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**In the name of God**  
**Name Masoumeh Surname Hatam**

*Professor of Department of physiology, Faculty of Medicine,  
Shiraz University of Medical Sciences, Shiraz, IRAN*

*CV (Curriculum Vitae)*

*Last updated Nov. 28, 2021*

**A. Personal Information**

Personal Information	Education	Academic Appointments
Trainings Passed	Publications	Experience
Research Projects	Presentations	Students Supervised
Scientific-Executive Records	Honors, Awards and Inventions	Professional Memberships
Research Interests	Cultural & Social Activities	Referees

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**B. Education**

Degree	Field	Institution	City	Country	Date
Ph.D.	physiology	IUMS	Isfahan	Iran	2001
M.Sc.	Physiology	SBUMS	Tehran	Iran	1994
B.Sc.	Biology	Shiraz Univ.	Shiraz	Iran	1985

**C. Academic Appointments**

<u>Year</u>	<u>Academic Rank</u>	<u>Institution</u>
2016-present	Full professor	Shiraz University of Medical Sciences
2009-2016	Associate professor	Shiraz University of Medical Sciences
2006-2009	Associate professor	Hormozgan University of Medical Sciences
2001-2006	Assistant professor	Hormozgan University of Medical Sciences
1994-2001	Instructor	Hormozgan University of Medical Sciences
1988-1994	Lab instructor	Hormozgan University of Medical Sciences

## **D. Trainings Passed**

### **D.I. Courses**

- 1-Microinjection
- 2-Intracellular recording
- 3-Extracellular single unit recording

### **D.II. Workshops**

- 1- Article writing in english
- 2-Problem base learning(P.B.L)
- 3-Writing biomedical research paper/Article in english
- 4-Case study
- 5-Letter to editor
- 6-CV Writing, short letter recommendation
- 7-Research methodology
- 8-Evaluation and test assessment
- 9-Translation workshop
- 10-Ten steps in health system research
- 11-Oral presentation
- 12-Poster presentation
- 13-Medical education fellowship
14. Endnote workshop

## **E. Publications**

### **E.I. Articles**

#### **E.I.I. In Persian**

- 1-Hatam M**, Nasimi A, GABA and Glutamate receptors in hDB, effects on cardiovascular regulation. Iranian journal of Physiology and Pharmacology 2004 Vol. 8, NO.1 Spring & Summer .49-60
- 2-Hatam M**, Manaheji M, EEG wave changes as tool for studying pain and analgesia.Journal of Hormozgan Medical School 1996 No.1, 21-27
- 3-Hatam M**, Nasimi A. Glutaminergic systems in the Bed nucleus stria terminalis , effects on cardiovascular regulation Journal of Hormozgan Medical School 2006 volume 10/no.1/spring, 15-22
- 4-Hatam M**, Nasimi A. Role of GABA<sub>A</sub> receptor in the Bed nucleus stria terminals, effects on cardiovascular regulation. Iranian journal of Physiology and Pharmacology . Iranian journal of Physiology and Pharmacology. Winter 2007 vol.10, No. 4 351-358

**5-Hatam M**, Nasimi A. Interaction of GABA and Glutamate receptors in hDB effects on cardiovascular regulation Iranian journal of Physiology and Pharmacology. Fall 2006vol 10, 239-249

**6- Hatam M**,Ganjkhani M. The role of estrogen and GABA and Glutamate receptors in cardiovascular responses of rostral ventromedial medulla of the ovariectomized female rat.Journal of Endocrinology 2008 vol 2 107-114

7- Nasimi A , Moradi A, Ravari M, Kharazmi F, **Hatam M**. Muscarinic cholinergic receptors of the bed nucleus of stria terminalis modulate the parasympathetic component of baroreflex. Iranian journal of Physiology and Pharmacology **Physiology and Pharmacology**, Winter 2009 12 (4), 268 - 276

8-, Nasimi A. Kharazmi F **Hatam M** .Vasopressin mediates the cardiovascular effects of GABAergic system in the bed nucleus of the stria terminalis .Journal of Endocrinology

**9- Hatam M**. Ganjkhani M Glutaminergic receptor in the rostral ventrolateral medulla mediate the cardiovascular responses to activation of the bed nucleus of the stria terminalis in female ovariectomized rat. Journal of Hormozgan University of Medical Sciences 2014 NO.1 vol 18, 1-10

