

Sara Joushi

Assistant Professor of Neuroscience

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Educational Background:

B.Sc. Biology (2011) Damghan University, Damghan, Iran

M.Sc Physiology (2015), Damghan University, Damghan, Iran

Ph.D Neuroscience (2021), Kerman University of Medical Sciences, Kerman, Iran

Thesis:

M.Sc Thesis Title

Effect of eugenol on lithium-pilocarpine model of epilepsy: behavioral, histological, and molecular changes

Ph.D. Thesis Title

Effects of Enriched Environment and Oxytocin on Cognitive Performance During Adolescence in Maternally Separated Male Rats

Research Technical Skills:

- ✓ Field Potential Recording (in vivo and in vitro)
- ✓ Rat gambling task
- ✓ Social behavior tests (Prosocial Choice Task, Social Interaction Task)
- ✓ Learning and memory test (Morris water maze, Barnes maze, Passive avoidance test, Radial maze)
- ✓ Pain evaluating tests (Hot plate, Formalin, Tail Flick)

- ✓ Western blotting
- ✓ Histological techniques (Timm staining, Nissl staining, Microtome sectioning, Cell counting)
- ✓ Oxidative stress evaluation
- ✓ Animal models of:
 - Epilepsy
 - Early life adversity (Maternal separation, etc.)
 - Autism
 - Social isolation

Teaching Experience:

- ✓ Teaching at electrophysiology workshop (in vitro field potential recording), 2019
- ✓ Teaching at 9th basic and clinical neuroscience congress (BCNC), workshop of electrophysiology (in vitro field potential recording), 2020

Executive Positions:

- ✓ Executive secretary of Neurolabaid application project (2020-2021)
- ✓ Member of executive committee of International Brain Research Organization (IBRO) school (2017)

Papers:

Year	Journal	Title	Author (s)	No.
2022	Pathobiology Research	Voluntary exercise ameliorates cognitive performance and long-term potentiation (LTP) impairments in maternally	Sarieh Shahraki, Khadijeh Esmaeilpour, Mohammad Shabani, Gholamreza Sepehri, Sara Joushi	1

		separated adolescent male rats		
2021	Pharmacology Biochemistry and Behavior	Environmental enrichment and intranasal oxytocin administration reverse maternal separation-induced impairments of prosocial choice behavior	Sara Joushi, Zahra Taherizadeh, Khadijeh Esmaeilpour, Vahid Sheibani	2
2021	Journal of Neuroscience Research	Effects of short environmental enrichment on early-life adversity induced cognitive alternations in adolescent rats	Sara Joushi, Khadijeh Esmaeilpour, Yaser Masoumi-Ardakani, Saeed Esmaeili-Mahani, Vahid Sheibani	3
2021	International journal of clinical practice	(Review) Depression, Anxiety and Other Cognitive Consequences of Social Isolation: drug and non-drug treatments	Zahra Taheri Zadeh, Shayan Rahmani, Fatemeh Alidadi, Sara Joushi, Khadijeh Esmaeilpour	4
2021	International Journal of Developmental Neuroscience	Choline chloride modulates learning, memory, and synaptic plasticity impairments in maternally separated	Sarieh Shahraki, Khadijeh Esmaeilpour, Mohammad Shabani, Gholamreza Sepehri, Mohammad Amin Rajizadeh, Marzieh Maneshian, Sara	5

		adolescent male rats	Joushi, Vahid Sheibani	
2021	BioMed Research International	Resveratrol Attenuates Learning, Memory, and Social Interaction Impairments in Rats Exposed to Arsenic	Zahra Taheri Zadeh, Khadijeh Esmaeilpour, Azadeh Aminzadeh, Mahmoud Reza Heidari, Sara Joushi	6
2021	International Journal of Developmental Neuroscience	Maternal separation impairs mother's cognition one month beyond the separation	Sara Joushi, Vahid Sheibani, Khadijeh Esmaeilpour, José Francis-Oliveira, Zahra Taherizadeh, Fatemeh Mohtashami Borzadaran	7
2020	Psychoneuroendocrinology	Intranasal oxytocin administration facilitates the induction of long-term potentiation and promotes cognitive performance of maternally separated rats	Sara Joushi, Khadijeh Esmaeilpour, Yaser Masoumi-Ardakani, Saeed Esmaeili-Mahani, Vahid Sheibani	8
2020	International Journal of Developmental Neuroscience	Intergenerational effects of maternal separation on cognitive abilities of adolescent rats	Sara Joushi, Khadijeh Esmaeilpour, Zahra Taherizadeh, Farahnaz Taheri, Vahid Sheibani	9
2020	International Journal of Developmental Neuroscience	Environmental enrichment and pain sensitivity; a study in maternally separated rats	Fatemeh Mohtashami Borzadaran, Sara Joushi, Zahra Taheri Zadeh, Vahid Sheibani, Khadijeh Esmaeilpour	10

2020	Biomedicine & Pharmacotherapy	Effect of 4-Fluoro-N-(4-sulfamoylbenzyl) Benzene Sulfonamide on cognitive deficits and hippocampal plasticity during nicotine withdrawal in rats	Naeem Ur Rehman, Khadijeh Esmaeilpour, Sara Joushi, Muzaffar Abbas, Mariya Al-Rashida, Khalid Rauf, Yaser Masoumi-Ardakani	11
2020	International Journal of Developmental Neuroscience	What are the consequences of Methylphenidate exposure for maternally separated rats?	Fatemeh Mohtashami Borzadaran, Khadijeh Esmaeilpour, Sara Joushi, Mohammad Amin Rajizadeh, Vahid Sheibani, Naeem Ur Rehman, Gholamreza Sepehri	12
2017	Iranian journal of basic medical sciences	Effect of eugenol on lithium-pilocarpine model of epilepsy: behavioral, histological, and molecular changes	Sara Joushi, Mahmoud Elahdadi Salmani	13

Abstract in Congress:

Intergenerational effects of maternal separation on cognitive abilities, 2020
The Effects of Enriched Environment on Cognitive performance of Maternally Separated Male Rats, 2019
Effect of zinc treatment on seizure susceptibility in a PTZ model of male rats, 2014

Awards:

Young investigator award in the 9th basic and clinical neuroscience congress (BCNC), 2020

Other activities:

- ✓ Setting up rat gambling task (for decision making assessment),
- ✓ Setting up prosocial choice task (for evaluation of mutual reward preferences),
in Neuroscience Research Center, Kerman, Iran