

RAGHAD NAJI SHIHAB, PhD

Lecturer in Biological Sciences

General Biology | Microbiology | Immunology | Molecular Biology | Human Physiology

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ACADEMIC PROFILE

University lecturer and biologist with a PhD in Biological Sciences and an MSc in Microbiology and Immunology. Experienced in higher education, laboratory sciences, and biomedical research, with demonstrated teaching coverage across General Biology, Microbiology, Immunology, Molecular Biology, and Human Physiology. Combines classroom and laboratory teaching with active peer-reviewed research in parasitology, immunology, molecular diagnostics, and cancer-related studies.

TEACHING EXPERTISE

General Biology	Microbiology	Immunology
Molecular Biology	Human Physiology	Parasitology

Teaching capabilities include delivery of theoretical lectures, explanation of laboratory concepts, preparation of teaching materials, and support of undergraduate learning in biological and biomedical sciences.

TEACHING & ACADEMIC EXPERIENCE

Academic Staff / Lecturer

Dijlah University, Baghdad, Iraq

Courses taught: General Biology, Microbiology, Immunology, Molecular Biology, and Human Physiology.

Science Teacher

Al-Farabi Private High School, Al-Dora, Baghdad

EDUCATION

PhD in Biological Sciences - Parasitology

University of Baghdad, College of Education for Pure Sciences (Ibn Al-Haitham)

2020-2024

MSc in Biological Sciences - Microbiology and Immunology

University of Baghdad, College of Education for Pure Sciences (Ibn Al-Haitham)

2014-2016 | Final average: 80.97%

BSc in Biological Sciences

University of Baghdad, College of Education for Pure Sciences (Ibn Al-Haitham)

2009-2013 | Final average: 91.3%

RESEARCH PUBLICATIONS

- **2026.** Shihab, R. N., & Al-Aubaidi, I. K. **Effect of programmed cell death-1/programmed cell death ligand-1 with toxoplasmosis in Iraqi thalassemic patients.** *Microbes and Infectious Diseases*. DOI: 10.21608/mid.2026.434727.3365.
- **2026.** Hamid, R. T., Ismael, D. H., Shihab, R. N., & Mohammed, N. S. **The Microbial Conductor: Orchestrating Cancer Hallmarks through the Intratumoral Microbiome.** *Iraqi Journal of Cancer and Medical Genetics*. DOI: 10.29409/s5c44z69.
- **2025.** Shihab, R. N., Hamid, R. T., Neissi, M., Mohammadi-Asl, J., Sheikh-Hosseini, M., & Nekouei, E. **Genetic Diagnosis of Oculocutaneous Albinism Type 1A: A Novel TYR Variant.** *Clinical Case Reports*, 13(9), e70818. DOI: 10.1002/ccr3.70818.
- **2025.** Shihab, R. N., Zain Elabdeen, A. A. E., & Jabbar, S. A. **Serum Biomarkers in Thyroid Malignancies: Evaluating Thyroid-Stimulating Hormone Receptor (TSHR) and Vascular Adhesion Protein-1 (VAP-1) as Potential Diagnostic Biomarker.** *Asian Pacific Journal of Cancer Prevention*, 26(3), 995-1000. DOI: 10.31557/APJCP.2025.26.3.995.
- **2025.** Shihab, R. N., Saeed, S. A., & Sulaiman, E. H. **CD4 and CD8 T Lymphocyte Cell Count in beta-Thalassemia Major Patients Infected with Toxoplasmosis.** *Iranian Journal of Medical Microbiology*, 19(3), 203-209. DOI: 10.30699/ijmm.19.3.203.
- **2025.** Sulaiman, E. H., Shihab, R. N., Obaid, A. J., Temur, A. A., & Alwan, A. A. **Immunological Evaluation of IgM and IgG Antibodies and Complement Components C3 and C4 in Thalassemia Patients with Toxoplasma gondii Infection.** *Al-Nahrain Journal of Science*, 28(3), 57-62. DOI: 10.22401/ANJS.28.3.08.
- **2025.** Shihab, R. N., & Al-Aubaidi, I. K. **Role of interferon-gamma (IFN-gamma) in Iraqi thalassemic patients infected with Toxoplasmosis.** *Advancements in Life Sciences*, 12(4), 822-826.
- **2025.** Shihab, R. N., & Al-Aubaidi, I. K. **Molecular Detection of Toxoplasma gondii via SAG2 gene in thalassemic patients using nested polymerase chain reaction analysis.** *Al-Kut University Journal, Special Issue of the 6th International Scientific Conference for Creativity and Innovation*, 723-729.
- **2025.** Shihab, R. N., Sulaiman, E. H., & Zain El Abdeen, A. A. E. **The Relationship Between Toxoplasmosis and Prostate Cancer Patients.** *Indonesian Journal on Health Science and Medicine*, 2(1). DOI: 10.21070/ijhsm.v2i1.58.
- **2024.** Shihab, R. N., & Al-Aubaidi, I. K. **Toxoplasmosis in thalassemic Iraqi patients: serological and hematological study.** *Romanian Journal of Infectious Diseases*, 27(2), 128-134. DOI: 10.37897/RJID.2024.2.5.
- **2023.** Shihab, R. N., & Al-Aubaidi, I. K. **Regulatory role of Interleukin 10 in Iraqi thalassemic patients infected with Toxoplasmosis.** *CommPrac Journal*, 20(6), 97-102.
- **2020.** Tariq, S. F., & Shihab, R. N. **Serum and salivary immunoglobulins levels in tobacco smokers of Baghdad Governorate.** *Medico-Legal Update*, 20(3), 1088-1093.
- **2020.** Shihab, R. N., Al-Dahbi, A. M., Hussein, S. A. M., et al. **The Synergistic Effect of Combining Some Antibiotics with Powder of Silver NPs, Copper NPs and Titanium NPs.** *Indian Journal of Forensic Medicine & Toxicology*, 14(4), 1745-1751. DOI: 10.37506/ijfmt.v14i4.11795.
- **2016.** Shihab, R. N., Al-Kalifawi, E. J., & Al-Haidari, S. H. J. **Environmental Friendly Synthesis of Silver Nanoparticles Using Leaf Extract of Mureira Tree (Azadirachta indica) Cultivated in Iraq and Efficacy the Antimicrobial Activity.** *Journal of Natural Sciences Research*, 6(4), 47-56.

