



Curriculum vitae

B a h a a

M o h a m m e d B a d r

Associate professor of Medical
Microbiology and Immunology

Personal Data:

Nationality : Egyptian

Sex : Male

Marital Status : Married

CONTACT

Zarqa – Jordan

Dyarb negm– Al shrqya governorate

bbadr@zu.edu.jo

bahaabadr1977@azhar.edu.eg

Tele: (+2) 010 95853223

+962780645766

EDUCATIONS

- Bachelor degree (MB.B.Ch) in Medicine and Surgery (2001), **Very good with honor degree.**
Faculty of Medicine, Al-Azhar University
 - Master degree (M.Sc.) in Medical Microbiology and Immunology; (2010), **Excellence degree.**
Faculty of Medicine for girls, Al-Azhar university.
Research Field: Detection of Epstein-Barr Virus and Herpes Simplex Virus Type-1 in Tonsils or Adenoids.
 - Doctorate degree (PhD) in Medical Microbiology and Immunology; (2014), **Very good degree.**
Faculty of Medicine for boys, Al-Azhar University.
Research Field: Treatment Outcome of Patients with Chronic Hepatitis C Virus Infection Genotype 4 in Relation to the Interleukin-10 Promoter Polymorphism and its Serum Level.
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EXPERIENCE

- Associate professor of Medical Microbiology and Immunology
Faculty of Dentistry- Zarqa University – Jordan
September 2023- till now.
- Teaching Medical Microbiology and Immunology courses
Faculty of dentistry, Zarqa University
From 2023 till now.
- Teaching Dental Cariology and Infection control courses
Faculty of dentistry, Zarqa University
From 2023 till now.
- Assistant professor of Medical Microbiology and Immunology
Faculty of Medicine- Al-Azhar University- Egypt
May 2023- till now.
- Lecturer of Medical Microbiology and Immunology
Faculty of Medicine, Al-Azhar University
December 2014 to June 2023.
- Assistant lecturer of Medical Microbiology and Immunology
Faculty of Medicine, Al-Azhar University
November 2010 to December 2014.
- Demonstrator of Medical Microbiology and Immunology

Faculty of Medicine, Al-Azhar University

June 2006 to November 2010.

- Teaching Medical Microbiology and Immunology Course
Faculty of dentistry and Faculty of Nursing- Al-Azhar University
From 2014 to 2023.
- Clinical Resident in Microbiology unit of laboratory department; Sidnawy Hospital in Cairo
June 2008 to June 20015.
- Specialist in in Alborg laboratory; Microbiology unit
July 2010 to March 2011.
- Consultant Microbiologist in Bacteriology unit of Laboratory Department; Sidnawy hospital and Al Moattam hospital, Cairo, December 2018 To September 2023.
- Specialist in Laboratory Department, Cleopatra Hospital, Heliopolis, Cairo
January 2020 To September 2023.

CERTIFICATES:

- High Diploma in Clinical Pathology, (2020).
- Diploma online in Clinical Bacteriology, (2023) (CLSI guidelines and Antibiotic usage guidelines).
- TOEFL Course, Ain Shams University, (2014).
- International Computer Driving License (ICDL), (2015).
- Internet-based test (IBT), (2015) with 67 degrees.
- Occupational English Test (OET), (2020) with level C.

ADMINISTRATIVE DUTIES

- Member of Library committee and International Cooperation committee, Faculty of Dentistry- Zarqa University, 2024 till now.
- Member of General Safety and Infection Control committee- Faculty of Dentistry- Zarqa University, 2023 till now.
- Member of Quality Control committee - Faculty of Dentistry- Zarqa University, 2024 and 2025
- Head of Infection Control Committee -Faculty of Dentistry- Zarqa University, 2023
- Member of The Academic Guidance Committee- Faculty of Dentistry- Zarqa University, 2023

