

CURRICULUM VITAE

PERSONAL DATA



Name **Mohammad Mazaheri**
Date of birth **24.04.1997**
Nationality **Iranian**
Address **Esfahan, Iran**

Qualifications Summary: I have a master's degree in medical physiology from Isfahan University of Medical Sciences.

I am profoundly interested in exploring psychological phenomena at the neural systems level. My fascination extends to delving into stress-related psychopathologies, particularly focusing on the intricate dynamics of post-traumatic stress disorder (PTSD). This compelling area of research not only captivates my intellectual curiosity but also serves as a driving force, inspiring me to pursue in-depth investigations and contribute to advancing knowledge in this critical field and developing advanced approaches for therapeutic interventions.

WORK EXPERIENCES

Current position: Researcher

Applied physiology research center, Isfahan University of Medical Sciences

Research Projects:

- ▶ Comparative effects of melatonin and transcranial photobiomodulation (tPBM) on changes in inflammatory factors and microglia cells activation in the hippocampus of male rats under chronic stress

Contact: mohammadmazaheri167@gmail.com

Mobile Phone Number: +98 991 9861004

www.linkedin.com/in/mohammad-mazaheri-634108218

- ▶ Effects of co-administration of melatonin and low-level laser therapy (LLLT) on memory and anxiety behaviors in rats under single prolonged stress

Master of Science

Isfahan University of Medical Sciences, Esfahan, Iran

- ✓ Evaluation of memory changes and anxiety behavior in rats under chronic stress and empathic stress (M.Sc. thesis).
- Experimental Design
- Behavioral and Electrophysiological Assessments
- Stress Induction Techniques
- Data Interpretation
- Scientific Communication

ACADEMIC EDUCATION

Oct. 2021- Jun. 2024 ***MSc in Medical Physiology*** / Isfahan University of Medical Sciences, Iran

- I was among the top ten in the entering exam of medical physiology.

Oct. 2016 – Sep. 2020 ***BSc in Biology- Animal Sciences*** / University of Shahrekord, Iran

ADDITIONAL SKILLS AND KNOWLEDGE

Experimental Skills

- ✓ **Rodent handling:** Proficient in the safe and ethical handling of rodents
- ✓ **Stress Inductions:** Demonstrated expertise in isolation stress, Restraint stress, Empathic stress, and social inequality conditions.
- ✓ **Electrophysiological Skills:** Specialized in *in vivo Extracellular Field Potential Recording (Stereotaxic surgery, Input-output functions, Paired-pulse responses, and Long-term potentiation induction)*.
- ✓ **Rat Brain Dissection:** Skilled in precise dissection techniques, particularly dissecting the cortex, hippocampus, and hypothalamus.

Contact: mohammadmazaheri167@gmail.com

Mobile Phone Number: +98 991 9861004

www.linkedin.com/in/mohammad-mazaheri-634108218

- ✓ **Transcranial Photobiomodulation (tPBM):**
 - Measurements of light transmittance to the tissue
 - Applying tPBM in rodent models
- ✓ **Behavioral Skills:** Proficiency in conducting various behavioral tests to understand rodent cognition and responses.
 - Elevated Plus Maze
 - Hole Board test
 - Open field test
 - Passive Avoidance Test
 - Barnes Maze Test
 - Marble Burying Test
 - Novel Object Recognition and Object Location test

Publications

Original Articles:

- Mazaheri M., Radahmadi M., Sharifi MR. Effects of chronic empathic stress on synaptic efficacy, as well as short-term and long-term plasticity at the Schaffer collateral/commissural- CA1 synapses in the dorsal hippocampus of rats. *Metabolic Brain Disease*. 2025. (Published; ISI; IF: 3.2).
- Mazaheri M., Radahmadi M., Sharifi MR. Effects of chronic social equality and inequality conditions on passive avoidance memory and PTSD-like behaviors in rats under chronic empathic stress. *International Journal of Neuroscience*. 2024;1-6. (Published; ISI; IF: 1.7).
- Mazaheri M., Radahmadi M., Sharifi MR. Effects of Chronic Empathic and Reversed Empathic Stress on Anxiety-like Behaviors in Male Rats. *Journal of Isfahan Medical School*. 2024 (Published; Scopus; In Persian).

Conference Papers:

- ✓ Mazaheri M., Radahmadi M., Sharifi MR. Comparing effects of empathic stress in social equal and unequal conditions on anxiety-like behaviors in male rats. 5th International and 26th National Congress of Physiology and Pharmacology, 11-13 October 2023, Semnan, Iran. (Koomesh. 2023;10-1) (Published; Scopus)

Contact: mohammadmazaheri167@gmail.com

Mobile Phone Number: +98 991 9861004

www.linkedin.com/in/mohammad-mazaheri-634108218

- ✓ Mazaheri M., Radahmadi M., Sharifi MR. Effects of chronic social inequality conditions on fear learning and locomotor activity in demonstrator. 12th Basic and Clinical Neuroscience Congress. 27-29 December 2023. Tehran, Iran.
- ✓ In vivo short-term plasticity at hippocampal Schaffer Collateral-CA1 Synapses: The role of chronic Mazaheri M., Radahmadi M., Sharifi social inequality stress conditions in male rats. 10th International Conference of Cognitive Science (ICCS 2024), 15-17 May, 2024. Tehran, Iran.

Languages

- ✓ English (Proficient)
- ✓ Persian (native)