

## *Curriculum Vitae*

### **PERSONAL IDENTITY**

- Name : Negin
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### **ACADEMIC BACKGROUND**

- Ph.D. in Medical Physiology, Medical faculty, Shahid Beheshti University of Medical Sciences and Health Services, Nov. 2024  
Title of thesis: Investigating the role of gut microbiota in behavioral symptoms and synaptic plasticity changes by chronic morphine administration due to disruption of glial function in male rats
- M.Sc. of Medical Physiology, Medical faculty, Shahid Beheshti University of Medical Sciences and Health Services, Aug. 2019  
Title of thesis: Investigating the role of hippocampal glial glutamate transporter (GLT-1) in dependence and synaptic plasticity in male morphine-treated rats
- B.Sc. in Anesthesiology, School of Allied Medical Sciences, Tehran University of Medical Sciences, July 2015

### **GRANTS AND AWARDS**

- Travel grant of IBRO (International Brain Research Organization)-APRC (Asia/Pacific Regional Committee) Associate School on Advances in Molecular Neurobiology Research, 3-9 March 2019, Indira Gandhi National Tribal University (IGNTU), Amarkantak (MP), India
- Third prize in oral presentation in the IBRO-APRC School of Neuroscience, March 2019, Indira Gandhi National Tribal University (IGNTU), Amarkantak (MP), India
- First prize in poster presentation in 2<sup>nd</sup> International Congress of Physiology and Pharmacology, 15-18 February 2018, Chababar, Iran

### **HIGHLIGHTED EDUCATIONAL QUALIFICATIONS**

- 1<sup>st</sup> Rank, Medical Physiology Ph.D. student, Shahid Beheshti University of Medical Sciences, September 2021.
- 1<sup>st</sup> Rank, Medical Physiology Master of Science Exam, July 2016
- Member of exceptional talent development center of TUMS and SBMU
- Member of National Elites Foundation

## COMPUTER & INFORMATION TECHNOLOGY SKILLS

- Microsoft Office package
- Mendeley reference sorting software
- SPSS software
- Graph Pad Prism
- Endnote reference sorting software
- Concept map designing
- MATLAB

## LABORATORY SKILLS

- Animal manipulation (Rat and Mouse)
- Behavioral tests (such as morphine withdrawal test; Hyperalgesia assessment with radiant heat and hot plate, Morris water maze test, Y maze test, CPP.)
- Morphine dependence model
- PTZ Seizure model
- Cannula implantation
- Streotactic surgery
- Field Potential Recording
- Physiology Lab [RBC and WBC count with Neubaur, RBC and WBC Enumeration, ESR, ...]
- Molecular techniques (DNA extraction, Real Time PCR)
- Rat brain perfusion
- Histological Techniques (Immunohistochemistry)

## ORAL PRESENTATIONS

1. **Negin Saeedi**, Fereshteh Pourabdolhossein, Masoud Dadashi, Mahyar Janahmadi, Gila Behzadi, Narges Hosseinmardi. Gut-brain axis prominence in the adjustment of addictive-like behaviors. The 1st International Conference for Young Neuroscientists “Brain and Neuroplasticity”. Tbilisi, Georgia. 21-23 October, 2024.
2. **Negin Saeedi**, N. Hosseinmardi, M. Janahmadi, M. Dadashi, F. Pourabdolhossein, J. Behzadi  
The role of gut microbiota in the occurrence of behavioral symptoms caused by chronic administration of morphine. 5<sup>rd</sup> International and 26<sup>th</sup> Iranian Congress of Physiology and Pharmacology Semnan University of Medical Sciences, Semnan, Iran. 11-13 October 2023.
3. **Negin Saeedi**, Narges Hosseinmardi, Mahyar Janahmadi. The role of hippocampal glial glutamate transporter (GLT-1) on synaptic dysfunction in morphine dependent rats. 3<sup>rd</sup> International and 24<sup>th</sup> Iranian Congress of Physiology and Pharmacology, Shahed University, Tehran, Iran, 30 October-1 November 2019.
4. **Negin Saeedi**. Microbiota and Diseases. 3<sup>rd</sup> International and 24<sup>th</sup> Iranian Congress of Physiology and Pharmacology, Shahed University, Tehran, Iran, 30 October-1 November 2019.

5. **Negin Saeedi**, Narges Hosseinmardi, Mahyar Janahmadi. Investigating the role of hippocampal glial glutamate transporter (GLT-1) in dependence in male morphine-treated rats. IBRO-APRC Associate School on Advances in Molecular Neurobiology Research, Indira Gandhi National Tribal University (IGNTU), Amarkantak (MP), India, 7 March 2019.

## POSTERS

1. Mahgol Darvish, **Negin Saeedi**, Narges Hosseinmardi, Mahyar Janahmadi, Soomayyeh Heysieattalab. Activation of hippocampal glial glutamate transporter (GLT-1) reduces the naloxone-induced withdrawal signs in morphine dependent rats. 3<sup>rd</sup> International and 24<sup>th</sup> Iranian Congress of Physiology and Pharmacology, Shahed University, Tehran, Iran, 30 October- 1 November 2019.
2. **Negin Saeedi**, Narges Hosseinmardi, Mahyar Janahmadi, Soomayyeh Heysieattalab. Inhibition of hippocampal glial cells reduces the naloxone induced withdrawal signs in morphine dependent rats. 2<sup>nd</sup> International and 23<sup>rd</sup> Iranian Congress of Physiology and Pharmacology, Chabaha International Conference Hall, Chabaha, Iran, 15-18 February 2018.

