

Curriculum Vitae

Surname: Sarihi **First name:** Abdolrahman

Date of Birth: 15/07/1965 **Place of Birth:** Hamadan

Nationality: Iranian

Present Position: Professor of Physiology at faculty of Medicine, Hamadan University of Medical Sciences, Hamadan, Iran.

Educational Background:

1. B. Sc. in Biology, Faculty of Sciences, Kerman, Iran, 1986-1990.
2. M. Sc. in Human Physiology, Faculty of Medicine, Kerman University of Medical Sciences, Kerman, Iran, 1992-1995.
3. Ph. D. in Medical Physiology, School of Medical Sciences, Tarbiat Modares University, Tehran, Iran, 1996-2000.
4. Post-doctoral fellowship in neuroscience at RIKEN Brain Sciences Institute, Japan (Jan 10, 2005~ Mar 20, 2009).

Profession carrier:

1. Faculty member as instructor (~1995-2000) and assistant professor (2000-2005) at faculty of Medicine, Hamadan University of Medical Sciences, Hamadan, Iran.
2. Research Scientist at RIKEN Brain Sciences Institute, Japan (Jan 10, 2005~ Mar 20, 2009).
3. Faculty member as associate professor (2009-2013) and professor (2013 up to now) at faculty of Medicine, Hamadan University of Medical Sciences, Hamadan, Iran.
4. Head of Physiology department at Hamadan University of Medical Sciences, Hamadan, Iran. (2009-2011).
5. Head of Sina Research Institute in Hamadan University of Medical Sciences (2011 up to now).
6. Faculty deputy of Basic Sciences and Graduate School of Medicine, Hamedan University of Medical Sciences (2013 up to now)

Member of Academic Societies : Iranian physiology and Pharmacology Society, Iranian Neuroscience Society, IBRO, FAOPS, FAONS, SfN, JNS

Research experience:

1. Behavioral and electrophysiological experiments on neurobiological mechanisms of spatial cognition and field potential recording during 3 years in Tarbiat Modarres University, Tehran, Iran.
2. IBRO/UNESCO/FAONS/MAHIDOL UNIVERSITY International Intensive Workshop in Neuroscience, September 29-October 19, 1996-Salaya, Nakorn Pathom, Thailand (Intra-cellular recording, Extra-cellular single unit recording, Field potential recording from brain slices, Isolated spinal cord recording)
3. Workshop on computer-assisted learning in medical sciences, Brisbane, Australia, 23-26 September 1998.
4. Recording of unit activity in freely moving animals during 10 month, Institute of Physiology, Prague, Czech Republic 1999-2000.
5. Second workshop of Iranian Neuroscience Society in electrophysiology, 19-21 May 1999, Tehran, Iran.
6. IBRO School 2002, Hong Kong, 2-15 Dec, Imaging Techniques.
7. RIKEN Summer program 2004, 5-17 Jul, Learning & Memory.
8. Doing independent electrophysiology project using patch clamp recording in acute brain slices from transgenic mice to study visual cortex neuronal circuit mechanisms Jan 2005~ Mar 2009..

List of selected International Publications:

(corresponding author marked by*)

1. Mahin Bashiri-Nahnjeh, Abdolrahman Sarihi, Ahmad Ebadi, Dara Dastan, Mojdeh Mohammad, In silico molecular modeling, neuro-behavioral profile, and toxicity assessment of the essential oil of *Ferula gummosa* Boiss. as an anti-seizure agent. *Journal of Ethnopharmacology* 2023; 309, 116347.
2. *Zahra Ebrahimi, Nazanin Kahvandi, Elahe Shahriari, Alireza Komaki, Seyed Asaad Karimi, Marzieh Naderishahab, Maryam Sharifi, Abdolrahman Sarihi* VU0155041, a positive allosteric modulator of mGluR4, in the nucleus accumbens facilitates extinction and inhibits the reinstatement of morphine-induced conditioned place preference in male rats Brain Research Bulletin Volume 197, 1 June 2023, Pages 57-64*
3. Mohammad Hosein Farzaei, Fatemeh Ramezani-Aliakbari, Maryam Ramezani-Aliakbari, Mohammad Zarei, Alireza Komaki, Siamak Shahidi, Abdolrahman Sarihi, Iraj Salehi, Regulatory effects of trimetazidine in cardiac ischemia/reperfusion injury, *Naunyn-Schmiedeberg's archives of pharmacology*, 2023; pp1-14.

