

## Dr. Mohammad Reza Raoufy



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Position Associate Professor of Physiology (2013– )

### Education

2008-2012 PhD in Physiology, Tarbiat Modares University, Tehran, Iran

2000-2008 Medical Doctor (MD), Shahid Beheshti University of Medical Sciences, Tehran, Iran

### Honors

2021 Top professor of Tarbiat Modares University, Tehran, Iran

2012 First ranked among PhD students of Physiology, Tarbiat Modares University, Tehran, Iran

2006 Top medical student of Iran (given prize by president of Iran)

2005 First ranked student, 6th festival of research, Shahid Beheshti University of Medical Sciences, Tehran, Iran

2004 Best Poster Award, Iranian Physiology & Pharmacology Congresses, Kerman, Iran

2004 Best Poster Award, Iranian Internal Medicine Congresses, Bandar-Abbas, Iran

2004 Best Poster Award, 1st Students Research Conference of Shahid Beheshti University of Medical Sciences, Tehran, Iran

2000 Rank 59th in entrance examine universities of Iran

### Position

2013-pres Associate Professor, Department of Physiology, Tarbiat Modares University, Tehran, Iran

2018-2022	Head of Clinic and Health Center, Tarbiat Modares University, Tehran, Iran
2016-pres	CEO of Trita Health Technology Company, Tehran, Iran
2017-pres	Chairman of the ethics committee in clinical studies, Tarbiat Modares University, Tehran, Iran
2018	Member of the Scientific Committee of the International Biology Olympiad (IBO)
2015-pres	Member of the National Committee of the Iranian Biology Olympiad, Iran
2003-2007	Head of the Student Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran

## Research Interests

Brain Function and Neuromodulation

Computational Neuroscience

Complex Systems in Medicine

## Publications

1. Ghazvineh S, Salimi M, Dehghan S, Asemi-Rad A, Dehdar K, Salimi A, Jamaati H, **Raoufy MR**. Stimulating olfactory epithelium mitigates mechanical ventilation-induced hippocampal inflammation and apoptosis. *Hippocampus*. 2023 Mar 2.
2. Khatibi VA, Salimi M, Rahdar M, Rezaei M, Nazari M, Dehghan S, Davoudi S, **Raoufy MR**, Mirnajafi-Zadeh J, Javan M, Hosseinmardi N, Behzadi G, Janahmadi M. Glycolysis inhibition partially resets epilepsy-induced alterations in the dorsal hippocampus-basolateral amygdala circuit involved in anxiety-like behavior. *Sci Rep*. 2023 Apr 21;13(1):6520.
3. Dehdar K, Mooziri M, Samii Moghaddam A, Salimi M, Nazari M, Dehghan S, Jamaati H, Salimi A, **Raoufy MR**. Corticosteroid treatment attenuates anxiety and mPFC-amygdala circuit dysfunction in allergic asthma. *Life Sci*. 2023 Feb 15;315:121373.
4. Enayati P, Dehdar K, Javan M, **Raoufy MR**. The protective effect of inhaled corticosteroid on lung inflammation and breathing pattern complexity in a rat model of asthma. *Respir Physiol Neurobiol*. 2023 May 12;314:104072.
5. Rezaei M, **Raoufy MR**, Fathollahi Y, Shojaei A, Mirnajafi-Zadeh J. Tonic and phasic stimulations of ventral tegmental area have opposite effects on pentylenetetrazol kindled seizures in mice. *Epilepsy Res*. 2023 Jan;189:107073.
6. Salimi M, Ayene F, Parsazadegan T, Nazari M, Jamali Y, **Raoufy MR**. Nasal airflow promotes default mode network activity. *Respir Physiol Neurobiol*. 2023 Jan;307:103981.

