



Professor Siamak Shahidi

Personal background

Name: Siamak Shahidi

Date of birth: 1969

Nationality: Iranian

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Department of Physiology,

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Hamadan University of Medical Sciences

Hamedan,

Iran

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Current Position

Head of Department of Physiology, Hamadan University of Medical Sciences, Hamadan, IRAN

Educational background

2000 – 2004, Ph.D in Medical Physiology, Shaheed Beheshti University of Medical Sciences

1993 – 1996, MSc in Medical Physiology, Shaheed Beheshti University of Medical Sciences

1988 – 1992, BSc in General Biology, Shiraz University

Professional experiences

2018-2021: Member of editorial board of Brain Research Bulletin

2014: Chairman of Avicenna journal of neuropsychophysiology, Hamadan University of Medical Sciences

2014: Manager of PhD by research students, Hamadan University of Medical Sciences

2005-2007, 2014-2020: Head of Physiology Department, Hamadan University of Medical Sciences

2009: Member of American Physiological Society

2004: International Brain Research Organization (IBRO) School, Hong Kong

2003: Sabbatical Study, University of Otago, New Zealand

Foundings and plannings

2016: Course: Ph.D in Neuroscience

2011: Neurophysiology Research Center

2009: Course: Master of Science in Human Physiology

2011: Morris Water Maze & Novel object recognition laboratory

2010: Rodents' pain assessment laboratory

2009: Morphine Withdrawal test in rodents

2007: Laboratory of In vivo field potentials recording in the rat

2007: Rodents Anxiety Laboratory

2005: Laboratoy of rodent learning & memory tests

1995: Animal House

HONORS, PRIZES AND AWARDS

2014 **Travel Award**, Korean Endocrine Society

2011 **Travel Award**, From Japan Neuroscience Society

2009 **Travel Award**, From International Union of Physiological Sciences (IUPS)

2009 **Travel Award**, From Asian Oceanian Clinical Neurophysiology Society

2007 **Travel Award**, From International Brain Research Organization (IBRO)

2006 **Travel Award**, From Federation of Asian-Oceanian Neuroscience Society (FAONS)

2005 **Travel Award**, From Japan Neuroscience Society

RESEARCH INTERESTS

Neuroscience

PUBLICATIONS

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Hamedan University of Medical Sciences, Hamadan, Iran [View more](#)


Other name formats:

Shahidi, S.

Subject area:

- Neuroscience
- Biochemistry, Genetics and Molecular Biology
- Medicine
- Pharmacology, Toxicology and Pharmaceutics
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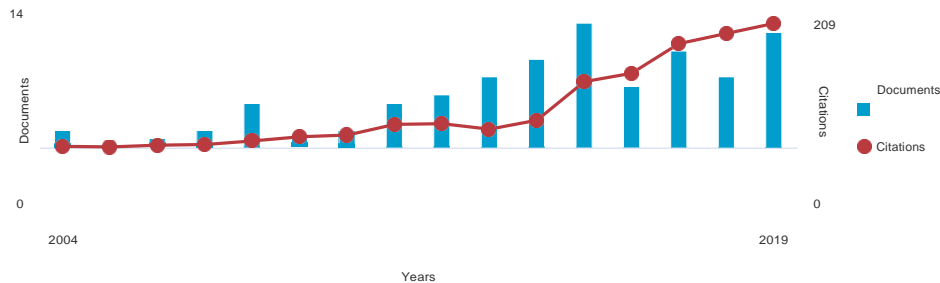
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Coenzyme Q10 supplementation reverses diabetes-related impairments in long-term potentiation induction in hippocampal dentate gyrus granular cells: An in vivo study	Omidi, G., Karimi, S.A., Shahidi, S., Faraji, N., Komaki, A.	2020	Brain Research 1726,146475	0
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Serotonin type 6 receptor antagonist attenuates the impairment of long-term potentiation and memory induced by Abeta	Shahidi, S., Hashemi-Firouzi, N., Asl, S.S., Komaki, A.	2019	Behavioural Brain Research 364, pp. 205-212	0