4. Zeynab Sayahi, Alireza Komaki, Masoud Saidi Jam, Seyed Asaad Karimi, Safoura Raoufi, Parastoo Mardani, Marzieh Naderishahab, Abdolrahman Sarihi*, Javad Mirnajafi-Zadeh Effect of ramosetron, a 5-HT₃ receptor antagonist on the severity of seizures and memory impairment in electrical amygdala kindled rats *The Journal of Physiological Sciences*, 2022; 72pp1-11.
5. Zahra Ebrahimi, Nazanin Kahvandi, Alireza Komaki, Seyed Asaad Karimi, Marzieh Naderishahab, Abdolrahman Sarihi*, The role of mGlu4 receptors within the nucleus accumbens in acquisition and expression of morphine-induced conditioned place preference in male rats, *BMC Neurosci.* 2021; 22: 17.
6. Nazanin Kahvandi, Zahra Ebrahimi, Seyed Asaad Karimi, Siamak Shahidi, Iraj Salehi, Marzieh Naderishahab, Abdolrahman Sarihi, The effect of the mGlu8 receptor agonist, (S)-3,4-DCPG on acquisition and expression of morphine-induced conditioned place preference in male rats, *Behav Brain Funct.* 2021; 17: 1.
7. Zahra Taslimi, Alireza Komaki, Abbas Haghparast, Abdolrahman Sarihi Effects of Acute and Chronic Restraint Stress on Reinstatement of Extinguished Methamphetamine-induced Conditioned Place Preference in Rats, *Basic Clin Neurosci.* 2018 May-Jun; 9(3): 157–166.
8. Alireza Komaki, Nasrin Hashemi-Firouzi, Sahar Kakaie, Siamak Shahidi, Abdolrahman Sarihi, Iraj Salehi Investigating the effect of hydro-alcoholic extract of *Salix aegyptiaca* on anxiety in male rat, *Adv Biomed Res.* 2015; 4: 258.
9. Heresh Moridi, Abdolrahman Sarihi, Elahe Habibitabar, Hossein Shateri, Iraj Salehi, Alireza Komaki, Jamshid Karimi, Seyed Asaad Karimi Effects of post-training administration of LY341495, as an mGluR2/3 antagonist on spatial memory deficit in rats fed with high-fat diet *IBRO Rep.* 2020 Dec; 9: 241–246.
10. Interaction between Antagonist of Cannabinoid Receptor and Antagonist of Adrenergic Receptor on Anxiety in Male Rat, Alireza Komaki, Fatemeh Abdollahzadeh, Abdolrahman Sarihi, Siamak Shahidi, Iraj Salehi, *Basic Clin Neurosci.* 2014 Summer; 5(3): 218–224.
11. Karimi SA, Salehi I, Komaki A, **Sarihi A**, Zarei M, Shahidi S. Effect of high-fat diet and antioxidants on hippocampal long-term potentiation in rats: an in vivo study. *Brain Res.* 2013 Nov 20;1539:1-6.
12. Arami MK, Sohya K, **Sarihi A**, Jiang B, Yanagawa Y, Tsumoto T. Reciprocal Homosynaptic and heterosynaptic long-term plasticity of corticogeniculate projection neurons in layer VI the mouse visual cortex. *J Neurosci.* 2013 May 1;33(18):7787-98.

