

**Mohammad-Raza Zarrindast**

Date of Birth: May 2, 1937

**Address:**

Department of Pharmacology  
School of Medicine  
Tehran University of Medical Sciences  
Tehran, Iran  
Tel: (98-21) 611 2304  
E-Mail: [zarinmr@ams.ac.ir](mailto:zarinmr@ams.ac.ir)  
E-Mail: [zarinmr@tums.ac.ir](mailto:zarinmr@tums.ac.ir)

**University Education:** Pharm D, PhD

**Post Doctoral Studies:**

1974-1976, London Hospital Medical Colledge (London, UK)  
1957-1962, School of Pharmacy (Tehran University)

**Scholarship:**

1974-1976 British Council Post Doctoral Scholarship

**Professional and Teaching Experience:**

From 2011-Member of Cognitive Science Committee, High Education in Ministry of Sciences and Technologies

From 2009- Head of School of Advanced Medical Technologies

From 2004- Professor of Institute for Addiction Studies (Tehran University of Medical Sciences)

From 2004- Adjunct Professor of International Biophysics & Biochemistry

From 2000- Associate member of Academy of Medical Sciences

From 1999- Present Editor of Archives Iranian Medicine

1992-1994 Head of Department of Pharmacology, School of Medicine (Tehran Univ of Med Sci)

1985-Present Professor of Pharmacology (Department of Pharmacology, School of Medicine (Tehran Univ of Med Sci)

1984-90 Editor (Journal of School of Med, Tehran Univ of Med Sci)

1982-84 Head of Dept. Pharmacol (Department of Pharmacology, School of Medicine (Tehran Univ of Med Sci)

1974-85 Associate Professor, Dept Pharmacol (Tehran Univ Med Sci)

1965-69 Assistant Dept pharmacol (Tehran Univ Med Sci)

**Research field:** Neuropsychopharmacology (Addiction, Memory, Behavior)

**Publications: 329 papers in pubmed.**

1: Zarrindast MR, Navaeian M, Nasehi M.  
Influence of Three-day Morphine-treatment upon Impairment of Memory Consolidation Induced by Cannabinoid Infused into the Dorsal Hippocampus in Rats. *Neurosci Res.* 2010 Sep 30. [Epub ahead of print]  
PMID: 20888871 [PubMed - as supplied by publisher]

2: Ardjmand A, Rezayof A, Zarrindast MR.  
Involvement of central amygdala NMDA receptor mechanism in orphine state-dependent memory retrieval. *Neurosci Res.* 2010 Sep 25. [Epub ahead of print]  
PMID: 20875463 [PubMed - as supplied by publisher]

3: Motevasseli T, Rezayof A, Zarrindast MR, Nayer-Nouri T.  
Role of ventral hippocampal NMDA receptors in anxiolytic-like effect of morphine. *Physiol Behav.* 2010 Sep 24. [Epub ahead of print]  
PMID: 20869974 [PubMed - as supplied by publisher]

4: Moshfegh A, Piri M, Babaei P, Oryan S, Soltani B, Zarrindast MR.  
Involvement of dorsal hippocampal alpha-adrenergic receptors in the effect of WIN55,212-2 on memory retrieval in inhibitory avoidance task. *Neurosci Lett.* 2010 Aug 5. [Epub ahead of print]  
PMID: 20691753 [PubMed - as supplied by publisher]

5: Zarrindast MR, Mahboobi S, Sadat-Shirazi MS, Ahmadi S.  
Anxiolytic-like effect induced by the cannabinoid CB1 receptor agonist, arachydonilcyclopropylamide (ACPA), in the rat amygdala is mediated through the D1 and D2 dopaminergic systems. *J Psychopharmacol.* 2010 Aug 4. [Epub ahead of print]  
PMID: 20685770 [PubMed - as supplied by publisher]

6: Ahmadi S, Malekmohammadi N, Zarrindast MR.  
Repeated histamine pretreatment decreased amnesia induced by post-training administration of the drug in a step-down inhibitory avoidance test in mice. *Arch Iran Med.* 2010;13(3):209-16.  
PMID: 20433225 [PubMed - in process]

7: Roozafzoon R, Goodarzi A, Vousooghi N, Sedaghati M, Yaghmaei P, Zarrindast MR.  
Expression of NMDA receptor subunits in human peripheral blood lymphocytes in opioid addiction. *Eur J Pharmacol.* 2010 Apr 24. [Epub ahead of print]  
PMID: 20420822 [PubMed - as supplied by publisher]

- 8: Mahmoodi G, Ahmadi S, Pourmotabbed A, Oryan S, Zarrindast MR. Inhibitory avoidance memory deficit induced by scopolamine: Interaction of cholinergic and glutamatergic systems in the ventral tegmental area. *Neurobiol Learn Mem.* 2010 Apr 18. [Epub ahead of print]  
PMID: 20403448 [PubMed - as supplied by publisher]
- 9: Rassouli Y, Rezayof A, Zarrindast MR. Role of the central amygdala GABA-A receptors in morphine state-dependent memory. *Life Sci.* 2010 Jun 5;86(23-24):887-93. Epub 2010 Apr 18.  
PMID: 20403365 [PubMed - in process]
- 10: Zarrindast MR, Meshkani J, Rezayof A, Beigzadeh R, Rostami P. Nicotinic acetylcholine receptors of the dorsal hippocampus and the basolateral amygdala are involved in ethanol-induced conditioned place preference. *Neuroscience.* 2010 Jun 30;168(2):505-13. Epub 2010 Apr 8.  
PMID: 20381593 [PubMed - in process]
- 11: Zarrindast MR, Naghdi-Sedeh N, Nasehi M, Sahraei H, Bahrami F, Asadi F. The effects of dopaminergic drugs in the ventral hippocampus of rats in the nicotine-induced anxiogenic-like response. *Neurosci Lett.* 2010 May 21;475(3):156-60. Epub 2010 Apr 2.  
PMID: 20363294 [PubMed - in process]
- 12: Ataee R, Ajdary S, Zarrindast M, Rezayat M, Hayatbakhsh MR. Anti-mitogenic and apoptotic effects of 5-HT1B receptor antagonist on HT29 colorectal cancer cell line. *J Cancer Res Clin Oncol.* 2010 Mar 21. [Epub ahead of print]  
PMID: 20306273 [PubMed - as supplied by publisher]
- 13: Nasehi M, Piri M, Jamali-Raeufy N, Zarrindast MR. Influence of intracerebral administration of NO agents in dorsal hippocampus (CA1) on cannabinoid state-dependent memory in the step-down passive avoidance test. *Physiol Behav.* 2010 Jun 16;100(4):297-304. Epub 2010 Mar 19.  
PMID: 20227432 [PubMed - in process]
- 14: Farahmandfar M, Karimian SM, Naghdi N, Zarrindast MR, Kadivar M. Morphine-induced impairment of spatial memory acquisition reversed by morphine sensitization in rats. *Behav Brain Res.* 2010 Aug 25;211(2):156-63. Epub 2010 Mar 11.  
PMID: 20226816 [PubMed - in process]
- 15: Nasehi M, Piri M, Nouri M, Farzin D, Nayer-Nouri T, Zarrindast MR. Involvement of dopamine D1/D2 receptors on harmaline-induced amnesia in the step-down passive avoidance test. *Eur J Pharmacol.* 2010 May 25;634(1-3):77-83. Epub 2010 Feb 25.  
PMID: 20188725 [PubMed - in process]
- 16: Ataee R, Ajdary S, Rezayat M, Shokrgozar MA, Shahriari S, Zarrindast MR.

Study of 5HT3 and HT4 receptor expression in HT29 cell line and human colon adenocarcinoma tissues. Arch Iran Med. 2010;13(2):120-5.

PMID: 20187666 [PubMed - in process]

17: Sedaghati M, Vousooghi N, Goodarzi A, Yaghmaei P, Mokri A, Zarrindast MR.

Expression of NR3B but not NR2D subunit of NMDA receptor in human blood lymphocytes can serve as a suitable peripheral marker for opioid addiction studies. Eur J Pharmacol. 2010 May 10;633(1-3):50-4. Epub 2010 Feb 11.

PMID: 20153313 [PubMed - in process]

18: Zarrindast MR, Dorrani M, Lachinani R, Rezayof A.

Blockade of dorsal hippocampal dopamine receptors inhibits state-dependent learning induced by cannabinoid receptor agonist in mice. Neurosci Res. 2010 May;67(1):25-32. Epub 2010 Feb 6.

PMID: 20144666 [PubMed - in process]

19: Rezayof A, Zare-Chahoki A, Zarrindast MR, Rassouli Y.

Inhibition of dorsal hippocampal nitric oxide synthesis potentiates ethanol-induced state-dependent memory in mice. Behav Brain Res. 2010 Jun 19;209(2):189-95. Epub 2010 Jan 28.

PMID: 20109498 [PubMed - in process]

20: Zarrindast MR, Khodarahmi P, Rezayof A, Oryan S.

Withdrawal from repeated administration of morphine alters histamine-induced anxiogenic effects produced by intra-ventral hippocampal microinjection. J Psychopharmacol. 2010 Jun;24(6):881-9. Epub 2010 Jan 21.

PMID: 20093321 [PubMed - in process]

21: Azami NS, Piri M, Oryan S, Jahanshahi M, Babapour V, Zarrindast MR.

Involvement of dorsal hippocampal alpha-adrenergic receptors in the effect of scopolamine on memory retrieval in inhibitory avoidance task. Neurobiol Learn Mem. 2010 May;93(4):455-62. Epub 2010 Jan 11.

PMID: 20064624 [PubMed - in process]

22: Rezayof A, Shirazi-Zand Z, Zarrindast MR, Nayer-Nouri T.

Nicotine improves ethanol-induced memory impairment: the role of dorsal hippocampal NMDA receptors. Life Sci. 2010 Feb 13;86(7-8):260-6. Epub 2009 Dec 24.

PMID: 20035769 [PubMed - indexed for MEDLINE]

23: Ataee R, Ajdary S, Zarrindast M, Rezayat M, Shokrgozar MA, Ataee A.

Y25130 hydrochloride, a selective 5HT3 receptor antagonist has potent antimitogenic and apoptotic effect on HT29 colorectal cancer cell line. Eur J Cancer Prev. 2010 Mar;19(2):138-43.

PMID: 20010428 [PubMed - indexed for MEDLINE]

24: Hashemi M, Karami M, Zarrindast MR, Sahebgharani M.

Role of nitric oxide in the rat hippocampal CA1 in morphine antinociception. Brain Res. 2010 Feb 8;1313:79-88. Epub 2009 Nov 18.

PMID: 19931515 [PubMed - indexed for MEDLINE]

25: Rezvanfard M, Zarrindast MR, Bina P.