### **E.I.2. In English**

**1-Hatam M**, Nasimi A. Interaction of GABA and Glutamate receptors in hDB effects on cardiovascular regulation,**Brain Res**,2005 Apr 25;1042(1):37-43

**2-Nasimi A.** and. **Hatam M**. GABA and glutamate receptors in the horizontal limb of diagonal band of Broca (hDB): effects on cardiovascular regulation **Exp Brain Res**. 2005 Nov; 167(2):268-75

**3-Hatam M**, Nasimi A. Glutaminergic systems in the Bed nucleus stria terminalis , effects on cardiovascular regulation. **Exp Brain Res**. 2007 Nov 30, 178:394-401

**4-Hatam M**, Nasimi A. Vasopressin mediates the cardiovascular effects of GABAergic system in the bed nucleus of the stria terminalis. **Neuroscience Research** 65 (2009) 347–352

**5- Nasimi A Hatam M.**, The role of the cholinergic system of the bed nucleus of the stria terminalis on the cardiovascular responses and the baroreflex modulation in rats. **Brain Research**. 1386; 2011 81-88

**6-Hatam M.** Ganjkhani M . Effect of GABA<sub>A</sub> receptors in the rostral ventrolateral medulla on cardiovascular responses to activation of the bed nucleus of the stria terminalis in female ovariectomized rats, **Iranian journal of medical sciences** Vol 37, No 4, December 2012, 242-252

**7- Hatam M,** Shybanifar M and Nasimi A. Cardiovascular responses of the anterior claustrum; its mechanism; contribution of medial prefrontal cortex. **Autonomic Neuroscience.** Volume 179, issues 1-2, December 2013, 68-74.

**8-Rasulpanah M,** Kharazmi F and **Hatam M.** Evaluation of GABA receptors of ventral tegmental area in cardiovascular responses in rat. **Iranian journal of medical sciences** Vol 39, No 4 2014, 374-381

**9- Hatam M,** Rasoulpanah M and Nasimi A. The role of the GABAergic system of the ventral tegmental area on the baroreflex modulation in rats. **Synapse** 69:592–599 (2015)

**10- Yeganeh F ,** Ranjbar A, Nasimi A and **Hatam M.** Mechanism of the cardiovascular effects of the GABA<sub>A</sub> receptors of the ventral tegmental area of the rat brain. **Neuroscience Letters** 600 (2015) 193–198

11- Ranjbar A, Nasimi A and **Hatam M.** Cardiovascular and single unit responses to L-glutamate injection into the posterior insular cortex in rat **Neuroscience** 306 (2015) 63–73

12- Yeganeh F, Nasimi A and **Hatam M.** Interaction of GABA and norepinephrine in the lateral division of the bed nucleus of the stria terminalis in anesthetized rat, correlating single-unit and cardiovascular responses. **Neuroscience** 356 (2017) 255–264

**13- Mirzaei ND,** Namvar GR, Yeganeh F, and **Hatam M.**  $\alpha$ 2 Receptors in the lateral parabrachial nucleus generates the pressor response of the cardiovascular chemoreflex, effects of GABA<sub>A</sub> receptor. **Brain Research Bulletin** 140 (2018) 190-196.

**14- Mirzaei ND,** Rostami B and **Hatam M.** Role of the Kölliker-Fuse nucleus in cardiovascular responses to hypoxia and baroreceptor activation in anesthetized rats.

**BioImpacts,** 2020, 10(1), 55-61

**15-** Mirzaei ND, Yeganeh F, Ketabchi F, Nasimi A and **Hatam M** Roles of glutamate and GABA of the Kölliker-Fuse nucleus in generating the cardiovascular chemoreflex. **Pflügers Archiv - European Journal of Physiology** (2020) 472:1051-1063

**16-** Ali Nasimi, Fatemeh Haddad, Nafiseh Mirzaei-Damabi, Bahar Rostami Masoumeh Hatam. Another controller system for arterial pressure. AngII-vasopressin neural network of the parvocellular paraventricular nucleus may regulate arterial pressure during hypotension. **Brain Research** 1769 (2021) 147618

