Education:

Undergraduate School: B.Sc in Biology

Graduate School: M.Sc in Human Physiology, TMU, Tehran, I.R. Iran.

Doctoral Degree: Ph.D. in Human Physiology, TMU, Tehran, I.R. Iran.

Postdoctral training: Fourth IBRO postdoctoral training workshop in Basic Neuroscience, Hong Kong.

Teaching experience:

a- Teaching Medical Physiology since 1987.

b- Teaching Physiology for M.Sc students since 1991.

c- Teaching Physiology for Ph.D. students since 1995.

Present research interest: Network Physiology, Synaptic plasticity and Metaplasticity

Research experiences:

1-Brain cannulation in rat

2- Brain slices

3- Extra- and intracellular recording methods

4- Methods of learning and memory studies

5- Methods of the animal model of epilepsy

Publications

Manuscripts:

Papers in the international journals:

1. Moradpour F, Fathollahi Y, Naghdi N, Hosseinmardi N, Javan M. Prepubertal castration-associated developmental changes in sigma-1 receptor gene expression levels regulate hippocampus area CA1 activity during adolescence. Hippocampus. 2016 Jul; 26 (7):933-46. doi: 10.1002/hipo.22576. Epub 2016 Feb 27.

2. Dehghan S, Hesaraki M, Soleimani M, Mirnajafi-Zadeh J, Fathollahi Y, Javan M. Oct4 transcription factor in conjunction with valproic acid accelerates myelin repair in demyelinated optic chiasm in mice. Neuroscience. 2016 Mar 24; 318:178-89. doi: 10.1016/j.neuroscience.2016.01.028. Epub 2016 Jan 22.

3. Gholami M, Moradpour F, Semnanian S, Naghdi N, Fathollahi Y. Chronic sodium salicylate administration enhances population spike long-term potentiation following a combination of theta frequency primed-burst stimulation and the transient application of pentylenetetrazol in rat CA1 hippocampal neurons. Eur J Pharmacol. 2015 Nov 15; 767:165-74. doi: 10.1016/j.ejphar.2015.10.021. Epub 2015 Oct 22.

4. Kaeidi A, Azizi H, Javan M, Ahmadi Soleimani SM, Fathollahi Y, Semnanian S. Direct Facilitatory Role of Paragigantocellularis Neurons in Opiate Withdrawal-Induced Hyperactivity of Rat Locus Coeruleus Neurons: An In Vitro Study. PLoS One. 2015 Jul 31; 1 0(7):e0134873. doi: 10.1371/journal.pone.0134873. eCollection 2015.

5. Azhdari-Zarmehri H, Semnanian S, Fathollahi Y. Orexin-a modulates firing of rat rostral ventromedial medulla neurons: an in vitro study. Cell J. 2015 Spring; 17 (1):163-70. Epub 2015 Apr 8.

6. Doost Mohammadpour J, Hosseinmardi N, Janahmadi M, Fathollahi Y, Motamedi F, Rohampour K. Non-selective NSAIDs improve the amyloid-β-mediated suppression of memory and synaptic plasticity. Pharmacol Biochem Behav. 2015 Feb 17; 132:33-41. doi: 10.1016/j.pbb.2015.02.012. [Epub ahead of print]

7. Dehghan S, Asadi S, Hajikaram M, Soleimani M, Mowla SJ, Fathollahi Y, Ahmadiani A, Javan M. Exogenous Oct4 in combination with valproic acid increased neural progenitor markers: an approach for enhancing the repair potential of the brain. Life Sci. 2015 Feb 1; 122:108-15. doi: 10.1016/j.lfs.2014.12.007. Epub 2014 Dec 19.

8. Sadegh M, Fathollahi Y. Repetitive systemic morphine alters activity-dependent plasticity of Schaffer-collateral-CA1 pyramidal cell synapses: involvement of adenosine A1 receptors and adenosine deaminase. J Neurosci Res. 2014 Oct; 92 (10):1395-408. doi: 10.1002/jnr.23414. Epub 2014 Jun 5.

9. Azhdari-Zarmehri H, Semnanian S, Fathollahi Y. Orexin-A microinjection into the rostral ventromedial medulla causes antinociception on formalin test. Pharmacol Biochem Behav. 2014 Jul; 122:286-90. doi: 10.1016/j.pbb.2014.03.017. Epub 2014 Mar 29.

10. .Azhdari-Zarmehri H, Semnanian S, Fathollahi Y, Pakdel FG. Tail flick modification of orexin-a induced changes of electrophysiological parameters in the rostral ventromedial medulla. Cell J. 2014 Summer; 16 (2):131-40. Epub 2014 May 25.