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Pretraining hippocampal stimulation of melatonin type 2 receptors can improve memory acquisition in rats			
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Alteration level of hippocampus BDNF expression and long-term potentiation upon microinjection of BRL15572 hydrochloride in a rat model of methamphetamine relapse	Shahidi, S., Mehrpour, O., Sadeghian, R., Soleimani Asl, S., Komaki, A.	2019 Brain Research Bulletin 148, pp. 18-24	0
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Investigation of protective effects of coenzyme Q10 on impaired synaptic plasticity in a male rat model of Alzheimer's disease	Komaki, H., Faraji, N., Komaki, A., (...), Raoufi, S., Mirzaei, F.	2019 Brain Research Bulletin 147, pp. 14-21	0
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Involvement of Serotonin 5-HT ₇ Receptors in Learning and Memory in Mice	Shahidi, S., Mahmoodi, M., Sadeghimehr, N.	2019 Neurophysiology 51(2), pp. 77-82	0
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Different doses of methamphetamine alter long-term potentiation, level of BDNF and neuronal apoptosis in the hippocampus of reinstated rats	Shahidi, S., Komaki, A., Sadeghian, R., Asl, S.S.	2019 Journal of Physiological Sciences 69(2), pp. 409-419	1
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Protective effects of 5-HT _{1A} receptor antagonist and 5-HT _{2A} receptor agonist on the biochemical and histological features in a rat model of Alzheimer's disease	Afshar, S., Shahidi, S., Rohani, A.H., Soleimani Asl, S., Komaki, A.	2019 Journal of Chemical Neuroanatomy 96, pp. 140-147	0
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Influence of chronic coenzyme Q10 supplementation on cognitive function, learning, and memory in healthy and diabetic middle-aged rats	Monsef, A., Shahidi, S., Komaki, A.	2019 Neuropsychobiology 77(2), pp. 92-100	1
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Dimethylxalylglycine preconditioning enhances protective effects of bone marrow-derived mesenchymal stem cells in A β - induced Alzheimer disease	Esmaeilzade, B., Artimani, T., Amiri, I., (...), Zahiri, M., Soleimani Asl, S.	2019 Physiology and Behavior 199, pp. 265-272	1
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Intracerebroventricular microinjection of kaempferol on memory retention of passive avoidance learning in rats: involvement of cholinergic mechanism(s)	Zarei, M., Mohammadi, S., Jabbari, S., Shahidi, S.	2019 International Journal of Neuroscience Article in Press	0
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Protective effects of 5-ht _{1a} receptor inhibition and 5-ht _{2a} receptor stimulation against streptozotocin-induced apoptosis in the hippocampus Open Access	Shahidi, S., Hashemi-Firouzi, N., Afshar, S., Asl, S.S., Komaki, A.	2019 Malaysian Journal of Medical Sciences 26(2), pp. 40-51	0

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Effect of coenzyme Q10 supplementation on diabetes induced memory deficits in rats Omidi, G., Karimi, S.A., Rezvani-Kamran, A., (...), Shahidi, S., Komaki, A. 2019 *Metabolic Brain Disease* 1
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Effect of a hydro-alcoholic extract of *Melissa officinalis* on passive avoidance learning and memory Open Access Dehbandi, Z., Komaki, A., Etaee, F., (...), Komaki, S., Faraji, N. 2019 *Journal of HerbMed Pharmacology* 1
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Influence of hippocampal GABA_B receptor inhibition on memory in rats with acute β -amyloid toxicity Almasi, A., Zarei, M., Raoufi, S., (...), 2018 Hashemi-Firouzi, N., Shahidi, S. *Metabolic Brain Disease* 3
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Effect of a 5-HT_{1D} receptor agonist on the reinstatement phase of the conditioned place preference test and hippocampal long-term potentiation in methamphetamine-treated rats Shahidi, S., Komaki, A., Sadeghian, R., Soleimani Asl, S. 2018 *Brain Research* 3
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Intracerebroventricular microinjection of the 5-HT_{1F} receptor agonist LY 344864 inhibits methamphetamine conditioned place preference reinstatement in rats Shahidi, S., Sadeghian, R., Komaki, A., Asl, S.S. 2018 *Pharmacology Biochemistry and Behavior* 1
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The effect of NAD-299 and TCB-2 on learning and memory, hippocampal BDNF levels and amyloid plaques in Streptozotocin-induced memory deficits in male rats Afshar, S., Shahidi, S., Rohani, A.H., Komaki, A., Asl, S.S. 2018 *Psychopharmacology* 11
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5-Hydroxytryptamine receptor 6 antagonist, SB258585 exerts neuroprotection in a rat model of Streptozotocin-induced Alzheimer's disease Hashemi-Firouzi, N., Shahidi, S., Soleimani-Asl, S., Komaki, A. 2018 *Metabolic Brain Disease* 6
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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 Vatankehah, M., Sarihi, A., Komaki, A., Shahidi, S., Haghparast, A. 2018 *Brain Research Bulletin* 4
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The effect of chronic stimulation of serotonin receptor type 7 on recognition, passive avoidance memory, hippocampal long-term potentiation, and neuronal apoptosis in the amyloid β protein treated rat Shahidi, S., Asl, S.S., Komaki, A., Hashemi-Firouzi, N. 2018 *Psychopharmacology* 14
235(5), pp. 1513-1525

