CURRICULUM VITAE

Masoumeh Nozari

Ph.D. of Neuroscience

General Information

Born: February 1, 1979, Kerman –Iran
Citizenship: Iranian
Marital status: Married with one child

Contact Details

Physiology and pharmacology department

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Education

Ph.D. Kerman University of Medical Sciences
Major: Neuroscience
Advisor: Mohammad Shabani
Nafiseh Atapour

M.Sc. Tehran University of Medical Sciences
Major: Medical Physiology

Advisor: Arezo Nahavandi

B.Sc. Kerman University of Medical Sciences

Major: Nursing

Academic Employment

2015 - Present Associated Professor, Kerman University of Medical Sciences,

Honors and Awards

Honors Distinction 2016 Awarded for Dissertation entitled: "Effects of enriched environment on behavioral and cellular alterations in an animal model of schizophrenia."

Travel Award

2016 The Asian/Pacific Travel Grant

2012 Riken brain science institute (BSI) Riken BSI summer program, internship course

2012 2nd Tehran IBRO School of Neuroscience, Molecular, Electrophysiological and behavioral approaches

Professional Affiliations and Services

Professional Organization Member

International Brain Research Organization (IBRO)

Iranian Neuroscience Society

Committee Member

Neuroscience Research Center, Kerman University of Medical Sciences

Research council academic member of the Student Research Committee of Kerman University of Medical Sciences

Publications

1. Haratizadeh S, Ranjbar M, Basiri M, and Nozari M. Astrocyte responses to postnatal erythropoietin and nano-erythropoietin treatments in a valproic acid-induced animal model of autism. 2023; 130:1–8.

2. Ganjalikhan-hakemi S, Asadi-Shekaari M, Pourjafari F, Asadikaram G, and Nozari M. Agmatine improves liver function, balance performance, and neuronal damage in a hepatic encephalopathy induced by bile duct ligation. Brain Behav 2023; 13.

3. Salmani N, Darvishzadeh Mahani F, Parvan M, and Nozari M. Effects of Nicotine Administration in

an Enriched Environment on the Behavior of Male MK-801-Exposed Rats. Addict Heal 2023; 15.

4. Khoram-Abadi KM, Haratizadeh S, Basiri M, Parvan M, Pourjafari F, Aghaei I, *et al.* Autistic-like behaviors are attenuated by agmatine consumption during pregnancy: Assessment of oxidative stress profile and histopathological changes in the prefrontal cortex and CA1 region of the hippocampus. Iran J Basic Med Sci 2024; 27.

5. Khoram-Abadi KM, Basiri M, Nemati M, and Nozari M. Agmatine ameliorates valproic acid-induced depletion of parvalbumin-positive neuron. Int J Dev Neurosci 2024; 84.

6. Amini F, Amini-Khoei H, Haratizadeh S, Setayesh M, Basiri M, Raeiszadeh M, *et al.* Hydroalcoholic extract of Passiflora incarnata improves the autistic-like behavior and neuronal damage in a valproic acid-induced rat model of autism. J Tradit Complement Med 2023; 13.

7. Haratizadeh S, Ranjbar M, Basiri M, Nozari M, Darvishzadeh-Mahani F, Basiri M, *et al.* The effects of postnatal erythropoietin and nano-erythropoietin on behavioral alterations by mediating K-Cl co-transporter 2 in the valproic acid-induced rat model of autism. Dev Psychobiol 2023; 65.

8. Salmani N, Nozari M, Parvan M, Amini-Sardouei S, Shabani M, Khaksari M, *et al.* Nicotine-conditioned place preference, reversal learning and social interaction in MK-801-induced schizophrenia model: Effects of post-weaning enriched environment. Clin Exp Pharmacol Physiol 2022; 49:871–880.

9. Sheibani V, Rajizadeh MA, Bejeshk MA, Haghparast E, Nozari M, Esmaeili-Mahani S, *et al.* The effects of neurosteroid allopregnanolone on synaptic dysfunction in the hippocampus in experimental parkinsonism rats: An electrophysiological and molecular study. Neuropeptides 2022; 92:102229.

10. Alinaghi Langari A, Nejadi A, Kameshki H, Jorjafki SM, Mirhosseini Y, Khaksari M, *et al.* The protective effect of prenatally administered vitamin E on behavioral alterations in an animal model of autism induced by valproic acid. Toxin Rev 2020; 0:1–5.

11. Haratizadeh S, Parvan M, Mohammadi S, Shabani M, and Nozari M. An overview of modeling and behavioral assessment of autism in the rodent. Int J Dev Neurosci 2021; 81:221–228.

12. GhotbiRavandi S, Shabani M, Bakhshaei S, Nazeri M, and Nozari M. Effects of psychological or physical prenatal stress on attention and locomotion in juvenile rats. Int J Neurosci 2020; 1–6.

13. Nazeri-Rezaabad M, Jamalpoor Z, Alemrajabi MS, Nozari M, Razavinasab M, and Nezhadi A. Chronic Exposure to Morphine Leads to a Reduced Affective Pain Response in the Presence of Hyperalgesia in an Animal Model of Empathy. Addict Heal 2020; 12:251.