Role of ventral hippocampal GABA(A) and NMDA receptors in the anxiolytic effect of carbamazepine in rats using the elevated plus maze test. *Pharmacology*. 2009;84(6):356-66. Epub 2009 Nov 11. PMID: 19907194 [PubMed - indexed for MEDLINE]

26: Zarrindast MR, Nasehi M, Piri M, Bina P. Anxiety-like behavior induced by histaminergic agents can be prevented by cannabinoidergic WIN55,212-2 injected into the dorsal hippocampus in mice. *Pharmacol Biochem Behav*. 2010 Jan;94(3):387-96. Epub 2009 Oct 1. PMID: 19800360 [PubMed - indexed for MEDLINE]

27: Houghoghi V, Rezayof A, Zyaian S, Zarrindast MR. Intradorsal hippocampal microinjection of lithium reverses morphine-induced impairment of memory in mice: interactions with dopamine receptor mechanism(s). *Behav Pharmacol*. 2009 Sep 18. [Epub ahead of print] PMID: 19770639 [PubMed - as supplied by publisher]

28: Rezayof A, Hosseini SS, Zarrindast MR. Effects of morphine on rat behaviour in the elevated plus maze: the role of central amygdala dopamine receptors. *Behav Brain Res*. 2009 Sep 14;202(2):171-8. Epub 2009 Apr 1. PMID: 19463698 [PubMed - indexed for MEDLINE]

29: Nasehi M, Sahebgharani M, Haeri-Rohani A, Zarrindast MR. Effects of cannabinoids infused into the dorsal hippocampus upon memory formation in 3-days apomorphine-treated rats. *Neurobiol Learn Mem*. 2009 Oct;92(3):391-9. Epub 2009 May 18. PMID: 19450698 [PubMed - indexed for MEDLINE]

30: Goodarzi A, Vousooghi N, Sedaghati M, Mokri A, Zarrindast MR. Dopamine receptors in human peripheral blood lymphocytes: changes in mRNA expression in opioid addiction. *Eur J Pharmacol*. 2009 Aug 1;615(1-3):218-22. Epub 2009 May 13. PMID: 19445922 [PubMed - indexed for MEDLINE]

31: Vousooghi N, Goodarzi A, Roushanzamir F, Sedaghati T, Zarrindast MR, Noori-Dalooi MR. Expression of mu opioid receptor splice variants mRNA in human blood lymphocytes: a peripheral marker for opioid addiction studies. *Int Immunopharmacol*. 2009 Jul;9(7-8):1016-20. Epub 2009 Mar 9. PMID: 19272466 [PubMed - indexed for MEDLINE]

32: Rezayof A, Khajehpour L, Zarrindast MR. The amygdala modulates morphine-induced state-dependent memory retrieval via muscarinic acetylcholine receptors. *Neuroscience*. 2009 May 5;160(2):255-63. Epub 2009 Mar 9. PMID: 19272427 [PubMed - indexed for MEDLINE]

33: Rezayat M, Niasari H, Ahmadi S, Parsaei L, Zarrindast M. N-methyl-D-aspartate receptors are involved in lithium-induced state-dependent learning in mice. *J Psychopharmacol*. 2010 Jun;24(6):915-21. Epub 2009 Jan 22. PMID: 19164491 [PubMed - in process]

34: Ghorbanalizadeh-Khalifeh-Mahaleh B, Taheri S, Sahebgharani M, Rezayof A, Haeri-Rohani A, Zarrindast MR.

Intra-dorsal hippocampal microinjections of lithium and scopolamine induce a cross state-dependent learning in mice. Arch Iran Med. 2008 Nov;11(6):629-38.

PMID: 18976034 [PubMed - indexed for MEDLINE]

35: Zarrindast MR, Solati J, Oryan S, Parivar K. Effect of intra-amygdala injection of nicotine and GABA receptor agents on anxiety-like behaviour in rats. Pharmacology. 2008;82(4):276-84. Epub 2008 Oct 10.

PMID: 18849647 [PubMed - indexed for MEDLINE]

36: Zarrindast MR, Sarahroodi S, Arzi A, Khodayar MJ, Taheri-Shalmani S, Rezayof A. Cannabinoid CB1 receptors of the rat central amygdala mediate anxiety-like behavior: interaction with the opioid system. Behav Pharmacol. 2008 Oct;19(7):716-23.

PMID: 18797248 [PubMed - indexed for MEDLINE]

37: Sahraei H, Etemadi L, Rostami P, Pourmotabbed A, Zarrindast MR, Shams J, Ghoshooni H, Noroozadeh A, Esfandiari B, Salimi SH. GABAB receptors within the ventral tegmental area are involved in the expression and acquisition of morphine-induced place preference in morphine-sensitized rats. Pharmacol Biochem Behav. 2009 Jan;91(3):409-16. Epub 2008 Aug 23.

PMID: 18789350 [PubMed - indexed for MEDLINE]

38: Rezayof A, Sharifi K, Zarrindast MR, Rassouli Y. Modulation of ethanol state-dependent learning by dorsal hippocampal NMDA receptors in mice. Alcohol. 2008 Dec;42(8):667-74. Epub 2008 Sep 6.

PMID: 18774674 [PubMed - indexed for MEDLINE]

39: Sepehrizadeh Z, Bahrololoumi Shapourabadi M, Ahmadi S, Hashemi Bozchlou S, Zarrindast MR, Sahebgharani M. Decreased AMPA GluR2, but not GluR3, mRNA expression in rat amygdala and dorsal hippocampus following morphine-induced behavioural sensitization. Clin Exp Pharmacol Physiol. 2008 Nov;35(11):1321-30. Epub 2008 Jul 29.

PMID: 18671727 [PubMed - indexed for MEDLINE]

40: Zarrindast M, Madadi F, Ahmadi S. Repeated administrations of dopamine receptor agents affect lithium-induced state-dependent learning in mice. J Psychopharmacol. 2009 Aug;23(6):645-51. Epub 2008 Jul 17.

PMID: 18635706 [PubMed - indexed for MEDLINE]

41: Zarrindast MR, Misaghi S, Ahmadi S. The dopaminergic system plays a role in the effect of lithium on inhibitory avoidance memory in mice. Eur J Pharmacol. 2008 Aug 20;590(1-3):198-203. Epub 2008 Jun 7.

PMID: 18606403 [PubMed - indexed for MEDLINE]

42: Darbandi N, Rezayof A, Zarrindast MR. Modulation of morphine state-dependent learning by muscarinic cholinergic receptors of the ventral tegmental area. Physiol Behav. 2008 Jul 5;94(4):604-10. Epub 2008 Apr 8.

PMID: 18479719 [PubMed - indexed for MEDLINE]

- 43: Hajizadeh Moghaddam A, Roohbakhsh A, Rostami P, Heidary-Davishani A, Zarrindast MR.  
GABA and histamine interaction in the basolateral amygdala of rats in the plus-maze test of anxiety-like behaviors. *Pharmacology*. 2008;82(1):59-66. Epub 2008 May 10.  
PMID: 18477857 [PubMed - indexed for MEDLINE]
- 44: Zarrindast MR, Babapoor-Farrokhran S, Babapoor-Farrokhran S, Rezayof A.  
Involvement of opioidergic system of the ventral hippocampus, the nucleus accumbens or the central amygdala in anxiety-related behavior. *Life Sci*. 2008 Jun 6;82(23-24):1175-81. Epub 2008 Apr 6.  
PMID: 18456284 [PubMed - indexed for MEDLINE]
- 45: Rezayof A, Darbandi N, Zarrindast MR.  
Nicotinic acetylcholine receptors of the ventral tegmental area are involved in mediating morphine-state-dependent learning. *Neurobiol Learn Mem*. 2008 Jul;90(1):255-60. Epub 2008 Apr 28.  
PMID: 18440834 [PubMed - indexed for MEDLINE]
- 46: Fazli-Tabaei S, Maghsoudi A, Bazaz N, Modirzadeh A, Zarrindast MR.  
Effect of dextromethorphan on antinociception and tolerance induced by swim-stress in the formalin test. *Arch Iran Med*. 2008 May;11(3):286-92.  
PMID: 18426320 [PubMed - indexed for MEDLINE]
- 47: Sepehrizadeh Z, Sahebgharani M, Ahmadi S, Shapourabadi MB, Bozchlou SH, Zarrindast MR.  
Morphine-induced behavioral sensitization increased the mRNA expression of NMDA receptor subunits in the rat amygdala. *Pharmacology*. 2008;81(4):333-43. Epub 2008 Apr 3.  
PMID: 18391508 [PubMed - indexed for MEDLINE]
- 48: Jafari MR, Ghiasvand F, Golmohammadi S, Zarrindast MR, Djahanguiri B.  
Influence of central nicotinic receptors on arachidonylcyclopropylamide (ACPA)-induced antinociception in mice. *Int J Neurosci*. 2008 Apr;118(4):531-43.  
PMID: 18322861 [PubMed - indexed for MEDLINE]
- 49: Khalilzadeh O, Anvari M, Khalilzadeh A, Sahebgharani M, Zarrindast MR.  
Involvement of amlodipine, diazoxide, and glibenclamide in development of morphine tolerance in mice. *Int J Neurosci*. 2008 Apr;118(4):503-18.  
PMID: 18322859 [PubMed - indexed for MEDLINE]
- 50: Khajehpour L, Rezayof A, Zarrindast MR.  
Involvement of dorsal hippocampal nicotinic receptors in the effect of morphine on memory retrieval in passive avoidance task. *Eur J Pharmacol*. 2008 Apr 28;584(2-3):343-51. Epub 2008 Feb 19.  
PMID: 18316071 [PubMed - indexed for MEDLINE]
- 51: Fazli-Tabaeia S, Bazaz N, Modirzadeh A, Bazaz A, Maghsoudi A, Zarrindast MR.  
Effect of lithium on swim stress-induced antinociception in naive mice and mice with subchronic administration of morphine or swim stress in formalin test. *Arch Iran Med*. 2008 Mar;11(2):166-72.

PMID: 18298294 [PubMed - indexed for MEDLINE]

52: Zarrindast MR, Valizadegan F, Rostami P, Rezayof A. Histaminergic system of the lateral septum in the modulation of anxiety-like behaviour in rats. *Eur J Pharmacol.* 2008 Mar 31;583(1):108-14. Epub 2008 Jan 26.

PMID: 18275952 [PubMed - indexed for MEDLINE]

53: Zarrindast MR, Lahmi A, Ahamadi S. Possible involvement of mu-opioid receptors in effect of lithium on inhibitory avoidance response in mice. *J Psychopharmacol.* 2008 Nov;22(8):865-71. Epub 2008 Jan 21.

PMID: 18208927 [PubMed - indexed for MEDLINE]

54: Karami M, Zarrindast MR. Morphine sex-dependently induced place conditioning in adult Wistar rats. *Eur J Pharmacol.* 2008 Mar 17;582(1-3):78-87. Epub 2007 Dec 23.

PMID: 18191832 [PubMed - indexed for MEDLINE]

55: Zarrindast MR, Hoghooghi V, Rezayof A. Inhibition of morphine-induced amnesia in morphine-sensitized mice: involvement of dorsal hippocampal GABAergic receptors. *Neuropharmacology.* 2008 Mar;54(3):569-76. Epub 2007 Nov 17.

PMID: 18086480 [PubMed - indexed for MEDLINE]

56: Rezayof A, Alijanpour S, Zarrindast MR, Rassouli Y. Ethanol state-dependent memory: involvement of dorsal hippocampal muscarinic and nicotinic receptors. *Neurobiol Learn Mem.* 2008 May;89(4):441-7. Epub 2007 Dec 11.

PMID: 18065245 [PubMed - indexed for MEDLINE]

57: Zarrindast MR, Parsaei L, Ahmadi S. Repeated administration of histamine improves memory retrieval of inhibitory avoidance by lithium in mice. *Pharmacology.* 2008;81(2):187-94. Epub 2007 Nov 28.

PMID: 18043010 [PubMed - indexed for MEDLINE]

58: Jafari MR, Golmohammadi S, Ghiasvand F, Zarrindast MR, Djahanguiri B. Influence of nicotinic receptor modulators on CB2 cannabinoid receptor agonist (JWH133)-induced antinociception in mice. *Behav Pharmacol.* 2007 Nov;18(7):691-7.

PMID: 17912054 [PubMed - indexed for MEDLINE]

59: Ahmadi S, Zarrindast MR, Nouri M, Haeri-Rohani A, Rezayof A. N-Methyl-D-aspartate receptors in the ventral tegmental area are involved in retrieval of inhibitory avoidance memory by nicotine. *Neurobiol Learn Mem.* 2007 Oct;88(3):352-8. Epub 2007 Aug 17.

PMID: 17707662 [PubMed - indexed for MEDLINE]

60: Zarrindast MR, Sattari-Naeini M, Khalilzadeh A. Involvement of glucose and ATP-sensitive potassium (K<sup>+</sup>) channels on morphine-induced conditioned place preference. *Eur J Pharmacol.* 2007 Nov 14;573(1-3):133-8. Epub 2007 Jul 4.

PMID: 17655841 [PubMed - indexed for MEDLINE]

61: Zarrindast MR, Nouri M, Ahmadi S.



Cannabinoid CB1 receptors of the dorsal hippocampus are important for induction of conditioned place preference (CPP) but do not change morphine CPP. *Brain Res.* 2007 Aug 13;1163:130-7. Epub 2007 Jun 16.