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Effects of thymol on amyloid- β -induced impairments in hippocampal synaptic plasticity in rats fed a high-fat diet				
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Erratum to: Treadmill exercise alters ecstasy- induced long- term potentiation disruption in the hippocampus of male rats (Metabolic Brain Disease, (2017), 32, 5, (1603-1607), 10.1007/s11011-017-0046-9)				
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Treadmill exercise attenuates 3,4-methylenedioxymethamphetamine-induced memory impairment through a decrease apoptosis in male rat hippocampus				
		Gharebaghi, A., Amiri, I., Salehi, I., (...), Moravej, F.G., Asl, S.S.	2017 Journal of Neuroscience Research 95(12), pp. 2448-2455	3
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The effects of the 5-HT7 receptor on hippocampal long-term potentiation and apoptosis in a rat model of Alzheimer's disease				
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Treadmill exercise alters ecstasy- induced long- term potentiation disruption in the hippocampus of male rats				
		Sajadi, A., Amiri, I., Gharebaghi, A., (...), Mehdizadeh, M., Soleimani Asl, S.	2017 Metabolic Brain Disease 32(5), pp. 1603-1607	3
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The effects of methamphetamine and buprenorphine, and their interaction on anxiety-like behavior and locomotion in male rats				
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Effects of Sonchus asper and apigenin-7-glucoside on nociceptive behaviors in mice				
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Influence of N-acetyl cysteine on beta-amyloid-induced Alzheimer's disease in a rat model: A behavioral and electrophysiological study				
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The interactive role of CB1 receptors and L-type calcium channels in hippocampal long-term potentiation in rats				
		Komaki, H., Saadat, F., Shahidi, S., (...), Hasanein, P., Komaki, A.	2017 Brain Research Bulletin 131, pp. 168-175	5

Effects of Hypericum Scabrum extract on anxiety and oxidative stress biomarkers in rats fed a long-term high-fat diet	Ganji, A., Salehi, I., Sarihi, A., Shahidi, S., Komaki, A.	2017 Metabolic Brain Disease 32(2), pp. 503-511	11
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Interaction between the cannabinoid and vanilloid systems on anxiety in male rats	Faragi, N., Komaki, A., Firouzi, N.H., Salehi, I., Shahidi, S.	2017 Basic and Clinical Neuroscience 8(2), pp. 129-138	3
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Effects of the hydroalcoholic extract of Rosa damascena on learning and memory in male rats consuming a high-fat diet Open Access	Rezvani-Kamran, A., Salehi, I., Shahidi, S., (...), Moradkhani, S., Komaki, A.	2017 Pharmaceutical Biology 55(1), pp. 2065-2073	7
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Interactive effects of AM251 and baclofen on synaptic plasticity in the rat dentate gyrus	Nazari, M., Komaki, A., Salehi, I., (...), Komaki, H., Ganji, A.	2016 Brain Research 1651, pp. 53-60	7
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Modulation of nociception by medial pre-optic area orexin receptors and its relation with morphine in male rats	Emam, A.H., Hajesfandiari, N., Shahidi, S., (...), Ganji, M., Sarihi, A.	2016 Brain Research Bulletin 127, pp. 141-147	0
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Interaction between paired-pulse facilitation and long-term potentiation during the stimulation of the cannabinoid and vanilloid systems in the dentate gyrus	Tahmasebi, L., Komaki, A., Karamian, R., (...), Sarihi, A., Komaki, H.	2016 Brain Research 1643, pp. 27-34	11
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Study of the effect of extract of Thymus vulgaris on anxiety in male rats Open Access	Komaki, A., Hoseini, F., Shahidi, S., Baharlouei, N.	2016 Journal of Traditional and Complementary Medicine 6(3), pp. 257-261	18
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Analgesic Effects of the Aqueous Lemon Verbena Extract in Rats	Veisi, M., Shahidi, S., Komaki, A., Sarihi, A.	2016 Neurophysiology 48(2), pp. 107-110	0
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Effect of borage on hippocampal TNF- α protein and gene in the amyloid β -peptide(25-35)-induced of Alzheimer model in rat Open Access	Barati, E., Asl, S.S., Pourbakhsh, S.A., Jamshidian, M., Shahidi, S.	2016 Biosciences Biotechnology Research Asia 13(1), pp. 37-42	0
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The interactive role of CB ₁ and GABA _B receptors in hippocampal synaptic plasticity in rats	Nazari, M., Komaki, A., Karamian, R., (...), Sarihi, A., Asadbegi, M.	2016 Brain Research Bulletin 120, pp. 123-130	13

