

Curriculum Vitae

Saeed Semnanian MD PhD

June 2018



Name: Saeed Semnanian

Date & place of birth: 1956, Tehran, Iran

Academic status: Professor of Physiology

Education:

Medical Doctor- Shaheed Beheshti Medical Sciences University, Tehran, Iran 1976

PhD in Physiology- Shaheed Beheshti Medical Sciences University, Tehran, Iran 1986

Academic background:

Department of Physiology, Shaheed Beheshti Medical Sciences University, 1990-1993

Institute of Biochemistry & Biophysics, Tehran University, 1993-1997

Department of Physiology, Tarbiat Modares University, 1997- present

Academic and scientific positions:

- Head of Physiology Department, Tarbiat Modares University, 1990-1996
- Research Vice Chancellor, Tarbiat Modares University, 1986-1992
- Head of Institute of Biochemistry & Biophysics, Tehran University, 1992-1997
- Treasurer, Iranian Physiology and Pharmacology Society, 1994- 2002
- (FAOPS) Federation of Asian and Oceanic Physiological Societies council member 2004-2011
- President of Tarbiat Modares University, 1997- 2005
- General Secretary of Iranian Society of Physiology and Pharmacology, 2005-2007
- Editor of Iranian Journal of Physiology and Pharmacology, 2005 - present
- President of Iranian Society of Physiology and Pharmacology, 2007-2009
- The Federation of Asian-Oceanic Neuroscience Societies (FAONS) Executive Committee Members (2011-12)
- IBRO Governing Council member – 2009 - present
- President of Iranian Neuroscience society – 2009 - present
- International Union of Physiological Societies (IUPS) council member and membership committee chair 2010 – present
- Advisor and Chairman of Central Board of Trustees and Board of Discretion Ministry of Science, Research and Technology, 2014 – 2015
- International Advisor to the Official Newsletter of South Asian Association of Physiologists (SAAP), 2015
- Nominating Committee member of FAOPS to prepare slate for 16th FAOPS Council members (2015)

Scientific society membership:

- Iranian Physiology and Pharmacology Society 1991
- Iranian society for the study of pain -1995
- International Brain Research Organization (IBRO) - 1989
- International Association for the Study of Pain (IASP)-1990
- Iranian Society for Advancement of Science (2005)

Journal editorial board member:

- Iranian Journal of Physiology and Pharmacology
- (Iranian Journal of) The Cell
- Razi Pharmacy Journal
- Modares Medical Journal
- Rafsanjan Medical Science University Journal
- Hakim Medical Journal
- Semnan Medical Science University Journal
- Journal of Addiction – ۲۰۱۲
- Turkish Journal of Medical Sciences - 2012

Delegate:

Iranian delegate to the second council of FAOPS, 1994, Shanghai, China
Iranian delegate to the 8th world congress on pain, 1996, Vancouver, Canada
Iranian delegate to the 33rd international congress of physiology (IUPS), 1997, St. Petersburg, Russia
Iranian delegate to the 9th world congress on pain, 1999, Wien, Austria
Iranian delegate to South Africa, ۲۰۰۰.
Delegate to the 3rd FAONS Congress, 2002, Kuala Lumpur, Malaysia
Iranian delegate to the 11th world congress on pain, 2005, Sydney, Australia
- Member of the International advisory committee in the international conference on Integrative physiology: Modern perspective along with Jubilee celebration of the physiological society of India, 12-14 Nov 2009 Kolkata - India

Congress Presentations:

9th Iranian Physiology & Pharmacology Congress, 1989, Shaheed Beheshti Medical Sciences University, Tehran, Iran.

- Evaluating the age and the lung parameters on chemical warfare casualties. Mishmast Gh, Motamedi F., Eftekhari H. A., Semnani S.
- Assessing the mechanism of electrical stimulation on analgesia and comparing it with morphine's effect. Manaheji H., Motamedi F., Semnani S., Amir Teymour T.
- The effect of adrenergic system on electrical stimulation induced analgesia. Semnani S., Motamedi F., Manaheji H., Mahdavi M.
- The effect of GABAergic system on Electrical stimulation induced analgesia of rats. Kesmati M., Motamedi F., Manaheji H., Semnani S., Singh S.

Second Congress of Asian and Oceanic Physiological Societies, 12-15 Nov 1990 New Delhi/ India

- Central role of alpha-2 activity in TENS analgesia
Shojaeefard M., Semnianian S., Motamedi F.

- Comparison of the involvement of opiate and noradrenergic systems on TENS induced analgesia.
Semnianian S., Motamedi F., Manaheji H.

10th Iranian Physiology & Pharmacology Congress, 1993, Ahwaz Medical Sciences University, Ahwaz, Iran.

- Assessing the neurochemical systems involved in transcutaneous electrical nerve stimulation.

Kesmati M., Motamedi F., Semnianian S., Manaheji H., Hajizadeh E.

- Comparing the central effects of Alpha-1 and Alpha-2 receptors on electrical stimulation induced analgesia.

Shojaeefard M., Semnianian S., Motamedi F.

- GABA and stress induced analgesia in mouse.

Khajepour L., Pourgholami M.H., Semnianian S.

11th Iranian Physiology & Pharmacology Congress, Tabriz Medical Sciences University, Tabriz, Iran.

-Assessing the effect of locus coeruleus lesioning and peripheral alpha-adrenergic receptors on tonic pain

Dashti M., Semnianian S., Motamedi F.

-Partial elimination of rat male sex hormones by gonadectomy and its effect on formalin induced tonic pain.

