Nouf N A Mahmoud

PhD, EMBA | Pharmaceutical and Biomedical Research
Doha, Qatar | +974 77292920 | noufmahmoud0@gmail.com
LinkedIn | Google Scholar

Research Profile

Researcher in pharmaceutical and biomedical sciences with over 15 years of experience across biomedical research, pharmaceutical R&D, university teaching and research supervision. PhD in Pharmaceutical Sciences, specializing in nanotechnology. Research focuses on nanomedicine, biomaterials, wound healing, drug delivery and nanoparticle–cell interactions. Author of 45+ peer-reviewed publications and leader of over 20 cross-disciplinary R&D projects, with experience in experimental planning, funded research, data interpretation and scientific reporting. Former academic appointments at Qatar University and Al-Zaytoonah University of Jordan, with postdoctoral research at Michigan State University's Department of Radiology and Precision Health Program.

Research recognition: Included in the Stanford/Elsevier Top 2% Scientists list, Pharmacology & Pharmacy, 2026 release (2025 single-year citation impact). Fulbright Research Award recipient and L'Oréal-UNESCO International Rising Talent.

Professional Experience

Co-Founder and CEO

CiteWise, Doha, Qatar | Feb 2026–Present

- Co-founded an AI-powered research-integrity venture focused on claim-level verification, citation validation and responsible scientific writing; supported by the Digital Incubation Center, Ministry of Communications and Information Technology, Qatar.

Founder

CROSSTALK LAB, LLC, Doha, Qatar | Apr 2024–Present

- Established an education and research consultancy supporting researchers, students and startups in life sciences and social sciences.
- Trained 150+ students and researchers, mentored 30+ researchers, and delivered 30+ workshops, camps and academic events.

Global Mentor in Biomedical Sciences

Global Talent Mentoring | Jun 2023–Present

- Support talented youth internationally through science, technology and innovation mentoring and personal development plans.

Associate Professor of Pharmaceutics

Al-Zaytoonah University of Jordan | Sep 2020–Sep 2026

- Led pharmaceutics teaching and research, with student mentoring spanning study design, experimental execution, data interpretation and publication.
- Supervised and co-supervised postgraduate and undergraduate research in nanomedicine, biomaterials, wound healing and drug delivery.
- Contributed to academic quality-control initiatives and supported research development across collaborative projects.

Adjunct Associate Professor in Biomedical Sciences

Qatar University, Qatar | Mar 2022–Mar 2025

- Led biomedical research and undergraduate projects involving human dermal fibroblasts, nanoparticle toxicity and wound-healing responses.
- Served as Principal Investigator on projects examining albumin-coated nanoparticles and the effects of glucose and albumin concentrations on fibroblasts and wound-healing markers.
- Mentored students in experimental planning, interpretation of cellular and biochemical findings, and scientific communication; collaborated with local and international researchers.

Postdoctoral Researcher

Michigan State University, USA | Sep 2021–Jan 2022

- Conducted biomaterials, wound-healing and nanotechnology research in the Department of Radiology and Precision Health Program.
- Undertook research on nanofibrous materials for biomedical applications and chronic wound healing through Fulbright-supported work.

Assistant Professor of Pharmaceutics

Al-Zaytoonah University of Jordan | Aug 2016–Sep 2020

- Led pharmaceutics research and delivered undergraduate and postgraduate teaching; supported quality-control functions.
- Guided MSc research on gold nanorods, cellular uptake and toxicity, cancer-cell invasion, nanofibrous wound dressings and wound-healing applications.

Instructor, Faculty of Pharmacy

Al-Zaytoonah University of Jordan | Sep 2008–Sep 2012

- Contributed to course delivery, student supervision, assessment and academic support.

Bioequivalence Studies Principal Investigator

Dar Al Dawa Development & Investment, Jordan | Aug 2004–Nov 2006

- Led bioequivalence studies in pharmaceutical R&D, including study planning, execution and documentation in accordance with research and regulatory requirements.

Formulation Scientist

Dar Al Dawa Development & Investment, Jordan | Jul 2003–Jul 2005

- Developed and optimized pharmaceutical formulations, contributing to formulation testing, product-development documentation and quality-related research.

Selected Funded Research

Principal Investigator on the following projects. Broader funding experience includes national and international grants as Principal Investigator and Co-Investigator.

Examining the Toxicity Aspects of Albumin-Coated Nanoparticles on Fibroblasts

Qatar University | 2024

Investigating the Impact of Different Glucose and Albumin Concentrations on Human Dermal Fibroblasts and Wound Healing Markers

Qatar University | 2023

Synthesis and Characterization of Nanofibers for Biomedical Applications and Chronic Wound Healing

Fulbright Binational Commission | 2021

Novel Nano-Dressing Material for Wound Healing: A Golden Hope for Diabetic Patients

L'Oréal-UNESCO For Women in Science | 2020

Insights into the Interaction of Gold Nanorods with a Cationic Porphyrin: Synchrotron-Based XAFS Evidence

SESAME | 2019

Gold Nanorods Decorated with Phospholipid-PEG as a Novel Platform for Transdermal Vaccination of Tetanus