PMID: 17631872 [PubMed - indexed for MEDLINE]

62: Ahmadi S, Zarrindast MR, Haeri-Rohani A, Rezayof A, Nouri M. Nicotine improves morphine-induced impairment of memory: possible involvement of N-methyl-D-aspartate receptors in the nucleus accumbens. *Dev Neurobiol.* 2007 Jul;67(8):1118-27.

PMID: 17565710 [PubMed - indexed for MEDLINE]

63: Zarrindast MR, Heidari-Darvishani A, Rezayof A, Fathi-Azarbaijani F, Jafari-Sabet M, Hajizadeh-Moghaddam A. Morphine-induced sensitization in mice: changes in locomotor activity by prior scheduled exposure to GABAA receptor agents. *Behav Pharmacol.* 2007 Jul;18(4):303-10.

PMID: 17551323 [PubMed - indexed for MEDLINE]

64: Zarrindast MR, Shendy MM, Ahmadi S. Nitric oxide modulates state dependency induced by lithium in an inhibitory avoidance task in mice. *Behav Pharmacol.* 2007 Jul;18(4):289-95.

PMID: 17551321 [PubMed - indexed for MEDLINE]

65: Zarrindast MR, Lashgari R, Rezayof A, Motamedi F, Nazari-Serenjeh F. NMDA receptors of dorsal hippocampus are involved in the acquisition, but not in the expression of morphine-induced place preference. *Eur J Pharmacol.* 2007 Jul 30;568(1-3):192-8. Epub 2007 Apr 22.

PMID: 17509561 [PubMed - indexed for MEDLINE]

66: Zarrindast MR, Ebrahimi-Ghiri M, Rostami P, Rezayof A. Repeated pre-exposure to morphine into the ventral pallidum enhances morphine-induced place preference: Involvement of dopaminergic and opioidergic mechanisms. *Behav Brain Res.* 2007 Mar 19; [Epub ahead of print]

PMID: 17451818 [PubMed - as supplied by publisher]

67: Zarrindast MR, Asgari-Afshar A, Sahebgharani M. Morphine-induced antinociception in the formalin test: sensitization and interactions with D1 and D2 dopamine receptors and nitric oxide agents. *Behav Pharmacol.* 2007 May;18(3):177-184.

PMID: 17426481 [PubMed - as supplied by publisher]

68: Sharifzadeh M, Zamanian AR, Gholizadeh S, Tabrizian K, Etminani M, Khalaj S, Zarrindast MR, Roghani A. Post-training intrahippocampal infusion of nicotine-bucladesine combination causes a synergistic enhancement effect on spatial memory retention in rats. *Eur J Pharmacol.* 2007 May 21;562(3):212-20. Epub 2007 Feb 8. PMID: 17379207 [PubMed - in process]

69: Rezayof A, Nazari-Serenjeh F, Zarrindast MR, Sepeshri H, Delphi L.

Morphine-induced place preference: involvement of cholinergic receptors of the ventral tegmental area.

*Eur J Pharmacol.* 2007 May 7;562(1-2):92-102. Epub 2007 Feb 8.

PMID: 17336285 [PubMed - in process]

70: Ostadali MR, Ahangari G, Eslami MB, Razavi A, Zarrindast MR, Ahmadkhaniha HR, Boulhari J.  
The Detection of Dopamine Gene Receptors (DRD1-DRD5) Expression on Human Peripheral Blood Lymphocytes by Real Time PCR.  
Iran J Allergy Asthma Immunol. 2004 Dec;3(4):169-74.  
PMID: 17301410 [PubMed - in process]

71: Sahraei H, Aliabadi AA, Zarrindast MR, Ghoshooni H, Nasiri A, Barzegari-Sorkheh AA, Yari M, Zardooz H, Hossein-Mardi L, Faraji N, Shams J. Ascorbic acid antagonizes nicotine-induced place preference and behavioral sensitization in mice.  
Eur J Pharmacol. 2007 Mar 29;560(1):42-8. Epub 2007 Jan 19.  
PMID: 17292882 [PubMed - in process]

72: Roohbakhsh A, Moghaddam AH, Massoudi R, Zarrindast MR.  
Role of dorsal hippocampal cannabinoid receptors and nitric oxide in anxiety like behaviours in rats using the elevated plus-maze test.  
Clin Exp Pharmacol Physiol. 2007 Mar;34(3):223-9.  
PMID: 17250643 [PubMed - indexed for MEDLINE]

73: Malekmohamadi N, Heidari P, Sahebgharani M, Zarrindast MR.  
Effects of clozapine and sulpiride on morphine state-dependent memory in the step-down passive avoidance test. Pharmacology. 2007;79(3):149-53. Epub 2006 Dec 21.  
PMID: 17191034 [PubMed - in process]

74: Rezayof A, Golhasani-Keshtan F, Haeri-Rohani A, Zarrindast MR.  
Morphine-induced place preference: involvement of the central amygdala NMDA receptors. Brain Res. 2007 Feb 16;1133(1):34-41. Epub 2006 Dec 20.  
PMID: 17184750 [PubMed - indexed for MEDLINE]

75: Sharifzadeh M, Haghighat A, Tahsili-Fahadan P, Khalaj S, Zarrindast MR, Zamanian AR.  
Intra-hippocampal inhibition of protein kinase AII attenuates morphine-induced conditioned place preference.  
Pharmacol Biochem Behav. 2006 Dec;85(4):705-12. Epub 2006 Dec 15.  
PMID: 17174386 [PubMed - indexed for MEDLINE]

76: Sahraei H, Zarei F, Eidi A, Oryan S, Shams J, Khosbaten A, Zarrindast MR. The role of nitric oxide within the nucleus accumbens on the acquisition and expression of morphine-induced place preference in morphine sensitized rats. Eur J Pharmacol. 2007 Feb 5;556(1-3):99-106. Epub 2006 Oct 27.  
PMID: 17137574 [PubMed - indexed for MEDLINE]

77: Zarrindast MR, Torabi M, Rostami P, Fazli-Tabaei S.  
The effects of histaminergic agents in the dorsal hippocampus of rats in the elevated plus-maze test of anxiety.  
Pharmacol Biochem Behav. 2006 Nov;85(3):500-6. Epub 2006 Nov 15.  
PMID: 17109942 [PubMed - indexed for MEDLINE]

78: Heidari P, Sahebgharani M, Riazi G, Zarrindast MR.  
Influence of morphine and dopamine receptor sensitization on locomotor activity in mice. Pharmacology. 2006;78(4):185-92. Epub 2006 Oct 23.

PMID: 17063042 [PubMed - indexed for MEDLINE]

79: Zarrindast MR, Mohajeri S.  
Influence of ATP-dependent K<sup>+</sup> channels on nicotine-induced inhibition of withdrawal in morphine-dependent mice.  
Eur J Pharmacol. 2006 Dec 15;552(1-3):90-8. Epub 2006 Sep 16.  
PMID: 17049514 [PubMed - indexed for MEDLINE]

80: Rezayof A, Motevasseli T, Rassouli Y, Zarrindast MR.  
Dorsal hippocampal dopamine receptors are involved in mediating ethanol state-dependent memory. Life Sci. 2007 Jan 2;80(4):285-92.  
Epub 2006 Sep 23.  
PMID: 17046026 [PubMed - indexed for MEDLINE]

81: Zarrindast MR, Ebrahimi M, Khalilzadeh A.  
Influence of ATP-sensitive potassium channels on lithium state-dependent memory of passive avoidance in mice.  
Eur J Pharmacol. 2006 Nov 21;550(1-3):107-11. Epub 2006 Sep 7.  
PMID: 17022967 [PubMed - indexed for MEDLINE]

82: Sahraei H, Barzegari AA, Shams J, Zarrindast MR, Haeri-Rohani A, Ghoshooni H, Sepehri H, Salimi SH.  
Theophylline inhibits tolerance and sensitization induced by morphine: a conditioned place preference paradigm study in female mice.  
Behav Pharmacol. 2006 Nov;17(7):621-8.  
PMID: 17021395 [PubMed - indexed for MEDLINE]

83: Zarrindast MR.  
Neurotransmitters and cognition.  
EXS. 2006;98:5-39. Review. No abstract available.  
PMID: 17019881 [PubMed - indexed for MEDLINE]

84: Zarrindast MR, Askari E, Khalilzadeh A, Nouraei N.  
Morphine state-dependent learning sensitization and interaction with nitric oxide. Pharmacology. 2006;78(2):66-71. Epub 2006 Aug 4.  
PMID: 16946625 [PubMed - indexed for MEDLINE]

85: Fazli-Tabaei S, Yahyavi SH, Nouri M, Zartab H, Javid G, Loghavi S, Zarrindast MR.  
Dopamine receptor mechanism(s) and antinociception and tolerance induced by swim stress in formalin test.  
Behav Pharmacol. 2006 Jun;17(4):341-7.  
PMID: 16914952 [PubMed - indexed for MEDLINE]

86: Zarrindast MR, Nouraei N, Khalilzadeh A, Askari E.  
Influence of acute and sub-chronic nicotine pretreatment on morphine state-dependent learning. Behav Brain Res. 2006 Oct 16;173(2):268-73. Epub 2006 Aug 8.  
PMID: 16893575 [PubMed - indexed for MEDLINE]

87: Sahebgharani M, Hossein-Abad AA, Zarrindast MR.  
On the mechanism of carbamazepine-induced antinociception in the formalin test. Int J Neurosci. 2006 Sep;116(9):1097-113.  
PMID: 16861171 [PubMed - indexed for MEDLINE]

88: Zarrindast MR, Ghadimi M, Ramezani-Tehrani B, Sahebgharani M.

Effect of GABA receptor agonists or antagonists on morphine-induced Straub tail in mice. *Int J Neurosci*. 2006 Aug;116(8):963-73.  
PMID: 16861161 [PubMed - indexed for MEDLINE]

89: Zarrindast MR, Moghimi M, Rostami P, Rezayof A.  
Histaminergic receptors of medial septum and conditioned place preference: D1 dopamine receptor mechanism.  
*Brain Res*. 2006 Sep 13;1109(1):108-16. Epub 2006 Jul 10.  
PMID: 16828718 [PubMed - indexed for MEDLINE]

90: Zarrindast MR, Jafari-Sabet M, Rezayat M, Djahanguiri B, Rezayof A. Involvement of NMDA receptors in morphine state-dependent learning in mice. *Int J Neurosci*. 2006 Jun;116(6):731-43.  
PMID: 16753898 [PubMed - indexed for MEDLINE]

91: Zarrindast MR, Bananej M, Khalilzadeh A, Fazli-Tabaei S, Haeri-Rohani A, Rezayof A.  
Influence of intracerebroventricular administration of dopaminergic drugs on morphine state-dependent memory in the step-down passive avoidance test.  
*Neurobiol Learn Mem*. 2006 Nov;86(3):286-92. Epub 2006 May 24.  
PMID: 16723261 [PubMed - indexed for MEDLINE]

92: Jafari MR, Zarrindast MR, Djahanguiri B.  
Influence of cholinergic system modulators on morphine state-dependent memory of passive avoidance in mice.  
*Physiol Behav*. 2006 Jun 15;88(1-2):146-51. Epub 2006 May 4.  
PMID: 16678225 [PubMed - indexed for MEDLINE]

93: Zarrindast MR, Khalilzadeh A, Malekmohammadi N, Fazli-Tabaei S.  
Influence of morphine- or apomorphine-induced sensitization on histamine state-dependent learning in the step-down passive avoidance test. *Behav Brain Res*. 2006 Jul 15;171(1):50-5. Epub 2006 May 4.  
PMID: 16677725 [PubMed - indexed for MEDLINE]

94: Rezayof A, Amini R, Rassouli Y, Zarrindast MR.  
Influence of nitric oxide on morphine-induced amnesia and interactions with dopaminergic receptor agents.  
*Physiol Behav*. 2006 Jun 15;88(1-2):124-31. Epub 2006 Apr 21.  
PMID: 16631214 [PubMed - indexed for MEDLINE]

95: Rezayof A, Razavi S, Haeri-Rohani A, Rassouli Y, Zarrindast MR.  
GABA(A) receptors of hippocampal CA1 regions are involved in the acquisition and expression of morphine-induced place preference. *Eur Neuropsychopharmacol*. 2007 Jan;17(1):24-31. Epub 2006 Mar 6.  
PMID: 16624534 [PubMed - indexed for MEDLINE]

96: Rostami P, Hajizadeh-Moghaddam A, Zarrindast MR.  
The effects of histaminergic agents in the ventral hippocampus of rats in the plus-maze test of anxiety-like behaviours.  
*Physiol Behav*. 2006 May 30;87(5):891-6. Epub 2006 Mar 6.  
PMID: 16600315 [PubMed - indexed for MEDLINE]

97: Zarrindast MR, Kangarlu-Haghighi K, Khalilzadeh A, Fazli-Tabaei S.