Mahdavi M.R., Haeri A., Motamedi F., Semnianian S.

- The effect of central Alpha-2 adrenergic receptors on tonic pain.

Hajsayah S., Semnianian S., Zarrindast M.R.

-Assessing the effect of GABAergic system on tonic pain.

Shafizadeh M., Semnianian S., Zarrindast M.R.

2nd Iranian Biological Congress, Tehran University, 1993.

- The effect of monosialoganglioside GM1 on rat spatial learning using Y-maze.

Moazedi A., Motamedi F., Semnianian S., Hosseini A., Hajizadeh E.

7th World Congress on pain, Paris, France, Aug 22-27, 1993.

-The assessment of GABAergic and alpha-adrenergic receptors' effect on tonic pain.

-Semnianian S., Shafizadeh M., Zarrindast MR.

2nd Iranian Biochemical Congress, Tehran University, 1993.

- The effect of monosialoganglioside GM2 on rat spatial learning using Y-maze.

Moazedi A., Motamedi F., Semnianian S., Hosseini A., Hajizadeh E.

3rd Congress of Federation of Asian and Oceanic Physiological Societies, 7-10 Nov 1994, Shanghai, China, Published in Clinical & Experimental Pharmacology & Physiology 19: (3).

-Discriminating the alpha-adrenergic receptors effect on formalin induced pain
Moazedi A., Motamedi F., Semnianian S., Eftekhar Hosseini A., Hajizadeh E.

- Dose related effect of monosialoganglioside GM2 on Y-maze discrimination learning in the rat
Moazedi A., Motamedi F., Semnianian S., Eftekhar Hosseini A., Hajizadeh E.

- Intrahippocampal injection of MK-801 impairs classical conditioned eye blink in rabbit.
Sarkaki A.R., Motamedi F., Semnianian S., Hajizadeh E., Zarrindast MR.

12th International Congress of Pharmacology, July 24-29 1994 Montreal Canada, In: Canadian Journal of Physiology And Pharmacology, Supp. 1, P13-15, Vol 42, National Research Council

- Dose related effect of monosialoganglioside GM1 on Y-Maze spatial learning task in rat.
Moazedi A., Motamedi F., Semnianian S., Eftekhar Hosseini A., Hajizadeh E.

Fourth IBRO world congress of neuroscience 9-14 July 1995, Kyoto-Japan

- Increased electrical activity of dorsal hippocampus during rabbit's eyeblink conditioning is not abolished by extinction.
Sarkaki A.R., Motamedi F., Firoozabadi S.M., Semnianian S.

- Effect of pentylentetrazole induced kindling on long term potentiation in rats hippocampal slices.
Fathollahi Y., Motamedi F., Semnianian S., Zardoshti M., Firoozabadi M.

- The effects of yohimbine on formalin induced pain response of saphenous nerve of the rat.
Pakdell F. G., Semnianian S., Nejad M. S.

- The effect of nucleus reticularis paragigantocellularis lesions on tonic pain.
Semnianian S., Azizi Z.

- Phasic and tonic pain assessment in Locus Coeruleus lesioned rats. Azizi Z., Semnianian S., Dashti M., Motamedi F.

- Interaction of exogenous GMI with MK- 801 on spatial learning task in rats.
Moazedi A. A., Motamedi F., Semnianian S., Eftekhar Hosseini A., Hajizadeh E.

- Effect of red nucleus lesion on the eye blink conditioning response in rabbit.
Taherianfard M., Motamedi F., Semnianian S., Sarkaki A., Hajizadeh E.

XIth International neurobiological symposium on learning and memory, Magdeburg, Germany, 1995

- Interaction of exogenous GM2 with MK-801 on discrimination learning in the rat.

The 4th National congress on Biology, Gorgan, Iran, 1995

- Formalin induced activity of rat Gigantocellularis neurons.

Soleimannejad E., Semnianian S., Fathollahi Y., Firoozabadi M.P.

- The central effect of Dexmedetomidine, a novel alpha-2 adrenoceptor agonist on acute pain.

Attarzadeh G., Semnianian S., Pourgholami M.

- Thyrotropin-releasing hormone (TRH) ameliorates trace conditioning impairment induced by scopolamine in the rabbit.

Zarifkar A., Oryan S., Semnianian S., Zarrindast MR., Firoozabadi MP.

- Effects of treatment with U-74389G on motor function following experimental spinal cord injury in rats.

Kalalian H., Hashemi G.M.R., Eftekhar H. A., Semnianian S., Firoozabadi MP.

- Altered synaptic transmission in hippocampus of Y-maze trained rats.

Fathollahi Y., Motamedi F., Semnianian S., Eftekhar H. A., Zardoshti M.

12th Iranian Physiology & Pharmacology Congress, Tehran, 6-9 Nov 1995

- The influence of GM1 on spatial learning deficiency after MK-801 administration of rats.

Moazedi A.A., Motamedi F., Semnianian S., Eftekhar H. A., Hajizadeh E.

- The role of dorsal hippocampal N-Methyl-D-Aspartate Acid (NMDA) receptors in classical conditioning of rabbits eyeblink.

Sarkaki A., Motamedi F., Semnianian S., Hajizadeh E.

-The effect of nucleus reticular paragigantocellularis electrolytic lesion on tonic pain.

Azizi Z., Semnianian S.

-Assessing the nociceptive effects of dexmedetomidine a novel alpha-2 adrenoceptor agonist.

Attarzadeh G., Semnianian S., Pourgholami M.

-Altered synaptic transmission in hippocampus of PTZ-kindled rats: as an in-vitro study on CA1 of hippocampal slices.