- Member of Quality Control Committee- Faculty of Medicine – Al-Azhar University, 2022
- Time table arrangement of Biomedical Science Module-Faculty of Medicine-Al-Azhar University 2020 to 2022
- Co-Ordinator for Renal Module- Faculty of Medicine- Al-Azhar University, 2022

CONFERANCES AND WORKSHOPS:

- Training webinar; How to create effective multiple-choice questions that assess higher-order thinking skills in higher education. June 2, 2025.
- Training course; Practice Hygiene – Infection control in dental practices. Jordan , April 2025.
- Program for promotion of staff members, Zarqa university; from 25-27 February 2025
- The latest updates of AI tools for scientific writing: Indispensable sites and tools for data analysis, online on 31 January 2025
- Artificial intelligence in scientific research: Tools and applications, online On 13 December 2024
- Elsevier online Workshop; Ethics in scientific publication. On 13 and 14 November 2024.
- Top artificial intelligence; Tools and latest update. online On 29 November 2024.
- Flipped learning, Interactive learning and Assessment for learning, Online workshops on 6, 7 and 12 October 2024
- How to publish research in springer nature Journals, funding from STDF in cooperation with EKB. online on 4 October 2024.
- Using Artificial Intelligence Models in scientific writing, online on 20 September 2024.
- Biomedical Research from A-Z, Egyptian Medical Syndicate, online at 30 August and 6 September 2024.
- Development program for new faculty members, Zarqa university; from 26-28 February 2024.
- Preparation program for new faculty members, Zarqa university; from 2-5 October 2023
- Promotion course for skills of staff members, Al-Azhar center for quality and training; September and October 2022.
- The fourth integrated system program workshop, Saleh Kamel Center, from 16th to 17th October 2019.
- The 20th annual conference of Al-Azhar Faculty of Medicine for girls, Spotlight on integrated system. November 2018, Cairo, Egypt.
- The 3rd annual scientific conference of clinical pathology department, Al-Azhar Faculty of Medicine, New horizon in laboratory medicine and blood bank. November 2018, Damietta, Egypt.
- The 3rd. annual conference of Al-Azhar Faculty of Medicine, New era in integrated system, November 2018, Assiut, Egypt.
- The first integrated program workshop, Al-Azhar quality assurance and training center, from 8th to 13th September 2018, Cairo, Egypt.
- Quality in research workshop, in university council meeting room, Al- Azhar University on 12-9 - 2018.
- Integrated program workshop in university council meeting room, Al- Azhar University from 8th to 13th - 9 - 2018.
- The 23th International congress for workshops, Al-Azhar Faculty of Medicine for boys, December 2017, Cairo, Egypt.

- The third medical microbiology workshop, Biosafety and biosecurity in microbiology laboratory, 5th November 2017.
- The 2nd. annual conference of Al-Azhar Faculty of Medicine, New vision in practical medicine. April 2017, Assiut, Egypt.
- PCR Techniques Al Azhar faculty of medicine for boys, Cairo (January 2011).
- Statistical analysis using SPSS workshop, Al-Azhar Faculty of Medicine for girls, from 29th to 31st December 2009.
- Workshop about tissue culture using Vero cell line in faculty of medicine for girls virology department, April 2009.
- Genomic workshop in faculty of medicine for girls, immunology department, from 15th to 16th October 2008.

ACCOUNTS:

1. Scopus: <https://www.scopus.com/authid/detail.uri?authorId=58041253300>
2. Clarivate: <https://www.webofscience.com/wos/author/record/KXR-0046-2024>
3. Google scholar: <https://scholar.google.com/citations?user=4A0YbrsAAAAJ&hl=ar>
4. ResearchGate: <https://www.researchgate.net/profile/Bahaa-Badr/publications>
5. Orcid: <https://orcid.org/my-orcid?orcid=0009-0007-9073-0451> .

