Asst. L. Nadia Abdulwahhab

MSc. Biotechnology

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EDUCATION

University of Baghdad, Baghdad, Iraq **Graduated May 2015**
Master of Science, Biotechnology
University of Technology, Baghdad, Iraq **Graduated June 2005**
Bachelor of Science, Biotechnology **(Ranked 4 among 31 graduates)**

PROFESSIONAL EXPERIENCE

August 2022 – Present

University of Technology, Baghdad, Iraq
Biotechnology Department

- Teaching practical laboratory sessions in biotechnology and microbiology.
- Supervising laboratory experiments and training students in modern techniques.
- Preparing lectures and educational presentations.
- Assisting in preparing and grading examinations.
- Participating in academic and research activities within the department.

Integrated DNA Technologies, Coralville, IA **Nov 2020-Jan 2022**
DNA synthesis scientist II, Main Production Department

- Performed DNA and oligonucleotide synthesis using automated synthesis systems.
- Monitored and optimized synthesis processes to ensure high product quality and yield.
- Conducted quality control procedures for synthesized DNA products.
- Operated and maintained laboratory instruments used in molecular biology and DNA production.
- Followed standard operating procedures (SOPs) and laboratory safety guidelines.Recorded and analyzed experimental data and maintained accurate laboratory documentation.
- Collaborated with the production and quality teams to ensure efficient workflow and product consistency.

University of Iowa, Iowa City, IA **Oct. 2019 - Mar. 2020**
Research Assistant, Chemical & Biochemical Engineering Department

- Working in a research-supervised group and maintaining a high level of research.
- Collaborating with grad students to determine the effect of heat on species prepared in different growth conditions.
- Setting up, adjusting, calibrating, maintaining and cleaning laboratory instruments and equipment.

University of Baghdad, Baghdad, Iraq **Aug. 2012- May 2015**
Graduate Research Assistant, Biotechnology Department

- Conducted molecular analysis of clinical isolates of *Staphylococcus aureus* to determine genetic characteristics.
- Performed DNA extraction and molecular identification techniques.
- Applied PCR-based genotyping to detect methicillin-resistance genes.
- Investigated the relationship between antibiotic resistance genes and potential virulence factors.
- Analyzed and interpreted molecular biology data related to bacterial genotypes.
- Prepared research documentation and contributed to scientific reporting.
- Followed biosafety and laboratory quality standards during microbiological experiments.

University of Technology, Baghdad, Iraq. **April. 2007- Aug 2012**
Researcher Assistant, Biotechnology Department

- Taught students in labs and mentored them through experiments.
- Conducted experiments, recorded data, and analyzed results.
- Wrote detailed procedures and ensured that quality standards were met.
- Maintaining safety standards in the lab and the lab's storage areas.

PUBLICATIONS

- Abdulwahhab, N.I., Mohamed, E.A., Aljaafari, H.A.S. *et al.* Green-synthesized silver nanoparticles from Tulsi leaf extract: synergistic antimicrobial activity against bacterial and fungal pathogens. *J.Umm Al-Qura Univ. Appll. Sci.* (2026). https://doi.org/10.1007/s43994-026-00315-z
- Mohamed, Erieg Abdulwahab, Hasoon, Buthenia Abdal Hamza, Abdulwahhab, Nadia Imad, Sulaiman, Ghassan Mohammad, Jawad, Kareem Hussein, Aljaafari, Haydar Alaa Salih, Abomughaid, Mosleh Mohammad and Mohammed, Hamdoon Abdelhamid. "Green synthesis of parsley-derived silver nanoparticles and their enhanced antimicrobial and antioxidant effects against foodborne resistant bacteria" *Green Processing and Synthesis*, vol. 14, no. 1, 2025, pp. 20250094. https://doi.org/10.1515/gps-2025-0094
- Aljaafari, Haydar A. S.; Abdulwahhab, Nadia I.; Nuxoll, Eric. Antibiotic Augmentation of Thermal Eradication of Staphylococcus epidermidis Biofilm Infections. *Pathogens. 10.3390/pathogens13040327*
- Nuha. Kandala, Mahammad Abdulateef, and **Nadia Imad**. Genotyping of *Staphylococcus aureus* Isolates based on Methicillin-Resistance Genes and it is Relatedness to some Putative Virulence Factors. Iraqi Journal of Science, **2017**, Vol. 58, No.2A, pp: 626-638DOI:10.24996.ijs.2017.58.2A.5
- Nadia Abdulwahhab and Nuha. Kandala, (March 2015). Genotyping of MRSA and the Relation with Virulence Factors. Poster presented at the 3rd Annual Iraqi Undergraduate Researcher Conference, Erbil, Iraq (2015).

HONORS AND AWARDS

- Four letters of thanks and appreciation from the Iraqi Prime Minister.
- Seven letters of thanks and appreciation from the Minister of Higher Education and Scientific Research for contributions to academic and scientific initiatives.
- More than 7 thanks and appreciation letters from the head of the University of Technology
- One letter of thanks and appreciation from the College of Applied Sciences, UOT.

CERTIFICATE OF PROFESSIONAL DEVELOPMENT TRAINING

- Certificate in Modern Teaching Methods Toward Blended Learning According to the Updated Curriculum, Training Course, University of Technology, Iraq — 2024
- Certificate in Computer Proficiency Methods for Scientific Promotion of Academic Staff, Training Course, University of Technology, Iraq — 2024
- Certificate in Digital Teaching, Training Course, University of Technology, Iraq — 2024
- The National Career Readiness Certificate. (August 2019) Iowa City, Iowa, United States.
- Chemical and Biological Security Training, by the United States Department of State. (June 2018), Charleston, South Carolina, United States.