# Omar Mohammed Hameed

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## PROFESSIONAL SUMMARY

Infectious diseases lecturer with 6 years of experience in teaching and laboratory research, specializing in molecular biology, microbiology and parasitology. Skilled in developing innovative curriculum and engaging students in laboratory activities. Committed to fostering a collaborative learning environment and mentoring students in their academic pursuits. Dedicated to advancing medicinal sciences through research and community outreach.

## EDUCATION

### PhD in Parasitology (Mar 2024)

University of Sfax, Faculty of Science, Department of Biology

> Thesis title: “Exploring the Therapeutic and Medicinal Efficacy of Iraqi Honey: Biochemical Profiling and Comparative Effect in Managing *E. histolytica* Infection in Rabbits”
> Committee : Mohamed Trigui, Bassem Khemakhem, Abdelfattah Elfeki, Mohamed Makni, Ohood Mzahim and Imen Fendri ( President )

### MSc in Applied and Molecular Parasitology (Nov 2019)

Alexandria University, Medical Research Institute, Department of Parasitology

> Thesis title: “ Evaluation of Multiplex Real-Time PCR in Detection of Enteric Pathogenic Protozoa in Children”
>
> Committee : Mona El Sayad, Azza Hassan, Naglaa Mohamed, Heba Ibrahim, Mohamed Ahmed and Hoda Farag ( President )

### BSc in Pathological analysis (Aug 2016)

University of Samarra, Faculty of Applied Science, Department of Pathological Analysis.

## CURRENT POSITION

* Lecturer at University of Samarra, Faculty of Applied Science, Department of Pathological Analysis.

* Head of Scholarships and Cultural Relations Unit, Faculty of Applied Science, University of Samarra.

## RESEARCH-RELATED SKILLS

Academic writing, EndNote and reference management tools, ethics knowledge, data analysis, knowledge of lab procedures, primary research techniques, report writing and scientific writing.

## RESEARCH EXPERIENCE

“Therapeutic and Medicinal Efficacy of Iraqi Honey vs diarrheal infection” University of Samarra, Iraq

- Conducted data collection and analysis , leading to publication in a high-impact journal

“ Evaluation of Multiplex Real-Time PCR in Detection of Enteric Pathogenic Protozoa in Children” Alexandria University, Egypt

- Designed a study in which 100 diarrheic children were examined by stained microscopy smears and multiplex RT-PCR for gastrointestinal protozoa.

“Histopathological and immunohistochemical studies on the effects of silver oxide nanoparticles (AgNPs) on male rats' liver” Al-Nahrain University, Iraq

- Silver oxide nanoparticles (AgNPs) were synthesized and shown to cause dose-dependent biochemical, histological, and immunohistochemical alterations in rat liver tissue. The findings highlight the potential toxicity of AgNPs, particularly through p53 protein expression changes.

“Hidden Antibody Testing: Assessing Immune Response Against Surface Antigens of the Parasite *Leishmania Donovani* using ELISA” Al-Furat Al-Awsat Technical University, Iraq

- The aim of study to Evaluate Immune reactivity to *L. donovani* surface antigen rK39 using ELISA in patients suspected of having VL. And to establish correlations of anti-rK39 antibodies levels, organ enlargement (splenomegaly, hepatomegaly), and disease severity to enhance diagnosis and prognosis.

“Impact of Crude Phenolic Extract from Cinnamomum cassia L. on Reducing the Side Effects of paclitaxel on Selected Biochemical Parameters in White Rats” Al-Nahrain University, Iraq

- Conducted data collection and analysis has been Accepted in a high-impact journal ( Journal of Animal Health and Production on 04-11-2025 ).

## PUBLICATIONS

- **Hameed, O. M**., Shaker, O. M., Ben Slima, A., & Makni, M. (2024). Biochemical Profiling and Physicochemical and Biological Valorization of Iraqi Honey: A Comprehensive Analysis. Molecules, 29(3), 671. https://doi.org/10.3390/molecules29030671
- Yahya, A., Alsadee, S., Adil Obaid, W., **Mohammed Hameed, O.**, & Hasan, A. F. (2024). Histopathological and immunohistochemical studies on the effects of silver oxide nanoparticles (AgNPs) on male rats' liver. Journal of Bioscience and Applied Research, 10(3), 392-398. doi: 10.21608/jbaar.2024.298240.1054
- Abd El-Latif, n. f.,El-Sayad, M.H., Abdelrahman, M., Saeed, T., **Hameed, O**. **M.,** & Ibrahim, H. S. (2022). Evaluation of Multiplex Real-Time PCR in Detection of Enteric Pathogenic Protozoa among Diarrheic Children. Journal of the Egyptian Society of Parasitology, 52(3), 519-526.
- Hameed, S. A., Alaboudi, S. K. A., **Hameed, O. M**., & Abd Ali, H. N. (2025). Hidden Antibody Testing: Assessing Immune Response Against Surface Antigens of the Parasite Leishmania Donovani using ELISA.

## RESEARCH INTERESTS

- Epidemiology of parasitic diseases
- Drugs resistance in parasites and their hosts
- Traditional medicinal plants and bioactive compound identification.
- Environmental changes (climate change, land use) affect parasite transmission cycles.
- Molecular and immunological mechanisms underlying host defense and parasite evasion strategies
- Chemical compounds, natural products, and synthetic molecules with potential antiparasitic activity.
- Host immunity interacts with medicinal treatment to influence parasite clearance and disease outcome.

## SCIENTIFIC, PROFESSIONAL CAREER IN IRAQ AND QUALIFICATION

- Lecturer ( 2021-2022 ):  Northern Technical University - Al-Dour Medical Institute - Department of Medical Laboratories
- Lecturer (2023- present): University of Samarra, Faculty of Applied Science, Department of Pathological Analysis.

## PEDAGOGIC ACTIVITY

Courses Taught

- Infectious diseases (Undergraduate level)
- Parasitology (Undergraduate level)
- Protozoa (Undergraduate level)
- Trematodes (Undergraduate level)

## SUPERVISION ACTIVITIES

- Supervised (12) undergraduate students on research projects related to parasitology and infectious diseases.