Fathollahi Y., Motamedi F., Semnianian S., Eftekhar H. A., Zardoshti M.

-Sensitivity of febrile rats to the formalin test.

Yousefi M., Semnianian S., Fathollahi Y.

-Studies on the diffusion and effects of alkylating agents on synaptosome.

Eghtesadi Araghi P., Riazi G., Semnanian S., Taghikhani M.

- Effects of chemical lesioning of lateral paragigantocellularis (LPGI) nucleus on blood pressure of rat.

Chaghagerdi N., Semnanian S.

- The effects of intrathecal dexmedetomidine, a novel alpha-2 agonist on tonic pain.

Eftekhary H., Semnanian S.

- Electrophysiological recording of paragigantocellular neurons during formalin test.

Soleimannejad E., Semnanian S., Zardoshti M., Fathollahi Y.

- The effects of chemical lesioning of lateral paragigantocellular nucleus in chronic pain.

Atashbiz M., Semnanian S.

- Effects of tyrotropin-releasing hormone (TRH) on trace conditioning of the rabbit's eyeblink response.

Zarifkar A., Oryan S., Semnanian S., Zarrindast MR., Firoozabadi MP.

- Role of the red nucleus NMDA receptors on rabbit's eyeblink classical conditional response.

Taherianfard M., Motamedi F., Semnanian S., Firoozabadi MP., Tabei.

- Neurological recovery in experimental spinal cord injury by the 21-aminosteroid, U-74389G, a potent inhibitor of iron dependent lipid peroxidation.

Kalalian H., Eftekhar H. A., Hashemi-Golpayegani M.R., Firoozabadi M., Semnanian S.

- The effect of partial elimination of sex hormones on phasic and tonic pain and electroacupuncture induced analgesia in male Albino rats.

Vaez Mahdavi M.R., Haeri A., Motamedi F., Molayemi E., Semnanian S.

- Assessment of peripheral alpha-adrenergic receptors' role in tonic pain.

Dashti M., Semnanian S., Motamedi F.

- A survey concerning physiology and pharmacology in Iran.

Sadeghipour-Roudsari H.R., Semnanian S.

- Nociceptive effects of formalin on saphenous neuronal response.

Pakdel F.G., Semnanian S., Nejad M.S.

32nd Congress of the international union of physiological societies. Glasgow, England, Aug 1993

- Overall study of involvement of neurochemical systems in Transcutaneous Electrical Nerve Stimulation.

4th Anesthesiology and critical care congress of Iran Tehran, 1996

- International Association for the Study of Pain's pain questionnaire: A new tool for quantifying pain.

Najafi M., Semnanian S.

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8th World Congress on Pain, Aug 17-22, Vancouver, Canada

- The effect of DSP-4 lesioning of lateral paragigantocellular neurons on rat nociception and blood pressure.

- Chorda tympani neuronal response to tastants following topical administration of formalin on the rats tongue.

First FAONS congress & first IBRO regional congress 20-23 Oct 1996, Pattaya, Thailand

- Antinociception induced by L-Glutamate microinjection into the nucleus reticularis gigantocellularis of the rat in formalin test.

Aminimoghadam S., Semnanian S., Fathollahi Y.

- The assessment of patients suffering migraine without aura using IASP pain database questionnaire

Haghpourast A., Najafi M., Semnanian S.

- Thyrotropin- releasing hormone (TRH) ameliorates trace conditioning impairment induced by scopolamine in the rabbit.

Oryan S.H., Zarifkar A., Semnanian S., Zarrindast MR.

- Chronic morphine administration facilitates induction of LTP by primed-burst tetanic stimulation in hippocampal CA1 area of the rat.

Mansouri F., Motamedi F., Fathollahi Y., Atapour N., Semnanian S.

- Developmental changes in field potential characteristics of rat visual cortex: An in-vitro study.

Atapour N., Esteky H., Motamedi F., Fathollahi Y., Alizadeh M.F., Semnanian S.

- Antinociceptive effects of *Elaeagnus Angostifolia* fruit extract

Ahmadiani A., Semnanian S., Kamalinejad M., Hosseini J.

- The role of spinal and supraspinal alpha-2 adrenergic receptors on pain by using dexmedetomidine.

Attarzadeh Yazdi G., Semnanian S., Pourgholami M.

- Antinociceptive effects of *Trigonella Foenum-graecum*.

Ahmadiani A., Kamalinejad M., Javan M., Semnanian S.

- Studies on the diffusion and effects of alkylating agents on synaptosomes.
Eghtesadi Araghi P., Riazi G., Semnanian S., Taghikhani M.

1st Iranian Neuroscience Congress, 1996, Tehran

- Migraine's effect on patients socio-economic situation
Najafi M., Semnanian S., Rezaei O., Ghargozli K.

-Alpha-2 adrenergic receptors on the nociception primary afferent terminals.
Ghaderi F., Shokohi Nejad M., Semnanian S.

- Nociception induced by L-Glutamate injection into PGI
Ammini S., Semnanian S., Fathollahi Y.

- Antinociceptive effects of Trigonella foenum-graceum extract.
Ahmadiani A., Semnanian S., Kamalinejad M., Javan M.

- Analgesic effects of Sambucus ebulus rhizome.
Ahmadiani A., Semnanian S., Kamalinejad M., Fereidoni M.

- Antinociceptive effects of Elaegnus angostifolia fruit.
Ahmadiani A., Semnanian S., Kamalinejad M., Hosseini J.