14. Juybari KB, Sepehri G, Meymandi MS, Vakili Shahrbabaki SS, Moslemizadeh A, Saeedi N, *et al.* Sex dependent alterations of resveratrol on social behaviors and nociceptive reactivity in VPA-induced autistic-like model in rats. Neurotoxicol Teratol 2020; 81:106905.

15. Nozari M, Nahavandi A, Zeinivand M, Gharaati ME, Godarzi M, Ahmadi M, *et al.* Research paper: Ibuprofen protection against restrained chronic stress-induced depression in male rats. Basic Clin Neurosci 2020; 11.

16. Shahveisi K, Farnia V, Khazaie H, Ghazvini H, Nozari M, and Khodamoradi M. Novel object recognition memory in REM sleep-deprived rats: Role of the cannabinoid CB1 receptor. Behav Brain Res 2020; 381:112311.

17. Farhadi Z, Khaksari M, Azizian H, Dabiri S, Fallah H, and Nozari M. Aging is associated with loss of beneficial effects of estrogen on leptin responsiveness in mice fed high fat diet: Role of estrogen receptor α and cytokines. Mech Ageing Dev 2020; 186:111198.

18. Mohammadi S, Asadi-Shekaari M, Basiri M, Parvan M, Shabani M, and Nozari M. Improvement of autistic-like behaviors in adult rats prenatally exposed to valproic acid through early suppression of NMDA receptor function. Psychopharmacology (Berl) 2020; 237:199–208.

19. Ghotbi Ravandi S, Shabani M, Bashiri H, Saeedi Goraghani M, Khodamoradi M, and Nozari M. Ameliorating effects of berberine on MK-801-induced cognitive and motor impairments in a neonatal rat model of schizophrenia. Neurosci Lett 2019; 706:151–157.

20. Faatehi M, Basiri M, Nezhadi A, Shabani M, Masoumi-Ardakani Y, Soltani Z, *et al.* Early enriched environment prevents cognitive impairment in an animal model of schizophrenia induced by MK-801: Role of hippocampal BDNF. Brain Res 2019; 1711:115–119.

21. Saeedi Goraghani M, Ahmadi - Zeidabadi M, Bakhshaei S, Shabani M, Ghotbi Ravandi S, Rezaei − Zarchi S, *et al.* Behavioral consequences of simultaneous postnatal exposure to MK-801 and static magnetic field in male Wistar rats. Neurosci Lett 2019; 701:77–83.

22. Aghaei I, Saeedi Saravi SSSSSS, Ghotbi Ravandi S, Nozari M, Roudbari A, Dalili A, *et al.* Evaluation of prepulse inhibition and memory impairments at early stage of cirrhosis may be considered as a diagnostic index for minimal hepatic encephalopathy. Physiol Behav 2017; 173:87–94.

23. Nozari M, Suzuki T, Rosa MGPMGPMGP, Yamakawa K, and Atapour N. The impact of early environmental interventions on structural plasticity of the axon initial segment in neocortex. Dev Psychobiol 2016; 59:1–9.

24. Rahati M, Nozari M, Eslami H, Shabani M, and Basiri M. Effects of enriched environment on alterations in the prefrontal cortex GFAP- and S100B-immunopositive astrocytes and behavioral deficits in MK-801-treated rats. Neuroscience 2016; 326:105–116.

25. Nozari M, Shabani M, Farhangi AM, Mazhari S, and Atapour N. Sex-specific restoration of MK-801-induced sensorimotor gating deficit by environmental enrichment. Neuroscience 2015; 299:28–34.

26. Nozari M, Mansouri FAFAFA, Shabani M, Nozari H, Atapour N, Nozari, *et al.* Postnatal MK-801 treatment of female rats impairs acquisition of working memory, but not reference memory in an eight-arm radial maze; no beneficial effects of enriched environment. Psychopharmacology (Berl) 2015; 232:2541–2550.

27. Nazeri M, Shabani M, Ghotbi Ravandi S, Aghaei I, Nozari M, and Mazhari S. Psychological or physical prenatal stress differentially affects cognition behaviors. Physiol Behav 2015; 142:155–160.

28. Nozari M, Shabani M, Hadadi M, and Atapour N. Enriched environment prevents cognitive and motor deficits associated with postnatal MK-801 treatment. Psychopharmacology (Berl) 2014; 231:4361–4370.

29. Khaksari, M., Soltani, Z., Najafipour, H., Sepehri, G., Shamsi-Maymandi, M., Shahrokhi, N., Jokar, S., Sheibani, V., Bashiri, H., Nozari, M. (2017). 'Research Records and Possibilities of the Department of Pharmacology Physiology in Kerman University of Medical Sciences, Iran', Afzalipour Journal of Clinical Research, 2(Issue (1-2)), pp. 60-68. doi: 10.22122/ajcr.2017.49003

30. Parvan, M., Nozari, M., Shabani, M., Nozari, H., Kohlmeier, K.A. and Mohammadi, S., 2024. Effects of agmatine on radial-arm maze memory performance and autistic-like behaviors in a male rat model of autism. Birth Defects Research, 116(7), p.e2379.

