



Sara Aly Abd El Rahman El Derbaly

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Research gate:	Sara EL DERBALLY Menoufia University -

ACADEMIC PROFILE

Medical biochemist with a Doctorate in Medical Biochemistry & Molecular Biology and strong expertise in undergraduate and postgraduate teaching, exam design, and multidisciplinary research. Currently Lecturer of Medical Biochemistry & Molecular Biology, Faculty of Medicine, Menoufia University, Egypt & Assistant professor of Medical Biochemistry, Basic Medical Sciences, Ibn Sina University for Medical Sciences, Amman, Jordan. Author in internationally indexed journals (Elsevier, Springer). Actively supervising theses and developing curricula across Medicine and Dentistry faculties.

EDUCATION

- **(2005-2011):** Bachelor of Medicine and Surgery (**M.B.B.CH.**), Faculty of Medicine, Menoufia University, Egypt. (Excellent with honor grade).
- **(4/2017):** Master degree (**M.Sc.**) in Medical Biochemistry and Molecular Biology, Faculty of Medicine, Menoufia University, Egypt.
- **(7/2021):** Doctorate Degree (**M.D**) in Medical Biochemistry and Molecular Biology, Faculty of Medicine, Menoufia University, Egypt.

• **WORK EXPERIENCE**

- House officer and general practitioner at Ministry of Health, Egypt. (3/2012 to 7/2013)
- Demonstrator at Medical Biochemistry and Molecular biology Department, Faculty of Medicine, Menoufia university, Egypt. (7/2013 to 4/ 2017)
- Assistant lecturer at Medical Biochemistry and Molecular biology Department, Faculty of Medicine, Menoufia university, Egypt. (4/2017 to 9/2021)
- Lecturer of Medical Biochemistry & Molecular Biology, Faculty of Medicine, Menoufia University, Egypt. (9/2021 to 10/2024)
- Assistant professor of Medical Biochemistry, Basic Medical Sciences, Ibn Sina University for Medical Sciences, Amman, Jordan. (10/2024 till Present)

ACADEMIC & EDUCATIONAL EXPERIENCES

Curriculum Planning

- Participation in planning and specification of undergraduate and postgraduate curriculums

Teaching Interests

-Theoretical and practical teaching of Medical Biochemistry, and Molecular biology for Undergraduate and postgraduate medical students at Faculty of Medicine, Faculty of Dentistry and Faculty of Applied Sciences and Technology - Menoufia & Menoufia National universities- Egypt and at Ibn Sina University for Medical sciences- Amman- Jordan.

-Large group teaching experience (Lectures and Labs to medical and health science students)

-Small group and interactive teaching methods (TBL, CBL, and PBL)

Seminars

-Participation and attending the different seminars in the field of Medical Biochemistry and Molecular Biology at Faculty of Medicine – Menoufia University- Egypt and at Ibn Sina University for Medical sciences- Amman- Jordan.

Exams

-Sharing in the exams and designing examination questions for assessment of both undergraduate & postgraduate medical students at Faculty of Medicine, Menoufia University, Egypt, and undergraduate medical students (special integrated medicine program) at Faculty of Medicine –Menoufia University-Egypt and at Ibn Sina University for Medical sciences- Amman- Jordan.

Administrative roles

-Coordinator of Biochemistry 1 & 2 modules, Faculty of Medicine, Ibn Sina University for Medical Sciences (2024, 2025)

- Coordinator of Genitourinary module, Faculty of Medicine, Ibn Sina University for Medical Sciences (2024, 2025)

-Quality Assurance Coordinator for Biochemistry Unit of Basic Medical Sciences Department, Faculty of Medicine, Ibn Sina University for Medical Sciences (2024 & 2025)

- Department Coordinator for the Nutrition and Renal modules, Faculty of Medicine, Menoufia university (2021, 2022 & 2023)
- Department coordinator for the postgraduates, Faculty of Medicine, Menoufia university (2021, 2022 & 2023)
- Member of the Crisis and Disaster Management Committee, Faculty of Medicine, Menoufia university (2022 & 2023)
- Member of the Laboratory Committee, Faculty of Medicine, Menoufia university (2022, 2023)
- Member of the Examination Control Committee for undergraduates, Faculty of Medicine, Menoufia university for 3 years (2017, 2021 & 2022)

SUPERVISION

Complete supervision:

-MD thesis in Medical Biochemistry and Molecular biology:

- The potential link between mitochondrial DNA copy number and risk of endometriosis in Egypt

-Master thesis in Biochemistry (Faculty of Science):

- The potential link between Q 705 K polymorphism of NLRP3 gene and Tinea Versicolor
- The potential role of BBOX1-AS1 LncRNA, HOXB7 and IGF2BP1 gene expressions in non-melanocytic skin tumors
- The potential link between LncRNA MEG3 and RORyt & IL-17 gene expressions in patients with Hashimoto thyroiditis