**17-Bahar Rostam and Masoumeh Hatam.** Central nucleus of amygdala mediate pressor response elicited by microinjection of angiotensin II into the parvocellular paraventricular nucleus in rat. **IJMS** ( in press)

## **F. Experience**

### **F.I. Teaching**

Cardiovascular physiology for medical , dental & pharmacy students

Neurophysiology for medical medical , dental & pharmacy students

Respiratory physiology for medical , dental & pharmacy students

Cardiovascular physiology & neurophysiology for MS students

Oral cavity physiology for dental residents students

Cardiovascular physiology and neurophysiology for Ph.D students

### **F.II. Clinical / Practical**

Microinjection and stereotaxic techniques in neuronal & hormonal control of cardiovascular research filed

Animal microsurgery

Singel unit recording

## **G. Research Projects**

**2003-**GABA and glutamate receptors in the horizontal limb of diagonal band of Broca (hDB): effects on cardiovascular regulation in rat .

**2004-**Glutamnergic systems in the Bed nucleus stria terminalis , effects on cardiovascular regulation in rat.

**2005-**The role of clustrum on cardiovascular regulation in rat.

**2006-** Alpha adrenergic and muscarinic cholinergic receptors on the Bed nucleus stria terminalis , effects on cardiovascular regulation in rat.

**2006-** Muscarinic cholinergic receptors of the bed nucleus of the stria terminals modulate the parasympathetic component of baroreflex in rat.

**2008-** The hormonal and neuronal mechanism of GABA A receptor in bed nucleus of stria terminal : effects on cardiovascular response in rat

**2008-** The neuronal and hormonal mechanism of GABA A and GABA B receptors on ventral tegmental area in rat : effects on cardiovascular response in rat.

**2010-** The role of GABAergic receptors of the ventral tegmental on baroreflex activity in rat

**2013-** Alpha1 adrenergic receptor in the bed nucleus of stria terminals, effects on cardiovascular regulation and baroreflex activity

**2019-** Role of the Kölliker-Fuse nucleus on cardiovascular responses of hypoxia and baroreceptor activation in anesthetized rat

## **H. Presentations**

### **H.I. Domestic Conferences**

1-Interaction of GABA<sub>A</sub> and alpha2 adrenergic receptors in the lateral parabrachial nucleus on peripheral chemoreflex activation. 23<sup>th</sup> Iranian Congress of Physiology and Pharmacology 15-18 Feb. 2018, Chabahaar-Iran

2-Mechanism of the cardiovascular effects of the GABA<sub>A</sub> receptors of the ventral tegmental area in rat 22<sup>th</sup> Iranian Congress of Physiology and Pharmacology sep 7-11 2015 Theran – Iran

3-Vasopressin mediates the cardiovascular effects of GABAergic system in the bed nucleus of the stria terminalis. 19<sup>th</sup> Iranian Congress of Physiology and Pharmacology Aban 2009 Theran –Iran (oral presentation)

4-Muscarinic cholinergic receptors of the bed nucleus of the stria terminals modulate the parasympathetic. Presented at the, 18<sup>th</sup> Iranian Congress of Physiology and Pharmacology August 26-30. 2007 Mashhad-Iran

5-Glutaminergic systems in the Bed nucleus stria terminalis , effects on cardiovascular regulation. . Presented at the, 17<sup>th</sup> Iranian Congress of Physiology and Pharmacology oct.1-4, 2005. Kerman-Iran (Oral presentation).

6- Rostroventrolateral medulla mediate the cardiovascular response activation of bed nucleus of stria terminalis in female rat. Presented at the, 16<sup>th</sup> Iranian Physiology and Pharmacology congress May 9-13 2003 Tehran Iran(Oral presentation).

**7-GABA and Glutamate receptors in hDB, effects on cardiovascular regulation.** Presented at the, 15<sup>Th</sup> Iranian Physiology and Pharmacology congress November 5-8 2001 Shiraz Iran(Oral presentation).

**8- Interaction of GABA and Glutamate receptors in hDB, effects on cardiovascular regulation.** Presented at the, 14<sup>th</sup> Iranian Physiology and Pharmacology congress May 16-20 1999 Tehran Iran(Oral presentation).

**9- EEG wave changes in pain and its relief by imipramine .** Presented at the, 12<sup>Th</sup> Iranian Physiology and Pharmacology congress November 6-9 Tehran Iran(Poster presentation).