PUBLICATIONS

1. Ayeledeen, G., **Badr, B. M.**, Awaji, A. A., Gaber, D. A., Elelwany, D. A., Al Abdulqader, A. K., ... & Abd-Elmawla, M. A. Unraveling the Role of THRIL/miR-137 in Fine-Tuning the Immunological Transcriptional Loop STAT4/STAT6/GATA3 in Multiple Sclerosis: Implications on Neurological Complications and Disease Subtypes. ACS Chemical Neuroscience. 2025. <https://pubs.acs.org/doi/abs/10.1021/acchemneuro.5c00299>
2. Elkady, F. M., **Badr, B. M.**, Saied, E., Hashem, A. H., Abdulrahman, M. S., Alkherkhis, M. M., ... & Aufy, M. Mycosynthesis of zinc oxide nanoparticles using *Mucor racemosus* with their antimicrobial, antibiofilm, anticancer and antioxidant activities. Scientific Reports.2025. | <https://doi.org/10.1038/s41598-025-03421-w>
3. Elkady, F. M., **Badr, B. M.**, Saied, E., Hashem, A. H., Abdel-Maksoud, M. A., Fatima, S., ... & Hashem, H. R. Green Biosynthesis of Bimetallic Copper Oxide-Selenium Nanoparticles Using Leaf Extract of *Lagenaria Siceraria*: Antibacterial, Anti-Virulence Activities Against Multidrug-Resistant *Pseudomonas Aeruginosa*. International journal of nanomedicine. 2025: <https://www.tandfonline.com/doi/full/10.2147/IJN.S497494>
4. Hashem, A. H., **Badr, B. M.**, Elkady, F. M., Abdel-Maksoud, M. A., Alamri, A., El-Tayeb, M. A., ... & Abdelaziz, A. M. Novel *Erodium glaucophyllum* (L.) Aiton growing in arid environment: Phytochemical characterization, antimicrobial, antioxidant, and anticancer potential. Electronic

- Journal of Biotechnology.2025: <https://doi.org/10.1016/j.ejbt.2025.01.005>
5. Shehabeldine AM, **Badr BM**, Elkady FM, Watanabe T, Abdel-Maksoud MA, Alamri AM et al. Anti-Virulence Properties of Curcumin/CuO-NPs and Their Role in Accelerating Wound Healing In Vivo. *Medicina*, 2025. <https://doi.org/10.3390/medicina61030515>
 6. El-Din SB, ALfiky HA, Wahsh E, Badawy H, Seliem N, El Attar S, **Badr BM** et al. Effect of garlic on sodium fluoride-induced hypertension and elevated cardiac enzymes in male albino rats. *Immunopathologia Persa*, 2025. <https://doi.org/10.34172/ipp.2025.43763>
 7. Moawad M, Youssef AM, **Badr BM**, Kasem MA, Shaker ES. Augmenting the activity of curcumin nanoform with laser as anti-cancer against lung cell line (A549). *Egyptian Journal of Chemistry*. 2025. <https://doi.org/10.21608/ejchem.2025.344890.10997>
 8. Hashem AH, Saied E, **Badr BM**, Dora MS, Diab MA, Abdelaziz AM, Elkady FM et al. Biosynthesis of trimetallic nanoparticles and their biological applications: a recent review. *Archives of Microbiology* 2025. <https://doi.org/10.1007/s00203-025-04237-y>
 9. Ayeldeen G, **Badr BM**, Shaker OG, Diab K, Ahmed T, Hassan EA, Nagaty RA, Galal S and Hasona NA. Integrated analysis of non-coding RNAs (HOTAIR and miR-130a) and their cross-talk with TGF- β 1, SIRT1 and E-cadherin as potential biomarkers in colorectal cancer. *Oncology letters* 2025. <https://doi.org/10.3892/ol.2025.14863>
 10. Alshrari AS, Hudu SA, Abdulgafar Jimoh OJ and **Badr BM**. Prevalence of Genital Herpes: Insights from Outpatient Clinic Patients. *Biomedical & Pharmacology Journal* 2024. <https://dx.doi.org/10.13005/bpj/3019>
 11. Elkady FM, **Badr BM**, Alfeky AE, Abdulrahman MS, Hashem AH, Askar AA, Abdelgayed G and Hashem HR. Genetic Insights on Meropenem Resistance Concerning *Klebsiella pneumoniae* Clinical Isolates. *Life* 2024. <https://doi.org/10.3390/life14111408>
 12. Hussein MH, **Badr BM**, Hassan KS, Ibrahim IH. Evaluation of the Effect of Topically Applied Resveratrol Gel as Adjunctive Treatment for Periodontitis. *European Journal of General Dentistry*. 2024. DOI <https://doi.org/10.1055/s-0044-1795084>.
 13. Elkady FM, **Badr BM**, Hashem AH, Abdulrahman MS, Abdelaziz A, Al-Askar AA, Abdelgayed G, Hashem HR. Unveiling the *Launaea nudicaulis* (L.) Hook Medicinal Bioactivities: Phytochemical Analysis, Antibacterial, Antibiofilm and Anticancer activities. *Frontier. Microbiol.* 2024. DOI: 10.3389/fmicb.2024.1454623
 14. Ayeldeen Ghada, **Badr BM**, Herzalla MR, Amer E, Elsabahy M, Shaker OG, Hasona NA.