11. Miladi-Gorji H, Rashidy-Pour A, Fathollahi Y, Semnanian S, Jadidi M. Effects of voluntary exercise on hippocampal long-term potentiation in morphine-dependent rats. Neuroscience. 2014 Jan 3; 256:83-90. doi: 10.1016/j.neuroscience.2013.09.056. Epub 2013 Oct 17.

12. Sadegh M, Fathollahi Y, Semnanian S. The chronic treatment in vivo of salicylate or morphine alters excitatory effects of subsequent salicylate or morphine tests in vitro in hippocampus area CA1. Eur J Pharmacol. 2013 Dec 5; 721 (1-3):103-8. doi: 10.1016/j.ejphar.2013.09.048. Epub 2013 Oct 3.

13. Moradpour F, Naghdi N, Fathollahi Y, Javan M, Choopani S, Gharaylou Z. Pre-pubertal castration improves spatial learning during mid-adolescence in rats. Prog Neuropsychopharmacol Biol Psychiatry. 2013 Oct 1; 46:105-12. doi: 10.1016/j.pnpbp.2013.07.005. Epub 2013 Jul 16.

14. Sadegh M, Fathollahi Y, Naghdi N, Semnanian S. Morphine deteriorates spatial memory in sodium salicylate treated rats. Eur J Pharmacol. 2013 Mar 15; 704 (1-3):1-6. doi: 10.1016/j.ejphar.2013.02.017. Epub 2013 Feb 24.

15. Moradpour F, Fathollahi Y, Naghdi N, Hosseinmardi N, Javan M. Prepubertal castration causes the age-dependent changes in hippocampal long-term potentiation. Synapse. 2013 May; 67 (5):235-44. doi: 10.1002/syn.21636. Epub 2013 Feb 14.

16. Ranjbar-Slamloo Y, Azizi H, Fathollahi Y, Semnanian S.Orexin receptor type-1 antagonist SB-334867 inhibits the development of morphine analgesic tolerance in rats. Peptides. 2012 May; 35 (1):56-9. doi: 10.1016/j.peptides.2012.02.023. Epub 2012 Mar 6.

17. Hosseinmardi N, Azimi L, Fathollahi Y, Javan M, Naghdi N. In vivo sodium salicylate causes tolerance to acute morphine exposure and alters the ability of high frequency stimulation to induce long-term potentiation in hippocampus area CA1. Eur J Pharmacol. 2011 Nov 30; 670 (2-3):487-94. doi: 10.1016/j.ejphar.2011.09.008. Epub 2011 Sep 21.

18. .Miladi-Gorji H, Rashidy-Pour A, Fathollahi Y, Akhavan MM, Semnanian S, Safari M. Voluntary exercise ameliorates cognitive deficits in morphine dependent rats: the role of hippocampal brain-derived neurotrophic factor. Neurobiol Learn Mem. 2011 Oct; 96 (3):479-91. doi: 10.1016/j.nlm.2011.08.001. Epub 2011 Aug 22.

19. Miladi-Gorji H, Rashidy-Pour A, Fathollahi Y. Anxiety profile in morphine-dependent and withdrawn rats: effect of voluntary exercise. Physiol Behav. 2012 Jan 18; 105(2):195-202. doi: 10.1016/j.physbeh.2011.08.010. Epub 2011 Aug 17.

20. Azhdari Zarmehri H, Semnanian S, Fathollahi Y, Erami E, Khakpay R, Azizi H, Rohampour K. Intra-periaqueductal gray matter microinjection of orexin-A decreases formalin-induced nociceptive behaviors in adult male rats. J Pain. 2011 Feb; 12 (2):280-7. doi: 10.1016/j.jpain.2010.09.006. Epub 2010 Dec 10.

21. .Ahmed T, Gilani AH, Hosseinmardi N, Semnanian S, Enam SA, Fathollahi Y. Curcuminoids rescue long-term potentiation impaired by amyloid peptide in rat hippocampal slices. Synapse. 2011 Jul; 65 (7):572-82. doi: 10.1002/syn.20876. Epub 2010 Dec 3.

22. Salmani ME, Fathollahi Y, Mirnajafizadeh J, Semnanian S. Epileptogenic insult alters endogenous adenosine control on long-term changes in synaptic strength by theta pattern stimulation in hippocampus area CA1. Synapse. 2011 Mar; 65 (3):189-97. doi: 10.1002/syn.20834.

23. Soleimannejad E, Naghdi N, Khatami Sh, Semnanian S, Fathollahi Y. Formalin pain increases the concentration of serotonin and its 5-hydroxyindoleacetic acid metabolite in the CA1 region of hippocampus. Daru. 2010; 18 (1):29-34.