Influence of intracerebroventricular administration of cannabinergic drugs on morphine state-dependent memory in the step-down passive avoidance test. *Behav Pharmacol.* 2006 May;17(3):231-7. PMID: 16572001 [PubMed - indexed for MEDLINE]

98: Zarrindast MR, Azami BN, Rostami P, Rezayof A. Repeated administration of dopaminergic agents in the nucleus accumbens and morphine-induced place preference. *Behav Brain Res.* 2006 May 15;169(2):248-55. Epub 2006 Feb 10. PMID: 16472879 [PubMed - indexed for MEDLINE]

99: Zarrindast MR, Fazli-Tabaei S, Ahmadi S, Yahyavi SH. Effect of lithium on morphine state-dependent memory of passive avoidance in mice. *Physiol Behav.* 2006 Feb 28;87(2):409-15. Epub 2005 Dec 20. PMID: 16364379 [PubMed - indexed for MEDLINE]

100: Zarrindast MR, Noorbakhshnia M, Motamedi F, Haeri-Rohani A, Rezayof A. Effect of the GABAergic system on memory formation and state-dependent learning induced by morphine in rats. *Pharmacology.* 2006;76(2):93-100. Epub 2005 Nov 24. PMID: 16319519 [PubMed - indexed for MEDLINE]

101: Zarrindast MR, Moghadam AH, Rostami P, Roohbakhsh A. The effects of histaminergic agents in the central amygdala of rats in the elevated plus-maze test of anxiety. *Behav Pharmacol.* 2005 Dec;16(8):643-9. PMID: 16286816 [PubMed - indexed for MEDLINE]

102: Fazli-Tabaei S, Yahyavi SH, Alagheband P, Samie HR, Safari S, Rastegar F, Zarrindast MR. Cross-tolerance between antinociception induced by swim-stress and morphine in formalin test. *Behav Pharmacol.* 2005 Dec;16(8):613-9. PMID: 16286812 [PubMed - indexed for MEDLINE]

103: Zarrindast MR, Massoudi R, Sepehri H, Rezayof A. Involvement of GABA(B) receptors of the dorsal hippocampus on the acquisition and expression of morphine-induced place preference in rats. *Physiol Behav.* 2006 Jan 30;87(1):31-8. Epub 2005 Nov 7. PMID: 16274709 [PubMed - indexed for MEDLINE]

104: Zarrindast MR, Rostami P, Zarei M, Roohbakhsh A. Intracerebroventricular effects of histaminergic agents on morphine-induced anxiolysis in the elevated plus-maze in rats. *Basic Clin Pharmacol Toxicol.* 2005 Nov;97(5):276-81. PMID: 16236138 [PubMed - indexed for MEDLINE]

105: Khalilzadeh A, Tayebi Meybodi K, Vakili Zarch A, Zarrindast MR, Djahanguiri B. Discrepancy between effects of milligram and nanogram doses of a COX-2 inhibitor (celecoxib) on morphine state-dependent memory of passive avoidance in mice. *Brain Res Bull.* 2005 Nov 30;67(6):443-7. Epub 2005 Sep 8. PMID: 16216692 [PubMed - indexed for MEDLINE]

106: Rezayof A, Zatali H, Haeri-Rohani A, Zarrindast MR. Dorsal hippocampal muscarinic and nicotinic receptors are involved in mediating morphine reward. *Behav Brain Res.* 2006 Jan 30;166(2):281-90. Epub 2005 Sep 26. PMID: 16191443 [PubMed - indexed for MEDLINE]

- 107: Dizgah IM, Karimian SM, Zarrindast MR, Sohanaki H. Attenuation of morphine withdrawal signs by a D1 receptor agonist in the locus coeruleus of rats. *Neuroreport*. 2005 Oct 17;16(15):1683-6. PMID: 16189477 [PubMed - indexed for MEDLINE]
- 108: Khodayar MJ, Shafaghi B, Naderi N, Zarrindast MR. Antinociceptive effect of spinally administered cannabinergic and 2-adrenoceptor drugs on the formalin test in rat: possible interactions. *J Psychopharmacol*. 2006 Jan;20(1):67-74. Epub 2005 Sep 20. PMID: 16174681 [PubMed - indexed for MEDLINE]
- 109: Zarrindast MR, Farahmandfar M, Rostami P, Rezayof A. The influence of central administration of dopaminergic and cholinergic agents on morphine-induced amnesia in morphine-sensitized mice. *J Psychopharmacol*. 2006 Jan;20(1):59-66. Epub 2005 Sep 20. PMID: 16174677 [PubMed - indexed for MEDLINE]
- 110: Khalilzadeh A, Zarrindast MR, Djahanguiri B. Effects of intracerebroventricular administration of ultra low doses of histaminergic drugs on morphine state-dependent memory of passive avoidance in mice. *Behav Brain Res*. 2006 Jan 6;166(1):184-7. Epub 2005 Sep 15. PMID: 16168500 [PubMed - indexed for MEDLINE]
- 111: Jafari-Sabet M, Zarrindast MR, Rezayat M, Rezayof A, Djahanguiri B. The influence of NMDA receptor agonist and antagonist on morphine state-dependent memory of passive avoidance in mice. *Life Sci*. 2005 Nov 26;78(2):157-63. Epub 2005 Aug 30. PMID: 16137707 [PubMed - indexed for MEDLINE]
- 112: Zarrindast MR, Fazli-Tabaei S, Khalilzadeh A, Farahmanfar M, Yahyavi SH. Cross state-dependent retrieval between histamine and lithium. *Physiol Behav*. 2005 Sep 15;86(1-2):154-63. PMID: 16107272 [PubMed - indexed for MEDLINE]
- 113: Zarrindast MR, Fattahi Z, Rostami P, Rezayof A. Role of the cholinergic system in the rat basolateral amygdala on morphine-induced conditioned place preference. *Pharmacol Biochem Behav*. 2005 Sep;82(1):1-10. Epub 2005 Jul 27. PMID: 16054206 [PubMed - indexed for MEDLINE]
- 114: Zarrindast MR, Farajzadeh Z, Rostami P, Rezayof A, Nourjah P. Involvement of the ventral tegmental area (VTA) in morphine-induced memory retention in morphine-sensitized rats. *Behav Brain Res*. 2005 Aug 30;163(1):100-6. PMID: 15913802 [PubMed - indexed for MEDLINE]
- 115: Rezayat M, Roohbakhsh A, Zarrindast MR, Massoudi R, Djahanguiri B. Cholecystokinin and GABA interaction in the dorsal hippocampus of rats in the elevated plus-maze test of anxiety. *Physiol Behav*. 2005 Apr 13;84(5):775-82. Epub 2005 Apr 14. PMID: 15885255 [PubMed - indexed for MEDLINE]

- 116: Zarrindast MR, Khalilzadeh A, Rezayat SM, Sahebgharani M, Djahanguiri B.  
Influence of intracerebroventricular administration of histaminergic drugs on morphine state-dependent memory in the step-down passive avoidance test. *Pharmacology*. 2005 May;74(2):106-12.  
Epub 2005 May 3.  
PMID: 15867477 [PubMed - indexed for MEDLINE]
- 117: Tayebi Meybodi K, Vakili Zarch A, Zarrindast MR, Djahanguiri B.  
Effects of ultra-low doses of morphine, naloxone and ethanol on morphine state-dependent memory of passive avoidance in mice. *Behav Pharmacol*. 2005 May;16(3):139-45.  
PMID: 15864068 [PubMed - indexed for MEDLINE]
- 118: Zarrindast MR, Nasehi M, Rostami P, Rezayof A, Fazli-Tabaei S.  
Repeated administration of dopaminergic agents in the dorsal hippocampus and morphine-induced place preference. *Behav Pharmacol*. 2005 Mar;16(2):85-92.  
PMID: 15767843 [PubMed - indexed for MEDLINE]
- 119: Homayounfar H, Jamali-Raeufy N, Sahebgharani M, Zarrindast MR.  
Adenosine receptor mediates nicotine-induced antinociception in formalin test. *Pharmacol Res*. 2005 Mar;51(3):197-203.  
PMID: 15661568 [PubMed - indexed for MEDLINE]
- 120: Zarrindast MR, Sahebgharani M, Burnham WM.  
The effect of electroconvulsive shock seizures on behaviour induced by dopaminergic agonists and on immobility in the Porsolt test. *Eur Neuropsychopharmacol*. 2004 Dec;14(6):509-14.  
PMID: 15589391 [PubMed - indexed for MEDLINE]
- 121: Sahraei H, Falahi M, Zarrindast MR, Sabetkasaei M, Ghoshooni H, Khalili M.  
The effects of nitric oxide on the acquisition and expression of nicotine-induced conditioned place preference in mice. *Eur J Pharmacol*. 2004 Oct 25;503(1-3):81-7.  
PMID: 15496300 [PubMed - indexed for MEDLINE]
- 122: Sahraei H, Pirzadeh-Jahromi G, Noorbakhshnia M, Asgari A, Haeri-Rohani A, Khoshbaten A, Poorheidari GR, Sepehri H, Ghoshooni H, Zarrindast MR.  
Involvement of nucleus accumbens in L-arginine-induced conditioned place preference in rats. *Behav Pharmacol*. 2004 Nov;15(7):473-80.  
PMID: 15472569 [PubMed - indexed for MEDLINE]
- 123: Zarrindast MR, Rezayof A.  
Morphine state-dependent learning: sensitization and interactions with dopamine receptors. *Eur J Pharmacol*. 2004 Aug 23;497(2):197-204.  
PMID: 15306205 [PubMed - indexed for MEDLINE]
- 124: Vakili A, Tayebi K, Jafari MR, Zarrindast MR, Djahanguiri B.  
Effect of ethanol on morphine state-dependent learning in the mouse:  
involvement of GABAergic, opioidergic and cholinergic systems.