TWAS-COMSTECH Joint Research Grants | 2018

Education

PhD in Pharmaceutical Sciences: University of Jordan | 2016 | Specialization in Nanotechnology

MSc in Clinical Pharmacy: University of Jordan | 2007

BSc in Pharmacy: University of Jordan | 2003

Executive MBA: HEC Paris | 2023 | Major in Startups; modules at Station F, UC Berkeley and Babson College

Awards and Recognition

Stanford/Elsevier Top 2% Scientists: Pharmacology & Pharmacy | 2026 release | Single-year citation impact for 2025

Women in Leadership Scholarship: HEC Paris | May 2022

Fulbright Research Award: Binational Fulbright Commission | Sep 2021

International Rising Talent Award for Women in Science: L'Oréal-UNESCO | Nov 2020

For Women in Science Levant Fellowship: L'Oréal-UNESCO | Jul 2019

Ali Mango Award for Graduate Studies: University of Jordan | Apr 2019

Selected Publications

Selected from 45+ peer-reviewed publications. Complete publication record: Google Scholar

- Hammad AS, Zahedy SH, Elqasass SS, Said SS, Elgamal AM, Mahmoud NN, Al-Asmakh M. In Vitro Analysis of the Dynamic Role of the Bacterial Virulence Factors in Skin Wound Healing. International Journal of Molecular Sciences. 2025;26(21):10472. doi:10.3390/ijms262110472
- Mahmoud NN, Hammad AS, Al Kaabi AS, Alawi HH, Khatoon S, Al-Asmakh M. Evaluating the Effects of BSA-Coated Gold Nanorods on Cell Migration Potential and Inflammatory Mediators in Human Dermal Fibroblasts. Journal of Functional Biomaterials. 2024;15(10):284. doi:10.3390/jfb15100284
- Sharifi S, Mahmoud NN, Voke E, Landry MP, Mahmoudi M. Importance of Standardizing Analytical Characterization Methodology for Improved Reliability of the Nanomedicine Literature. Nano-Micro Letters. 2022;14:172. doi:10.1007/s40820-022-00922-5
- Mahmoud NN, Al-Kharabsheh LM, Khalil EA, Abu-Dahab R. Interaction of Gold Nanorods with Human Dermal Fibroblasts: Cytotoxicity, Cellular Uptake, and Wound Healing. Nanomaterials. 2019;9(8):1131. doi:10.3390/nano9081131

Research Supervision and Training

Supervised and co-supervised MSc theses and bachelor graduation projects. Guidance covered research design, experimental planning, data interpretation, thesis development, manuscript preparation and defense preparation.

Selected Projects as Main Supervisor

Examining the Toxicity Aspects of Albumin-Coated Nanoparticles on Fibroblasts

Bachelor graduation project | Qatar University | 2024

The Interaction of BSA-Coated Gold Nanoparticles with Human Dermal Fibroblasts

Bachelor graduation project | Qatar University | 2023

Nanofibers Material as a Potential Dressing of Wound: Development and Characterization

MSc thesis | 2020

In Vitro Anti-Invasion Activity of Surface Modified Gold Nanorods Against Prostate Cancer

MSc thesis | 2020

Cellular Uptake and Toxicity of Gold Nanorods on Human Dermal Fibroblasts

MSc thesis | 2019

Novel Gold Nanocomposite for Wound Healing in Rats

MSc thesis | 2019

Academic and Professional Service

Scientific peer reviewer | Feb 2017–Present: Scientific Reports, International Journal of Pharmaceutics, International Journal of Nanomedicine, Small and other journals.

Women in Science Community Ambassador | Apr 2023–Present: L'Oréal-UNESCO For Women in Science.

Jury member | 2020 and 2026: L'Oréal-UNESCO For Women in Science, Levant Fellowship Program.

Startup mentor | Feb–Jun 2025: Stars of Science, Qatar Foundation; supported early-stage innovators with prototyping and cross-functional innovation projects.

Mentor | May 2026: Qudwa Program, Qatar Foundation.

Additional contributions include innovation and entrepreneurship workshops, competition judging with UNESCO and Abdul Hameed Shoman Foundation, and health-tech startup coaching and mentoring with QDB.

Invited Speaking *(selected)*

WIPO | 2024: Innovation in Pharmaceutical and Biomedical Sciences: Bridging the Gap Between Research and Business.

UNESCO | 2023: Invited speaker, Paris, France.

Professional Development

Advanced IP Asset Management for Business Success, DL-450 | WIPO-KIPO | 2023

Leadership Course on Intellectual Property, Science, and Innovation for Women Scientists and Innovators | WIPO, Geneva | 2023

Leadership and Negotiation Skills Workshop | L'Oréal-UNESCO, Paris | 2022

Third Annual Precision Health Symposium | Michigan State University | 2021

17th SESAME Users Meeting and ESUO Regional Meeting | Jordan | 2019

Diamond Light Source Scientific Visit and Training | UK National Synchrotron Science Facility, Oxford | 2017

13th International Conference on X-ray Microscopy | Oxford University | 2016