

Curriculum Vitae

Personal Information

Name : Heba Mohamed Abd el kareem Ali.
Academic degree : Assistant professor.
Birth date : 27-10-1980.
Nationality : Egyptian.
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Academic Background

- M B B ch., Medicine and Surgery, Benha University, Egypt, 2003.
- M.Sc., Medical Biochemistry& Molecular Biology, Benha University, Egypt, 2010.
- Ph.D., Medical biochemistry, Benha Faculty of medicine, Benha University, Egypt, 2014.

Work Experience

- A house officer at Benha University Hospitals, 2004- 2005.
- A demonstrator, Biochemistry& Molecular Biology Department, Faculty of Medicine, Benha University, Egypt, 2005- 2010.
- Assistant lecturer, Biochemistry& Molecular Biology Department, Benha Faculty of Medicine, Benha University, Egypt. 2010- 2014.
- Lecturer, Medical biochemistry Benha Faculty of Medicine, Benha University, Egypt. 2014- 2018.
- Quality coordinator in Benha Faculty of Medicine.
- Deputy Manager of information technology (IT) unit at Benha Faculty of Medicine. Benha University, Egypt.

- Lecturer of medical biochemistry & Molecular biology at Health technical Institute, Egypt. 2015-2018.
- Lecturer of emergency patient's nutrition at Benha Health technical Institute. 2015-2018.
- Supervisor of medical Biochemistry exams in the health Technical institutes at the level of the Arab Republic of Egypt for two consecutive years. 2016- 2018.
- Member of board directories of Benha Faculty of Medicine laboratory for medical analysis, Tumor markers and heredity.
- Examiner in human Biochemistry for the Doctorate, Master, and MBBS Degrees in Faculty of Medicine, Benha University, Egypt.
- Assistant professor of Medical Biochemistry& Molecular Biology, Mutah Faculty of Medicine, Mutah University, Jordan. 2018 until now.
- Assistant dean for quality affairs at Mutah Faculty of Medicine, Mutah University, Jordan.
- Reviewer in the American Journal of Biochemistry and Biotechnology, Journal of Cosmetic Dermatology.

Research interest

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| - Molecular genetics | - Molecular microbiology | - Molecular immunology |
| - Gene therapy | - Biomarkers studies | - Stem cell therapy |

Research and Publications

- Blood Ras-Association Domain family 1-A gene methylation status in some liver diseases. Science Journal, 2011, 8 (2).
- Costunolide suppresses the metastasis of hepatocellular carcinoma through down regulation of matrix metalloproteinase. Arab. J. Lab. Med. (2018) Vol. 43, No. 3: 439 – 445.
- The effect of melatonin on apoptosis in hepatocellular carcinoma cell line: An experimental study. (MJVH) 2019; 4 (2) - pp. 75-79.

- Gefitinib versus melatonin as therapeutic agents for induction of apoptosis in HepG2 hepatocellular carcinoma cell lines. *Arab. J. Lab. Med.* (2018) Vol. 43, No. 3 : 895 – 906.
- Leptin exerts a bone protective effect in ovariectomized rats by inhibiting osteoclastogenesis. *Bull. Egypt. Soc. Physiol. Sci.* 40(1), 166-179. 2020.
- Evaluation of the clinical value of circulating miR-101, miR-187 and miR-21 in neonatal sepsis diagnosis and prognosis. *Egypt J Med Hum Genet* 21, 12 (2020). <https://doi.org/10.1186/s43042-020-00052-w>
- Is there an association between - 2549 Insertion/Deletion Polymorphisms in the Promotor Region of the Gene Encoding for VEGFA as a Risk Factor and the Idiopathic Recurrent Spontaneous Miscarriage in a sample of Jordanian Women? *Prensa Med Argent (Genetics)*, Volume 106:3. 212. 2020.
- Methylene tetra hydro folate Reductase C677T Polymorphisms as a Risk factor for Polycystic Ovarian Syndrome in a sample of Jordanian women. *Prensa Med Argent (Genetics)*, Volume 106:3. 213. 2020.
- Evaluation of (PARP-1) Expression in Gastric Carcinoma by Immunohistochemistry and Quantitative Real-Time PCR and its Relation to HER2 Status. *The Medical Journal of Cairo University*. Vol. 88, No. 4, September: 1581-1587, 2020.
- Oxymatrine could protect against triclosan-induced ovarian toxicity in female rats by inhibiting TNF α / P38 MAPK/ Caspase-3 signaling pathway. *Egyptian Journal of Occupational Medicine*. 2021, 45 (2): 101- 116.
- Nuclear factor - Erythroid 2 - related factor2 Gene Polymorphisms in vitiligo patients. *J Clin Aesthet Dermatol.* 2021;14(6):14–17.
- DEFB1 gene polymorphisms modify vitiligo extent and response to NB-UVA phototherapy. *Dermatol Ther.* 2021 May;34(3):e14921.doi: 10.1111/dth.14921. Epub 2021 Mar 7
- The association between Folate metabolism, C677T and A1298C Polymorphisms of Methylene tetrahydrofolate reductase Gene and the genetic susceptibility of Preeclampsia among a sample of Jordanian pregnant women. *Medical Science*, 25(110), April, 2021.

