



Curriculum Vitae



Dr. Sahar Abd El-mohsen Ali
Associate Professor in Biochemistry and Molecular Biology
Department
Faculty of Pharmacy, Helwan University

★ **Personal profile:**

Name: Sahar Abd El-Mohsen Ali

Nationality: Egyptian

Birth date: 12.11.1973

Sex: Female

Marital status: Married

Children: Three (2 daughters and one son).

Work Address: Department of Biochemistry and Molecular Biology, Faculty of pharmacy Helwan University, Ain Helwan, Cairo, Egypt.

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★ **Academic career:**

- ★ **PhD degree** in Pharmaceutical science (Biochemistry), Department of Biochemistry, Faculty of Pharmacy, Helwan University, Cairo.

Thesis title: Comparison of certain biochemical markers of bone turnover and bone mineral density in patients on hemodialysis and continuous ambulatory peritoneal dialysis (2007).

- ★ **MSc degree** in Pharmaceutical science (Biochemistry) Department of Biochemistry, Faculty of Pharmacy, Helwan University, Cairo (2002).

Thesis title: The clinical value of Homocysteine as a marker in coronary artery disease patients.

* **Pre-master courses:** Department of Biochemistry, Faculty of Pharmacy, Helwan University, Cairo, Egypt (2000) “Excellent”

* **Bachelor of pharmaceutical sciences:** Faculty of Pharmacy, Cairo University, Cairo, Egypt. May (1996) “excellent with honor”

* **Work Experience:**

* **Head of the biochemistry and Molecular Biology Department,** Faculty of Pharmacy, Helwan University from 11-2020 till now.

* **Member of Clinical Pharmacy Program (Credit Hours System), Undergraduates,** Faculty of Pharmacy, Helwan University, from 9/2019 till now.

* **Assistant Professor** of Biochemistry and Molecular Biology at Faculty of Pharmacy, Helwan University, from 31/5/2016 till now.

* **Lecturer** in Biochemistry and Molecular Biology department, Faculty of Pharmacy, Helwan University, Cairo, Egypt (2008- 2016).

* **Lecturer** in Biochemistry department, Faculty of Pharmacy, Future University, Cairo, Egypt (**FUE**) (2009).

* **Assistant Lecturer** in Biochemistry and Molecular Biology department, Faculty of Pharmacy, Helwan University, Cairo, Egypt (2002-2008).

* **Demonstrator** in Biochemistry and Molecular Biology department, Faculty of Pharmacy, Helwan University, Cairo, Egypt (1998-2002).

* Pharmacist at the Quality control Department. “The Nile Company” Cairo, Egypt, 10.1996-06.1998.

* **Teaching Experiences**

* **Undergraduate Courses**

-Biochemistry-1 for second year student

-Biochemistry-2 for third year students

-Clinical chemistry and molecular biology for fourth year students

-Applied genetics and Genetic engineering (Elective course) for fifth year students.

* **Postgraduates**

-**Pre-Master courses:**

-Basic biochemistry (Helwan University and Faculty of Home Economic)

- Biological research laboratory techniques
- Selected topics

-Pre PhD courses

- Advanced Biochemistry
- Epigenetics
- Diagnostic value of molecular and clinical markers.
- Seminar

*** Training programs and workshops:**

1. 'Academic Advisor'' Workshop, FLDP, Helwan University (2009).
2. "How to compete for a research fund" workshop, CDOT, Helwan University (2009).
3. "National Academic Standard" Training program, Quality Assurance Center, Helwan University (2009).
4. "How to use Available International Database" Training program, Digital Library Unit, Helwan University (2009).
5. "Stem Cell" workshop, Egyptian Society of Biochemistry and Molecular Biology, Molecular biology Unit, Biochemistry Department, Faculty of Medicine, Cairo University (2010).
6. "Using technology in Teaching" Training program, FLDC, Helwan University (2012).
7. "Quality Standards in the Teaching Process" Training program, FLDC, Helwan University (2014).
8. " Effective presentation" Training program, FLDC, Helwan University (2014).
9. " Time and Meetings Management" Training program, FLDC, Helwan University (2014).
10. " Local and global competitive research projects" Training program, FLDC, Helwan University (2018).
11. "Biomedical statistics using IBM SPSS" workshop, Faculty of pharmacy, Helwan University, 3rd IPC (2019).
12. "Academic Advisor'' Training program, FLDC, Helwan University (2020).
13. "Strategic planning'' Training program, FLDC, Helwan University (2020).