13. Zarepour L, Komaki A, Shahidi S, **Sarihi A**, Haghparast A. Potentiation of rewarding properties of morphine by concurrent chemical stimulation of lateral hypothalamus in rats. *Pharmacol Biochem Behav.* 2013 Jun;107:36-41
14. Jabbarpour Z, Shahidi S, Saidijam M, **Sarihi A**, Hassanzadeh T, Esmaeili R. Effect of tempol on the passive avoidance and novel object recognition task in diabetic rats. *Brain Res Bull.* 2014 Feb;101:51-6.
15. Zarepour L, Fatahi Z, **Sarihi A***, Haghparast A. Blockade of orexin-1 receptors in the ventral tegmental area could attenuate the lateral hypothalamic stimulation-induced potentiation of rewarding properties of morphine. *Neuropeptides.* 2014 Jun;48(3):179-85.
16. Roohi N, **Sarihi A***, Shahidi S, Zarei M, Haghparast A. Microinjection of the mGluR5 antagonist MTEP into the nucleus accumbens attenuates the acquisition but not expression of morphine-induced conditioned place preference in rats. *Pharmacol Biochem Behav.* 2014 Nov;126:109-15.
17. Komaki A, Abdollahzadeh F, **Sarihi A**, Shahidi S, Salehi I Interaction between Antagonist of Cannabinoid Receptor and Antagonist of Adrenergic Receptor on Anxiety in Male Rat. *Basic Clin Neurosci.* 2014 Summer;5(3):218-24.
18. Karimi SA, Komaki A, Salehi I, **Sarihi A**, Shahidi S. Role of group II metabotropic glutamate receptors (mGluR2/3) blockade on long-term potentiation in the dentate gyrus region of hippocampus in rats fed with high-fat diet. *Neurochem Res.* 2015 Apr;40(4):811-7.
19. Barzegar S, Komaki A, Shahidi S, **Sarihi A**, Mirazi N, Salehi I. Effects of cannabinoid and glutamate receptor antagonists and their interactions on learning and memory in male rats. *Pharmacol Biochem Behav.* 2015 Apr;131:87-90.
20. Komaki A, Karimi SA, Salehi I, **Sarihi A**, Shahidi S, Zarei M. The treatment combination of vitamins E and C and astaxanthin prevents high-fat diet induced memory deficits in rats. *Pharmacol Biochem Behav.* 2015 Apr;131:98-103.
21. Khodamoradi N, Komaki A, Salehi I, Shahidi S, **Sarihi A**. Effect of vitamin E on lead exposure-induced learning and memory impairment in rats. *Physiol Behav.* 2015 May 15;144:90-4.
22. Tahmasebi L, Komaki A, Karamian R, Shahidi S, **Sarihi A**, Salehi I, Nikkhah A. The interactive role of cannabinoid and vanilloid systems in hippocampal synaptic plasticity in rats. *Eur J Pharmacol.* 2015 Jun 15;757:68-73.
23. Karamian R, Komaki A, Salehi I, Tahmasebi L, Komaki H, Shahidi S, **Sarihi A**. Vitamin C reverses lead-induced deficits in hippocampal synaptic plasticity in rats. *Brain Res Bull.* 2015 Jul;116:7-15.
24. Baharlouei N, **Sarihi A**, Komaki A, Shahidi S, Haghparast A. Blockage of acquisition and expression of morphine-induced conditioned place preference in rats due to activation of glutamate receptors type II/III in nucleus accumbens. *Pharmacol Biochem Behav.* 2015 Aug;135:192-8.

25. **Sarihi A**, Emam AH, Panah MH, Komaki A, Seif S, Vafaeirad M, Alaii Effects of activation and blockade of orexin A receptors in the medial preoptic area on food intake in male rats. *Neurosci Lett*. 2015 Sep 14;604:157-60.
26. Salehi I, Karamian R, Komaki A, Tahmasebi L, Taheri M, Nazari M, Shahidi S, **Sarihi A**. Effects of vitamin E on lead-induced impairments in hippocampal synaptic plasticity. *Brain Res*. 2015 Dec 10;1629:270-81.
27. Komaki A, Hashemi-Firouzi N, Kakaei S, Shahidi S, **Sarihi A**, Salehi I. Investigating the effect of hydro-alcoholic extract of *Salix aegyptiaca* on anxiety in male rat. *Adv Biomed Res*. 2015 Nov 30;4:258.
28. Nazari M, Komaki A, Karamian R, Shahidi S, **Sarihi A**, Asadbegi M. The interactive role of CB1 and GABAB receptors in hippocampal synaptic plasticity in rats. *Brain Res Bull*. 2016 Jan;120:123
29. Emam AH, Hajesfandiari N, Shahidi S, Komaki A, Ganji M, **Sarihi A***. Modulation of nociception by medial pre-optic area orexin a receptors and its relation with morphine in male rats. *Brain Res Bull*. 2016 Oct;127:141-147

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