## PAPERS

1. **Negin Saeedi**, Fereshteh Pourabdolhossein, Masoud Dadashi, Ali Jaafari Suha, Gila Behzadi, Mahyar Janahmadi, Narges Hosseinmardi. Fecal microbiota transplantation modulates morphine addictive-like behaviors through hippocampal metaplasticity. *Addiction biology*. 2025.
2. **Negin Saeedi**, Mohadeseh Giahi, Ali Jaafari Suha, Hossein Azizi, Mahyar Janahmadi, Narges Hosseinmardi. Differential Effects of Intrahippocampal Administration of Ceftriaxone on Morphine Dependence and Withdrawal Syndrome in Rats. *ACS Omega*. 2024.
3. Mahgol Darvishmolla, **Negin Saeedi**, Zohreh Tavassoli, Soomaayeh Heysieattalab, Mahyar Janahmadi, Narges Hosseinmardi. Maladaptive plasticity induced by morphine is mediated by hippocampal astrocytic Connexin-43. *Life Sciences*. 2023.
4. **Negin Saeedi**, Soomaayeh Heysieattalab, Mahyar Janahmadi, Narges Hosseinmardi. The role of glial glutamate transporter in the baseline synaptic response and short term synaptic plasticity of CA1 area of the hippocampus in male wistar rats. *Medical Journal of Tabriz University of Medical Sciences*. 2022.
5. Mahgol Darvishmolla, Soomaayeh Heysieattalab, **Negin Saeedi**, Narges Hosseinmardi, Mahyar Janahmadi. Involvement of Hippocampal Astrocytic Connexin-43 in Morphine dependence. *Physiology & Behavior*. 2022.
6. Reza Shariat Moharari, Shervin Shahinpour, **Negin Saeedi**, Elaheh Sahraei, Atabak Najafi, Farhad Etezadi, Mohamadreza Khajavi, Ayat Ahmadi, Pejman Pourfakhr. Comparison of Intraoperative Infusion of Remifentanyl versus Fentanyl on Pain Management in Patients Undergone Spine Surgery: A Double Blinded Randomized Clinical Trial. *Anesthesiology and Pain Medicine*. 2021.
7. **Negin Saeedi**, Mahgol Darvishmolla, Zohreh Tavassoli, Shima Davoudi, Soomaayeh Heysieattalab, Narges Hosseinmardi, Mahyar Janahmadi, Gila Behzadi. The role of hippocampal glial glutamate transporter (GLT-1) in morphine-induced behavioral responses. *Brain and Behavior*. 2021.

8. Mahgol Darvishmolla, **Negin Saeedi**, Soomaayeh Heysieattalab, Narges Hosseinmardi, Mahyar Janahmadi  
The Role of Astrocytic Cx43 in Baseline Synaptic Response and Short Term Synaptic Plasticity in CA1 Area  
of the Hippocampus. *Journal of Mazandaran University of Medical Sciences*. 31 (198), 169-179. 2021.
9. Soomaayeh Heysieattalab, Jafar Doostmohammadi, Mahgol Darvishmolla, **Negin Saeedi**,  
Narges Hosseinmardi, Masoumeh Gholami, Mahyar Janahmadi, Samira Choopani. Non-selective COX  
inhibitors impair memory formation and short-term but not long-term synaptic plasticity. *Naunyn-  
Schmiedeberg's Archives of Pharmacology*. 2021. 9 (394) 1879-1891.
10. Abizadeh Marzieh, Heysieattalab Soomaayeh, **Saeedi Negin**, Hosseinmardi Narges, Janahmadi, Mahyar, Salari  
Farhad, Golpayegani Mehdi, Shojaei Asie. Ameliorating Effects of Dorema ammoniacum on PTZ-induced  
Seizures and Epileptiform Brain Activity in Rats. *Planta Medica*. 2020. 18 (86) 1353-1362.
11. Mojtaba Rezaei, Mahmoud Omidbeigi, Sra Hanaei, **Negin Saeedi**, Khatereh Naghdi, Alexander R. Vaccaro,  
Vafa Rahimi-Movaghar. Frequently asked questions of individuals with spinal cord injuries: results of a web-  
based consultation service in Iran. *Spinal Cord Series and Cases*. 2018; 4:50.
12. Pejman Pourfakhr, Ailar Ahangari, Farhad Etezadi, Reza Shariat Moharari, Ayat Ahmadi, **Negin Saeedi**,  
Atabak Najafi. Comparison of Nasal Intubations by Glidescope With and Without a Bougie Guide in Patients  
Who Underwent Maxillofacial Surgeries: Randomized Clinical Trial. *Anesth Analg*. 2018; 126(5):1641-1645.

## REFEREES

- ❖ Dr. Narges Hosseinmardi  
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