- Alcohol Alcohol. 2004 Sep-Oct;39(5):427-32. Epub 2004 Aug 2.  
PMID: 15289212 [PubMed - indexed for MEDLINE]
- 125: Zarrindast MR, Haidari H, Jafari MR, Djahanguiri B.  
Influence of beta-adrenoceptor agonists and antagonists on  
baclofen-induced memory impairment in mice. Behav Pharmacol. 2004  
Jul;15(4):293-7.  
PMID: 15252280 [PubMed - indexed for MEDLINE]
- 126: Zarrindast MR, Nojoomi K, Sharifzadeh M, Mokri A.  
Nitric oxide agents and apomorphine-induced rat behaviors.  
Pharmacology. 2004 Aug;71(4):169-73.  
PMID: 15240992 [PubMed - indexed for MEDLINE]
- 127: Sahraei H, Ghazzaghi H, Zarrindast MR, Ghoshooni H, Sepehri  
H, Haeri-Rohan A.  
The role of alpha-adrenoceptor mechanism(s) in morphine-induced  
conditioned place preference in female mice.  
Pharmacol Biochem Behav. 2004 May;78(1):135-41.  
PMID: 15159143 [PubMed - indexed for MEDLINE]
- 128: Zarrindast MR, Jafari MR, Shafaghi B, Djahanguiri B.  
Influence of potassium channel modulators on morphine state-  
dependent memory of passive avoidance. Behav Pharmacol. 2004  
Mar;15(2):103-10.  
PMID: 15096910 [PubMed - indexed for MEDLINE]
- 129: Zarrindast MR, Ahmadi S, Haeri-Rohani A, Rezayof A, Jafari  
MR, Jafari-Sabet M.  
GABA(A) receptors in the basolateral amygdala are involved in  
mediating morphine reward. Brain Res. 2004 Apr 23;1006(1):49-58.  
PMID: 15047023 [PubMed - indexed for MEDLINE]
- 130: Jafari MR, Zarrindast MR, Djahanguiri B.  
Effects of different doses of glucose and insulin on morphine  
state-dependent memory of passive avoidance in mice.  
Psychopharmacology (Berl). 2004 Oct;175(4):457-62.  
PMID: 15042277 [PubMed - indexed for MEDLINE]
- 131: Zarrindast MR, Jafari MR, Ahmadi S, Djahanguiri B.  
Influence of central administration ATP-dependent K<sup>+</sup> channel on  
morphine state-dependent memory of passive avoidance.  
Eur J Pharmacol. 2004 Mar 8;487(1-3):143-8.  
PMID: 15033386 [PubMed - indexed for MEDLINE]
- 132: Rezayof A, Zarrindast MR, Sahraei H, Haeri-Rohani A.  
Involvement of dopamine receptors of the dorsal hippocampus on the  
acquisition and expression of morphine-induced place preference in  
rats. J Psychopharmacol. 2003 Dec;17(4):415-23.  
PMID: 14870954 [PubMed - indexed for MEDLINE]
- 133: Sahraei H, Poorheidari G, Foadaddini M, Khoshbaten A, Asgari  
A, Noroozadeh A, Ghoshooni H, Firoozabadi SH, Zarrindast MR.  
Effects of nitric oxide on morphine self-administration in rat.  
Pharmacol Biochem Behav. 2004 Jan;77(1):111-6.  
PMID: 14724048 [PubMed - indexed for MEDLINE]
- 134: Zarrindast MR, Gholami A, Sahraei H, Haeri-Rohani A.



Role of nitric oxide in the acquisition and expression of apomorphine- or morphine-induced locomotor sensitization. Eur J Pharmacol. 2003 Dec 15;482(1-3):205-13. PMID: 14660024 [PubMed - indexed for MEDLINE]

135: Zarrindast MR, Baghdadi B, Sahebgharani M. Potentiation of imipramine-induced antinociception by nicotine in the formalin test. Eur Neuropsychopharmacol. 2004 Jan;14(1):71-6. PMID: 14659990 [PubMed - indexed for MEDLINE]

136: Zarrindast MR, Shamsi T, Azarmina P, Rostami P, Shafaghi B. GABAergic system and imipramine-induced impairment of memory retention in rats. Eur Neuropsychopharmacol. 2004 Jan;14(1):59-64. PMID: 14659988 [PubMed - indexed for MEDLINE]

137: Zarrindast MR, Torkaman-Boutorabi A. Effects of imipramine on the expression and development of morphine dependence in mice. Eur J Pharmacol. 2003 Jul 18;473(1):19-25. PMID: 12877933 [PubMed - indexed for MEDLINE]

138: Zarrindast MR, Sadeghi S, Sahebgharani M. Influence of alpha-adrenoceptor agonists and antagonists on imipramine-induced hypothermia in mice. Pharmacol Toxicol. 2003 Jul;93(1):48-53. PMID: 12828574 [PubMed - indexed for MEDLINE]

139: Zarrindast MR, Assadi E, Oryan S, Torkaman-Boutorabi A, Sahebgharani M. Influence of histamine, cimetidine and pyrilamine on naloxone-induced jumping in morphine-dependent mice. Eur J Pharmacol. 2003 Jun 20;471(2):105-12. PMID: 12818697 [PubMed - indexed for MEDLINE]

140: Zarrindast MR, Vousooghi N, Sahebgharani M. Imipramine-induced antinociception in the formalin test. Receptor mechanisms involved and effect of swim stress. Pharmacology. 2003 Jul;68(3):154-61. PMID: 12784087 [PubMed - indexed for MEDLINE]

141: Karami M, Zarrindast MR, Sepehri H, Sahraei H. Sulpiride injections into the medial septum reverse the influence of intra-medial septum injection of L-arginine on expression of place conditioning-induced by morphine in rats. Brain Res. 2003 Jun 20;976(1):30-40. PMID: 12763619 [PubMed - indexed for MEDLINE]

142: Fazli-Tabaei S, Fahim M, Zarrindast MR. Effect of acute and chronic lead exposure on apomorphine-induced sniffing in rats. Pharmacol Toxicol. 2003 Feb;92(2):88-93. PMID: 12747578 [PubMed - indexed for MEDLINE]

143: Zarrindast MR, Matinrokh H, Mojtahedzadeh-Ardebili P. Adenosine receptor agonists or antagonists alter antinociception, but did not show an interaction with imipramine-induced antinociception in the formalin test in mice. Eur Neuropsychopharmacol. 2003 May;13(3):165-72. PMID: 12729941 [PubMed - indexed for MEDLINE]

- 144: Zarrindast MR, Ghiasvand M, Homayoun H, Rostami P, Shafaghi B, Khavandgar S.  
Adrenoceptor mechanisms underlying imipramine-induced memory deficits in rats. *J Psychopharmacol*. 2003 Mar;17(1):83-8.  
PMID: 12680743 [PubMed - indexed for MEDLINE]
- 145: Khavandgar S, Homayoun H, Zarrindast MR.  
The effect of L-NAME and L-arginine on impairment of memory formation and state-dependent learning induced by morphine in mice. *Psychopharmacology (Berl)*. 2003 May;167(3):291-6. Epub 2003 Mar 28.  
PMID: 12664189 [PubMed - indexed for MEDLINE]
- 146: Eidi M, Zarrindast MR, Eidi A, Oryan S, Parivar K.  
Effects of histamine and cholinergic systems on memory retention of passive avoidance learning in rats.  
*Eur J Pharmacol*. 2003 Mar 28;465(1-2):91-6.  
PMID: 12650837 [PubMed - indexed for MEDLINE]
- 147: Zarrindast MR, Rezayof A, Sahraei H, Haeri-Rohani A, Rassouli Y.  
Involvement of dopamine D1 receptors of the central amygdala on the acquisition and expression of morphine-induced place preference in rat. *Brain Res*. 2003 Mar 7;965(1-2):212-21.  
PMID: 12591140 [PubMed - indexed for MEDLINE]
- 148: Homayoun H, Khavandgar S, Zarrindast MR.  
Morphine state-dependent learning: interactions with alpha2-adrenoceptors and acute stress. *Behav Pharmacol*. 2003 Feb;14(1):41-8.  
PMID: 12576880 [PubMed - indexed for MEDLINE]
- 149: Zarrindast MR, Bakhsha A, Rostami P, Shafaghi B.  
Effects of intrahippocampal injection of GABAergic drugs on memory retention of passive avoidance learning in rats.  
*J Psychopharmacol*. 2002 Dec;16(4):313-9.  
PMID: 12503830 [PubMed - indexed for MEDLINE]
- 150: Gholami A, Zarrindast MR, Sahraei H, Haerri-Rohani A.  
Nitric oxide within the ventral tegmental area is involved in mediating morphine reward. *Eur J Pharmacol*. 2003 Jan 1;458(1-2):119-28.  
PMID: 12498915 [PubMed - indexed for MEDLINE]
- 151: Zarrindast MR, Faraji N, Rostami P, Sahraei H, Ghoshouni H.  
Cross-tolerance between morphine- and nicotine-induced conditioned place preference in mice. *Pharmacol Biochem Behav*. 2003 Jan;74(2):363-9.  
PMID: 12479956 [PubMed - indexed for MEDLINE]
- 152: Khavandgar S, Homayoun H, Torkaman-Boutorabi A, Zarrindast MR.  
The effects of adenosine receptor agonists and antagonists on morphine state-dependent memory of passive avoidance.  
*Neurobiol Learn Mem*. 2002 Sep;78(2):390-405.  
PMID: 12431425 [PubMed - indexed for MEDLINE]
- 153: Fazli-Tabaei S, Yahyavi SH, Zarrindast MR.  
Effects of lithium carbonate on apomorphine-induced sniffing behaviour in rats. *Pharmacol Toxicol*. 2002 Sep;91(3):135-9.

PMID: 12427114 [PubMed - indexed for MEDLINE]

154: Zarrindast MR, Ahmadi R, Oryan S, Parivar K, Haeri-Rohani A. Effects of alpha-adrenoceptor agonists and antagonists on histamine-induced impairment of memory retention of passive avoidance learning in rats. *Eur J Pharmacol.* 2002 Nov 15;454(2-3):193-8.

PMID: 12421647 [PubMed - indexed for MEDLINE]

155: Zarrindast MR, Karami M, Sepehri H, Sahraei H. Influence of nitric oxide on morphine-induced conditioned place preference in the rat central amygdala. *Eur J Pharmacol.* 2002 Oct 18;453(1):81-9.

PMID: 12393063 [PubMed - indexed for MEDLINE]

156: Rezayof A, Zarrindast MR, Sahraei H, Haeri-Rohani AH. Involvement of dopamine D2 receptors of the central amygdala on the acquisition and expression of morphine-induced place preference in rat. *Pharmacol Biochem Behav.* 2002 Dec;74(1):187-97.

PMID: 12376167 [PubMed - indexed for MEDLINE]

157: Zarrindast MR, Hadi M, Homayoun H, Postami P, Shafaghi B, Khavandgar S.

The role of alpha-adrenoceptors in the amnestic effect of intracerebroventricular dexamethasone. *Pharmacol Res.* 2002 Oct;46(4):339-44.

PMID: 12361696 [PubMed - indexed for MEDLINE]

158: Zarrindast MR, Eidi M, Eidi A, Oryan S.

Effects of histamine and opioid systems on memory retention of passive avoidance learning in rats. *Eur J Pharmacol.* 2002 Oct 4;452(2):193-7.

PMID: 12354569 [PubMed - indexed for MEDLINE]

159: Zarrindast MR, Habibi M, Borzabadi S, Fazli-Tabaei S, Hossein Yahyavi S, Rostamin P.

The effects of dopamine receptor agents on naloxone-induced jumping behaviour in morphine-dependent mice.

*Eur J Pharmacol.* 2002 Sep 20;451(3):287-93.

PMID: 12242090 [PubMed - indexed for MEDLINE]

160: Zarrindast MR, Dinkoub Z, Homayoun H, Bakhtiarian A, Khavandgar S.

Dopamine receptor mechanism(s) and morphine tolerance in mice. *J Psychopharmacol.* 2002 Sep;16(3):261-6.

PMID: 12236635 [PubMed - indexed for MEDLINE]

161: Zarrindast MR, Adl M, Sharifzadeh M, Bahreini T.

Role of nitric oxide in systemic effect of theophylline on mouse body

temperature. *Eur J Pharmacol.* 2002 Sep 6;451(1):63-8.

PMID: 12223230 [PubMed - indexed for MEDLINE]

162: Zarrindast MR, Bahreini T, Adl M.

Effect of imipramine on the expression and acquisition of morphine-induced conditioned place preference in mice.

*Pharmacol Biochem Behav.* 2002 Nov;73(4):941-9.