Integrated Analysis of Noncoding RNAs (PVT-1 and miR-200c) and Their Correlation with STAT4/IL-6 Axis as Reliable Biomarkers for COVID-19 Severity. *Journal of Interferon and Cytokine Research* 2024. DOI: 10.1089/jir.2024.0132

15. Kamel AM, [Badr BM](#), Ali AI, El-dydamoni OA, Gaber AH, El-Hagrasy HA. Expression of regulatory T cell and related interleukins in gingivitis versus stage 3, grade B generalized periodontitis: Synergy or cacophony—A cross-sectional study. *J Int Oral Health*. 2024. DOI: 10.4103/jioh.jioh_108_24
16. Ibrahim IH, Ali AI, Zayed GM, [Badr BM](#). Topically Applied Phenytoin Gel as Adjunctive Treatment in Periodontitis Patients. *Al- Azhar Assiut Dental Journal*. 2024. DOI: [10.21608/aadj.2024.355429](https://doi.org/10.21608/aadj.2024.355429)
17. Reda ER, Ehab MA, Mostafa AH, [Bahaa MA](#). Evaluation of Conventional Versus Digital Complete Dentures Regarding Denture Retention and Microbial Growth. *Al-Azhar Assiut Dental Journal*. 2023;6(2):305-10. DOI: [10.21608/aadj.2023.326294](https://doi.org/10.21608/aadj.2023.326294)
18. Ibrahim HI, Ahmed MA, Khaled MA, [Badr BM](#). Measurement of Interleukin-1 β Level in Gingival Crevicular Fluid in Periodontitis Patients Treated by Non-Surgical Periodontal Therapy Combined with Topical Application of Melatonin Gel. *Al-Azhar Assiut Dental Journal*. 2023. DOI: <https://doi.org/10.21608/aadj.2023.296420>
19. Khalil M, Sharaf Eldin S, Sadek A, [Badr BM](#), Yassin AS. Serum total IgE as immunological marker in patients with chronic hepatitis B Virus infection, and hepatitis B related hepatocellular carcinoma. *The Egyptian Journal of Immunology*. 2023. DOI: <http://dx.doi.org/10.55133/eji.300110>
20. Hammam MA, Goda SA, Al-Shahat MS, [Badr BM](#), Ali MW. Phenotypic and molecular detection of nosocomial carbapenem resistant blaOXA-48 Klebsiella pneumoniae isolated from Al-Azhar Assiut University Hospital ICUs. *Al-Azhar Assiut Medical Journal*. 2020. DOI: http://dx.doi.org/10.4103/AZMJ.AZMJ_53_20
21. El-Moselhy EA, Issa LF, Abd-Elsattar M, Abdelati MG, Eldhshan RM, Mekky AA, Amin HH, Bashir MA, [Badr BM](#), and Al Saadawy AS. Sexually Transmitted Infections: Risk-Factors among Married Female Patients' in Assiut, Egypt. *Al- Azhar International medical journal*. 2020. DOI: <http://dx.doi.org/10.21608/aimj.2020.38500.1295>
22. El-Moselhy EA, Soliman TS, Abd El-Rahman AA, El-Tiby DM, Amin HH, [Badr BM](#). Human Brucellosis: Methods of Diagnosis and Risk Factors among Egyptian Patients at Assiut Fever