Conference Presentations

- High School Students' Panel (BCNC2016). Ali Shahbazi, Sareh Asadi,Peyman Hassani Abharian, Maryam Jafarian, Marzieh Zare, **Masoumeh Nozari**
- Emotion, Motivation and Behavior (BCNC2017). Mehrdad Roghani - Homa Rasouli - Javad Mahmoudi- Saadi Lotfali - Fereshteh Golab - **Masoumeh Nozari**
- Undergraduate-Students Seminar (BCNC 2017).
- A methodological review of modeling and assessment of behavior in the rodent model of autism, Presentation Type: Oral (BCNC 2019)

POsters

- Forced swim test is reliable to detect chronic immobility induced depression, 20th Iranian Congress of Physiology & Pharmacology, 2011.
- The Effect of Enriched Environments on the Plasticity at Axon Initial Segment of Cortical Pyramidal Cells in Schizophrenia, Riken BSI summer program,2012
- Young rats raised in an enriched environment do not develop motor and cognitive deficits induced by early postnatal blockade of NMDA receptors, Second International Basic and Clinical Neuroscience Congress (BCNC 2013).
- Gender-specific restoration of MK-801-induced sensorimotor gating deficit by environmental enrichment, third International Basic and Clinical Neuroscience Congress (BCNC 2014).
- The impact of early environmental interventions on structural plasticity of the axon initial segment in neocortex (BCNC 2016)
- Postnatal MK-801 treatment of female rats impairs acquisition of working memory, but not reference memory in an eight-arm radial maze; no beneficial effects of enriched environment (BCNC 2017).
- Effects of simultaneous exposure to magnetic fields and MK-801 administration on anxiety like behaviors in rats, 2nd International and 23rd Iranian Congress of Physiology and Pharmacology,2017
- The effect of TNFα injection within embryonic period on pain threshold in adult male rats, 2nd International and 23rd Iranian Congress of Physiology and Pharmacology,2017
- Effects of magnetic fields on learning and memory in an animal model of schizophrenia, 2nd International and 23rd Iranian Congress of Physiology and Pharmacology,2017

- The effects of resveratrol on pain threshold in valproic acid-induced autism in rats in hot plate test, 2nd International and 23rd Iranian Congress of Physiology and Pharmacology,2017

Teaching Experience _____

Teaching Medical Physiology and Neuroscience to graduate and undergraduate students in Kerman University of Medical Sciences

Technical Skills _____

- ***Behavioral Neuroscience:***

  Pain evaluating test in rodent (Hot plate, Formalin, Tail - Flick)

  Learning and memory test in rodent (Radial Maze, Morris water maze, one and two-way avoidance task…)

  Rodent Model of Depression

  Rodent Model of schizophrenia (Prepulse inhibition, Startle reflex)

  Rodent Model of Autism

  Stereotaxic method (Brain Cannulation)

  Rodent Model of Spinal Cord Injury (sci)

  Rodent Model of Alzheimer's disease

- ***Patch-clamp recording***
- ***Immunohistochemistry***
- ***Transcardial perfusion***

- ***COMPUTER SKILLS***

  SPSS software

  Prism software

  Reference management software (EndNote, Mendeley)

Present activities/projects_____

Completed projects

- Effects of magnetic field on memory and anxiety –like behaviors in an animal model of schizophrenia with MK-801, (Advisor: Saeedi Goraghani M)

- Evaluations of physical and psycological prenatal stress on anxiety - and depression-like behaviors in Wistar male and female Offspring's rats, (Advisor : Ghotbi Ravandi S)

- Effects of enriched environment on prefrontal glial cells in an animal model of schizophrenia, (Advisor: M Rahati)

- Effects of enriched environment on spatial memory and locomotor activity in an animal model of schizophrenia, (Advisor: Hadadi M)

- Investigation of the effect of enriched envirnment on hippocampal BDNF expression and microglia response in animal model of schizophrenia induced by MK-801, (Supervisor: Faatehi M)

- Investigating effects of MK-801 on astrocytes and neurons of prefrontal cortex in an animal model of autism induced by valproic acid, Supervisor, (Supervisor: Mohammadi S)

- Investigation of the effects of berberine on anxiety – like behavior ,motor and cognitive disorders induced by MK-801 in male and female rats.

- Investigating the reversal learning in Radial arm maze and the effect of agmatine on it in the animal model of autism (valproic acid), (Supervisor: Parvan M)

- Evaluating the effects of estrogen and tamoxifen on leptin sensitivity in female mice C57BL/6J at middle-aged nourished with high fat and standard diet: determination of levels some of cytokines and estrogen receptor α. (Advisor: Farhadi Z)

- Study of the effects of resveratrol on pain threshold in valproic acid-induced autism in rats, (Advisor: Saeedi N)

- Investigation of the effect of prenatally administered vitamin E on behavioral alterations in an animal model of autism