14. "Establish and operate question banks" Training program, Student Assessment Center, Helwan University (2020).
15. "Organizing scientific conferences" Training program, FLDC, Helwan University (2020).
16. "University administration" Training program, FLDC, Helwan University (2020).
17. The Use of Animal Models in Biomedical Research: Roles and Ethics, Helwan University (2020).
18. " Logical Scientific Manuscript Structure" Helwan University (2020).

* **Conferences:**

1. "Biochemistry and molecular Biology- present and future-" The annual scientific conference of the Egyptian Society of Biochemistry and Molecular Biology (2010).
2. A symposium on "chronic chest diseases", hold in Helwan University (2010).
3. Biochem Cairo, (Molecular Biochemistry in Clinical Practice) meeting, The learning resource center, Kasr Al Ainy Faculty of Medicine, Cairo University, (30th March 2013) attendance and poster participation.
Poster title: **Clinical value of Heat shock protein 60 in cardiovascular complications in Egyptian patients with type 2 diabetes.**
4. "Diagnosis of diseases and health care" 11TH national conference, Egyptian National Committee for Biochemistry and Molecular Biology, Ain Shams University (2014).
5. 3rd Future University International Conference on Pharmaceutical Sciences, February 9-11, Intercontinental Hotel, City Stars (2015).
6. 4th Future University International Conference on Pharmaceutical Sciences, 31st January-2nd February, Dusit Thani Hotel 3 (2017).
7. The 1st International Pharma conference, Held on 1-2 October Tolip Hotel, Zahraa Nasr City, Cairo, Egypt. (2017). (Organizing committee member and attendee)
8. The International Conference of Biochemistry &Molecular Biology in The 21st Century "Bridge to transitional medicine & pharmaceutical technology" Held on 24th -25th of March, German University in Cairo (2018).

9. The 2nd International Pharma conference, Held on 11th -12th September, Air Defense House, Nasr City, Cairo, Egypt. (2018). (Organizing committee member and attendee)
10. The 3rd International Pharma conference, Held on 11th -12th September Tolip El Narges, New Cairo, Cairo, Egypt (2019). (Organizing committee member and attendee).
11. The 4th International Pharma conference, Held Virtually on 18th-19th November, Helwan University (2020). (Organizing committee member and attendee).

* **MENTORSHIP:**

- Hanaa Baskals, Biochemistry and molecular biology Master program (Granted in 2012).
- Heba Taha Sharaf El-din, Biochemistry, and molecular biology PhD program (Granted in 2014).
- Hanaa Baskals, Biochemistry and molecular biology PhD program (Granted in 2016).
- Salma Mansour, Biochemistry, and molecular biology Master program (Granted 2021).
- Asmaa El-gedawy, Biochemistry and molecular biology Master program
- Yasmin Maher Helmy, Biochemistry and molecular biology Master program
- Walaa Nassif, Biochemistry and molecular biology PhD program
- Nadia Mangoud, Biochemistry, and molecular biology Master program.

* **Publications**

1. Amel Abd Allah Hashim, Mahmoud Youns, Ahmed Abd Al-Rahman Soltan, Sahar Abd El-Mohsen Ali. **Nuclear Matrix Protein-22 and Telomerase Reverse Transcriptase Are Diagnostic Markers for Bladder Carcinoma in Egypt**. Journal of Cancer Therapy, 2011, 2, 646-653.
2. Hanaa B Atya, Zeinab A Hassan, Ashraf I Amin and Sahar Abd El-mohsen Ali. **Vaspin concentration in obesity, impaired glucose tolerance and Type 2 diabetes in Egypt**. Advanced research in biological sciences. 1(1), pp.6-13, 2013.