- Assessing infiltration and effects of alkylating agents on synaptosomes.
Araghi P., Semnanian S. Taghikhani M., Riazi G.

- Changes in visual cortex field potential due to aging.
Atapour N., Esteki H., Motamedi F., Fathollahi Y., Semnanian S.

- TRH and hippocampal cholinergic system interaction in NRM.
Zarrifkar A., Oryan S., Semnanian S., Zarrindast M.R.

- Participation of GM1 in temporal learning and LTP.
Moazedi A., Motamedi F., Semnanian S., Hosseini A.

- Rubral GABAergic interneurons role in rabbit NMR.
Taherianfard M., Motamedi F., Semnanian S.

- Adrenergic agonist and antagonists role in physotigmine induced yawning.
Tabaei S., Zarrindast M.R., Semnanian S.

- The effect of adrenergic agonist and antagonists on apomorphine induced climbing behavior.
Shafizadeh S., Semnanian S., Zarrindast M.R.

XXXIII International Congress of Physiological Sciences, St. Petersburg, June 30- July 5, 1997

- The role of alpha-2 adrenoceptors on anesthesia.
Atarzadeh Yazdi G., Semnanian S., Pourgholami M.

- Anti-inflammatory and antinociceptive effects of Trigonella-graecum leaves extract.

Javan M., Ahmadiani M., Semnanian S., Kamalinejad M.

- Chronic morphine administration inhibits the decay of LTP in hippocampal CA1 area of rat.

Semnanian S., Alizadeh Mansouri F., Motamedi F., Fathollahi Y., Atapour N.

- The effect of bombesin on tail flick latency on rat.

Haghparast A., Semnanian S., Fathollahi Y., Sarihi A.

- Electrical stimulation of nucleus paragigantocellular (PGI) produces antinociception in formalin test.

Semnanian S., Aminimoghadam S., Fathollahi Y.

- Antinociceptive and antiinflammatory activity of Sambucus ebulus Rhizome extract.

Fereidoni M., Ahmadiani A., Semnanian S., Kamalinejad M.

- A comparison between the effect of locus coeruleus lesioning on tonic pain.

Dashti M.H., Semnanian S.,

- Assessing the effect of age on formalin induced pain.

Semnanian S., Shafizadeh M., Zarrindast MR, Fathollahi Y.

8th Congress of the international headache society. Amesterdam, Netherland, 10-14 June 1997

- The study of migraine impact on economic status and quality of life using the IASP pain database.

Najafi M., Semnanian S., Fathollahi Y.

13th Iranian Physiology & Pharmacology Congress, Isfahan, Iran, 1997

- The effects of TRH on electrical activity of hippocampus during NMR conditioning.

Zarifkar A., Oryan S., Semnanian S., Zarrindast M.R.

- Assessing the effect of Enalapril (ACEI) on the decrease of nerve conduction velocity of diabetic rats.

Tavakoli A. Asgari A., Semnanian S.

- The effect of electrical stimulation and L-Glutamate injection in rats' PGI on phasic pain.

Amini Moghaddam S., Semnanian S., Fathollahi Y.

- Evaluating the effect of age on formalin induced analgesia.

Shafizadeh M., Semnanian S., Fathollahi Y.

- Electrophysiological and behavioral evaluation of 21 amino-steroid effect on spinal injury.

Kalalian Moghaddam H., Eftekhar Hosseini S.A., Hashemi Golpayegani M.R., Firoozabadi S.M., Semnanian S.

- Chronic morphine induction attenuates the LTP of CA1 region of rat hippocampal slices.

Motamedi F., Mansouri F., Fathollahi Y., Semnanian S.

- Evaluating the change in synaptic conduction of hippocampal CA1 region of Y-maze trained rats.

Motamedi. F., Semnanian S., Zartoshti M.

- The adrenergic system function during the apomorphine induced licking behavior of rats.

Fazl Tabaei S., Zarrindast M.R., Semnanian S.

III International congress of pathophysiology, June 1998, Lahti, Finland

- Responsiveness of the nucleus reticularis paragigantocellularis neurons to the formalin as a peripheral noxious stimulus.

Semnanian S., Gheibi, Fathollahi Y., Haghparast A.

- Morphine tolerance in the nucleus paragigantocellularis: single unit recording study in vivo.

Haghparast A., Semnanian S., Fathollahi Y.

Iranian Biological society congress, 1998

- Mechanism of aspirin effect on nerve growth in DRG of chicken fetus.

Saboni, Firouzi, Taghikhani, Ziaei, Semnanian

14th Iranian Physiology & Pharmacology Congress, Tehran, Iran, 1999

- Analgesic effects of some new compounds.

Miri, Shafiei, Kebriaei, Semnanian.

- Comparing different methods of nerve cut.

Hajizadeh S., Banasadegh S., Semnanian S.

- Assessing the effect of ketamine on synaptic transmission.

Rahmati B., Fathollahi Y., Semnanian S., Mahdavi M.R., Shafizadeh M.

- Wound healing after nerve cut.

Banasadegh S., Hajizadeh S., Semnanian S.

- Assessing the synaptic plasticity due to tetanic stimulation.

Mohajerani, Fathollahi Y., Semnanian S., Omrani A.

- The outcomes of reticular gigantocellular nucleus lesioning.

Soleimannejad E., Heydari M., Fathollahi Y. Semnanian S.

- Change in synaptic transmission of CA1 region.
Fathollahi Y., Motamedi F., Semnanian S., Zartoshti M.