24. Hosseinmardi N, Fathollahi Y, Naghdi N, Javan M. Theta pulse stimulation: a natural stimulus pattern can trigger long-term depression but fails to reverse long-term potentiation in morphine withdrawn hippocampus area CA1. Brain Res. 2009 Nov 3; 1296:1-14. doi: 10.1016/j.brainres.2009.08.020. Epub 2009 Aug 15.

25. Janahmadi M, Goudarzi I, Kaffashian MR, Behzadi G, Fathollahi Y, Hajizadeh S. Co-treatment with riluzole, a neuroprotective drug, ameliorates the 3-acetylpyridine-induced neurotoxicity in cerebellar Purkinje neurones of rats: behavioural and electrophysiological evidence. Neurotoxicology. 2009 May; 30 (3):393-402. doi: 10.1016/j.neuro.2009.02.014. Epub 2009 Mar 5.

26. Ghorbanian MT, Tiraihi T, Mesbah-Namin SA, Fathollahi Y. Selegiline is an efficient and potent inducer for bone marrow stromal cell differentiation into neuronal phenotype. Neurol Res. 2010 Mar; 32 (2):185-93. doi: 10.1179/174313209X409016. Epub 2009 May 6.

27. Rashidy-Pour A, Vafaei AA, Taherian AA, Miladi-Gorji H, Sadeghi H, Fathollahi Y, Bandegi AR. Verapamil enhances acute stress or glucocorticoid-induced deficits in retrieval of long-term memory in rats. Behav Brain Res. 2009 Oct 12; 203 (1):76-80. doi: 10.1016/j.bbr.2009.04.018. Epub 2009 Apr 24.

28. Jafarzadeh Z, Fathollahi Y, Semnanian S, Omrani A, Salmanzadeh F, Salmani ME. Morphine dependence increases the response to a brief pentylenetetrazol administration in rat hippocampal CA1 in vitro. Epilepsia. 2009 Apr; 50 (4):789-800. doi: 10.1111/j.1528-1167.2008.01802.x. Epub 2008 Oct 6.

29. Mohammad-Zadeh M, Mirnajafi-Zadeh J, Fathollahi Y, Javan M, Jahanshahi A, Noorbakhsh SM, Motamedi F. The role of adenosine A (1) receptors in mediating the inhibitory effects of low frequency stimulation of perforant path on kindling acquisition in rats. Neuroscience. 2009 Feb 18; 158 (4):1632-43. doi: 10.1016/j.neuroscience.2008.11.008. Epub 2008 Nov 8.

30. .Abrari K, Rashidy-Pour A, Semnanian S, Fathollahi Y, Jadid M. Post-training administration of corticosterone enhances consolidation of contextual fear memory and hippocampal long-term potentiation in rats. Neurobiol Learn Mem. 2009 Mar; 91 (3):260-5. doi: 10.1016/j.nlm.2008.10.008. Epub 2008 Dec 3. Erratum in: Neurobiol Learn Mem. 2009 Oct; 92 (3):468. Jadid, Majid [added].

31. Namvar S, Mirnajafi-Zadeh J, Fathollahi Y, Zeraati M. The role of piriform cortex adenosine A1 receptors on hippocampal kindling. Can J Neurol Sci. 2008 May; 35 (2):226-31.

32. .Miladi Gorji H, Rashidy-Pour A, Fathollahi Y. Effects of morphine dependence on the performance of rats in reference and working versions of the water maze. Physiol Behav. 2008 Feb 27; 93 (3):622-7. Epub 2007 Nov 9.

33. Satarian L, Javan M, Fathollahi Y. Epinephrine inhibits analgesic tolerance to intrathecal administrated morphine and increases the expression of calcium-calmodulin-dependent protein kinase II alpha. Neurosci Lett. 2008 Jan 17; 430 (3):213-7. Epub 2007 Nov 6.

34. Sadegh M, Mirnajafi-Zadeh J, Javan M, Fathollahi Y, Mohammad-Zadeh M, Jahanshahi A, Noorbakhsh SM. The role of galanin receptors in anticonvulsant effects of low-frequency stimulation in perforant path-kindled rats. Neuroscience. 2007 Dec 5; 150 (2):396-403. Epub 2007 Oct 9.

35. Salmani ME, Mirnajafizadeh J, Fathollahi Y. Offsetting of aberrations associated with seizure proneness in rat hippocampus area CA1 by theta pulse stimulation-induced activity pattern. Neuroscience. 2007 Nov 9; 149 (3):518-26. Epub 2007 Aug 28.

36. Ghorbani P, Mohammad-Zadeh M, Mirnajafi-Zadeh J, Fathollahi Y. Effect of different patterns of low-frequency stimulation on piriform cortex kindled seizures. Neurosci Lett. 2007 Oct 2; 425 (3):162-6. Epub 2007 Aug 19.