OTHER RESEARCH PROJECTS

- Using Chromagar Orientation medium in identification of pathogenic bacteria of renal patients (reported as 2017).
- Study of immune indicator levels in Iraqi patients with renal failure (reported as 2016).
- Detection of the role of some cytokines in Iraqi patients with chronic kidney disease under dialysis (reported as 2020).

LABORATORY & RESEARCH SKILLS

- Parasitological examination and diagnostic microscopy
- Serological and immunological assays, including ELISA
- PCR-based molecular diagnostics and genetic analysis
- Clinical biochemistry, hormone assays, hematology, and routine laboratory workflows
- Operation of manual, semi-automated, and fully automated laboratory analyzers
- Research data organization, scientific writing, and literature review
- Microsoft Word, Excel, and PowerPoint; internet-based scientific research

PROFESSIONAL EXPERIENCE

Clinical Laboratory Professional

Clinical laboratory practice and diagnostic testing

CERTIFICATES & SCIENTIFIC ACTIVITIES

- Participant in multiple scientific conferences and academic activities
- Recipient of the Medal of Creativity
- Teaching Qualification Certificate
- Arabic Language Proficiency and Language Accuracy Certificate
- Training of Trainers (TOT) Diploma - Al-Araqah Foundation for Culture and Development and the General Union for Iraqi Trainers; 25 training hours, 25-30 November 2023; successfully completed the required evaluation
- Computer Proficiency Certificate - Ibn Al-Haitham College (2018)
- English Language Proficiency Certificate - Ibn Al-Haitham College (2018)
- Multiple online scientific workshops and professional-development certificates

RESEARCHER PROFILES

Scopus	Author ID 57219490170
Google Scholar	Google Scholar Profile
ResearchGate	Raghad N. Shihab
ORCID	0009-0003-2691-1929 https://orcid.org/0009-0003-2691-1929

LANGUAGES

Arabic: Native proficiency

English: Professional working proficiency in scientific reading, writing, and communication