7. Khodadadi M, Zare M, Rezaei M, Bakhtiarzadeh F, Barkley V, Shojaei A, **Raoufy MR**, Mirnajafi-Zadeh J. Effect of low frequency stimulation of olfactory bulb on seizure severity, learning, and memory in kindled rats. *Epilepsy Res.* 2022 Dec;188:107055.
8. Salimi M, Javadi AH, Nazari M, Bamdad S, Tabasi F, Parsazadegan T, Ayene F, Karimian M, Gholami-Mahtaj L, Shadnia S, Jamaati H, Salimi A, **Raoufy MR**. Nasal Air Puff Promotes Default Mode Network Activity in Mechanically Ventilated Comatose Patients: A Noninvasive Brain Stimulation Approach. *Neuromodulation.* 2022 Dec;25(8):1351-1363.
9. Gholami-Mahtaj L, Mooziri M, Bamdad S, Mikaili M, Jamaati H, **Raoufy MR**. Neural signature of attention impairment in allergic asthma: an ERP study. *Int J Neurosci.* 2022 Nov 30:1-11.
10. Khatibi VA, Rahdar M, Rezaei M, Davoudi S, Nazari M, Mohammadi M, **Raoufy MR**, Mirnajafi-Zadeh J, Hosseinmardi N, Behzadi G, Janahmadi M. The Glycolysis Inhibitor 2-Deoxy-D-Glucose Exerts Different Neuronal Effects at Circuit and Cellular Levels, Partially Reverses Behavioral Alterations and does not Prevent NADPH Diaphorase Activity Reduction in the Intrahippocampal Kainic Acid Model of Temporal Lobe Epilepsy. *Neurochem Res.* 2022 Sep 5:1–19.
11. Fathian A, Jamali Y, **Raoufy MR**; Alzheimer's Disease Neuroimaging Initiative. The trend of disruption in the functional brain network topology of Alzheimer's disease. *Sci Rep.* 2022 Sep 2;12(1):14998.
12. Enayat J, Mahdaviani SA, Rekabi M, Ghaini M, Eslamian G, Fallahi M, Ghazvineh S, Sharifinejad N, **Raoufy MR**, Velayati AA. Respiratory pattern complexity in newly-diagnosed asthmatic patients. *Respir Physiol Neurobiol.* 2022 Jun;300:103873.
13. Gholami-Mahtaj L, Salimi M, Nazari M, Tabasi F, Bamdad S, Dehdar K, Mikaili M, Mahdaviani SA, Salari F, Lookzadeh S, Jamaati H, Salimi A, **Raoufy MR**. Asthma induces psychiatric impairments in association with default mode and salience networks alteration: A resting-state EEG study. *Respir Physiol Neurobiol.* 2022 Jun;300:103870.
14. Salimi M, Tabasi F, Nazari M, Ghazvineh S, **Raoufy MR**. The olfactory bulb coordinates the ventral hippocampus-medial prefrontal cortex circuit during spatial working memory performance. *J Physiol Sci.* 2022 Apr 25;72(1):9.
15. Salimi M, Tabasi F, Abdolsamadi M, Dehghan S, Dehdar K, Nazari M, Javan M, Mirnajafi-Zadeh J, **Raoufy MR**. Disrupted connectivity in the olfactory bulb-entorhinal cortex-dorsal hippocampus circuit is associated with recognition memory deficit in Alzheimer's disease model. *Sci Rep.* 2022 Mar 15;12(1):4394.
16. Salimi M, Tabasi F, Ghazvineh S, Jamaati H, Salimi A, **Raoufy MR**. Stimulating Neural Pathways to Reduce Mechanical Ventilation-associated Neurocognitive Dysfunction. *Am J Respir Crit Care Med.* 2022 Mar 1;205(5):588-589.
17. Dehdar K, Salimi M, Raoufy MR. Allergen disrupts amygdala-respiration coupling. *Respir Physiol Neurobiol.* 2022 Mar;297:103835.