37. Rezvani ME, Mirnajafi-Zadeh J, Fathollahi Y, Palizvan MR. Anticonvulsant effect of A1 but not A2A adenosine receptors of piriform cortex in amygdala-kindled rats. Can J Physiol Pharmacol. 2007 Jun; 85 (6):606-12.

38. Abrari K, Rashidy-Pour A, Semnanian S, Fathollahi Y. Administration of corticosterone after memory reactivation disrupts subsequent retrieval of a contextual conditioned fear memory: dependence upon training intensity. Neurobiol Learn Mem. 2008 Feb; 89 (2):178-84. Epub 2007 Aug 16.

39. Shamsizadeh A, Sheibani V, Arabzadeh S, Afarinesh MR, Farazifard R, Noorbakhsh SM, Fathollahi Y. Single whisker experience started on postnatal days 0, 5 or 8 changes temporal characteristics of response integration in layers IV and V of rat barrel cortex neurons. Brain Res Bull. 2007 Sep 14; 74 (1-3):29-36. Epub 2007 May 25.

40. Fereidoni M, Fathollahi Y, Janahmadi M, Godarzi I. A rapid and non-leaky way for preparation of the sharp intracellular recording microelectrodes. J Biochem Biophys Methods. 2008 Apr 24; 70 (6):1124-9. Epub 2007 May 29.

41. Mohammad-Zadeh M, Mirnajafi-Zadeh J, Fathollahi Y, Javan M, Ghorbani P, Sadegh M, Noorbakhsh SM. Effect of low frequency stimulation of perforant path on kindling rate and synaptic transmission in the dentate gyrus during kindling acquisition in rats. Epilepsy Res. 2007 Jul; 75 (2-3):154-61. Epub 2007 Jun 18.

42. Hosseinmardi N, Mirnajafi-Zadeh J, Fathollahi Y, Shahabi P. The role of adenosine A1 and A2A receptors of entorhinal cortex on piriform cortex kindled seizures in rats. Pharmacol Res. 2007 Aug; 56 (2):110-7. Epub 2007 May 1.

43. Soleimannejad E, Naghdi N, Semnanian S, Fathollahi Y, Kazemnejad A. Antinociceptive effect of intra-hippocampal CA1 and dentate gyrus injection of MK801 and AP5 in the formalin test in adult male rats. Eur J Pharmacol. 2007 May 7; 562 (1-2):39-46. Epub 2006 Dec 1.

44. Rezvani ME, Mirnajafi-Zadeh J, Fathollahi Y, Palizvan MR. Changes in neuromodulatory effect of adenosine A1 receptors on piriform cortex field potentials in amygdala kindled rats. Eur J Pharmacol. 2007 Jun 22; 565 (1-3):60-7. Epub 2007 Feb 17.

45. Omrani A, Ghadami MR, Fathi N, Tahmasian M, Fathollahi Y, Touhidi A.Naloxone improves impairment of spatial performance induced by pentylenetetrazol kindling in rats. Neuroscience. 2007 Mar 30; 145 (3):824-31. Epub 2007 Feb 7.

46. Heidarianpour A, Sadeghian E, Mirnajafi-Zadeh J, Fathollahi Y, Mohammad-Zadeh M. Anticonvulsant effects of N6-cyclohexyladenosine microinjected into the CA1 region of the hippocampus on entorhinal cortex-kindled seizures in rats. Epileptic Disord. 2006 Dec; 8 (4):259-66.

47. Shahabi P, Mirnajafi-Zadeh J, Fathollahi Y, Hoseinmardi N, Rezvani ME, Eslami-far A. Amygdala adenosine A1 receptors have no anticonvulsant effect on piriform cortex-kindled seizures in rat. Can J Physiol Pharmacol. 2006 Aug-Sep; 84 (8-9):913-21.

48. Moradpour F, Naghdi N, Fathollahi Y. Anastrozole improved testosterone-induced impairment acquisition of spatial learning and memory in the hippocampal CA1 region in adult male rats. Behav Brain Res. 2006 Dec 15; 175 (2):223-32. Epub 2006 Oct 2.

49. Khorasani MZ, Hajizadeh S, Fathollahi Y, Semnanian S. Interaction of adenosine and naloxone on regional cerebral blood flow in morphine-dependent rats. Brain Res. 2006 Apr 21; 1084 (1):61-6. Epub 2006 Apr 13.

50. Hajizadeh S, Shiran K, Fathollahi Y. Responsiveness of vascular alpha1-adrenoceptors of diabetic rat knee joint to phenylephrine in acute inflammation. J Basic Clin Physiol Pharmacol. 2005; 16 (4):301-9.

