

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 within 5 recent years:

(corresponding author marked by*)

1. *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.*
2. *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.*
3. *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*
4. *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.*
5. *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.

6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. **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.
16. 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.

17. 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.
18. 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
19. 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
20. Nazari M, Komaki A, Salehi I, Sarihi A, Shahidi S, Komaki H, Ganji A. Interactive effects of AM251 and baclofen on synaptic plasticity in the rat dentate gyrus. *Brain Res.* 2016 Nov 15;1651:53-60.
21. Ganji A, Salehi I, Sarihi A, Shahidi S, Komaki A. Effects of *Hypericum Scabrum* extract on anxiety and oxidative stress biomarkers in rats fed a long-term high-fat diet. *Metab Brain Dis.* 2017 Apr;32(2):503-511.
22. Shahidi S, Zargooshnia S, Asl SS, Komaki A, Sarihi A. Influence of N-acetyl cysteine on beta-amyloid-induced Alzheimer's disease in a rat model: A behavioral and electrophysiological study. *Brain Res Bull.* 2017 May;131:142-149.
23. Komaki H, Saadat F, Shahidi S, Sarihi A, Hasanein P, Komaki A. The interactive role of CB1 receptors and L-type calcium channels in hippocampal long-term potentiation in rats. *Brain Res Bull.* 2017 May;131:168-175.
24. Etaee F, Asadbegi M, Taslimi Z, Shahidi S, Sarihi A, Soleimani Asl S, Komaki A. The effects of methamphetamine and buprenorphine, and their interaction on anxiety-like behavior and locomotion in male rats. *Neurosci Lett.* 2017 Aug 10;655:172-178.

25. Salehi I, Komaki A, Karimi SA, Sarihi A, Zarei M. Effect of garlic powder on hippocampal long-term potentiation in rats fed high fat diet: an in vivo study. *Metab Brain Dis.* 2018 Jun;33(3):725-731.
26. Asadbegi M, Komaki A, Salehi I, Yaghmaei P, Ebrahim-Habibi A, Shahidi S, Sarihi A, Soleimani Asl S, Golipoor Z. Effects of thymol on amyloid- β -induced impairments in hippocampal synaptic plasticity in rats fed a high-fat diet. *Brain Res Bull.* 2018 Mar;137:338-350.
27. Baharlouei N, Sarihi A, Moradi M, Zarrabian S, Haghparast A. Microinjection of the mGluR2/3 agonist, LY379268, into the nucleus accumbens attenuates extinction latencies and the reinstatement of morphine-induced conditioned place preference in rats. *Behav Pharmacol.* 2018 Aug;29(5):385-392.
28. AMN082-a metabotropic glutamate receptor type 7 allosteric agonist in the NAc facilitates extinction and inhibits the reinstatement of morphine-induced conditioned place preference in male rats. Vatankhah M, Sarihi A, Komaki A, Shahidi S, Haghparast A. *Brain Res Bull.* 2018 Jun;140:28-33. doi: 10.1016/j.brainresbull.2018.03.017. Epub 2018 Mar 29.
29. Glucocorticoid receptors in the basolateral amygdala mediated the restraint stress-induced reinstatement of methamphetamine-seeking behaviors in rats. Taslimi Z, Sarihi A, Haghparast A. *Behav Brain Res.* 2018 Aug 1;348:150-159.
30. Mardani P, Oryan S, Sarihi A, Komaki A, Shojaei A, Dehghan S, Mirnajafi-Zadeh J. ERK activation is required for the antiepileptogenic effect of low frequency electrical stimulation in kindled rats. *Brain Res Bull.* 2018 Jun;140:132-139.
31. Vatankhah M, Karimi-Haghighi S, Sarihi A, Haghparast A. Intra-accumbal administration of AMN082, a metabotropic glutamate receptor type 7 allosteric agonist, inhibits the acquisition but not the expression of morphine-induced conditioned place preference in rats. *Neurosci Lett.* 2018 Aug 10;681:56-61.
32. Endocannabinoid CB1 receptors are involved in antiepileptogenic effect of low frequency electrical stimulation during perforant path kindling in rats. Mardani P, Oryan S, Sarihi A, Alaei E, Komaki A, Mirnajafi-Zadeh J. *Epilepsy Res.* 2018 Aug;144:71-81.

33. *Effects of Acute and Chronic Restraint Stress on Reinstatement of Extinguished Methamphetamine-induced Conditioned Place Preference in Rats.* Taslimi Z, Komaki A, Haghparast A, Sarihi A. *Basic Clin Neurosci.* 2018 May-Jun;9(3):157-166.
34. *Almasi A, Zarei M, Raoufi S, Sarihi A, Salehi I, Komaki A, Hashemi-Firouzi N, Shahidi S. Influence of hippocampal GABAB receptor inhibition on memory in rats with acute β -amyloid toxicity.* *Metab Brain Dis.* 2018 Dec;33(6):1859-1867.
35. *Gharib A, Sayyahi Z, Komaki A, Barkley V, Sarihi A, Mirnajafi-Zadeh J. The role of 5-HT1A receptors of hippocampal CA1 region in anticonvulsant effects of low-frequency stimulation in amygdala kindled rats.* *Physiol Behav.* 2018 Nov 1;196:119-125.
36. *Beigi B, Shahidi S, Komaki A, Sarihi A, Hashemi-Firouzi N. Pretraining hippocampal stimulation of melatonin type 2 receptors can improve memory acquisition in rats.* *Int J Neurosci.* 2019 May;129(5):492-500.
37. *Taslimi Z, Komaki A, Sarihi A, Haghparast A. Effect of acute and chronic restraint stress on electrical activity of prefrontal cortex neurons in the reinstatement of extinguished methamphetamine-induced conditioned place preference: An electrophysiological study.* *Brain Res Bull.* 2019 Mar;146:237-243.
38. *Gharib A, Komaki A, Manoochehri Khoshinani H, Saidijam M, Barkley V, Sarihi A, Mirnajafi-Zadeh J. Intrahippocampal 5-HT1A receptor antagonist inhibits the improving effect of low-frequency stimulation on memory impairment in kindled rats.* *Brain Res Bull.* 2019 May;148:109-117

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