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Leila Noori

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ABOUT ME

I am an experienced biomedical researcher and academic with a diverse background and dual Ph.D. degrees in Anatomical Sciences and Biomedicine, Neuroscience, and Advanced Diagnostics, supported by more than a decade of clinical, teaching, and research activity. Specialized in neuroscience, anatomy, histopathology, and biomedical diagnostics, with strong expertise in tissue analysis, microscopy, and laboratory techniques applied to both research and education.
During my doctoral studies, I explored the anti-inflammatory and regenerative effects of extracellular vesicles derived from human Wharton's Jelly mesenchymal stem cells in spinal cord injury models, reflecting my commitment to translational research. In my second Ph.D., I investigated molecular and histological changes in skeletal muscle linked to rare genetic neurochaperonopathies, showcasing expertise in molecular biology and advanced diagnostics.
I have strengthened my international profile through visiting research roles in Italy, Poland and Spain, embracing interdisciplinary collaborations.
My clinical background includes years of experience as an anesthesia technician, assisting anesthesiologists in surgical procedures and patient care in operating rooms. As a teaching assistant in anatomy and histology, I developed skills in laboratory maintenance and medical education, training both medical and paramedical students. Proficient in tissue processing, immunohistochemistry, and data interpretation, with a deep understanding of human anatomy and pathology. Being multilingual, with a bachelor's degree in English Literature, enabling effective communication and collaboration in international and multicultural environments. Recognized with awards and active in international collaborations, I am dedicated to advancing biomedical research, regenerative therapy, and education through a combination of clinical insight and scientific rigor.

WORK EXPERIENCE

BABOL UNIVERSITY OF MEDICAL SCIENCES

City: Babol | **Country:** Iran

[05/2009 – 12/2015] **ANESTHESIA TECHNICIAN**

- Assisted anesthesiologists in establishing and maintaining anesthesia care for patients undergoing surgical and diagnostic procedures.

- Prepared and set up anesthesia equipment, including ventilators, monitors, infusion pumps, and airway management devices.

- Monitored patients' vital signs during surgery and provided real-time assistance in adjusting anesthetic delivery under medical supervision.

- Ensured the safe handling, preparation, and administration of anesthetic agents and adjunct medications.

- Maintained sterility and adhered to infection control protocols during invasive procedures.

- Performed preoperative checks and troubleshooting of anesthesia machines and related equipment to ensure proper function.

- Assisted in post-anesthesia care, including monitoring recovery and supporting airway management during patient transfer.

- Collaborated with surgeons, nurses, and operating room staff to ensure smooth workflow and optimal patient safety.

- Trained and supervised junior staff and students in anesthesia setup and safety procedures.

BABOL UNIVERSITY OF MEDICAL SCIENCES

City: Babol | **Country:** Iran

[01/2016 – 09/2016] **Teaching and Laboratory Assistant in Anatomical Sciences**

- Assisted in the preparation and maintenance of histology and gross anatomy laboratories, ensuring optimal learning environments for students.

- Supported the delivery of lectures, practical sessions, and dissections for medical and paramedical students, focusing on human anatomy and histological techniques.

- Facilitated student learning by leading small group discussions, providing guidance during laboratory sessions, and offering feedback on assignments and practical exams.

- Assisted faculty in the development of course materials, including slide presentations, lab manuals, and assessment tools.

- Participated in grading of assignments, lab reports, and exams, maintaining accuracy and fairness in student evaluation.

- Managed the organization and cataloging of microscopic slides, anatomical models, and specimens for teaching purposes.

- Completed a teaching internship focused on instructional strategies and best practices in medical education.

- Collaborated with professors and other teaching assistants to continuously improve the delivery of anatomical sciences courses.

Department of Biomedicine, Neuroscience and Advanced Diagnostics,University of Palermo

City: Palermo | **Country:** Italy

[11/2019 – 02/2020] **Visitor PhD student**

- Participated in research on molecular and histological alterations associated with neurodegenerative disorders.

- Performed histological techniques, including tissue processing, staining, and immunohistochemistry.

- Collaborated with senior researchers on projects related to rare neurochaperonopathies.

- Participated in laboratory meetings, journal clubs, and seminars, enhancing scientific discussion and exchange of ideas.

- Strengthened skills in scientific writing and presentation by preparing research summaries.

Department of Biotechnology, University of Rzeszow, Poland

City: Rzeszow | **Country:** Poland

[02/2020 – 03/2020] **Visitor PhD student**

- Participated in research on molecular alterations associated with cancer cell senescence.

- Performed cell culture, molecullar techniques and microscopy.

- Collaborated with senior researchers.

- Participated in laboratory meetings, journal clubs enhancing scientific discussion and exchange of ideas.

- Strengthened skills in scientific writing and presentation by preparing research summaries.

Germans Trias i Pujol research institute

City: Barcelona | **Country:** Spain

Superior Technician

- Conducted research on immune cell dynamics, focusing on the molecular mechanisms of macrophage polarization and their role in the tumor microenvironment.