51. Ardjmand A, Fathollahi Y, Sayyah M, Kamalinejad M, Omrani A. Eugenol depresses synaptic transmission but does not prevent the induction of long-term potentiation in the CA1 region of rat hippocampal slices. Phytomedicine. 2006 Feb; 13 (3):146-51. Epub 2005 Jun 27.

52. Soleimannejad E, Semnanian S, Fathollahi Y, Naghdi N. Microinjection of ritanserin into the dorsal hippocampal CA1 and dentate gyrus decrease nociceptive behavior in adult male rat. Behav Brain Res. 2006 Apr 3; 168 (2):221-5. Epub 2005 Dec 27.

53. Naghdi N, Rezaei M, Fathollahi Y. Microinjection of ritanserin into the CA1 region of hippocampus improves scopolamine-induced amnesia in adult male rats. Behav Brain Res. 2006 Apr 3; 168 (2):215-20. Epub 2005 Dec 20.

54. Zeraati M, Mirnajafi-Zadeh J, Fathollahi Y, Namvar S, Rezvani ME. Adenosine A1 and A2A receptors of hippocampal CA1 region have opposite effects on piriform cortex kindled seizures in rats. Seizure. 2006 Jan; 15 (1):41-8. Epub 2005 Dec 7.

55. Mohammad-Zadeh M, Amini A, Mirnajafi-Zadeh J, Fathollahi Y. The role of adenosine A (1) receptors in the interaction between amygdala and entorhinal cortex of kindled rats. Epilepsy Res. 2005 Jun; 65(1-2):1-9.

56. Chekin F, Bordbar M, Fathollahi Y, Alizadeh N. The interaction between ketamine and some crown ethers in common organic solvents studied by NMR: the effect of donating atoms and ligand structure. Spectrochim Acta A Mol Biomol Spectrosc. 2006 Feb; 63 (2):370-6. Epub 2005 Jun 22.

57. Palizvan MR, Fathollahi Y, Semnanian S. Epileptogenic insult causes a shift in the form of long-term potentiation expression. Neuroscience. 2005; 134 (2):415-23.

58. Ahmadi A, Shafiezadeh M, Fathollahi Y, Darvich MR, Mahmoudi A, Bahmani M, Rahmati B. Synthesis with improved yield and study on the analgesic effect of 2-hydroxyphencyclidine. Arzneimittelforschung. 2005; 55 (3):172-6.

59. Sarmadi A, Firoozabadi SM, Torkaman G, Fathollahi Y. Assessing information of soleous and gastrocnemius motor unit H-reflex response to paired stimulation. Electromyogr Clin Neurophysiol. 2004 Oct-Nov; 44 (7):401-8.

60. Rashidy-Pour A, Sadeghi H, Taherain AA, Vafaei AA, Fathollahi Y. The effects of acute restraint stress and dexamethasone on retrieval of long-term memory in rats: an interaction with opiate system. Behav Brain Res. 2004 Sep 23; 154 (1):193-8.

61. Omrani A, Fathollahi Y. Reversal of pentylenetetrazol-induced potentiation phenomenon by theta pulse stimulation in the CA1 region of rat hippocampal slices. Synapse. 2003 Nov; 50 (2):83-94.

62. Salmanzadeh F, Fathollahi Y, Semnanian S, Shafizadeh M. Long-term potentiation as an electrophysiological assay for morphine dependence and withdrawal in rats: an in vitro study. J Neurosci Methods. 2003 Apr 15; 124 (2):189-96.

63. Salmanzadeh F, Fathollahi Y, Semnanian S, Shafizadeh M. Dependence on morphine impairs the induction of long-term potentiation in the CA1 region of rat hippocampal slices. Brain Res. 2003 Mar 7; 965(1-2):108-13.

64. Salmanzadeh F, Fathollahi Y, Semnanian S, Shafizadeh M, Kazemnejad A. Dependence on morphine leads to a prominent sharing among the different mechanisms of long-term potentiation in the CA1 region of rat hippocampus. Brain Res. 2003 Feb 14; 963 (1-2):93-100.

65. Sarihi A, Fathollahi Y, Motamedi F, Naghdi N, Rashidy-Pour A. Effects of lidocaine reversible inactivation of the median raphe nucleus on long-term potentiation and recurrent inhibition in the dentate gyrus of rat hippocampus. Brain Res. 2003 Feb 7; 962 (1-2):159-68.

66. Omrani A, Fathollahi Y, Almasi M, Semnanian S, Mohammad S, Firoozabadi P. Contribution of ionotropic glutamate receptors and voltage-dependent calcium channels to the potentiation phenomenon induced by transient pentylenetetrazol in the CA1 region of rat hippocampal slices. Brain Res. 2003 Jan 3; 959 (1):173-81.