18. Gholami-Mahtaj L, Mooziri M, Dehdar K, Abdolsamadi M, Salimi M, **Raoufy MR**. ACC-BLA functional connectivity disruption in allergic inflammation is associated with anxiety. *Sci Rep*. 2022 Feb 17;12(1):2731.
19. Farkhondeh Tale Navi F, Heysieattalab S, Ramanathan DS, **Raoufy MR**, Nazari MA. Closed-loop Modulation of the Self-regulating Brain: A Review on Approaches, Emerging Paradigms, and Experimental Designs. *Neuroscience*. 2022 Feb 10;483:104-126.
20. Mazidi MH, Eshghi M, **Raoufy MR**. Premature Ventricular Contraction (PVC) Detection System Based on Tunable Q-Factor Wavelet Transform. *J Biomed Phys Eng*. 2022 Feb 1;12(1):61-74.
21. Azadi M, Aref E, Pazhoohan S, **Raoufy MR**, Semnanian S, Azizi H. Paternal preconception exposure to chronic morphine alters respiratory pattern in response to morphine in male offspring. *Respir Physiol Neurobiol*. 2022 Feb;296:103811.
22. Ghasemi Z, Naderi N, Shojaei A, **Raoufy MR**, Ahmadirad N, Barkley V, Mirnajafi-Zadeh J. Group I metabotropic glutamate receptors contribute to the antiepileptic effect of electrical stimulation in hippocampal CA1 pyramidal neurons. *Epilepsy Res*. 2021 Dec;178:106821.
23. Salimi M, Tabasi F, Nazari M, Ghazvineh S, Salimi A, Jamaati H, Raoufy MR. The olfactory bulb modulates entorhinal cortex oscillations during spatial working memory. *J Physiol Sci*. 2021 Jun 30;71(1):21.
24. Rezaei M, Ahmadirad N, Ghasemi Z, Shojaei A, Raoufy MR, Barkley V, Fathollahi Y, Mirnajafi-Zadeh J. Alpha adrenergic receptors have role in the inhibitory effect of electrical low frequency stimulation on epileptiform activity in rats. *Int J Neurosci*. 2021 May 17:1-10.
25. Salimi M, Ghazvineh S, Nazari M, Dehdar K, Garousi M, Zare M, Tabasi F, Jamaati H, Salimi A, Barkley V, Mirnajafi-Zadeh J, Raoufy MR. Allergic rhinitis impairs working memory in association with drop of hippocampal - Prefrontal coupling. *Brain Res*. 2021 May 1;1758:147368.
26. Ghazvineh S, Salimi M, Nazari M, Garousi M, Tabasi F, Dehdar K, Salimi A, Jamaati H, Mirnajafi-Zadeh J, Arabzadeh E, Raoufy MR. Rhythmic air-puff into nasal cavity modulates activity across multiple brain areas: A non-invasive brain stimulation method to reduce ventilator-induced memory impairment. *Respir Physiol Neurobiol*. 2021 May;287:103627.
27. Dehghan S, Aref E, Raoufy MR, Javan M. An optimized animal model of lysolecithin induced demyelination in optic nerve; more feasible, more reproducible, promising for studying the progressive forms of multiple sclerosis. *J Neurosci Methods*. 2021 Mar 15;352:109088.
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32. Mazidi M.H., Eshghi, M., Raoufy M.R. Detection of premature ventricular contraction (PVC) using linear and nonlinear techniques: an experimental study. *Cluster Comput.* 2020 23:759–774
33. Vahedi A, Tabasi F, Monjazebi F, Hashemian SMR, Tabarsi P, Farzanegan B, Malekmohammad M, Salimi A, Salimi M, Raoufy MR, Jamaati H, Velayati AA. Clinical Features and Outcomes of ICU Patients with COVID-19 Infection in Tehran, Iran: a Single-Centered Retrospective Cohort Study. *Tanaffos.* 2020 Dec;19(4):300-311.
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35. Mazidi M.H., Eshghi, M., Raoufy M.R. Premature Ventricular Contraction (PVC) Detection System Based on Tunable Q-Factor Wavelet Transform. *J. Biomed. Phys. Eng.* 30 December 2020
36. Dehdar K, Mahdidoust S, Salimi M, Gholami-Mahtaj L, Nazari M, Mohammadi S, Dehghan S, Jamaati H, Khosrowabadi R, Nasiraei-Moghaddam A, Barkley V, Javan M, Mirnajafi-Zadeh J, Sumiyoshi A, Raoufy MR. Allergen-induced anxiety-like behavior is associated with disruption of medial prefrontal cortex - amygdala circuit. *Sci Rep.* 2019 Dec 20;9(1):19586.
37. Salimi M, Ghazvineh S, Zare M, Parsazadegan T, Dehdar K, Nazari M, Mirnajafi-Zadeh J, Jamaati H, Raoufy MR. Distraction of olfactory bulb-medial prefrontal cortex circuit may induce anxiety-like behavior in allergic rhinitis. *PLoS One.* 2019 Sep 11;14(9):e0221978.
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39. Noroozzadeh M, Raoufy MR, Yarandi RB, Shahrivar FF, Tehrani FR. The effects of prenatal androgen exposure on cardiac function and tolerance to ischemia/reperfusion injury in male and female rats during adulthood. *Life Sci.* 2019 Jul;229:251-260.