Ongoing supervision:

-Master thesis in Dermatology:

- PCAT1 gene expression in androgenic alopecia
- Interferon kappa (IFN- κ) and Interleukin 17 gene expression in psoriasis vulgaris
- MIAT in Psoriasis: Clinical and Molecular study
- Gasdermin B and Interleukin 17 gene expression in psoriasis vulgaris
- Zonulin in non-segmental vitiligo, A clinical, biochemical and immunohistochemical study
- Serum and Salivary Adipsin Levels in Patients with Androgenetic Alopecia
- HOTAIR in Androgenic Alopecia: Clinical and Molecular Study
- Assessment of levels of vitamin B12, ferritin and iron in patients with viral warts

-Master thesis in Biochemistry (Faculty of Science):

- The potential role of miR 3148 and miR 585-5p in breast cancer
- Study the association between Mecp2 single nucleotide polymorphism & its mRNA expression and Rheumatoid Arthritis
- The association of Interleukin-16 polymorphism and its relative expression in Vitiligo
- The Role of Neurocalcin Delta in Duchenne Muscular Dystrophy
- The potential role of XIAP-ASI & CRNDE Long non coding RNAs and XIAP mRNA expressions in Patients with Lung Cancer

RESEARCHES

- Linking lncRNA MEG3, ROR γ t, and IL-17 to immune dysregulation in Hashimoto's thyroiditis: Potential for early diagnosis and monitoring published in Gene reports- ELSEVIER SCIENCE INC 2025
- Honokiol Ameliorates Reserpine-Induced Fibromyalgia through Antioxidant, Anti Inflammatory, Neurotrophic, and Anti-Apoptotic Mechanisms published in Scientific reports- Springer Nature 2025
- Treadmill training protects Valproic Acid-Induced Autistic Features via cerebellar AMPK/PPAR- γ dependent pathway and improves mitochondrial activity in mice published in Scientific reports- Springer Nature 2025
- Vitamin D and canagliflozin combination alleviates Parkinson's disease in rats through modulation of RAC1/NF- κ B/Nrf2 interaction published in Immunopharmacology and Immunotoxicology-Taylor & Francis 2025
- Detection and Validity of Long non-coding RNAs HOST2, HOTAIR, HOXA-AS2, and MALAT1 as Biomarkers for Hepatocellular Carcinoma published in Human Gene- ELSEVIER SCIENCE INC 2024
- Concurrent Detection of the Mitochondrial DNA Copy Number and the +35G/C Polymorphism in the Mitochondrial Transcription Factor A Gene in Endometriosis published in Archives of Biochemistry and Biophysics- ELSEVIER SCIENCE INC 2024
- Concurrent genotyping and expression of NLRP3 inflammasome in pityriasis versicolor patients' skin lesions published in Archives of dermatological research- Springer Nature 2024
- Luteolin ameliorates Indomethacin-Induced Gastric Ulcer in Rats via Activation of Nrf2/HO-1 Pathway published in MMJ- Wolters Kluwer Medknow 2024
- Simultaneous genotyping of rs3752462 and rs4821480 at non-muscle myosin-9 in diabetic nephropathy published in Gene reports - ELSEVIER SCIENCE INC 2021
- C677T single nucleotide polymorphism of methylene tetrahydrofolate reductase gene and colorectal cancer published in MMJ- Wolters Kluwer Medknow 2017
- Multiple original research articles are currently under peer review in indexed, high-impact international journals in the field of Medical Biochemistry & Molecular Biology

REVIEWING ACTIVITIES

Peer Reviewer for Indexed Journals:

- Archives of dermatological research- Springer Nature 2025

LANGUAGE SKILLS

Arabic: Native

English: Excellent

COMPUTER SKILLS

- Office package (SPSS, Excel, Word, Power point)
- Digital Transformation training courses
- Uploading course materials, managing assessments, tracking student performance, and communicating through the university's digital platforms
- Internet

ATTENDANCE CERTIFICATES

- Workshop of Using AI & Other Technologies to Enhance Teaching and Learning by George Washington university, 2025
- Workshop of Teaching Gen Z Students Using Backward Design by George Washington university & UT Health San Antonio, 2025
- Workshop of Management your time by George Washington university, 2025
- Workshop of Professionalism in Medicine by George Washington university, 2024
- Workshop of basic molecular techniques at central lab, Faculty of Medicine, Menoufia University, 2023
- Attendance and participation in the 25th, 26th and 29th annual conferences of Faculty of Medicine- Menoufia University.
- Attendance of large group teaching program at MEHRD center.
- Attendance of online training course (Essential skills for distance learning) conducted by Measurement and Assessment unit, Faculty of Medicine, Menoufia University.
- Attendance of online training course in Scientific writing and publication
- Attendance of online training course in artificial intelligence applications
- Attendance of online training course in medical statistics for non-statisticians

REFERENCES

- References and all Certificates are available up on request.