- Performed cell culture, flow cytometry, and molecular biology techniques (PCR, Western blotting) to analyze immune response markers.

- Collaborated with multidisciplinary teams on projects related to cancer immunology.

- Contributed to scientific reporting, including data analysis, figure preparation, and manuscript drafting for publication.

- Participated in regular lab meetings, journal clubs, and training sessions on advanced immunological techniques.

Arnas Civico Hospital Palermo

City: Palermo | **Country:** Italy

[01/07/2025 – Current]

Researcher

- Conduct research nervous tissue, focusing on the histopathological mechanisms of brain tissue in epileptic patients.

- Perform tissue processing and prepare paraffin embedded samples, histological staining and morphological analysis.

- Collaborated with multidisciplinary teams on projects related to glioblastoma.

- Contributed to scientific reporting, including data analysis, figure preparation, and manuscript drafting for publication.

- Participated in regular lab meetings, journal clubs, and training sessions on advanced laboratory techniques.

University of Palermo

City: Palermo | **Country:** Italy

[13/10/2025 – Current]

Anatomy lecturer

- Deliver lectures, tutorials, and practical sessions on human anatomy and histology to medical and health science students.

- Prepare and evaluate assessments and exams.

- Develop and update course materials to align with curriculum standards and learning outcomes.

- Supervise laboratory work, guide students in dissection and microscopic analysis.

- Provide academic advising and mentorship to students.

- Contribute to departmental meetings, curriculum development, and quality assurance activities.

EDUCATION AND TRAINING

[10/1998 – 06/2000]

ASSOCIATE DEGREE IN ANESTHESIOLOGY

Semnan University of Medical Sciences

City: Semnan | **Country:** Iran |

[10/2003 – 02/2007]

BACHELOR OF ART IN ENGLISH LITERATURE

Alzahra University

City: Tehran | **Country:** Iran |

[10/2012 – 09/2014] **BACHELOR OF SCIENCE IN ANESTHESIOLOGY**

Babol University of Medical Sciences

City: Babol | **Country:** Iran |

[10/2014 – 09/2016] **MASTER OF SCIENCE IN ANATOMICAL SCIENCES**

Babol University of Medical Sciences

City: Babol | **Country:** Iran |

[10/2016 – 01/2021] **PH.D. IN ANATOMICAL SCIENCES**

Tehran University of Medical Sciences

City: Tehran | **Country:** Iran |

[11/2020 – 07/2024] **PH.D. IN BIOMEDICINE, NEUROSCIENCE AND ADVANCED DIAGNOSTICS**

University of Palermo

City: Palermo | **Country:** Italy |

[27/03/2025 – 30/12/2025] **Corso di Perfezionamento "ANATOMIA TOPOGRAFICA, CLINICA, PALPATORIA E DISSETTORIA DELLA TESTA E DEL COLLO"**

University of Palermo

City: Palermo | **Country:** Italy | **Field(s) of study:** Health and welfare

SKILLS

Cell culture | Immunohistochemistry | Immunofluorescence | Immunocytochemistry | Western Blot | Real-time PCR | Immunoprecipitation | Flowcytometry | Size exclusion chromatography | Microscopy (light, confocal, fluorescent and transmission electron microscope) | Tissue processing and histology slide preparation | Animal models (rat, mice) | ImageJ | ELISA | Microsoft Office | GraphPad Prism | Microsoft Excel | Microsoft Powerpoint | Gel electrophoresis

HONOURS AND AWARDS

[06/2000] **Ranked 1st among co-admitted students in the Associate Degree Program Awarding institution:** Semnan University of Medical Sciences, Iran

[09/2014] **Ranked 1st among co-admitted students in the Bachelor's Degree Program Awardin g institution:** Babol University of Medical Sciences, Iran

[10/2014] **Admitted to Master's Degree Program through the Exceptional Talents Quota Awar ding institution:** Babol University of Medical Sciences, Iran

[09/2016] **Ranked 1st among co-admitted students in the Master's Degree Program Awarding institution:** Babol University of Medical Sciences, Iran

[10/2016] **Ranked 3rd in the PhD Entrance Examination Awarding institution:** Tehran University of Medical Sciences, Iran

[11/2020] **Ranked 1st in the PhD Entrance Examination Awarding institution:** University of Palermo, Italy

[04/2023] **Best Presentation Award, International Conference on Neuromuscular and Movement Disorders, Lisbon, Portugal**

CONFERENCES AND SEMINARS

[18/12/2017 – 20/12/2017] **1st international congress on Biomedicine, 2nd international Tehran Breast Cancer Congress (TBCC9)**
Tehran, Iran
Poster presentation

[28/06/2020 – 29/06/2020] **3rd International conference on Stem cells and Regenerative Medicine**
Online, Paris, France
Speaker

[29/09/2021] **The Role of Consciousness in Social Active Inference and The Emergence of Adaptive and Maladaptive Behaviors**
Webinar

[22/04/2021 – 25/04/2021] **93th National congress of Italian Society of Experimental Biology SIBS-1925**
Webinar