**Federation of Asian-oceanian neuroscience societies symposium 2000
Dec 7-10 Hong Kong, China**

- Caffeine increases Paragigantocellularis neuronal firing rate and induces withdrawal signs in morphine-dependent rats.
Khalili M., Semnanian S., Fathollahi Y.

- Effects of cysteamine on long-term potentiation and paired-pulse stimulation in the CA1 region of rat hippocampal slices.
Rostampour M., Fathollahi Y., Semnanian S., Hajizadeh S., Mirnajafizadeh J.

**15th Iranian Congress of Physiology & Pharmacology - Nov. 5-8 2001,
Shiraz, Iran**

- New and cheap method for acquisition and analysis of biological signals
G. Pakdel, S. Semnanian, Y. Fathollahi, M. Firoozabadi

- The role of locus coeruleus in morphine dependence of paragigantocellular neurons in rats
Khadjui K., Semnanian S., Fathollahi Y.

- Effect of adenosine and caffeine on paragigantocellularis neuronal firing rate in morphine dependent rats
Khalili M., Semnanian S., Fathollahi Y.

- Differential effects of pentylenetetrazole-kindling on long term potentiation of population excitatory postsynaptic potentials and population spikes in the CA1 region of rat hippocampus
Palizvan MR., Fathollahi Y., Semnanian S., Hajizadeh S., Mirnajafizadeh J.

- Different physiological role of nucleus Paragigantocellularis
Semnanian S.

5th Scientific Congress Federation of Asian & Oceanian Physiological Societies (FAOPS)

- In vivo measurements of noradrenaline in the Locus Coeruleus in formalin test: A microdialysis study
Sajedianfard J., Semnanian S., Khatami Sh., Naghdi N., Jorjani M.

**Experimental Biology, Proceedings for the 3rd FAONS Congress,
Volume 11, 2, Supplement Sept 2002, Malaysia**

- Effects of electrical stimulation of nucleus Paragigantocellularis on acute and chronic pain in morphine-dependent rats.
Jalalifar A., Semnanian S., Fathollahi Y.

Second Iranian Congress of Neuroscience, Oct 29-31 2002, Tehran

- Dose epileptogenic insult drive synapses of CA1 pyramidal cells to an asymptotic level or cause a shift in forms of long-term potentiation
M.R. Palizvan, Y. Fathollahi, S. Semnanian

16th Congress of Physiology and Pharmacology, Tehran, Iran, May 9-13, 2003

- Chronic morphine administration decreases spontaneous paraventricular nucleus neuronal firing rate in rats.
Ghaderi Pakdel F., Semnanian S., Fathollahi Y.
- The effect of morphine injection in the periaqueductal gray matter on the neuronal response of nucleus reticularis paraventricularis to formalin.
N. Gheibi, S. Semnanian, Y. Fathollahi
- Differential effects of pentylenetetrazol-kindling on long-term potentiation in the CA1 region of rat hippocampus.
M. R. Palizvan, Y. Fathollahi, S. Semnanian, S. Hajizadeh, Mirnajafizadeh J.
- Effect of cysteamine on tetanic stimulus-induced long-term potentiation (LTP) in the CA1 region of rat hippocampal slices.
M. Rostampour, Y. Fathollahi, S. Semnanian, S. Hajizadeh, J. Mirnajafizadeh
- Measurement of noradrenaline and its metabolite in the locus coeruleus in formalin test by using HPLC-ECD.
J. Sajedianfard, S. Semnanian, S. Khatami, N. Naghdi, M. Jorjani
- Effect of forskolin on Paraventricular nucleus neuronal firing rate: Single unit recording
Azhdari H., Semnanian S., Fathollahi Y., Ghaderi Pakdel F.
- Changes of cerebral blood flow in morphine dependent & morphine withdrawal rats: Effects of adenosine, theophylline & naloxone.
M. Zahedi, S. Hajizadeh, S. Semnanian, Y. Fathollahi
- Study on articles which have been presented in 10th to 15th Iranian congress of Physiology and Pharmacology
Bahrami F., Semnanian S., Sahraei H., Hajizadeh S., Norooz Zadeh A., Ghoshooni H., Fathollahi Y., Asgari A., Khoshbaten A.

2nd Symposium of Federation of Asian-Oceanic Neuroscience Societies (FAONS) & 3rd Iranian Congress of Neuroscience May 16-19 2004 Tehran, Iran

- Electrophysiological, pharmacological and behavioral studies of different physiological roles of the nucleus Paraventricularis

S. Semnanian

- The effect of ketamine on NMDA receptor mediated LTP depends on ketamine effects on non-NMDA mediated synaptic transmission in CA1 area of rat hippocampal slices

B. Rahmati, Y. Fathollahi, S. Semnanian, M.R. Vaez Mahdavi, M. Shafizadeh

- Cysteamine pretreatment reduces Mg^{2+} -free medium-induced plasticity in the CA1 region of the rat hippocampal slices

M. Rostampour, Y. Fathollahi, S. Semnanian, S. Hajizadeh, J. Mirnajafizadeh

- The effect of morphine on some electrophysiological parameters of paraventricular nucleus and locus coeruleus nuclei interconnections

F. Ghaderi Pakdel, S. Semnanian, Y. Fathollahi

American Society of Neuroscience Congress, 2004, Washington, DC

- Dependence of morphine enhances transient pentylentetrazole induced plastic and epileptic changes in rat hippocampal CA1 excitability

Y. Fathollahi, Z. Jafarzadeh, F. Nugent, A. Omrani, S. Semnanian

11th World Congress on pain, Sydney, Australia, 1995

- Effect of peripheral noxious stimulus on neuronal activity of the nucleus paraventricularis, in capsaicin treated morphine dependent rats.