PMID: 12213541 [PubMed - indexed for MEDLINE]

- 163: Gholami A, Haeri-Rohani A, Sahraie H, Zarrindast MR.  
Nitric oxide mediation of morphine-induced place preference in the nucleus accumbens of rat. *Eur J Pharmacol.* 2002 Aug 9;449(3):269-77.  
PMID: 12167469 [PubMed - indexed for MEDLINE]
- 164: Karami M, Zarrindast MR, Sepehri H, Sahraei H.  
Role of nitric oxide in the rat hippocampal CA1 area on morphine-induced conditioned place preference.  
*Eur J Pharmacol.* 2002 Aug 2;449(1-2):113-9.  
PMID: 12163114 [PubMed - indexed for MEDLINE]
- 165: Zarrindast MR, Homayoun H, Khavandgar S, Fayaz-Dastgerdi M, Fayaz-Dastgerdi M.  
The effects of simultaneous administration of alpha(2) -adrenergic agents with L-NAME or L-arginine on the development and expression of morphine dependence in mice. *Behav Pharmacol.* 2002 Mar;13(2):117-25.  
PMID: 11981224 [PubMed - indexed for MEDLINE]
- 166: Mahmoudi M, Zarrindast MR.  
Effect of intracerebroventricular injection of GABA receptor agents on morphine-induced antinociception in the formalin test.  
*J Psychopharmacol.* 2002 Mar;16(1):85-91.  
PMID: 11949777 [PubMed - indexed for MEDLINE]
- 167: Zarrindast MR, Ramezani-Tehrani B, Ghadimi M.  
Effects of adrenoceptor agonists and antagonists on morphine-induced Straub tail in mice. *Pharmacol Biochem Behav.* 2002 May;72(1-2):203-7.  
PMID: 11900789 [PubMed - indexed for MEDLINE]
- 168: Zarrindast MR, Samadi P, Haeri-Rohani A, Moazami N, Shafizadeh M.  
Nicotine potentiation of morphine-induced catalepsy in mice. *Pharmacol Biochem Behav.* 2002 May;72(1-2):197-202.  
PMID: 11900788 [PubMed - indexed for MEDLINE]
- 169: Zarrindast MR, Sahebgharani M.  
Effect of alpha-adrenoceptor agonists and antagonists on imipramine-induced antinociception in the rat formalin test. *Pharmacology.* 2002 Apr;64(4):201-7.  
PMID: 11893901 [PubMed - indexed for MEDLINE]
- 170: Matloubi H, Ghandi M, Zarrindast MR, Saemian N.  
Modified synthesis of 11-[14C]-clozapine. *Appl Radiat Isot.* 2001 Dec;55(6):789-91.  
PMID: 11761101 [PubMed]
- 171: Homayoun H, Khavandgar S, Zarrindast MR.  
Effects of adenosine receptor agonists and antagonists on pentylenetetrazole-induced amnesia.  
*Eur J Pharmacol.* 2001 Nov 2;430(2-3):289-94.  
PMID: 11711045 [PubMed - indexed for MEDLINE]
- 172: Zarrindast MR, Mahmoudi M.  
GABA mechanisms and antinociception in mice with ligated sciatic nerve. *Pharmacol Toxicol.* 2001 Aug;89(2):79-84.  
PMID: 11555324 [PubMed - indexed for MEDLINE]

- 173: Zarrindast MR, Alaei-Nia K, Shafizadeh M.  
On the mechanism of tolerance to morphine-induced Straub tail reaction in mice. *Pharmacol Biochem Behav.* 2001 Jul-Aug;69(3-4):419-24.  
PMID: 11509199 [PubMed - indexed for MEDLINE]
- 174: Zarrindast M, Rostami P, Sadeghi-Hariri M.  
GABA(A) but not GABA(B) receptor stimulation induces antianxiety profile in rats. *Pharmacol Biochem Behav.* 2001 May-Jun;69(1-2):9-15.  
PMID: 11420063 [PubMed - indexed for MEDLINE]
- 175: Sahebgharani M, Zarrindast M.  
Effect of alpha-adrenoceptor agents on imipramine-induced antinociception in nerve-ligated mice.  
*Eur Neuropsychopharmacol.* 2001 Apr;11(2):99-104.  
PMID: 11313154 [PubMed - indexed for MEDLINE]
- 176: Zarrindast MR, Barghi-Lashkari S, Shafizadeh M.  
The possible cross-tolerance between morphine- and nicotine-induced hypothermia in mice. *Pharmacol Biochem Behav.* 2001 Feb;68(2):283-9.  
PMID: 11267633 [PubMed - indexed for MEDLINE]
- 177: Zarrindast MR, Khodjastehfar E, Oryan S, Torkaman-Boutorabi A.  
Baclofen-impairment of memory retention in rats: possible interaction with adrenoceptor mechanism(s). *Eur J Pharmacol.* 2001 Jan 12;411(3):283-8.  
PMID: 11164386 [PubMed - indexed for MEDLINE]
- 178: Zarrindast MR, Samiee F, Rezayat M.  
Antinociceptive effect of intracerebroventricular administration of cholecystokinin antagonist in nerve-ligated mice.  
*Pharmacol Toxicol.* 2000 Oct;87(4):169-73.  
PMID: 11097270 [PubMed - indexed for MEDLINE]
- 179: Zarrindast MR, Shaverdian S, Sahebgharani M.  
Effect of imipramine on tolerance to morphine antinociception in the formalin test. *Pharmacol Toxicol.* 2000 Sep;87(3):131-7.  
PMID: 11068854 [PubMed - indexed for MEDLINE]
- 180: Zarrindast MR, Homayoun H, Babaie A, Etminani A, Gharib B.  
Involvement of adrenergic and cholinergic systems in nicotine-induced angiogenesis in mice. *Eur J Pharmacol.* 2000 Oct 27;407(1-2):145-58.  
PMID: 11050302 [PubMed - indexed for MEDLINE]
- 181: Zarrindast M, Valizadeh S, Sahebgharani M.  
GABA(B) receptor mechanism and imipramine-induced antinociception in ligated and non-ligated mice.  
*Eur J Pharmacol.* 2000 Oct 27;407(1-2):65-72.  
PMID: 11050292 [PubMed - indexed for MEDLINE]
- 182: Rezayat M, Rahnavard A, Zarrindast MR.  
Role of cholecystokinin receptors in induction of antinociception in hot-plate test. *Pharmacol Toxicol.* 2000 Aug;87(2):58-62.  
PMID: 10989941 [PubMed - indexed for MEDLINE]

- 183: Zarrindast MR, Mohaddess G, Rezvani-Pour M.  
Effect of nicotine on sniffing induced by dopaminergic receptor stimulation. *Eur Neuropsychopharmacol*. 2000 Sep;10(5):397-400.  
PMID: 10974612 [PubMed - indexed for MEDLINE]
- 184: Zarrindast MR, Haeri-Zadeh F, Zarghi A, Lahiji P.  
Nicotine potentiates sulpiride-induced catalepsy in mice. *J Psychopharmacol*. 1998;12(3):279-82.  
PMID: 10958255 [PubMed - indexed for MEDLINE]
- 185: Zarrindast MR, Fazli-Tabaei S, Semnanian S, Fathollah Y, Yahyavi SH.  
Effects of adrenoceptor agents on apomorphine-induced licking behavior in rats. *Pharmacol Biochem Behav*. 2000 Feb;65(2):275-9.  
PMID: 10672980 [PubMed - indexed for MEDLINE]
- 186: Tabatabai SA, Zarrindast MR, Lashkari SB, Shafiee A.  
Synthesis, conformational analysis and antinociceptive activity of 1-[N-methyl-(2-phenylethyl)amino]methyl-1,2,3,4-tetrahydroisoquinoline derivatives. *Arzneimittelforschung*. 1999 Dec;49(12):1001-5.  
PMID: 10635445 [PubMed - indexed for MEDLINE]
- 187: Sabetkasai M, Ahang S, Shafaghi B, Zarrindast MR.  
Baclofen-induced antinociception and nicotinic receptor mechanism(s). *Pharmacol Toxicol*. 1999 Nov;85(5):247-51.  
PMID: 10608489 [PubMed - indexed for MEDLINE]
- 188: Sahraei H, Motamedi F, Khoshbaten A, Zarrindast MR.  
Adenosine A(2) receptors inhibit morphine self-administration in rats. *Eur J Pharmacol*. 1999 Oct 27;383(2):107-13.  
PMID: 10585523 [PubMed - indexed for MEDLINE]
- 189: Zarrindast MR, Mousa-Ahmadi E.  
Effects of GABAergic system on naloxone-induced jumping in morphine-dependent mice. *Eur J Pharmacol*. 1999 Sep 24;381(2-3):129-33.  
PMID: 10554880 [PubMed - indexed for MEDLINE]
- 190: Zarrindast MR, Nassiri-Rad S, Pazouki M.  
Effects of dopaminergic agents on antinociception in formalin test. *Gen Pharmacol*. 1999 Apr;32(4):517-22.  
PMID: 10323495 [PubMed - indexed for MEDLINE]
- 191: Sabetkasai M, Khansefid N, Yahyavi SH, Zarrindast MR.  
Baclofen and antidepressant--induced antinociception in formalin test: possible GABA(B) mechanism involvement. *Psychopharmacology (Berl)*. 1999 Mar;142(4):426-31.  
PMID: 10229069 [PubMed - indexed for MEDLINE]
- 192: Zarrindast MR, Shekarchi M, Rezayat M.  
Effect of nicotine on apomorphine-induced licking behaviour in rats. *Eur Neuropsychopharmacol*. 1999 Mar;9(3):235-8.  
PMID: 10208293 [PubMed - indexed for MEDLINE]
- 193: Zarrindast MR, Khoshayand MR, Shafaghi B.

The development of cross-tolerance between morphine and nicotine in mice. *Eur Neuropsychopharmacol.* 1999 Mar;9(3):227-33.  
PMID: 10208292 [PubMed - indexed for MEDLINE]

194: Rezayat M, Ravandeh N, Zarrindast MR.  
Cholecystokinin and morphine-induced hypothermia.  
*Eur Neuropsychopharmacol.* 1999 Mar;9(3):219-25.  
PMID: 10208291 [PubMed - indexed for MEDLINE]

195: Zarrindast MR, Naghipour B, Roushan-zamir F, Shafaghi B.  
Effects of adenosine receptor agents on the expression of morphine withdrawal in mice. *Eur J Pharmacol.* 1999 Mar 12;369(1):17-22.  
PMID: 10204676 [PubMed - indexed for MEDLINE]

196: Rezayat M, Tabarrai E, Parvini S, Zarrindast MR, Pirali M.  
Effects of CCK antagonists on GABA mechanism-induced antinociception in the formalin test. *Eur Neuropsychopharmacol.* 1999 Jan;9(1-2):9-14.  
PMID: 10082222 [PubMed - indexed for MEDLINE]

197: Zarrindast MR, Sedaghati F, Borzouyeh F.  
Nicotine-induced grooming: a possible dopaminergic and/or cholinergic mechanism. *J Psychopharmacol.* 1998;12(4):375-9.  
PMID: 10065912 [PubMed - indexed for MEDLINE]

198: Zarrindast MR, Nikfar S, Rezayat M.  
Cholecystokinin receptor mechanism(s) and morphine tolerance in mice.  
*Pharmacol Toxicol.* 1999 Jan;84(1):46-50.  
PMID: 9974190 [PubMed - indexed for MEDLINE]

199: Zarrindast MR, Fazli-Tabai S, Semnianian 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.  
PMID: 9972838 [PubMed - indexed for MEDLINE]

200: Zarrindast MR, Rezayat M, Ghanipoor N, Parvini S.  
Interactions between antinociception induced by cholecystokinin antagonists and GABA agonists in the tail-flick test.  
*Pharmacol Toxicol.* 1998 Oct;83(4):143-8.  
PMID: 9820874 [PubMed - indexed for MEDLINE]

201: Ghazi-Khansari M, Rezvani N, Bani-Assadi S, Zarrindast MR.  
Effects of lead exposure on licking and yawning behaviour in rats.  
*Pharmacol Toxicol.* 1998 Sep;83(3):120-4.  
PMID: 9783330 [PubMed - indexed for MEDLINE]

202: Zarrindast MR, Lahiji P, Shafaghi B, Sadegh M.  
Effects of GABAergic drugs on physostigmine-induced improvement in memory acquisition of passive avoidance learning in mice.  
*Gen Pharmacol.* 1998 Jul;31(1):81-6.  
PMID: 9595284 [PubMed - indexed for MEDLINE]

203: Zarrindast MR, Iraie F, Heidari MR, Mohagheghi-Badi M.  
Effect of adenosine receptor agonists and antagonists on morphine-induced catalepsy in mice. *Eur J Pharmacol.* 1997 Oct 29;338(1):11-6.

