

ELHAM SOLEIMANI



Contact Information

Name: **Elham Soleimani**

Academic Degree: **PhD in Neuroscience**

Date of Birth: 1365/12/27 (1987/03/18)

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Education

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I. Doctor (PhD) of neuroscience |Shahid Beheshti University of Medical Science|2017-2023
Thesis: The Possible Effects Of 40 Hz Flash Light On Improvement Of Anxiety, Depression
And Social Interaction In STZ-Induced Alzheimer's Model Animal: Role Of
Mitochondria. |Supervisor: Dr. Abolhassan Ahamadiani and Dr. Afsaneh Eliassi

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Publication

- I. Soleimani E, Goudarzi I, Abrari K, Lashkarbolouki T. The combined effects of developmental lead and ethanol exposure on hippocampus dependent spatial learning and memory in rats: Role of oxidative stress. <https://www.sciencedirect.com/journal/food-and-chemical-toxicology>. 2017; 55:118-126.
- II. Soleimani E, Goudarzi I, Abrari K, Lashkarbolouki T. Maternal administration of melatonin prevents spatial learning and memory deficits induced by developmental ethanol and lead co-exposure. <https://www.sciencedirect.com/journal/physiology-and-behavior>. 2017 May 1; 173:200-208. doi: 10.1016/j.physbeh.2017.02.012. Epub 2017 Feb 13. PMID: 28209036.
- III. Elham Soleimani¹, Iran Goudarzi^{2*}, Kataneh Abrari², Taghi Lashkarbolouki³ (Arak Medical University Journal (AMUJ)) 2016. Study of Melatonin Protective Effects on Learning and Memory Deficits Induced by Administration of Lead during Pregnancy and Postpartum in Rat: Behavioral and Biochemical Evaluations.
- IV. The 40 Hz white LED alleviates psychiatric symptoms induced by STZ in vivo: Evidence from behavioral and molecular studies. (Basic and Clinical Neuroscience journal. 2024)
- V. 40 Hz Light Preserves Synaptic Plasticity and Mitochondrial Function in Alzheimer's Disease Model (Scientific Reports 2024)

Conferences Attended

- I. Participated and Poster Presented in the 3rd Basic and Clinical Neuroscience congress in Iran University, 29-31 October 2014
- II. Participated and Poster Presented in the 4rd Basic and Clinical Neuroscience congress in Iran University, 23-25 December 2015
- III. Participated and Poster Presented in the 5th International and 26th National Congress of Physiology and Pharmacology in Semnan university of medical science, 11-13 October 2023
- IV. Participated in the 12th Basic and Clinical Neuroscience Congress held on December 27-29, 2023 Tehran, Iran (The 40 Hz white light emitting diode improves social interactions in a streptozotocin-induced Alzheimer-like model in male rats)

Workshop

- I. The first international course on laboratory animal science| Certificate from **UK CASRP Institute**| 2021 February 3- 2021 March 5
- II. Systematic Review and Meta-analysis Clinical Trials workshop| Certificate from **Gerash University of Medical Sciences**| 14 to 23 October, 2020
- III. "**Electrical kindling model of epilepsy and field potential recording in rats**" workshop, help the **Pasteur Institute of Iran** on 2-3 Mar, 2024
- IV. Participation in the workshop "**Clinical Trial Study Design**" (Student Research Committee of Isfahan Medical Sciences) on 2-3 May 2024
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- VI. Participation in "Artificial Intelligence (AI) Application Workshop in Medical Science" on
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Research Experiences & Skills

- I. Stereotaxic surgery of rat brain
- II. Behavioral Tasks (including social interaction test, elevated plus maze, open field, Forced swimming test, Morris water maze, etc.)
- III. Induced animal models for neurodegenerative disorder (including Alzheimer)
- IV. Mitochondria extraction from brain tissue
- V. Molecular techniques (including western blotting, real time PCR, Elisa) and enzymatic technique
- VI. sectioning and staining of Brain tissue
- VII. Basic techniques for laboratory animals (including Handling, Injection, gavage, Blood collection and vaginal smear - Breed and maintain a population of rodents

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Skills & Abilities

I. Computer Skill

Graph Pad Prism, SPSS, ImageJ, Microsoft office, Mendeley, EndNote,

II. Language Skill

Persian (Native), English (Intermediate)

Supervisors as a reference

- I. **Abolhassan Ahmadiani** | Professor in Neuroscience Research Center, Shahid Beheshti University of Medical Science, Tehran, Iran
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E-mail: aahmadiani@yahoo.com
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- II. **Afsaneh Eliassi** | Professor in Neurophysiology Research Center, Department of Physiology, Shahid Beheshti University of Medical Sciences, Tehran, Iran
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- III. **Fariba Khodaghali** | Professor of Biochemistry Neuroscience Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
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