- Association of rs7517847 of interleukin 23 receptor gene polymorphism with development of Juvenile autoimmune hepatitis in Egyptian children (Accepted in Egyptian liver journal).
- Study of interleukin 23 gene polymorphism in Egyptian patients with allergic rhinitis. (Publishing)
- The effect of telomerase inhibition on alpha-feto protein expression in hepatocellular carcinoma cell line (publishing)
- Member in the project of Benha medical laboratory adoption in analysis of BRCA I, II gene mutations in cancer breast and ovarian carcinomas.
- Member in the project of molecular biology unit adoption in the fields of hepatitis B virus by ELIZA thrombophilic Genes mutations in IVF failure and repeated abortions, hepatitis B and C viruses PCR.

Languages

- 1- Arabic.
- 2- English (excellent).

Training Courses

- PCR Techniques.
- Real time PCR.
- DNA Methylation Techniques.
- MicroRNA Detection techniques.
- ELISA techniques.

Conferences and workshops

- Genotyping using real time- PCR. 27 November, 2013
- Conference of Molecular Biochemistry in clinical practice. 30 March, 2013.
- Clinical applications of real time –PCR. 4-7 October, 2015.
- Conference of 1st international symposium on recent advances in treatment of cancer and diabetes. Faculty of Pharmacy, Mutah University. 2019.

- Government accountability in responding to COVID- 19, NCDS and tobacco - use. 12 May 2020
- Respiratory protection against TB and airborne infectious diseases including - COVID- 19. 12 May 2020
- TB and COVID- 19 : Finding Synergies to Advance the Fight. 6 May 2020-
- Designing and using web bases surveys. April 21-24, 2020
- Covid- 19 New Data, Biomed Pharmaceuticals, Benha University Webinar. 5 June, 2020.
- Covid -19 Update for health care professionals; What you now need to know?. Online educational program. Virology education. 23 June, 2020.
- Measuring molecular interactions by multi-wavelength analytical ultracentrifugation. Labroots,16 June, 2020.
- Webinar of Mesenchymal stromal or stem cell (MSC) workflow for efficient clinical translation: from automated GMP-compliant cell manufacturing to standardized phenotyping. Miltenyi Biotec, 23 June, 2020.
- Utilization of Telemedicine and information technology in health care. 10 February, 2021.
- Research ethics and institutional review boards. 16 February, 2021.
- Telehealth Experiences and applications: current and future. 24,25 February, 2021.
- Comprehensive analysis of next generation biologics using advanced data interpretation software, 20 October, 2021.

Human development courses

- Effective communication skills.
- Effective presentation skills.
- Time & meetings management. Benha University, 2011
- University teacher preparation course. Benha University.
- Methods of active learning. Benha University.

- TOEFL ITP – AMDST Institution. 2010.
- ICDL, Benha University. 2010.
- Statistical analysis, Benha University, February, 2021.
- Technology in teaching, Benha University, February, 2021.

Skills

- Ability to perform literature reviews and work with others in a team.
- Effective communication skills.
- Excellent experience in performing animal experiments.
- Excellent teaching skills.
- Excellent computer skills and internet.

Teaching Philosophy:

One of the main reasons why I decided to pursue a career in academia was so that I would have the opportunity to work with future generations transforming knowledge, skills and ethics from one generation into another one. Moreover, my hope that my teaching will allow me to “keep the flame of learning alive” and to be still alive in the memory of my students even after my death.

I began my teaching journey sixteen years ago. My personal belief is that my responsibilities as a professor in a variety of settings fall under two major categories - the clear and comprehensible transmission of factual information, and the teaching of how to think and reason clearly and critically.

I strive to provide a friendly, professional environment that emphasizes knowledge and improvement. My teaching is guided by three major elements: enriched-relevant curriculum, organized and respectful classroom environment, and positive professor-student relationship.

Active participation and relating the topic to personal experience and interest are crucial to my success in learning and hence teaching others. I work hard to find the relevance of a topic to the audience. My lectures have the following outlines; the subject is introduced, the details are explored and the subject is summarized again in "take home points". To create a safe learning environment, I encourage students to ask questions and give their views on the material we are covering.