PMID: 9407998 [PubMed - indexed for MEDLINE]

204: Zarrindast MR, Pazouki M, Nassiri-Rad S.  
Involvement of cholinergic and opioid receptor mechanisms in  
nicotine-induced antinociception.  
Pharmacol Toxicol. 1997 Nov;81(5):209-13.  
PMID: 9396085 [PubMed - indexed for MEDLINE]

205: Rezayat M, Azizi N, Zarrindast MR.  
On the mechanism(s) of cholecystokinin (CCK): receptor stimulation  
attenuates morphine dependence in mice.  
Pharmacol Toxicol. 1997 Sep;81(3):124-9.  
PMID: 9335069 [PubMed - indexed for MEDLINE]

206: Zarrindast MR, Zabihi A, Rezayat M, Rakhshandeh H, Ghazi-  
Khansari M, Hosseini R.  
Effects of caerulein and CCK antagonists on tolerance induced to  
morphine antinociception in mice.  
Pharmacol Biochem Behav. 1997 Sep;58(1):173-8.  
PMID: 9264087 [PubMed - indexed for MEDLINE]

207: Sawynok J, Zarrindast MR, Reid AR, Doak GJ.  
Adenosine A3 receptor activation produces nociceptive behaviour and  
edema by release of histamine and 5-hydroxytryptamine.  
Eur J Pharmacol. 1997 Aug 20;333(1):1-7.  
PMID: 9311654 [PubMed - indexed for MEDLINE]

208: Ghazi-Khansari M, Heidari I, Zarrindast MR.  
Effects of lead exposure on bromocriptine-induced penile erection  
in rats. Pharmacol Toxicol. 1997 Aug;81(2):81-4.  
PMID: 9298504 [PubMed - indexed for MEDLINE]

209: Zarrindast MR, Moghadamnia AA.  
Adenosine receptor agents and conditioned place preference.  
Gen Pharmacol. 1997 Aug;29(2):285-9.  
PMID: 9251915 [PubMed - indexed for MEDLINE]

210: Shafizadeh M, Semnanian S, Zarrindast MR, Hashemi B.  
Involvement of GABAB receptors in the antinociception induced by  
baclofen in the formalin test. Gen Pharmacol. 1997 Apr;28(4):611-5.  
PMID: 9147033 [PubMed - indexed for MEDLINE]

211: Zarrindast MR, Oveisi MR.  
Effects of monoamine receptor antagonists on nicotine-induced  
hypophagia in the rat. Eur J Pharmacol. 1997 Feb 26;321(2):157-62.  
PMID: 9063683 [PubMed - indexed for MEDLINE]

212: Rezayat M, Oreizi S, Zarrindast MR.  
Caerulein may potentiate morphine-induced antinociception by  
cholecystokinin-A and/or cholecystokinin-B receptor mechanisms.  
Gen Pharmacol. 1997 Feb;28(2):337-40.  
PMID: 9013214 [PubMed - indexed for MEDLINE]

213: Sabetkasai M, Doost-Mohammady R, Zarrindast MR.  
Opposite influences of different adrenoceptors on baclofen-induced  
antinociception in mice. Pharmacol Toxicol. 1997 Jan;80(1):6-10.  
PMID: 9148284 [PubMed - indexed for MEDLINE]

214: Zarrindast MR, Hodjati MR, Pejhan A, Soleimannejad E.



- Bupropion induces sniffing: a possible dopaminergic mechanism. Eur Neuropsychopharmacol. 1996 Nov;6(4):299-303.  
PMID: 8985713 [PubMed - indexed for MEDLINE]
- 215: Rashidy-Pour A, Motamedi F, Semnanian S, Zarrindast MR, Fatollahi Y, Behzadi G.  
Effects of reversible inactivation of the medial septal area on long-term potentiation and recurrent inhibition of hippocampal population spikes in rats. Brain Res. 1996 Sep 23;734(1-2):43-8.  
PMID: 8896806 [PubMed - indexed for MEDLINE]
- 216: Zarrindast MR, Sharifzadeh M, Sadeghi AI.  
Theophylline-induced grooming: possible indirect dopaminergic mechanism. Eur J Pharmacol. 1996 Jun 13;306(1-3):1-4.  
PMID: 8813608 [PubMed - indexed for MEDLINE]
- 217: Zarrindast MR, Nami AB, Farzin D.  
Nicotine potentiates morphine antinociception: a possible cholinergic mechanism. Eur Neuropsychopharmacol. 1996 May;6(2):127-33.  
PMID: 8791038 [PubMed - indexed for MEDLINE]
- 218: Heidari MR, Khalili F, Ghazi-khansari M, Hashemi B, Zarrindast MR.  
Effect of picrotoxin on antinociception in the formalin test. Pharmacol Toxicol. 1996 May;78(5):313-6.  
PMID: 8737966 [PubMed - indexed for MEDLINE]
- 219: Zarrindast MR, Farzin D.  
Nicotine attenuates naloxone-induced jumping behaviour in morphine-dependent mice. Eur J Pharmacol. 1996 Feb 29;298(1):1-6.  
PMID: 8867912 [PubMed - indexed for MEDLINE]
- 220: Zarrindast MR, Sadegh M, Shafaghi B.  
Effects of nicotine on memory retrieval in mice. Eur J Pharmacol. 1996 Jan 4;295(1):1-6.  
PMID: 8925865 [PubMed - indexed for MEDLINE]
- 221: Zarrindast MR, Malekzadeh A, Rezayat M, Ghazi-Khansari M.  
Effects of cholecystokinin receptor agonist and antagonists on morphine dependence in mice. Pharmacol Toxicol. 1995 Dec;77(6):360-4.  
PMID: 8835359 [PubMed - indexed for MEDLINE]
- 222: Zarrindast MR, Jamali-Raeufy N, Shafaghi B.  
Effects of high doses of theophylline on memory acquisition. Psychopharmacology (Berl). 1995 Dec;122(3):307-11.  
PMID: 8748401 [PubMed - indexed for MEDLINE]
- 223: Zarrindast MR, Toloui V, Hashemi B.  
Effects of GABAergic drugs on physostigmine-induced yawning in rats. Psychopharmacology (Berl). 1995 Dec;122(3):297-300.  
PMID: 8748399 [PubMed - indexed for MEDLINE]
- 224: Zarrindast MR, Fatehi F, Mohagheghi-Badi M.  
Effects of adenosine agents on apomorphine-induced yawning in rats. Psychopharmacology (Berl). 1995 Dec;122(3):292-6.  
PMID: 8748398 [PubMed - indexed for MEDLINE]

- 225: Sharifzadeh M, Zarrindast MR, Samini M.  
Effects of adenosine analogues on apomorphine-induced penile erection in rats. *Gen Pharmacol.* 1995 Dec;26(8):1785-90.  
PMID: 8745169 [PubMed - indexed for MEDLINE]
- 226: Zarrindast MR, Sharifzadeh M.  
Effects of adenosine drugs on apomorphine-induced licking in rats. *Gen Pharmacol.* 1995 Sep;26(5):1119-23.  
PMID: 7557260 [PubMed - indexed for MEDLINE]
- 227: Zarrindast MR, Adeli R, Hosseini-semnani S, Sharifzadeh M.  
Effects of adenosine receptor agonists and antagonists on physostigmine-induced yawning. *Eur J Pharmacol.* 1995 Mar 24;276(1-2):3-7.  
PMID: 7781693 [PubMed - indexed for MEDLINE]
- 228: Zarrindast MR, Sajedian M, Rezayat M, Ghazi-Khansari M.  
Effects of 5-HT receptor antagonists on morphine-induced tolerance in mice. *Eur J Pharmacol.* 1995 Feb 6;273(3):203-7.  
PMID: 7737326 [PubMed - indexed for MEDLINE]
- 229: Zarrindast MR, Mamanpush SM, Rashidy-Pour A.  
Morphine inhibits dopaminergic and cholinergic induced ejaculation in rats. *Gen Pharmacol.* 1994 Jul;25(4):803-8.  
PMID: 7958745 [PubMed - indexed for MEDLINE]
- 230: Zarrindast MR, Farahvash H.  
Effects of GABA-ergic drugs on penile erection induced by apomorphine in rats. *Psychopharmacology (Berl).* 1994 Jun;115(1-2):249-53.  
PMID: 7862903 [PubMed - indexed for MEDLINE]
- 231: Zarrindast MR, Heidari MR.  
On the mechanisms by which theophylline changes core body temperature in mice. *Eur J Pharmacol.* 1994 May 12;257(1-2):13-20.  
PMID: 8082693 [PubMed - indexed for MEDLINE]
- 232: Zarrindast MR, Shafaghi B.  
Effects of adenosine receptor agonists and antagonists on acquisition of passive avoidance learning. *Eur J Pharmacol.* 1994 May 2;256(3):233-9.  
PMID: 8045268 [PubMed - indexed for MEDLINE]
- 233: Rezayat M, Nikfar S, Zarrindast MR.  
CCK receptor activation may prevent tolerance to morphine in mice. *Eur J Pharmacol.* 1994 Mar 11;254(1-2):21-6.  
PMID: 8206114 [PubMed - indexed for MEDLINE]
- 234: Zarrindast MR, Rezayat M.  
Caerulein changes morphine-induced antinociception depending on pretreatment times. *Gen Pharmacol.* 1994 Mar;25(2):311-6.  
PMID: 8026731 [PubMed - indexed for MEDLINE]
- 235: Zarrindast MR, Nikfar S.  
Different influences of adenosine receptor agonists and antagonists on morphine antinociception in mice. *Gen Pharmacol.* 1994 Jan;25(1):139-42.  
PMID: 8026698 [PubMed - indexed for MEDLINE]

- 236: Zarrindast MR, Sabetkasai M, Khakpour S.  
Effects of drugs active at adenosine receptors on stress-induced analgesia in mice. Arch Int Pharmacodyn Ther. 1993 Sep-Oct;325:51-60.  
PMID: 8110030 [PubMed - indexed for MEDLINE]
- 237: Sabetkasai M, Zarrindast MR.  
Antinociception: interaction between adenosine and GABA systems. Arch Int Pharmacodyn Ther. 1993 Mar-Apr;322:14-22.  
PMID: 8215713 [PubMed - indexed for MEDLINE]
- 238: Zarrindast MR, Bayat A, Shafaghi B.  
Involvement of dopaminergic receptor subtypes in straub tail behaviour in mice. Gen Pharmacol. 1993 Jan;24(1):127-30.  
PMID: 8097737 [PubMed - indexed for MEDLINE]
- 239: Motamedi F, Rashidy-Pour A, Zarrindast MR, Badavi M.  
Bombesin-induced anorexia requires central bombesin receptor activation: independence from interaction with central catecholaminergic systems. Psychopharmacology (Berl). 1993;110(1-2):193-7.  
PMID: 7870884 [PubMed - indexed for MEDLINE]
- 240: Zarrindast MR, Modabber M, Sabetkasai M.  
Influences of different adenosine receptor subtypes on catalepsy in mice. Psychopharmacology (Berl). 1993;113(2):257-61.  
PMID: 7855191 [PubMed - indexed for MEDLINE]
- 241: Zarrindast MR, Zarghi A.  
Morphine stimulates locomotor activity by an indirect dopaminergic mechanism: possible D-1 and D-2 receptor involvement. Gen Pharmacol. 1992 Nov;23(6):1221-5.  
PMID: 1362552 [PubMed - indexed for MEDLINE]
- 242: Zarrindast MR, Moini-Zanjani T, Manaheji H, Fathi F.  
Influences of dopamine receptors on chewing behaviour in rats. Gen Pharmacol. 1992 Sep;23(5):915-9.  
PMID: 1358747 [PubMed - indexed for MEDLINE]
- 243: Zarrindast MR, Sabetkasai M.  
Stress-induced antinociception and GABAergic mechanism. Arch Int Pharmacodyn Ther. 1992 Jul-Aug;318:5-12.  
PMID: 1463371 [PubMed - indexed for MEDLINE]
- 244: Zarrindast MR, Shokravi S, Samini M.  
Opposite influences of dopaminergic receptor subtypes on penile erection. Gn Pharmacol. 1992 Jul;23(4):671-5.  
PMID: 1356874 [PubMed - indexed for MEDLINE]
- 245: Zarrindast MR, Namdari S.  
Ephedrine and amphetamine induced pecking in chickens: possible indirect D-1/D-2 dopaminergic mechanism. Eur Neuropsychopharmacol. 1992 Jun;2(2):135-40.  
PMID: 1385998 [PubMed - indexed for MEDLINE]
- 246: Zarrindast MR, Hajian-Heydari A, Hoseini-Nia T.