[05/05/2021] **Authors How to Publish with Springer** Webinar

[24/03/2021] **An Overview on Rimed Tissue Engeneering Program: Opportunities for Joint Grant Application**
Webinar

[21/10/2022] **The W8 physical cytometer** Webinar

[08/10/2022] **Anatomy and neuromodulation** Webinar

[15/07/2022] **Immunoassay verification and quality control practices and how they affect data output**
Webinar

[08/07/2022] **Anatomy and movements** Webinar

[12/04/2022] **Open access author webinar for Italy** Webinar

[06/04/2022 – 09/04/2022] **94th Congresso Nazionale della Societa Italianna di Biologia Sperimentale SIBS-1925**
Turin, Italy
Poster presentation

[15/02/2023 – 16/02/2023] **Urinary extracellular vesicles virtual symposium** Webinar

[13/04/2023 – 14/04/2023] **ICNMD 2023: 17th International Conference on Neuromuscular and Movement Disorders**
Lisbon, Portugal
Poster presentation

[17/05/2023 – 21/05/2023] **17-21/05/2023 Annual meeting of the International Society of Extracellular Vesicles (ISEV)**
Seattle, USA
- Selected for poster presentation
- Selected for serving as a Co-Chair for an Oral Session

[06/03/2024] **The 5th EFIS Innate immunity in Sterile Inflammation, Autoimmunity, and their Resolution seminars**
Webinar

[03/04/2024] **The 6th session of the EFIS Innate immunity in Sterile Inflammation, Autoimmunity, and their Resolution seminars**
Webinar

[10/04/2025 – 13/04/2025] **97th National congress of Italian Society of Experimental Biology SIBS-1925**
Palermo, Italy
Videotalk

LANGUAGE SKILLS

Mother tongue(s): Persian

Other language(s):

English

LISTENING C1 **READING** C1 **WRITING** C1

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1

Italian

LISTENING B2 **READING** B2 **WRITING** B1

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

Spanish

LISTENING A2 **READING** A2 **WRITING** A2

SPOKEN PRODUCTION A2 **SPOKEN INTERACTION** A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

Investigation of Epigenetic Effects of Disulfiram on the Demethylation of RASSF1A Gene's Promoter in Breast Cancer Cell Line MCF-7

Reference: Noori et al. Multidisciplinary Cancer Investigation, 1, 0-0. 2017

Stature estimation based on fingers anthropometry in Iranian population

Reference: Mojaverrostami et al. Anatomical Sciences Journal, 16(2), 87-92. 2019

The stature estimation from students' forearm and hand length in Iran

Reference: Ebrahimi et al. Journal of Contemporary Medical Science. Vol, 6(5), 213-217. 2020

Triiodothyronine improves morphology and upregulates seladin-1 of neurospheres extracted from subventricular zone in streptozotocin-induced rat model of Alzheimer's disease

Reference: Mokhtari et al. Journal of Contemporary Medical Science 6, 32-38. 2020

Calorie restriction promotes remyelination in a Cuprizone-Induced demyelination mouse model of multiple sclerosis

Reference: Mojaverrostami et al. Metabolic brain disease, 35(7), 12111224. 2020

Intrathecal administration of the extracellular vesicles derived from human Wharton's jelly stem cells inhibit inflammation and attenuate the activity of inflammasome complexes after spinal cord injury in rats

Reference: Noori et al. Neuroscience research, 170, 8798. 2020

Extracellular Vesicles-Based Drug Delivery Systems: A New Challenge and the Exemplum of Malignant Pleural Mesothelioma

Reference: Burgio et al. International journal of molecular sciences, 21(15), 5432. 2020

Biomedical features of flaxseed against different pathologic situations: A narrative review

Reference: Ebrahimi et al. Iranian journal of basic medical sciences, 24(5), 551560. 2021

Effects of illicit drugs on structural and functional impairment of testis, endocrinal disorders, and molecular alterations of the semen

Reference: Nazmara et al. Iranian journal of basic medical sciences, 24(7), 856867. 2021

Histopathological abnormalities of the skeletal muscle tissue from a patient affected by a rare genetic neuromyopathy

Reference: Scalia et al. ITALIAN JOURNAL OF ANATOMY AND EMBRYOLOGY. 126(1):89. 2022

Contribution of Extracellular Vesicles and Molecular Chaperones in Age-Related Neurodegenerative Disorders of the CNS

Reference: Noori et al. International Journal of Molecular Sciences. (2), 927. 2023

Structural and Dynamic Disturbances Revealed by Molecular DynamSimulations Predict the Impact on Function of CCT5 Chaperonin Mutations Associated with Rare Severe Distal Neuropathies

Reference: Scalia et al. International Journal of Molecular Sciences, 24(3), 2023

Putative Roles and Therapeutic Potential of the Chaperone System in Amyotrophic Lateral Sclerosis and Multiple Sclerosis

Reference: Noori et al. Cells, 13(3), 217, 2024

The attitude of medical students toward applying virtual dissection table in the learning anatomy of thorax

Reference: Hohatdoost et al. Journal of Ilam University of Medical Sciences 2025, 33(1): 18-29