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41. Ghasemi Z, Naderi N, Shojaei A, Reza Raoufy M, Ahmadirad N, Barkley V, Mirnajafi-Zadeh J. The Inhibitory Effect of Different Patterns of Low Frequency Stimulation on Neuronal Firing following Epileptiform Activity in Rat Hippocampal Slices. *Brain Res.* 2019 Mar 1;1706:184-195.
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44. Mazidi M.H., Eshghi, M., Raoufy M.R. FPGA implementation of wearable ECG system for detection premature ventricular contraction. *International Journal of COMADEM* 2019;22(4):51-59.
45. Ghazvineh S, Salimi A, Mirnajafi-Zadeh J, Raoufy MR. Evaluating the Effect of Applying Nasal Airflow on Medial Prefrontal Cortex in Rats. *Nafas* 2019;6(2):1-6
46. Parsazadegan T, Salimi A, Raoufy MR. Oral Breathing Diminish Frontal Lobe Activity During Resting State. *Nafas* 2019;6(1):8-13
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51. Tabasi F, Raoufy MR. Eliminated respiration-coupled oscillations in the brain as a possible link between adenotonsillar hypertrophy and cognitive impairment. *Med Hypotheses.* 2018 Mar;112:63-64.
52. Eslami-Behroozi M, Javan M, Raoufy MR. Effect of airway remodeling and hyperresponsiveness on complexity of breathing pattern in rat. *Respir Physiol Neurobiol.* 2018 Jan;247:65-70.

53. Ghasemi Z, Naderi N, Shojaei A, Raoufy MR, Ahmadirad N, Mirnajafi-Zadeh J. Effect of Low-Frequency Electrical Stimulation on the High-K<sup>+</sup>-Induced Neuronal Hyperexcitability in Rat Hippocampal Slices. *Neuroscience*. 2017 Nov 11;369:87-96.
54. Pazhoohan S, Raoufy MR, Javan M, Hajizadeh S. Effect of Rho-kinase inhibition on complexity of breathing pattern in a guinea pig model of asthma. *PLoS One*. 2017 Oct 31;12(10):e0187249.
55. Z Ghasemi, N Naderi, A Shojaei, N Ahmadirad, MR Raoufy, Mirnajafi-Zadeh J. Low frequency electrical stimulation attenuated the epileptiform activity-induced changes in action potential features in hippocampal CA1 pyramidal neurons. *Cell J (Yakhteh)*. 2017; 20 (3)
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