist Institute for Biomedical Innovation, Harbor-University of California at Los Angeles (UCLA) Medical Center, Torrance, CA, United States,	Prof. Ashraf S. Ibrahim	a Public Health Service grant R01AI063503	Publication and patent
International academic and research	Novel secreted peptides from <i>Rhizopus arrizus</i> var. <i>delemar</i> with immunomodulatory effects that enhance fungal pathogenesis	David Geffen School of Medicine at UCLA, Los Angeles, CA 90095, U.S. A	Prof. Ashraf S. Ibrahim	a Public Health Service grant R01AI063503	Publication

Workshops

- External company (Basics of cell separation techniques) (training session)
- Confocal microscopy (training session)

- Flowcytometry (training session)

Research high qualified skills

- 1- Spectroscopic analysis including Mass, NMR, UV and IR.
- 2- Chromatographic skills including different chromatographic techniques; TLC, HPLC, Column and, GC-MS and LC-MS.
- 3- Molecular Biology, Metabolic engineering, and Tissue culture.
- 4- Pharmacological activities, including Antimicrobial, Anticancer, Anti-inflammatory, antipyretic and analgesic.
- 5- Computer skills, including BLAST local databases, GraphPad Prism, and Bioinformatics including metabolomic.

References:

Available on request.