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Effects of Vitamin E on lead-induced impairments in hippocampal synaptic plasticity Salehi, I., Karamian, R., Komaki, A., (...), Shahidi, S., Sarihi, A. 2015 Brain Research 1629, pp. 270-281 24

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Vitamin C reverses lead-induced deficits in hippocampal synaptic plasticity in rats Karamian, R., Komaki, A., Salehi, I., (...), Shahidi, S., Sarihi, A. 2015 Brain Research Bulletin 116, pp. 7-15 26

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Effect of a hydroalcoholic extract of Rosa Canina flowers on anxiety in rats Nemati, Z., Komaki, A., Shahidi, S., Sarihi, A. 2015 Neurophysiology 47(2),A007, pp. 133-137 5

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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 Baharlouei, N., Sarihi, A., Komaki, A., Shahidi, S., Haghparast, A. 2015 Pharmacology Biochemistry and Behavior 135, pp. 192-198 14

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The interactive role of cannabinoid and vanilloid systems in hippocampal synaptic plasticity in rats Tahmasebi, L., Komaki, A., Karamian, R., (...), Salehi, I., Nikkhah, A. 2015 European Journal of Pharmacology 757, pp. 68-73 20

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Effect of vitamin E on lead exposure-induced learning and memory impairment in rats Khodamoradi, N., Komaki, A., Salehi, I., Shahidi, S., Sarihi, A. 2015 Physiology and Behavior 144, pp. 90-94 28

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The protective effect of Borago Officinalis extract on amyloid β (25–35)-induced long term potentiation disruption in the dentate gyrus of male rats Zargooshnia, S., Shahidi, S., Ghahremanitamadon, F., (...), Mehdizadeh, M., Soleimani Asl, S. 2015 Metabolic Brain Disease 30(1), pp. 151-156 12

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The effect of Echium amoenum hydro-alcoholic extract on blood glucose level, lipid profile and lipoproteins in streptozotocin-induced diabetic male rats Mahmoudi, M., Shahidi, S., Golmohammadi, H., Mohammadi, S. 2015 Journal of Zanjan University of Medical Sciences and Health Services 23(97), pp. 72-81 2

Investigating the effect of Borago officinale on hippocampal IL-1 beta protein and gene in the amyloid β -peptide (25-35)-induced of inflammation in rat Open Access	Barati, E., Asl, S.S., Pourbakhsh, S.A., Jamshidian, M., Shahidi, S.	2015 Biomedical and Pharmacology Journal 8(2), pp. 937-943	0
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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	Karimi, S.A., Komaki, A., Salehi, I., Sarihi, A., Shahidi, S.	2015 Neurochemical Research 40(4), pp. 811-817	22
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Study the effect of endocannabinoid system on rat behavior in elevated plus-maze	Komaki, A., Hashemi-Firouzi, N., Shojaei, S., (...), Heidari, S., Shahidi, S.	2015 Basic and Clinical Neuroscience 6(3), pp. 147-153	13
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The treatment combination of vitamins e and C and astaxanthin prevents high-fat diet induced memory deficits in rats	Komaki, A., Karimi, S.A., Salehi, I., (...), Shahidi, S., Zarei, M.	2015 Pharmacology Biochemistry and Behavior 131, pp. 98-103	30
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Effects of cannabinoid and glutamate receptor antagonists and their interactions on learning and memory in male rats	Barzegar, S., Komaki, A., Shahidi, S., (...), Mirazi, N., Salehi, I.	2015 Pharmacology Biochemistry and Behavior 131, pp. 87-90	25
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The effects of a 5-HT7 receptor agonist and antagonist on morphine withdrawal syndrome in mice	Shahidi, S., Hashemi-Firouzi, N.	2014 Neuroscience Letters 578, pp. 27-32	9
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Effects of exposure to an extremely low frequency electromagnetic field on hippocampal long-term potentiation in rat	Komaki, A., Khalili, A., Salehi, I., Shahidi, S., Sarihi, A.	2014 Brain Research 1564, pp. 1-8	27
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Effect of tempol on the passive avoidance and novel object recognition task in diabetic rats	Jabbarpour, Z., Shahidi, S., Saidijam, M., (...), Hassanzadeh, T., Esmaeili, R.	2014 Brain Research Bulletin 101, pp. 51-56	27
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Effects of Phosphodiesterase type 5 inhibitions on morphine withdrawal symptoms in Mice [Efectos comportamentales por inhibición de la fosfodiesterasa tipo 5 sobre los síntomas de abstinencia de morfi na en ratones]	Mahmoodi, M., Shahidi, S., Hashemi-Firouzi, N.	2014 Psicothema 26(4), pp. 511-515	2