Rohampour, Kambiz; Semnanian, Saeed; Fathollahi, Yaghoob

11th National health sciences research symposium. Understanding and managing Pain, Sept 6 & 7, 2006, Agha Khan University, Karachi, Pakistan

- The role and interaction between the Locus Coeruleus and Nucleus Paraventricularis in pain sensation and opiate withdrawal

Saeed Semnanian

18th Congress of Physiology and Pharmacology, Mashad, Iran, Aug 26-30, 2007

- Chronic stress inhibition of ultra low dose morphine-induced hyperalgesia and HPA axis role

Fereidoni M., Semnanian S., Javan M., Ahmadiani A.

- Electrophysiological assessment and Pharmacological dissection of inputs to Locus Coeruleus neurons

Semnanian S., Kato F., Yamgucci K., Launey T., Ito M.

- The role of hippocampal CA1 GABA_A receptors in formalin-induced pain

Alinaghi, Rohampour, Soleimannejad, Naghdi, Semnanian

- Pretreatment effect of morphine on serum BDNF level during Carrageenan induced inflammation
Hatami, Oryan, Ahmadiani, Semnanian, Negar, Kazemi

12th World Congress on Pain, August 17-22 2008, Glasgow, UK

- Electrophysiological assessment and Pharmacological dissection of inputs to Locus Coeruleus neurons
Semnanian S., Kato F., Yamagucci K., Launey T., Ito M.

- Ritanserin administered to the Ca1 region of the hippocampus could not improve formalin-induced spatial learning impairment

N. Naghdi, E. Soleimannejad, S. Semnanian, Y. Fathollahi, M. Javanshir

1st South Asian Conference of Physiological Societies 11th Biennial Conference of Pakistan Physiological Society November 10 – 12, 2008

- Brain Sciences & Neuroethics

Saeed Semnanian (Plenary lecturer)

- Locus Coeruleus and Pain

Mir-Shahram Safari, Abbas Haghparast, Abolhasan Ahmadiani, Saeed Semnanian (Plenary lecturer)

The 6th Asian Biophysics Association (ABA) Symposium

11-15 Jan 2009 HKUST, Hong Kong

- Effect of reversible inactivation of the nucleus Locus Coeruleus on lateral hypothalamus induced antinociception in the rat

M Safari, A Haghparast, S Semnanian

- Effect of Rolipram, a type 4 specific phosphodiesterase inhibitor on unit activity of Paragigantocellularis neurons and withdrawal signs in morphine dependent rats

H Azizi, S Semnanian, Y Fathollahi, F G Pakdell, H Azhdari Zarmehri, K Rohampour

36th International Congress of Physiological Sciences (IUPS 2009)

July 27th – August 1st, 2009, Kyoto, Japan

- Intrahippocampal injection of Baclofen attenuates nociceptive behaviors in formalin induced pain

K Rohampour, M Alinaghi Khani, E Soleimannejad, N Naghdi, S Semnanian

**6th Asian Biophysics Association (ABA) Symposium
27th Hong Kong Society of Neuroscience Annual Meeting**

Jan. 11-15, 2009 Hong Kong Uni. Sci. Tech.

- Effect of reversible inactivation of the nucleus locus coeruleus on lateral hypothalamus induced antinociception in the rat

Mir-Shahram Safari, Abbas Haghparast, Saeed Semnanian

13th World Congress on Pain, August 29- September 3 2010, Montreal, Canada

- The effect of intra-locus coeruleus injection of 17-beta estradiol on inflammatory pain modulation in male rat

R Khakpai, M Javan, M Janahmadi, T Ali, S Semnanian

- Circuitry underlying for orexin-A induced analgesia action in the nucleus raphe magnus

H Azhdari Zarmehri, Y Fathollahi, S Semnanian, H Azizi, R Khakpai, K Rohampour

**Abstracts of the 10th Biennial meeting of the Asia-Pacific Society of Neurochemistry, Phuket, Thailand, 18-20 October 2010
Journal of Neurochemistry 115, supplement 1, October 2010**

- Microinjection of orexin-A into the locus coeruleus area induces opioid withdrawal behaviors in morphine dependent rats

Azizi H., Semnanian s., Mirnajafizadeh J., Rohampour K.

Federation of European Neurosciences Societies (FENS), FENS Forum 2010 – Amsterdam

- The effect of nucleus locus coeruleus inactivation on antinociception induced by lateral hypothalamus inactivation

Safari M. S., Haghparast A., Semnanian S., Ahmadiani A.

- Lateral hypothalamus stimulation-induced antinociception is mediated in part by the activation of locus coeruleus neurons

Haghparast A., Safari M. S., Semnanian S., Ahmadiani A.