3. Heba Taha, Zeinab A Hassan, Ashraf I Amin, Sahar Abd El-mohsen Ali. **Comparison of the predictive value of Hsp60 to other markers of cardiovascular disease among Egyptian patients with type 2 diabetes.** International Journal of Pharmacy and Pharmaceutical Sciences. Vol 5, Suppl 2, 2013.
4. Rehab Kamel, Amel Abd Allah Hashim, Sahar Abd El-Mohsen Ali. **Palliative effect of curcumin on STZ-induced diabetes in rats.** International Journal of Pharmacy and Pharmaceutical Sciences. Vol 6, Suppl 2, 558-563.
5. Sahar Ali, Dalia Abdelaziz. **The protective effect of date seeds on nephrotoxicity induced by carbon tetrachloride in rats.** International Journal of Pharmaceutical Sciences Review and Research. 2014; 26(2):62-68.
6. Mohamed M. S., Ali S. A., Abdelaziz D. H. A. and Fathahala S. S. **Synthesis and evaluation of novel pyrroles and pyrrolopyrimidines as anti-hypoglycemic agent.** BioMed Research International, 2014 Article ID 249780, 13 pages.
7. Dalia H.A. Abdelaziz, Sahar A. Ali. **The protective effect of *Phoenix dactylifera* L. seeds against CCl4-induced hepatotoxicity in rats.** Journal of Ethnopharmacology. 2014; 155(1):736-43.
8. Dalia H.A. Abdelaziz, Sahar A. Ali, Mahmoud M. A. Mostafa. ***Phoenix dactylifera* seeds ameliorate early diabetic complications in streptozotocin-induced diabetic rats.** Pharmaceutical Biology. 2015; 23:1-8.
9. Amel A. Hashim, Sahar A. Ali, Ibrahim A. Emara, Mohamed H. El-Hefnawy. **CTX correlation to disease duration and Adiponectin in Egyptian children with T1DM.** J Med Biochem 35: 34–42, 2016.
10. Sahar A. Ali, Walaa H. Nassif, Dalia H. Abdelaziz. **Alterations in serum levels of fetuin A and selenoprotein P in chronic hepatitis C patients with**

concomitant type 2 diabetes: A case-control study. Clinics and Research in Hepatology and Gastroenterology 2016.

11. Heba Taha, Sahar Abd El-mohsen Ali, Ashraf Ami, Zeinab Hassan. Heat Shock Protein 60: A Marker of Cardiovascular Diseases in Type 2 Egyptian Diabetic Patients. Journal of Advanced Pharmacy Research. 2017, 1 (1), 58-65.
12. Hanaa B. Atya, Sahar A. Ali, Mohamed I. Hegazy and Fathia Z. El Sharkawi. **Is rs763780 in IL-17F gene considered risk factor to multiple sclerosis in Egyptian patients?** Metagene. Volume 14, December 2017, Pages 124-128.
13. Atya HB, Ali SA, Hegazy MI, El Sharkawi FZ. **Urinary Urea, Uric Acid and Hippuric Acid as Potential Biomarkers in Multiple Sclerosis Patients.** Indian J Clin Biochem. 2018 Apr; 33(2):163-170.
14. Samir M. Awad, Yasser M. Zohny, Sahar A. Ali, Shahenda Mahgoub and Ahmed M. Said. **Design, Synthesis, Molecular Modeling, and Biological Evaluation of Novel Thiouracil Derivatives as Potential Antithyroid Agents.** MOLECULES. 2018; vol. 23 (11), 2913.
15. Fathia Z. El Sharkawi, Sahar A. Ali, Mohamed I. Hegazy, Hanaa B. Atya. **The combined effect of IL-17F and CCL20 gene polymorphism in susceptibility to multiple sclerosis in Egypt.** Gene. 2019; 685: 164–169.
16. Shady Z. K. Estfanous , Sahar A. Ali, Sameh M. Seif, Sameh H. A. Soror , and Dalia H. A. Abdelaziz. **Inflammasome Genes' Polymorphisms in Egyptian Chronic Hepatitis C Patients: Influence on Vulnerability to Infection and Response to Treatment.** Mediators of Inflammation 2019; Volume 2019, Article ID 3273645, 12 pages.
17. Ahmed M.A. Akabawy, Heba I. Hamed, Wafaa S. Hegab, Hewaida A. Fadel, Sahar A. Ali. **Adipokines at the crossroad between obesity and type 2**

diabetes mellitus. International Journal of Clinical Biochemistry and Research. 2019; 6(1):111-117.