## **H.II. International Conferences.**

**1-Role of caudal ventrolateral medulla and hypothalamic paraventricular nucleus to the cardiovascular and single unit recording by norepinephrine into the lateral division of bed nucleus of the stria terminalis.** 11<sup>Th</sup> Forum of Neuroscience July 7-11 2018 Germany , Berlin

**2-Mechanism of cardiovascular depressor response to glutamate microinjection into the posterior insular cortex , a single unit recording study** 10<sup>Th</sup> Forum of Neuroscience July 2-6 2016 Denmark , Copenhagen

**3-Cardiovascular and single unit responses to microinjection of norepinephrine into the bed nucleus of the stria terminalis in male rat** 8<sup>th</sup> FAOPS November 22-25 2015 Thailand Bangkok

**4- Medial prefrontal cortex mediate the cardiovascular responses to activation of Claustrum in rat** 8<sup>Th</sup> Forum of Neuroscience July 3-7 2012 Spania, Barcelona

**5- The role of claustrum in cardiovascular regulation .** 8<sup>th</sup> IBRO congress 2011, Florance, Italy

**6-Mechanisms of cardiovascular effect of GABA receptors antagonist in ventral tegmental area of the rat.** 7<sup>Th</sup> Forum of Neuroscience July 3-7 2010 Netherland , Amesterdam

**7-Alpha adrenergic receptors on the Bed nucleus stria terminalis , effects on cardiovascular regulation and baroreflex.** 6<sup>Th</sup> Forum of Neuroscience July 12-16 2008 Geneva, Swiss.

**8-Muscarinic cholinergic receptors of the bed nucleus of the stria terminals modulate the parasympathetic component of baroreflex.** 7<sup>th</sup> IBRO Congress July 12-, 2007 Melbourne Australia.

**9-**Role of GABA<sub>A</sub> receptor in the Bed nucleus stria terminalis , effects on cardiovascular regulation. Presented at the, 5<sup>Th</sup> Forum of Neuroscience July 8-12 2006 Vienna, Austria .

**10-**Glutamnergic systems in the Bed nucleus stria terminalis , effects on cardiovascular regulation. (in press). Presented at the, 28<sup>th</sup> Annual meeting of the Japan Neuroscience Society. July 26-28 2005 Yokohama, Japan. (Poster presentation).

**11-**Glutamnergic receptor in rostroventrolateral medulla mediates the cardiovascular response to activation of bed nucleus of stria terminalis in female rat. Presented at the, International Conference on Physiological Biophysics. November 9-13 2004 Shanghai, China.

**12-** Rostroventrolateral medulla mediate the cardiovascular response to activation of bed nucleus of stria terminalis in female rat. Presented at the, Six IBRO Congress July 10-16 2003 Prague, Czech. (Poster presentation).

**13-** Interaction of GABA and Glutamate receptors in the horizontal limb of diagonal band of Broca (hDB): effects on cardiovascular regulation . Presented at the, 3<sup>rd</sup> Forum of European Neuroscience July 13-17 2002 Paris France (Poster presentation).

**14-** GABA and glutamate receptors in the horizontal limb of diagonal band of Broca (hDB): effects on cardiovascular regulation. Presented at the, FENS 2000 Conference June 24-28 Brighton U.K

**15-** Effects of different adrenoceptor agonist and antagonist on antinociception in formalin test. Presented at the, 33<sup>rd</sup> International Congress of Physiology Sciences IUPS June30-July5 1997 ST.Petersburg .

**16-** EEG wave changes in pain and its relief by imipramine. Presented at the, First FAONS Congress and First Regional Congress 20-23 October 1996 Pattaya Thailand .

**17-** EEG wave changes as tool for studying pain and analgesia. Presented at the, Fourth IBRO World Congress of Neuroscience July 9-14 Kyoto Japan .

