

Personal details

Name: Fatemeh Mohammadi

Assistant Professor of Neuroscience, Sirjan Faculty of Medical Sciences

Date of Birth: 13/12/1982

Marital Status: Single

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Google Scholar homepage: <https://scholar.google.com/citations?hl=en&user=AMRcHBgAAAAJ>

Number of citations in Google Scholar: 37

Number of citations in Scopus: 25

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Educational background

2016-2020, PhD in Neuroscience, Neuroscience Research Center Kerman University of Medical Science, Kerman, Iran

2009-2012, Master of science (MSc) in Animal physiology, university of Shiraz, Iran

2002-2006, Bachelor of Science (BSc) in Animal Biology, university of Lorestan, Iran

Technical skills

- Field Potential Recording (in vivo)
- PCR
- Electrophoresis
- ELISA
- Griess test
- Stereotaxic surgery: Implantation of electrode
- Behavioral approaches in neuroscience in animal:
 - Pain evaluating tests (Hot plate, formalin, tail flick)

- Learning and memory tests (Morris water maze, Passive avoidance task, Radial arm maze...)
- Induction of Empathy
- Induction of Alzheimer's model by STZ injection
- Induction of Tremor model by harmaline injection
- Induction of Pain model by formalin injection
- Induction of Epilepsy model by PTZ (chemical kindling)
- Induction of Addiction model by morphine administration
- Induction of Migraine model by nitroglycerin injection

Job experience

2012 – 2014: Worked as a technician in Tissue Regeneration Corporation in Kish Island, Iran

2006 - 2009: Worked as a teacher in high school

Academic research

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| 2016-2020 | PhD, Thesis Title: “Investigation on the role of Nitric oxide system in empathic pain in siblings’ rats” |
| 2009-2012 | MSc, Thesis Title: “The protective effect of menthol against seizure induction and memory deficits induced by chemical kindling in rats” |

Papers

- Khaleghi M, Ragizadeh A, Bashiri M, Kohlmeier KA , Mohammadi F, Khaksari M, Shabani M. Estrogen attenuates physical and psychological stress-induced cognitive impairments in ovariectomized rats. *Brain and Behavior*. 2021. e02139.
- M Fatemeh, KA Kohlmeier, J Sajad, AZ Meysam, S Mohammad. Affective dimensions of pain and region-specific involvement of nitric oxide in the development of empathic hyperalgesia. *Scientific Reports (Nature Publisher Group)*. 2020; 10 (1).
- Taheri P, Mohammadi F, Nazeri M, Zarei MR, Chamani G, Abedini Esfahlani M, Taheri F, Shabani M. Nitric oxide role in anxiety-like behavior, memory and cognitive impairments in animal model of chronic migraine. *Heliyon*. 2020; 6(12):e05654.
- Mohammadi F, Abedini Esfahlani M, Shabani M. Erythropoietin ameliorates harmaline-induced essential tremor and cognition disturbances. *Neuroscience letters*. 2019;704:153-8.

- Mohammadi F, Ahmadi-Zeidabadi M, Nazeri M, Ghasemi A, Shabani M. Nitric oxide modulates cognitive, nociceptive and motor functions in a rat model of empathy. *International Journal of Neuroscience*, 2019; 1-10
- Nazeri M, Chamani G, Abareghi F, Mohammadi F, Talebizadeh MH, Zarei MR,. Sensory and affective dimensions of pain and anxiety like behaviors are altered in an animal model of pain empathy. *Iranian journal of psychiatry*. 2019;14(3):221.
- Mohammadian F, Firouzjaei MA, Haghani M, Shabani M, Moosavi SMS, Mohammadi F. Inhibition of inflammation is not enough for recovery of cognitive impairment in hepatic encephalopathy: Effects of minocycline and ibuprofen. *Brain research bulletin*. 2019;149:96-105.
- Maneshian M, Nasirinezhad F, Mohammadi F, Asadi Shekari M, Behzadi M, Shabani M. Minocycline mitigates tremor syndrome and defect of cognitive and balance induced by harmaline. *Basic and clinical neuroscience*. 2019; (accepted (unpublished))
- Mansoori M, Zarei MR, Chamani G, Nazeri M, Mohammadi F, Alavi SS, Shabani M. Chronic migraine caused a higher rate of tendency to cannabinoid agonist compared to morphine : Tendency to use cannabis in chronic Migraine. *Acta biomed*. 2020.

Languages

Persian (native)

English

Training/Courses

- Certified Western blot and PCR courses in 2016
- Certified Patch clamp course in 2018
- Familiar with SPSS

Teaching experience

- Teaching high school
- Teaching electrophysiological method in IBRO-APRC Kerman associate school of neuroscience
- Teaching graph pad prism method for data analysis

Expert referee work

- Brain Research Bulletin

Scientific focus areas

- Emotional processing and prosocial behavior in humans and animals (empathy)
- Pain
- Stress

References

- Dr. Mohammad Shabani, PhD in Physiology. Professor, Neuroscience Research Center Kerman University of Medical Science, Kerman, Iran
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- Dr. Vahid Sheibani , PhD in Physiology, Professor and head of Neuroscience Research Center Kerman University of Medical Science, Kerman, Iran
Email: vsheibani2@yahoo.com
- Dr. Meysam Ahmadi Zeidabadi, PhD in Biophysics. Assistant Professor, Neuroscience Research Center Kerman University of Medical Science, Kerman, Iran
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