Shaqayeq Mahmoudi

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Education

1 University of Science and Culture (USC)

• B.Sc. in Cellular and Molecular Biology Sep. 2019 – Feb. 2023

• Cumulative GPA: 19.40/20.00 (4/4)

Research Interests

Neuropsychiatric DiseaseNeurodegenerative Disease

Neurogenetics

Reward circuit

Visual Perception

learning & Memory

Experiences_

Internship at National Brain Mapping Lab (NBML)

Aug. 2023

Tehran, Iran

- Prepared subjects for EEG sessions(electrode placement, impedance checking, and adjusting the eye tracker).
- Identified and rejected artifacts meticulously to ensure data quality.
- Runned cognitive tests on subjects.

Internship at Skin and Stem Cell Research Center (SSRC)

Oct. - Dec. 2022

- Studied eye drops and tissue glues produced from umbilical cord stem cells.
- Participated in the culturing of umbilical cord stem cells, adhering to strict protocols for maintaining cell viability.

Teaching Assistant Sep. 2021- Jan. 2023

- Cellular and Molecular Biology2 course
- · Biostatistics course

Technical Skills

Computer Skills:

- Proficient: Microsoft Office(Excel, Word, PowerPoint), Mendeley
- Intermediate: RStudio, SPSS, GeneRunner, LTFX

Laboratory Techniques: PCR/qPCR, Recombinant DNA, DNA/RNA Extraction, Microarray, Gel Electrophoresis, Bacterial Culture, Western Blotting, Spectrophotometry, Primer Design, Buffer Preparation

Languages: Persian (Native), English (Fluent) TOEFL to be taken in November.

Academic Projects _____

Genetic Engineering

- Genetic Engineering in-course exercise
- · Conducted research on recombinant vaccines.
- Explored methods of gene therapy and assessed their efficiency for treating cancer and inherited diseases.

Radioactive Materials and their Effects on Biological Systems

- Radiobiology in-course exercise
- Conducted research on ionizing radiation and its effects on human organs.
- Explored methods for reducing the effects of radiation on living organisms.

Molecular Biology book by Robert F. Weaver, 5th edition

- Translation of the book to Persian
- Participated in translating chapters 9 and 10.

Molecular Medicine: Genomics to Personalized Healthcare book by R. J. Trent, 4th edition

- Translation of the book to Persian
- Participated in translating chapters 3 and 4.

Covid-19 Vaccines and their Mechanisms

- Virology in-course exercise
- Studied the mechanisms underlying various Covid-19 vaccine platforms, including mRNA-based vaccines, viral vector vaccines, and protein subunit vaccines.
- Gained insights into the stages of vaccine development, from preclinical research to regulatory approval & distribution.

Honors & Membership

Student member of "Neuroscience Association of National Brain Mapping Lab (NBML)."

Nov. 2022 - Present

- Received University of Science and Culture 'Straight' M.Sc. Admission offer as an Exceptional Talented Student and exempt from taking the university entrance exam. Jul. 2023
- Ranked 1st among B.Sc. Cellular and Molecular Biology graduate students at University of Science and Culture. Jul. 2023
- Student member of "Cellular and Molecular Association of University of Science & Culture."

May 2022 - Mar. 2023

- Contributor writer in 4th, 5th & 6th issues "Biocan magazine at Union of Biology Students of Iran." Magazine Jan. 2020 May 2023
- Contributor writer in 2nd & 3rd issues "**Genomics magazine at University of Science & Culture.**" Magazine Oct. 2019 Jun. 2021

Selected Courses

B.Sc. Courses (Grade/20.00)

 Cellular and Molecular Biology 1&2 (20/20), Molecular Genetics (20/20), Genetic Engineering (20/20), Metabolism Biochemistry (20/20), Biostatistics (19.75/20.00)

Online Courses

- "Data Analyst in R"- Offered by Dataquest
- "Basic, Clinical & Cognitive Neuroscience Diploma" Offered by Neurotract Certificate
- "Fundamentals of Neuroscience Parts 1&2" Offered by edX
- "Elementary Steps toward AI" Offered by Tehran University of Medical Science(TUMS)

Attended Seminars & Workshops _____

Seminars

 "Second International and Forth National CRISPR Symposium"- NIGBE Certificate 	Jun. 2022
• "Cryobiology in Organs and Sexual Samples" - Royan International Education Center(RIEC) Certificate	Mar. 2022
 "mRNA Technology in Research and Medicine"- Iranian Biologists Union Certificate 	Oct. 2021
• "Microorganisms in Health and Disease"- Union of Biology Students of Iran Certificate	Sep. 2021

Workshops	
• "Vaccine and Vaccination, from Design to Administration"- Razi Vaccine & Serum Research Certificate	Mar. 2022
 "Principles of Gene Editing and sgRNA Design Workshop"- NIGBE Certificate 	Jun. 2022
• "DNA Extraction, PCR, and DNA Paternity Test"- Atieh Negar Gene Alborz Certificate	Sep. 2021
• "Pharmacy Technician Course"- Academic Center for Education, Culture and Research	Feb Mar. 2021

References

Dr. Sara Pahlavan

• ASSISTANT PROFESSOR - UNIVERSITY OF SCIENCE AND CULTURE

Sarah.pahlevan2007@gmail.com

Dr. Batool Sanaei

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