67. Rostampour M, Fathollahi Y, Semnanian S, Hajizadeh S, Mirnajafizadeh J, Shafizadeh M. Cysteamine pre-treatment reduces pentylenetetrazol-induced plasticity and epileptiform discharge in the CA1 region of rat hippocampal slices. Brain Res. 2002 Nov 15; 955 (1-2):98-103.

68. Mirnajafi-Zadeh J, Mortazavi M, Fathollahi Y, Alasvand Zarasvand M, Reza Palizvan M. Effect of transient hippocampal inhibition on amygdaloid kindled seizures and amygdaloid kindling rate. Brain Res. 2002 Nov 8; 954 (2):220-6.

69. Rostampour M, Fathollahi Y, Semnanian S, Hajizadeh S, Mirnajafizadeh J, Shafizadeh M. The ability of hippocampal CA1 area for induction of long-term potentiation is persistently reduced by prior treatment with cysteamine: an in vitro study. Neuropeptides. 2002 Aug; 36 (4):263-70.

70. Alasvand Zarasvand M, Mirnajafi-Zadeh J, Fathollahi Y, Palizvan MR. Anticonvulsant effect of bilateral injection of N6-cyclohexyladenosine into the CA1 region of the hippocampus in amygdala-kindled rats. Epilepsy Res. 2001 Nov; 47 (1-2):141-9.

71. Fathollahi Y, Salami M. The role of N-methyl-D-aspartate receptors in synaptic plasticity of rat visual cortex in vitro: effect of sensory experience. Neurosci Lett. 2001 Jun 29; 306 (3):149-52.

72. Palizvan MR, Fathollahi Y, Semnanian S, Hajezadeh S, Mirnajafizadh J. Differential effects of pentylenetetrazol-kindling on long-term potentiation of population excitatory postsynaptic potentials and population spikes in the CA1 region of rat hippocampus. Brain Res. 2001 Apr 13; 898 (1):82-90.

73. Khalili M, Semnanian S, Fathollahi Y. Caffeine increases paragigantocellularis neuronal firing rate and induces withdrawal signs in morphine-dependent rats. Eur J Pharmacol. 2001 Feb 2; 412 (3):239-45.

74. Salami M, Fathollahi Y, Semnanian S, Atapour N. Differential effect of dark rearing on long-term potentiation induced by layer IV and white matter stimulation in rat visual cortex. Neurosci Res. 2000 Dec; 38 (4):349-56.

75. Saiepour MH, Semnanian S, Fathollahi Y. Occurrence of morphine tolerance and dependence in the nucleus paragigantocellularis neurons. Eur J Pharmacol. 2001 Jan 5; 411 (1-2):85-92.

76. Salami M, Fathollahi Y. Do Ca2+ channels share NMDA receptors in plasticity of synaptic transmission in the rat visual cortex? Neuroreport. 2000 Nov 27; 11 (17):3887-91.

77. Zamani R, Semnanian S, Fathollahi Y, Hajizadeh S. Systemic naloxone enhances cerebral blood flow in anesthetized morphine-dependent rats. Eur J Pharmacol. 2000 Nov 24; 408 (3):299-304.

78. Omrani A, Fathollahi Y, Mohajerani HR, Semnanian S. Primed-burst potentiation occludes the potentiation phenomenon and enhances the epileptiform activity induced by transient pentylenetetrazol in the CA1 region of rat hippocampal slices. Brain Res. 2000 Sep 22; 877 (2):176-83.

79. Salami M, Fathollahi Y, Esteky H, Motamedi F, Atapour N. Effects of ketamine on synaptic transmission and long-term potentiation in layer II/III of rat visual cortex in vitro. Eur J Pharmacol. 2000 Mar 3; 390 (3):287-93.

80. Mirnajafi-Zadeh J, Fathollahi Y, Pourgholami MH. Intraperitoneal and intraamygdala N (6)-cyclohexyladenosine suppress hippocampal kindled seizures in rats. Brain Res. 2000 Mar 6; 858 (1):48-54.

81. Atapour N, Esteky H, Fathollahi Y, Mansouri FA. Primed-bursts induced long-term potentiation in rat visual cortex: effects of dark-rearing. Brain Res. 1999 Dec 18; 851 (1-2):148-53.

82. Salami M, Fathollahi Y, Motamedi F. Primed-burst potentiation in adult rat visual cortex in vitro. Brain Res Dev Brain Res. 1999 Dec 10; 118 (1-2):93-8.

83. Atapour N, Esteky H, Fathollahi Y. Visual deprivation increases capability of layer II/III for epileptiform activity in the rat visual cortical slices. Brain Res Dev Brain Res. 1999 Nov 18; 117 (2):153-7.