and cannabinoid systems on memory in the avoidance test in mice	Rezapoor, N., Shahidi, S., Komaki, A.	2014 Neurophysiology 46(2), pp. 120-125	0
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Microinjection of the mGluR5 antagonist MTEP into the nucleus accumbens attenuates the acquisition but not expression of morphine-induced conditioned place preference in rats	Roohi, N., Sarihi, A., Shahidi, S., Zarei, M., Haghparast, A.	2014 Pharmacology Biochemistry and Behavior 126, pp. 109-115	14
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Interaction between antagonist of cannabinoid receptor and antagonist of adrenergic receptor on anxiety in male rat	Komaki, A., Abdollahzadeh, F., Sarihi, A., Shahidi, S., Salehi, I.	2014 Basic and Clinical Neuroscience 5(3), pp. 218-224	9
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Erratum to: The protective effect of Borago Officinalis extract on amyloid β (25–35)-induced long term potentiation disruption in the dentate gyrus of male rats [Metabolic Brain Disease, (2014), DOI:10.1007/s11011-014-9594-4]	Zargooshnia, S., Shahidi, S., Ghahremanitamadon, F., (...), Mehdizadeh, M., Soleimani Asl, S.	2014 Metabolic Brain Disease 30(1), pp. 157-158	0
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Acute effects of ecstasy on memory are more extensive than chronic effects	Shariati, M.B.H., Sohrabi, M., Shahidi, S., (...), Medizadeh, M., Asl, S.S.	2014 Basic and Clinical Neuroscience 5(3), pp. 225-230	12
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Role of 5-HT ₇ receptors in the anxiety-like behavior in naloxone-induced withdrawal symptoms in mice	Shahidi, S., Hashemi-Firouzi, N.	2013 Neurochemical Journal 7(4), pp. 308-312	2
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Effect of high-fat diet and antioxidants on hippocampal long-term potentiation in rats: An in vivo study	Karimi, S.A., Salehi, I., Komaki, A., (...), Zarei, M., Shahidi, S.	2013 Brain Research 1539, pp. 1-6	43
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Antinociceptive effects of valeriana extract in mice: Involvement of the dopaminergic and serotonergic systems	Shahidi, S., Bathaei, A., Pahlevani, P.	2013 Neurophysiology 45(5-6), pp. 448-452	3
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Morphological effects of combined systemic administration of fluoxetine and sildenafil in the murine hippocampus	Mahmoodi, M., Shahidi, S., Hashemi-Firouzi, N., Komaki, A.		

Effects of neonatal c-fiber depletion on interaction between neocortical short-term and long-term plasticity Komaki, A., Shahidi, S., Sarihi, A., (...), Salehi, I., Arami, M.K. 2013 Basic and Clinical Neuroscience 4(2), pp. 30-37 6

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Potentiation of rewarding properties of morphine by concurrent chemical stimulation of lateral hypothalamus in rats Zarepour, L., Komaki, A., Shahidi, S., Sarihi, A., Haghparast, A. 2013 Pharmacology Biochemistry and Behavior 107, pp. 36-41 16

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Co-administration of fluoxetine and Sildenafil has benefits in anxiety behavior in mice Shahidi, S., Hashemi-Firouzi, N., Mahmoodi, M. 2013 Neurochemical Journal 7(1), pp. 34-38 1

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Antinociceptive effects of an extract of *Securigera securidaca* and their mechanisms in mice Shahidi, S., Pahlevani, P. 2013 Neurophysiology 45(1), pp. 34-38 4

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Antinociceptive properties of hydro-alcoholic extract of *calendula officinalis* in rat Shahidi, S., Mahmoodi, M., Farahmandlou, N. 2012 Basic and Clinical Neuroscience 3(5), pp. 45-48 2

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Cardioprotective effect of diazepam on ischemia-reperfused isolated hyperthyroid rat heart Shackebaei, D., Asadmobini, A., Hesari, M., Vaezi, M., Shahidi, S. 2012 Turkish Journal of Biology 36(5), pp. 598-605 4

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Preventive effect of *Teucrium polium* on learning and memory deficits in diabetic rats Hasanein, P., Shahidi, S. 2012 Medical Science Monitor 18(1), pp. BR41-BR46 22

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