18. Polymorphism in the Promoter Region of Let-7 and Response to Doxorubicin Treatment in Egyptian Hepatocellular Carcinoma. Asmaa El-gedawy, Sahar A. Ali, Reda Tabashy, Abd El-Hady Abd El-Wahab, Zeinab A. Hassan. Journal of Advanced Pharmacy Research. (2020); 4 (2): 56-62.
19. Targeting NUPR1 for Cancer Treatment: A Risky Endeavor. Salma M A Mansour, Sahar A Ali, Shaira Nofal, Sameh H Soror. Current Cancer Drug Targets. (2020); 20(10): 768-778.
20. Design, synthesis, molecular modelling and biological evaluation of novel 3-(2-naphthyl)-1- phenyl-1H-pyrazole derivatives as potent antioxidants and 15-Lipoxygenase inhibitors. Sahar A. Ali, Samir Mohamed Awad, Ahmed Mohammed Said, Shahenda Mahgoub & Naglaa Mohamed Ahmed. ENZYME INHIBITION AND MEDICINAL CHEMISTRY (2020); 35, 847–863.
21. New phenolic compounds from *Calothamnus quadrifidus* R.Br. aerial parts and their antioxidant activity. Reham R. Ibrahim; Haitham A. Ibrahim, Samah S. Shabana, Doaa G El-Hosari, Sahar A. Ali, Shahenda Mahgoub & Fatma A. Moharram. NATURAL PRODUCT RESEARCH (2020);1-9. Online ahead of print.
22. Chitinase 3- like 1, Tolloid-like Protein 1 and Intergenic Gene Polymorphisms are Predictors for Hepatocellular Carcinoma Development after Hepatitis Virus Eradication by Direct-Acting Antivirals. Nadia O.M. Mangoud, Sahar A. Ali, Mohamed El Kassas, Sameh H. Soror. IUBMB (2020). Dec 21. doi: 10.1002/iub.2444. Online ahead of print.

★ **Research support:**

- 2015-2016: Research Support & Technology Development Grant (RSTDG) Funded from STDF, Egypt; 100,000 EGP. Role: co.PI

Title of the project: Inflammasome genes polymorphisms in hepatitis C; Impact on susceptibility to infection, and disease outcome.

- 2018-2019: Research Support & Technology Development Grant (RSTDG) Funded from STDF, Egypt (No: 25458); 100,000 EGP. Role: co.PI

Title of the project: Utility of 5-aryl-2- furanones for synthesis of other heterocycles with anticipated medicinal activities.

★ **Research skills:**

Mol. Biology: Proteins extraction and assessment using Western Blotting and ELISA

Nucleic acid (DNA, mRNA, miRNA, circular RNA) extraction and assessment using PCR and qt- PCR

Modulation of gene expression.

Exp. animals: Maintaining experimental animal colonies.

Handling, injecting (i.p, p.o, s.c) and bleeding mice and rats.

Blood and different tissues isolation from rats.

Statistics: Experimental and clinical data analysis using Excel, INSTAT and Prism.

★ **Editorial activities:**

-Reviewer for Journal of Pharmaceutical Biology

-Reviewer for Journal of Advances in Pharmacoepidemiology & Drug Safety

-Reviewer for Journal of Molecular biomarkers & Diagnosis

★ **Special skills**

○ **Computer**

- Experience in computer programs (Word, Excel, Power point...etc) and with the programmes used for statistical analysis (Instat, Prism, SPSS).

○ **Languages**

- English: fluent spoken, very good written
- Arabic: mother tongue