84. Zarrindast MR, Fazli-Tabai S, Semnanian S, Fathollahi Y. Influence of different adrenoceptor agonists and antagonists on physostigmine-induced yawning in rats. Pharmacol Biochem Behav. 1999 Jan; 62 (1):1-5.

85. Mansouri FA, Motamedi F, Fathollahi Y. Chronic in vivo morphine administration facilitates primed-bursts-induced long-term potentiation of Schaffer collateral-CA1 synapses in hippocampal slices in vitro. Brain Res. 1999 Jan 9; 815 (2):419-23.

86. Haghparast A, Semnanian S, Fathollahi Y. Morphine tolerance and dependence in the nucleus paragigantocellularis: single unit recording study in vivo. Brain Res. 1998 Dec 14; 814 (1-2):71-7.

87. Pourmotabbed A, Motamedi F, Fathollahi Y, Mansouri FA, Semnanian S. Involvement of NMDA receptors and voltage-dependent calcium channels on augmentation of long-term potentiation in hippocampal CA1 area of morphine dependent rats. Brain Res. 1998 Aug 31; 804 (1):125-34.

88. Mansouri FA, Motamedi F, Fathollahi Y, Atapour N, Semnanian S. Augmentation of LTP induced by primed-bursts tetanic stimulation in hippocampal CA1 area of morphine dependent rats. Brain Res. 1997 Sep 19; 769 (1):119-24.

89. Fathollahi Y, Motamedi F, Semnanian S, Zardoshti M. Examination of persistent effects of repeated administration of pentylenetetrazol on rat hippocampal CA1: evidence from in vitro study on hippocampal slices. Brain Res. 1997 May 30; 758 (1-2):92-8.

90. Fathollahi Y, Motamedi F, Semnanian S, Zardoshti M. Repeated administration of pentylenetetrazol alters susceptibility of rat hippocampus to primed-burst stimulation: evidence from in vitro study on CA1 of hippocampal slices. Brain Res. 1996 Oct 28; 738 (1):138-41.

Abstracts:

1- Fathollahi, Y., Motamedi, F., Semnanian, S., Eftekhar-Hosseini, A., Zardoshti, M., Altered synaptic transmission in hippocampus of PTZ-kindled rats: An in vitro study on CA1 of Hippocampal slices,The 12th Iranian congress of

Physiology and Pharmacology, Iran University of Medical Sciences, 6-9 Nov, 1995 Tehran, Iran.

2- Fathollahi, Y., Motamedi, F., Semnanian, S., Zardoshti, M.,Effect of pentylenetetrazole induced kindling on long-term potentiation in rat hippocampal slices, 4th IBRO World Congress of Neuroscinces, 9-14 July 1995, Kyoto, Japan.

3- Alizadeh-Mansouri, F., Fathollahi, Y., Motamedi, F., Facilitation of LTP induction in hippocampal CA1 area of morphine dependent rats, 1st Iranian congress of neuroscinces Shaheed Beheshti University of Medical sciences and health services, Nov. 27-29, 1996.

4- Atapour, N., Esteky, H., Motamedi, F., Fathollahi, Y., Semnanian, S., Field potential characterisices of mature and developing rat visual cortex,1st Iranian congress of neuroscinces Shaheed Beheshti University of Medical sciences and health services, Nov. 27-29 1996.

5- Atapour, N., Esteky, H., Motamedi, F., Fathollahi, Y., Alizadeh-Mansouri, F., Semnanian, S., Developmental changes in fields pontentials characteristices of rat visual cortex: an in vitro study,1st FAOPS Congress, IBRO Regional Congress, 20-23 October 1996, Pattaya, Thailand.

6- Alizadeh-Mansouri, F., Motamedi, F. Fathollahi, Y., Atapour, N. and Semnanian, S., Chronic morphine administration facilitates induction of LTP by primed-bursts tetanic stimulation in hippocampal CA1 Area of rat,1st FAONS congress, IBRO regional congress, 20-23 October 1996, Pattaya, Thailand.

8- Fathollahi, Y., Motamedi, F., Semnanian, S., Zardoshti, M., Altered synaptic transmission in hippocampal CA1 of Y-maze trained rat, The 13th Iranian Congress of physiology and pharmacology, Esfahan University, 24-28 August 1997, Esfahan ,Iran.

9- Motamedi, F., Alizadeh-Mansouri, F., Fathollahi, Y., Semnanian, S., Chronic morphine adminstration aguments induction of LTP by primed-bursts tetanic stimulation in hippocampal CA1 Area of rat, The 13th Iranian congress of physiology and pharmacology, Esfahan University, 24-28 August 1997, Esfahan ,Iran.