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- Orexin A-induced antinociception in the locus coeruleus originates from the lateral hypothalamus

M.S. Safari, A. Haghparast, S. Semnanian, A. Ahmadiani

The 5th Congress of Federation of Asian and Oceanian Neuroscience Societies (FAONS), Lucknow, India November 25-28, 2010

- Role of Orexin-A receptors within the Locus Coeruleus in antinociception induced by microinjection of carbachol into the lateral hypothalamus

M.S. Safari, A. Haghparast, S. Semnanian, A. Ahmadiani

- The Orexin-1 receptor antagonist SB-334867 attenuates signs of naloxone precipitated morphine withdrawal in rats

H. Azizi, S. Semnanian, J. Mirnajafizadeh, K. Rohampour, H. Azhdari

- Orexin-A modulated pain through the rostral ventromedial medulla

H. Azhdari, S. Semnanian, Y. Fathollahi, E. Erami

8th IBRO world congress of neuroscience, Florence, Italy, July 14-18, 2011

- Orexin-A potentiates excitatory synaptic transmission to the locus coeruleus neurons

H. Azizi, S. Semnanian, S.J. Mirnajafi-Zadeh, K. Rohampour & H. Azhdari Zarmehri

- Studying the effect of cyclic AMP on the symptoms of EAE model of multiple sclerosis and

myelin repair by neural stem cells in mice

S. Khezri, M. Javan, S. Semnanian & H. Baharvand

- Nogo receptor knockdown in EAE-mice potentiates myelin repair by mobilizing endogenous

neural stem cells

M. Javan, S. Khezri, S. Semnanian & H. Baharvand

- Amygdala kindling causes robust alterations in the intrinsic electrophysiological properties

of hippocampal CA1 pyramidal neurons in brain slices

Z. Ghotbeddin, J. Mirnajafizadeh, S. Semnanian, M. Janahmadi & M. Haghani

- Antinociceptive and anti-inflammatory activities of essential oil of nepeta crispa in experimental

rat models

T. Ali1, M. Javan, A. Sonboli, S. Semnanian & N. Begum

- The interaction between orexin and cannabinoid systems in locus coeruleus on pain modulation

M.S. Safari, A. Haghparast, A. Ahmadiani & S. Semnanian

- Orexin-A modulated pain through the brain stem

H. Azhdari Zarmehri, S. Semnanian, Y. Fathollahi & E. Erami

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- Low frequency stimulation prevent alterations in the electrophysiological properties of hippocampal ca1 pyramidal neurons induced by amygdala kindling

Zohre Ghotbeddin, Javad MirNajafizadeh, Saeed Semnanian, Masoud Haghani, Mahyar Janahmadi

- Localization of the brain stem antinociceptive effects of orexin-A on formalin induced nociceptive behaviors

Hassan Azhdari, Saeed Semnanian, Yaghoub Fathollahi, Elaheh Erami, Firouz Ghaderi

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- Effects of morphine induced preconditioning on arrhythmias during reperfusion period in isolated rat heart

Sohrab Hajizadeh, Saeed Semnanian, Khalil Pourkhalili, Bita Hooshmand Fini, Gholamreza Bayat, Fatemeh Safari, Firoozeh Alavian

-Voluntary exercise ameliorates cognitive deficits in morphine dependent rats: The role of hippocampal brain-derived neurotrophic factor

Hossein Miladi-Gorji, Ali Rashidy-Pour, Yaghoub Fathollahi, Maziar M. Akhavan, Saeed Semnanian, Manouchehr Safari

- Orexin-a postsynaptically increases excitatory synaptic transmission to the locus coeruleus neurons

Saeed Semnanian, Kambiz Rohampour, Seyed Javad Mirnajafi-Zadeh, Hassan Azhdari Zarmehri

-Low frequency stimulations prevent amygdala kindling-induced neuronal hyperexcitability in CA1 pyramidal neurons possibly through inhibition of ih potassium channels

Zohre Ghotbeddin, Masoud Haghani, Javad MirNajafi-Zadeh, Saeed Semnanian, Mahyar Janahmadi

-Evaluation of physiology and pharmacology situation and planning for future
Narges Hosseinmardi, Saeed Semnanian, Fereshteh Pourabdolhossein, Samaneh Dehghan, Mehdi Sadegh

-Nogo receptor knockdown in EAE-induced mice

Shiva Khezri, Mohammad Javan, Hossein Baharvand, Saeed Semnanian

-Orexin type-1 receptor contributes to tolerance development to antinociceptive effect of morphine in rats

Saeed Semnanian, Yaghoub Fathollahi, Hossein Azizi

-Tolerance to anti-nociceptive effects of sodium-salicylate and morphine, decreases adenosine deaminase activity in the rat hippocampus

Mehdi Sadegh, Yaghoub Fathollahi, Mohammad Javan, Saeed Semnanian, Nasser Naghdi

-Potentiation of the glutamatergic synaptic input to rat locus coeruleus neurons by astrocytic P2X7 receptors

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- Orexin type-1 receptor mediates the development of tolerance to morphine in lateral paraventricular nucleus

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- The effect of orexin receptor type 1 in locus coeruleus neurons on development of morphine dependency in rats: A behavioral study
Yousuf Mousavi, Javad Mirnajafi-Zadeh, Mohammad Javan, Saeed Semnanian

- Orexin type 1 receptor blockade in Lateral Paraventricular nucleus attenuates naloxone precipitated morphine withdrawal symptoms in rats
S.M Ahmadi Soleimani, Masoumeh Ghaemi Jandabi, Hossein Azizi, Saeed Semnanian

- The effect of orexin and SB334867 administration into nucleus Locus coeruleus on pain induction by formalin

Hossein Mohammad pour Kargar, S. Javad Mirnajafizadeh, Ali R. Mani, Saeed Semnanian

- The role of hepatic branch of vagus nerve in development of endotoxin tolerance in rats

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- The effect of repeated transcranial magnetic stimulations during amygdala kindling on passive intrinsic electrophysiological properties of CA1 pyramidal neurons of the hippocampus in rats

Amir Shojaei, Saeed Semnanian, Mahyar Janahmadi, Homeyra Moradi, Sayed Mohammad Firoozabadi, Javad Mirnajafi-Zadeh