Hospital. Journal of Recent Advances in Medicine. 2020. DOI:

<http://dx.doi.org/10.21608/jram.2019.13953.1013>

23. Goda EA, Sheas MA, Abd El Mohsen MM, Ahmed MS, **Ahmed BM**, Mostafa MM. Diagnostic and Prognostic Values of Interferon Inducible Protein 10 in Occurrence and Outcome of Sepsis in Preterm Neonates. The Egyptian Journal of Hospital Medicine. 2018. DOI: <https://dx.doi.org/10.21608/ejhm.2018.20114>
24. Mahmoud A, Elsherbiny NM, Afifi NA, **Ahmed BM** and Yasin AS. Occult hepatitis B infection among blood donors in Al-Azhar university hospital, upper Egypt: the current status after 25 years of vaccine introduction. The Egyptian journal of immunology. 2018. PMID: 30242997.
25. **Bahaa MA**, Abu shady EA, Mira AA, Mohamed MA. Detection of Epstein barr virus and Herpes simplex type 1 in tonsils or adenoids. J. of Virol. Sci. 2017;2:71- 78.
26. Tash RM, El-Dydamoni OA, Ezzat AA, **Badr BM**, Radwan EE, Ahmed MI: Ghrelin and Leptin in Obese Postmenopausal Patients. Clinical Medicine and Diagnostics. 2016. DOI: [10.5923/j.cmd.20160603.06](https://doi.org/10.5923/j.cmd.20160603.06)

THESIS SUPERVISION

MD Thesis:

- 1- Phenotypic and molecular methods for detection of nosocomial carbapenem resistant klebsiella pneumoniae isolated from intensive care units of Al Azhar Assiut University hospital. Thesis 2016.
- 2- IL17A gene polymorphism, serum IL17A and total IgE in Egyptian population with chronic HBV infection and related hepatocellular carcinoma. Thesis.2019.
- 3- Evaluation of Conventional Versus Digital Complete Dentures Regarding Denture Retention and Microbial Growth. Thesis 2019.

Master Thesis:

- 1- Occult Hepatitis "B" Virus Infection among Egyptian Blood Donors in Assiut University Hospital. Thesis 2016.
- 2- Evaluation of the possible Relationship Between Obesity and Gingival Crevicular Fluid Resistin Level in Periodontitis Patients. Thesis 2019.
- 3- Measurement of Interleukin-1 β Level in Gingival Crevicular Fluid in Periodontitis Patients treated by Non-Surgical Periodontal Therapy Combined with Topical Application of Melatonin Gel. Thesis 2019.

LANGAUGES

- Arabic native speaker
- English: fluent speaking, reading and writing

COMPUTER SKILLS

- ICDL Certificate: 2015
- Good experience in Word, Presentation and Excel sheet.

REGISTRATION

- Egyptian medical syndicate: 147528
- practice license number: 150528

REFERANCES

- Professor Mostafa Abdel-Naser
Professor of Medical Microbiology and Immunology
00201017148823
- Professor Olfat Shaker
Professor of Medical biochemistry
00201227449192
- Dr. Fayeg El-Makdadi
Vice Dean - Faculty of dentistry – Zarqa University
felmagdadi@zu.edu.jo