10- Atapour, N., Estaky, H., Fathollahi, Y., Motamedi, F., Effects of visual deprivation on field potential of developing visual cortex, The 13th Iranian congress of physiology and pharmacology, Esfahan University, 24-28 August 1997, Esfahan ,Iran.

11- Alizadeh-Mansouri, F., Motamedi, F., Fathollahi, Y., Chronic morphine adminstration inhibits the decay of LTP in hippocampal CA1 Area of rat, XXXIII International Congress of Physiological Sciences, June 30-July 5, 1997, St. Petersburg.

12- Pourmotabbed, A., Fathollahi, Y., Motamedi, F., Involvement of NMDA receptors and voltage-dependent calcium channels in augmentation of LTP in hippocampal CA1 area of morphine-dependent rats, Proceeding of the Australian Physiological and Pharmacological Society, 27 September-1 October 1998, Brisbane, Australia.

13- Atapour, N., Estaky, H., Fathollahi, Y., Effects of visual deprivation on primed-bursts induced LTP in rat visual cortex, Proceeding of the Australian Physiological and Pharmacological Society, 27 September-1 October 1998, Brisbane, Australia.

14- Salami, M., Fathollahi Y., Estaky, H., Motamedi, F., Atapour, N., Dark-rearing enhances LTP in rat visual cortex, Proceeding of the Australian Physiological and Pharmacological Society, 27 September-1 October 1998, Brisbane, Australia.

15- Mohajerani, H.R., Fathollahi, Y., Semnanian, S., Omrani, A., Examination of synaptic plasticity induced by tetanic stimulation in CA1 area of rat hippocampal slices that were susceptible to epileptiform activities, 14th

Iranian Congress of Physiology and Pharmacology, 16-20 May 1999, Tehran, Iran.

16- Salami, M., Fathollahi, Y., Esteky, H., Motamedi, F., Atapour, N., Effects of ketamine on syaptic plasticity in rat

visual cortical slices, 14th Iranian Congress of Physiology and Pharmacology, 16-20 May 1999, Tehran, Iran.

17- Kalantaripour, T.P., Atapour, N., Fathollahi, Y., Acute effects of dexamethason on the PTZ-kindling: role of

NMDA receptors, 14th Iranian Congress of Physiology and Pharmacology, 16-20 May 1999, Tehran, Iran.

18- Mirnajafi-Zadeh, J., Pourgholami, M.H., Fathollahi, Y., Amygdala kindling is facilitated in previously

hippocampal kindled rats, 14th Iranian Congress of Physiology and Pharmacology, 16-20 May 1999, Tehran, Iran.

19- Omrani, A., Fathollahi, Y., Assessment of long-lasting effects of transient PTZ application on neural activity of

CA1 area in rat hippocampal slices, 14th Iranian Congress of Physiology and Pharmacology, 16-20 May 1999,

Tehran, Iran.

20- Rahmati, B., Fathollahi, Y., Semnanian, S., Mahdavi, M.R., Shafiezadeh, M., The effect of ketamine on a form

of NMDA receptor mediated synaptic transmission in CA1 area of rat hippocampus in vitro, 14th Iranian Congress

of Physiology and Pharmacology, 16-20 May 1999, Tehran, Iran.

21- Atapour, N., Esteky, H., Fathollahi, Y., Effects of visual deprivation on the potetiation of epileptiform activity in

mature rat visual cortex, 14th Iranian Congress of Physiology and Pharmacology, 16-20 May 1999, Tehran, Iran.

22- Vossoughi, A., Behzadi, G., Fathollahi, Y., Khodashenas, M., Syaptic plasticity in molecular layer of

hippocampal dentate gyrus following two-way avoidance learning: ultra-structural analysis, 14th Iranian Congress

of Physiology and Pharmacology, 16-20 May 1999, Tehran, Iran.

23- Mortazavi, S.M., Mirnajafi-Zadeh, S.J., Fathollahi, Effect of lidocain injection into the CA1 region of dorsal

hippocampus in amygdaloid kindled rats, 14th Iranian Congress of Physiology and Pharmacology, 16-20 May 1999,

Tehran, Iran.

24- Rezvani, M.E., Rashidy-pour, A., Fathollahi, Y., Unilateral reversible inactivation of the nucleus tractus

solitarius and amygdala attenuate the effects of bombesin on memory storage, 14th Iranian Congress of Physiology

and Pharmacology, 16-20 May 1999, Tehran, Iran.

25- Saeipour, M.H., Semnanian, S., Fathollahi, Y., Effects of intranuclear administration on morphine on

spontaneous activity of the nucleus paragigantocellularis neurons: single unit recording study in vivo, 14th Iranian

Congress of Physiology and Pharmacology, 16-20 May 1999, Tehran, Iran.