## **I. Students Supervised**

1-Glutamnergic systems in the Bed nucleus stria terminalis , effects on cardiovascular regulation. **By Majeed Vatankhah medical student ,2005**

2- Role of GABA<sub>A</sub> receptor in the Bed nucleus stria terminalis , effects on cardiovascular regulation. **By Amir Hessabi medical student ,2005**

**3-** The role of clustrum on cardiovascular regulation.**By Mehrnoosh Shybanifar, Ph.D student 2006**

4- -Alpha adrenergic receptors on the Bed nucleus stria terminalis , effects on cardiovascular regulation.**By Mardomac Ravaree medical student ,2005**

5- Muscarinic cholinergic receptors on the Bed nucleus stria terminalis , effects on cardiovascular regulation.**By Alimohamd Moradi medical student ,2005**



6- Vasopressin mediates the cardiovascular effects of GABAergic system in the bed nucleus of the stria terminalis. *By farzaneh Najarzadeh Ms student 2008*

7- The neuronal mechanism of GABA A and GABA B receptors in ventral tegmental area in rat : effects on cardiovascular response. *By Shima Azizedean medical student 2009*

8- The hormonal mechanism of GABA A and GABA B receptors in ventral tegmental area in rat : effects on cardiovascular response. *By Afrooz Azad medical student 2010*

9- The role of GABAergic receptors of the ventral tegmental on baroreflex activity in rat .  
*By Mino Rasoolpanah , Ms student 2012*

10- Cardiovascular and electrophysiological effects of GABA and glutamate receptors in posterior insular cortex in male rats. *By Afsaneh Ranjbar, Ph.D student 2012*

11- Cardiovascular and electrophysiological effect of noradrenaline and GABA interaction in the bed nucleus of the stria terminalis : contribution of CVLM and PVN. *By Fahemeh Yeganeh, Ph.D student 2013*

12- Interaction of GABA and Glutamate receptor on chemoreflex activation and single unit responses of the Kölliker-Fuse in male anesthetized rat *By Nafiseh Mirzaei, Ph.D student 2016*

13- Role of adrenergic system on chemoreflex activation of the parabrachial nucleus in male anesthetized rat *By GolamReza Namvar, Ms student 2016*

14- Role of angiotensin II on baroreflex and peripheral chemoreflex of the paraventricular nucleus of hypothalamus: contribution of centranucleus of amygdala *By Bahar Rostami, Ph.D student 2017*

15- Interaction of vasopressin and angiotensin II on cardiovascular response of the angiotensin II *By Fathemeh Haddad, Ms student 2017*

16- Interplay between glutamate and GABA receptors on cardiovascular responses of angiotensin II in the paraventricular nucleus of the hypothalamus *By Ali Rastegarmanesh, Ms student 2019*

## **J. Scientific-Executive Records**

*2001- 2009* Head of the physiology department, Department of Physiology Hormozgan University of Medical Sciences, Bandarabbas, Iran

*2003- 2009* Reviewer and consultant of Hormozgan University Journal

**2004- 2009** Member of research committee, Faculty of medicine Hormozgan University of Medical Sciences

**2005- 2009** Member of research committee, Hormozgan University of Medical Sciences

**2006-2009** Head of students consultants in faculty of medicine , Hormozgan University of Medical Sciences.

**2007- 2009** Member of education committee, Hormozgan University of Medical Sciences.

**2007-2009** Editorial board of Hormozgan University of Medical Sciences

**2007-2009** Member of medical standard committee , Hormozgan University of Medical Sciences

**2011-2013** Educational assistant of department of physiology , Shiraz University of Medical Sciences, Shiraz, Iran

### **K. Honors, Awards**

**1-**First rank student in ph.D course in Isfahan University of Medical Sciences 2001

**2-** A sixth month awarded scholarship for completion my PhD degree in University of Western Ontario London Canada 2001

**3-** Special travel award at the 28<sup>th</sup> Annual meeting of the Japan Neuroscience Society. 2005 for presentation of article

**4-**First rank researcher in Hormozgan university of medical sciences 1386 & 1387

**5-**First rank lecturer in teachers day in Hormozgan university of medical sciences 1388

### **Professional Memberships**

Member of International Brain Research Organization IBRO

Member of Federation European Neuroscience FENS

Member of Iranian Society of Physiology and Pharmacology

### **M. Research Interests**

Neuroscience :Cardiovascular regulation field

Neuroscience :Respiratory regulation field

Neuroscience: Single unit recording

### **O. Referee**

Dr. Ali Nasimi

Associate Professor of Physiology ,Isfahan University of Medical Sciences

Professor John Ciriello

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