Characterization of dopamine receptors involved in apomorphine-induced pecking in pigeons. *Gen Pharmacol.* 1992 May;23(3):427-30.  
PMID: 1387376 [PubMed - indexed for MEDLINE]

247: Zarrindast MR, Jamshidzadeh A.  
Inhibitory effect of morphine on yawning induced by cholinceptor and dopamine D2 receptor activation in rats.  
*Br J Pharmacol.* 1992 Mar;105(3):675-8.  
PMID: 1385751 [PubMed - indexed for MEDLINE]

248: Zarrindast MR, Tabatabai SA.  
Involvement of dopamine receptor subtypes in mouse thermoregulation.  
*Psychopharmacology (Berl).* 1992;107(2-3):341-6.  
PMID: 1535446 [PubMed - indexed for MEDLINE]

249: Zarrindast MR, Abolfathi-Araghi F.  
Effects of bupropion on core body temperature of mice.  
*Psychopharmacology (Berl).* 1992;106(2):248-52.  
PMID: 1347953 [PubMed - indexed for MEDLINE]

250: Zarrindast MR, Amin R.  
Role of D-1 and D-2 receptors in apomorphine-induced pecking in chicks. *Psychopharmacology (Berl).* 1992;106(1):67-70.  
PMID: 1346722 [PubMed - indexed for MEDLINE]

251: Zarrindast MR, Nasir T.  
Methylxanthine-induced attenuation of pecking in chickens.  
*Br J Pharmacol.* 1991 Oct;104(2):327-30.  
PMID: 1797301 [PubMed - indexed for MEDLINE]

252: Zarrindast MR, Eliassi A.  
Differential effects of dopamine agonists on locomotion in intact and reserpine-treated mice. *Gen Pharmacol.* 1991;22(6):1027-31.  
PMID: 1687393 [PubMed - indexed for MEDLINE]

253: Zarrindast MR, Habibi-Moini S.  
Blockade of both D-1 and D-2 dopamine receptors may induce catalepsy in mice. *Gen Pharmacol.* 1991;22(6):1023-6.  
PMID: 1687392 [PubMed - indexed for MEDLINE]

254: Zarrindast MR, Minaian A.  
Different effects of direct and indirect dopamine receptor agonists on immobility time in reserpine-treated mice.  
*Gen Pharmacol.* 1991;22(6):1017-21.  
PMID: 1687391 [PubMed - indexed for MEDLINE]

255: Zarrindast MR, Owji AA, Hosseini-Nia T.  
Evaluation of dopamine receptor involvement in rat feeding behaviour.  
*Gen Pharmacol.* 1991;22(6):1011-6.  
PMID: 1687390 [PubMed - indexed for MEDLINE]

256: Zarrindast MR, Moghaddampour E.  
Influences of dopamine agonists and antagonists of baclofen antinociception in mice.  
*Arch Int Pharmacodyn Ther.* 1991 Jan-Feb;309:42-50.  
PMID: 1679622 [PubMed - indexed for MEDLINE]

- 257: Zarrindast MR, Shahed-Dirin K.  
Bromocriptine induces climbing behaviour: possible D-1 or D-2 dopamine receptor involvement.  
Psychopharmacology (Berl). 1990;100(2):275-80.  
PMID: 2305016 [PubMed - indexed for MEDLINE]
- 258: Zarrindast MR, Moghaddampour E.  
Opposing influences of D-1 and D-2 dopamine receptors activation on morphine-induced antinociception.  
Arch Int Pharmacodyn Ther. 1989 Jul-Aug;300:37-50.  
PMID: 2619426 [PubMed - indexed for MEDLINE]
- 259: Zarrindast MR, Poursoltan M.  
Interactions of drugs acting on central dopamine receptors and cholinceptors on yawning responses in the rat induced by apomorphine, bromocriptine or physostigmine.Br J Pharmacol. 1989 Apr;96(4):843-8.  
PMID: 2663110 [PubMed - indexed for MEDLINE]
- 260: Zarrindast MR, Mahmoudi M.  
Bromocriptine-induced hypothermia: D-2 receptor involvement.  
Arch Int Pharmacodyn Ther. 1989 Mar-Apr;298:38-49.  
PMID: 2569299 [PubMed - indexed for MEDLINE]
- 261: Zarrindast MR, Hosseini-Nia T, Allah-Maddadi S.  
Food intake suppressant effect of baclofen in rats.  
Gen Pharmacol. 1989;20(5):701-3.  
PMID: 2606337 [PubMed - indexed for MEDLINE]
- 262: Zarrindast MR, Dibayan M.  
Involvement of GABAA receptor sites in diazepam hypothermia.  
Gen Pharmacol. 1989;20(6):855-9.  
PMID: 2574124 [PubMed - indexed for MEDLINE]
- 263: Zarrindast MR, Djavdan M.  
GABAA-antagonists and baclofen analgesia.  
Gen Pharmacol. 1988;19(5):703-6.  
PMID: 3215482 [PubMed - indexed for MEDLINE]
- 264: Zarrindast MR, Hosseini-Nia T.  
Anorectic and behavioural effects of bupropion.  
Gen Pharmacol. 1988;19(2):201-4.  
PMID: 3127269 [PubMed - indexed for MEDLINE]
- 265: Zarrindast MR, Oveissi Y.  
GABAA and GABAB receptor sites involvement in rat thermoregulation.  
Gen Pharmacol. 1988;19(2):223-6.  
PMID: 2832245 [PubMed - indexed for MEDLINE]
- 266: Zarrindast MR, Hosseini-Nia T, Farnoodi F.  
Anorectic effect of ephedrine. Gen Pharmacol. 1987;18(5):559-61.  
PMID: 3653677 [PubMed - indexed for MEDLINE]
- 267: Amini-Sereshki L, Zarrindast MR.  
Brain stem tonic inhibition of thermoregulation in the rat.  
Am J Physiol. 1984 Jul;247(1 Pt 2):R154-9.  
PMID: 6742225 [PubMed - indexed for MEDLINE]

- 268: Zarrindast MR.  
Sympathomimetic activity of mazindol on rat anococcygeus muscle and vas deferens. Arch Int Pharmacodyn Ther. 1984 Feb;267(2):258-63.  
PMID: 6712359 [PubMed - indexed for MEDLINE]
- 269: Zarrindast MR.  
Dopamine-like properties of ephedrine in rat brain.  
Br J Pharmacol. 1981 Sep;74(1):119-22.  
PMID: 7196787 [PubMed - indexed for MEDLINE]
- 270: Dehpour AR, Khoyi MA, Koutcheki H, Zarrindast MR.  
Pharmacological study of the anococcygeus muscle of the dog.  
Br J Pharmacol. 1980;71(1):35-40.  
PMID: 7470746 [PubMed - indexed for MEDLINE]
- 271: Dehpour AR, Khoyi MA, Pousti A, Seify A, Zarrindast MR.  
Release of [3H]-noradrenaline from the guinea-pig vas deferens by ethacrynic acid [proceedings]  
Br J Pharmacol. 1980 Jan;68(1):135P. No abstract available.  
PMID: 7357153 [PubMed - indexed for MEDLINE]
- 272: Dehpour AR, Khoyi MA, Koutcheki H, Zarrindast MR.  
Pharmacological study of the anococcygeus muscle of the dog [proceedings]  
Br J Pharmacol. 1978 Nov;64(3):452P. No abstract available.  
PMID: 719295 [PubMed - indexed for MEDLINE]
- 273: Djahanguiri B, Zarrindast MR, Gerayesh-Nejad S.  
Effects of cold or restraint on incidence of gastric ulceration induced in rats by ulcerogenic drugs. Eur J Pharmacol. 1978 Sep 1;51(1):77-9.  
PMID: 699974 [PubMed - indexed for MEDLINE]
- 274: Kruk ZL, Zarrindast MR.  
Effects of morphine on uptake and release of dopamine in mouse and rat striatal synaptosomes [proceedings]  
Br J Pharmacol. 1978 Jun;63(2):386P. No abstract available.  
PMID: 667462 [PubMed - indexed for MEDLINE]
- 275: Khoyi MA, Pousti A, Powis G, Zarrindast MR.  
Tachyphylaxis to ethacrynic acid in the isolated atrium of guinea-pig and its relation to noradrenaline stores.  
Br J Pharmacol. 1978 May;63(1):191-6.  
PMID: 647159 [PubMed - indexed for MEDLINE]
- 276: Zarrindast MR, Sharghi G, Gerayesh-Nejad S, Djahanguiri B.  
Cyclic AMP and cyclic GMP levels in glandular stomach of restrained rats. Res Commun Chem Pathol Pharmacol. 1977 Oct;18(2):373-6.  
PMID: 199924 [PubMed - indexed for MEDLINE]
- 277: Kruk ZL, Smith LA, Zarrindast MR.  
Antagonism of responses to anorectics by selective receptor blockers [proceedings].  
Br J Pharmacol. 1976 Nov;58(3):468P-469P. No abstract available.  
PMID: 990643 [PubMed - indexed for MEDLINE]
- 278: Kruk ZL, Zarrindast MR.

Mazindol anorexia is mediated by activation of dopaminergic mechanisms. *Br J Pharmacol.* 1976 Nov;58(3):367-72.  
PMID: 990591 [PubMed - indexed for MEDLINE]

279: Kruk ZL, Zarrindast MR.  
The effects of anorectic drugs on uptake and release of brain monoamines [proceedings].  
*Br J Pharmacol.* 1976 Oct;58(2):272P-273P. No abstract available.  
PMID: 974394 [PubMed - indexed for MEDLINE]

280: Sadeghi D, Zarrindast MR, Ghaffarpur FA.  
Prevention of promethazine-induced gastric ulcers in guinea pigs with disodium cromoglycate.  
*Toxicol Appl Pharmacol.* 1976 Jan;35(1):179-81. No abstract available.  
PMID: 816039 [PubMed - indexed for MEDLINE]

281: Lalezari I, Shafiee A, Badaly A, Salimi MM, Khoiyi MA, Abtahi F, Zarrindast MR.  
Synthesis and pharmacological activity of 5-substituted 2-(N,N-dialkylaminoethyl)amino- and 2-N-methylpiperazinyl-1,3,4-thiadiazoles. *Pharm Sci.* 1975 Jul;64(7):1250-2.  
PMID: 239205 [PubMed - indexed for MEDLINE]

282: Khoiyi MA, Pousti A, Zarrindast MR.  
The effect of ethacrynic acid on the guinea-pig and rat isolated vas deferens. *Br J Pharmacol.* 1974 Dec;52(4):579-84. No abstract available.  
PMID: 4455332 [PubMed - indexed for MEDLINE]

283: Sadeghi D, Zarrindast MR, Abtahi F.  
Effect of acylphenothiazine, SKF 17,910-A on gastric mucosa in rats.  
*Isr J Med Sci.* 1974 May;10(5):534-6. No abstract available.  
PMID: 4547192 [PubMed - indexed for MEDLINE]

284: Pousti A, Zarrindast M, Sadeghi D, Khoiyi MA.  
Effect of ethacrynic acid on spontaneous contractions of isolated guinea-pig atria.  
*Eur J Pharmacol.* 1973 Jun;22(3):351-4. No abstract available.  
PMID: 4732566 [PubMed - indexed for MEDLINE]

285: Djahanguiri B, Hemmati M, Zarrindast MR.  
Prevention by disulfiram of restraint- and indomethacin-induced gastric mucosal ulceration in rats.  
*Isr J Med Sci.* 1973 May;9(5):662-3. No abstract available.  
PMID: 4717949 [PubMed - indexed for MEDLINE]