- Peripheral neuropathy increases glutamatergic synaptic transmission in Locus coeruleus neurons

Kambiz Rohampour, Hossein Azizi, Saeed Semnanian, Yaghoub Fathollahi, Seyed Javad Mirnajafi-Zadeh

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- Peripheral neuropathy increases glutamatergic synaptic transmission in Locus coeruleus neurons

Kambiz Rohampour, Hossein Azizi, Saeed Semnanian, Yaghoub Fathollahi, Seyed Javad Mirnajafi-Zadeh

- The effect of orexin type 1 receptor antagonist on the development process of morphine tolerance in the rat locus coeruleus neurons

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- Interaction between the effect of low-frequency stimulation and phenobarbital on GABAergic currents in rat hippocampal slices

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- Intra-locus coeruleus microinjection of orexin-A induces opioid withdrawal like behaviors in rats

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- Effect of spontaneous injection of methylprednisolone and monosialoganglioside GM1 on spatial learning and memory in experimental model of Alzheimeric rats

Sedigheh Ashkavandi, Ahmad Ali Moazedi, Saeed Semnanian, Hooman Eshagh Harooni, Mahdi Pourmehdi

- Effect of low frequency stimulation on seizure-induced impairment in synaptic potentiation of hippocampal slices of kindled rats

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- Involvement of paraventricular neurons in the opiate withdrawal induced hyperactivity of rat locus coeruleus neurons: an electrophysiological study

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- Involvement of cannabinoid type-1 receptors in orexin-A induced analgesia in rat locus coeruleus

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- Induction of morphine withdrawal-like behaviors in dependent rats by microinjection of glutamate into locus coeruleus

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- Involvement of Paraventricular neurons in opiate withdrawal-induced hyperactivity of rat Locus Coeruleus neurons: an electrophysiological study

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- Effect of low frequency stimulation on seizure-induced impairment in synaptic potentiation of hippocampal slices of kindled rats

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The role of nucleus locus coeruleus CB1 cannabinoid receptors in orexin induced analgesia in rats: Behavioral and electrophysiological study
H. Mohammad- Pour Kargar, H. Azizi, J. Mirnajafi-Zadeh, S. Semnanian

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Chair: Saeed Semnanian MD PhD

Secretary: Hossein Azizi PhD

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Post-Doctoral supervision:

- Dr Hossein Azizi – January 2011
- Dr Masoumeh Kourosch Arami - 2012

Thesis Supervision:

25 MSc and 26 PhD, Physiology, Neuroscience, Pharmacy, and Biophysics students.

Books author:

Blood Physiology, 1990, Jihad Daneshgahi (in Persian).

Pain measurement, in: Pains and their treatment, 1994 (in Persian).

Golchin Sher Haj, 2002, Mashar. (in Persian).

Book translation:

Human Physiology & Anatomy, by Solomon, 1992, Bonyad Pub. Co.

Zendegi Salem, Vigehe Nashr Publications, 2001

Research Grants:

- Assessing the effect of tonic pain on peripheral nerves and the brain stem nucleus paragigantocellularis. Tehran University, 1995
- Categorizing the specifications of nucleus paragigantocellularis neurons responding to pain stimuli, using single unit recording. Tehran University, 1996.
- Comparing the effects of electrical stimulation and glutamate injection into the nucleus paragigantocellularis. Tehran University, 1998.
- Measuring the change in blood flow of different brain structures during chronic pain. Tehran University, 1998.
- Assessing the effect of hippocampal 5HT 2A/2C receptors on the interaction of pain and learning
Pasteur Institute, 2004
- Assessing the effect of Ritanserin AP5 and MK801 injection in hippocampus on formalin pain.
Iranian National Science Foundation, 2006

Workshop Director:

- 1st Electrophysiology research workshop 18-20 Aug 1997, Tehran
- Electrophysiology workshop: 11 May 2011, TMU, Tehran
- 2nd Seminar of Iranian Patch Clamp workers: 4 May 2011, TMU, Tehran

- Whole cell patch clamp practical workshop; 27-29 June, 2011, TMU, Tehran
- 2nd Tehran IBRO SCHOOL OF NEUROSCIENCE: Molecular, Electrophysiological & Behavioral Approaches May 12-23, 2012
- Director, 1st Tehran advanced IBRO School, 29 April – 11 May 2017

Participated workshops:

- Intensive neuroscience workshop
Shanghai Institute of Physiology, Shanghai, China, 1989.
- Postdoctoral research workshop
Shanghai Brain Research Institute, Chinese academy of sciences, 1990.
- Intensive neuroscience workshop
All India Medical Sciences University, New Delhi, India, 1990.
- Postdoctoral workshop on neuroscience
Riken, Tokyo, Japan, 1991
- Postdoctoral workshop on neuroscience
University of British Columbia- Vancouver, Canada, 1992
- Research visit
Riken- Tokyo- Japan, July 2002
- Cellular and molecular mechanisms of pain (workshop)
Prague, Jul 7-9, 2003

Sabbatical:

- July 2006- July 2007, Memory & Learning lab (Lab Head Professor Masao Ito), Brain Science Institute (BSI) Riken- Tokyo- Japan

POSTER AWARD:

- 8th IBRO World Congress in Florence, Italy (July 14-18, 2011)
A prize given by the Italian Society of Neuroscience.
Orexin-A modulated pain through the Brain Stem
Hassan Azhdari Zarmehri, Saeed Semnanian, Yaghoub Fathollahi, Elaheh Erami
- 7th FAOPS congress, 11-14 Sept 2011, Taipei, Taiwan
International advisory committee member