

بِسْمِ اللَّهِ تَعَالَى

*Curriculum Vitae*

*Masoumeh Kourosh Arami*



***Education***

Ph.D., 2005- 2008 and 2009- 2010, Medical Physiology, School of Medicine, Tarbiat Modares University, Tehran, Iran

M Sc., 1997- 1999, Medical Physiology, School of Medicine, Tabriz University of Medical Sciences, Tabriz, Iran

***Research experiences***

Post-doctoral fellow, Research Scientist, 2011- 2012, Tsumoto Lab (Laboratory for Cortical Circuit Plasticity), Brain Science Institute, RIKEN, Wako Shi, Japan

Post-doctoral fellow, Research Scientist, Oct 2010- Apr 2011, Tsumoto Lab, Brain Science Institute, RIKEN, Wako Shi, Japan

Research Associate, 2008- 2009, Tsumoto Lab, Brain Science Institute, RIKEN, Wako Shi, Japan

Post-doctoral fellow, 2013- 2014, Semnanian Lab, Tarbiat Modares University, Tehran

## ***Professional Organizations***

International Brain Research Organization	since Nov 2003
Japanese Neuroscience Society	since Nov 2008
The Iranian Physiology and Pharmacology Society	since Jan 2003

## ***Reviewer***

Cardiovascular Diabetology Journal

Physiology and Pharmacology Journal of Iran

## ***Selected publications***

1. Kourosh Arami M, Sohya K, Sarihi A, Jiang B, Yanagawa Y and Tsumoto T. Reciprocal homo- and hetero-synaptic long-term plasticity of cortico-geniculate projection neurons in layer VI of the mouse visual cortex, **Journal of Neuroscience**, 2013 May, 33(18): 7787-7798
2. Sarihi A, Mirnajafi J, Sohya K, Jiang B, Safari S, Kourosh Arami M, Yanagawa Y, and Tsumoto T. Cell type specific presynaptic LTP of inhibitory synapses in fast spiking GABAergic neurons in the mouse visual cortex, **Journal of Neuroscience**, 2012 Sep 19;32(38):13189-99
3. Komaki A, Shahidi S, Sarihi A, Hasanein P, Lashgari R, Haghparast A, Salehi I, Kourosh Arami Masoumeh, Effects of neonatal C-fiber depletion on interaction between neocortical short-term and long-term plasticity, **Basic and Clinical Neuroscience**, 2013, 4(2): 30-37

4. Kourosh Arami M, Khamnei S, Zarghami N, Vahabian M. The effect of moderate hypothermia on renin-angiotensin-aldosterone system in male rats, **Int Endocrinol Metab** 3:109-110, 2005
5. Kourosh Arami M, Sarihi A, Malacoti M, Behzadi G, Vahabian M, Amiri I. The effect of nucleus tractus solitarius nitric oxidergic neurons on blood pressure in diabetic rats. **Biomedical Journal** 10(1):15-19, 2006
6. Malacuti M, Kourosh Arami M, Sarihi A, Hajizadeh S, Behzadi G, Shahidi S, Komaki A, Heshmatian B. Reversible inactivation and excitation of nucleus raphe magnus can modulate tail blood flow in response to hypothermia, **Biomedical Journal**, 2008

### *Participated workshops*

1. 6<sup>th</sup> IBRO-Associate School and First Neuroscience Orientation Summer Program, Tarbiat Modares and Shaheed Beheshti Universities, Tehran, Iran, 26<sup>th</sup> Aug-30<sup>th</sup>Sep 2006
2. Use and care of experimental animals, Tarbiat Modares University, Tehran, Iran, May 16, 2006
3. Patch clamp workshop, due to 20th Congress of Physiology and Pharmacology, Tarbiat Modares University, Tehran, Iran, May 5, 2011
4. Lab teacher in 3<sup>rd</sup> Tehran International brain research organization school, 26 Oct- 6 Nov 2013

### *Recent proposals*

1. The effect of OXR1 receptor blockade on Paragigantocellularis neural activity during naloxone-precipitated morphine withdrawal syndrome by Zahra Rezaee, Kharazmi University; adviser

2. Studying the mechanism of orexin receptor type 1 effect on morphine dependency in locus coeruleus neurons of rat, Tarbiat Modares University, Supervisor: profess. Semnianian
3. Evaluation of the mechanism of orexin receptor type 1 effect in coerulear neurons on naloxone precipitated withdrawal behaviors of morphine dependent rats, Iran university of medical sciences
4. Studying the effect of chronic systemic administration of SB-334867 on learning and memory, Iran university of medical sciences

### ***Abstracts***

1. Kourosh Arami M, Semnianian S, Javan M, Hajizade S, "NMDA receptors activity in the rat locus coeruleus neurons mediates changes in the expression of connexins during postnatal development", 8<sup>th</sup> FENS Forum of Neuroscience, Barcelona, Spain 14-18 July 2012
2. Kourosh Arami M, Sarihi A, Jiang B, Sohya K, and Tsumoto T. "Long-term synaptic plasticity at cortico-geniculate projection neurons in layer VI of the mouse visual cortex", 36<sup>th</sup> annual meeting of Japan Neuroscience Society, Nagoya, Japan, 16-18 Sep 2012
3. Kourosh Arami M, Sarihi A, Jiang B, Sohya K, and Tsumoto T. "Homosynaptic LTP and heterosynaptic LTD in layer VI of the mouse visual cortex induced by white matter stimulation or layer II/III stimulation", 34<sup>th</sup> annual meeting of Japan Neuroscience Society, Japan, 14-18 Sep 2011
4. Kourosh Arami M, Sarihi A, Jiang B, Sohya K, and Tsumoto T. "Comparison of LTP in layer VI of the mouse visual cortex induced by white matter stimulation or layer II/III stimulation", 32<sup>th</sup> annual meeting of Japan Neuroscience Society, Kyoto, Japan, 16-18 Sep 2009
5. Kourosh Arami M, 36<sup>th</sup> international congress of physiological sciences (IUPS), Japan, Kyoto, 16-18 Sep 2009

6. Kouros Arami M, Hajizadeh S, Khoshbaten A, Sarihi A. "Effect of reversible inactivation of nucleus raphe magnus neurons on tail blood flow in hypothermia in male rats", 19th Congress of Physiology and Pharmacology, Tehran, Iran, August 26-30, 2007.
7. Kouros Arami M, Hajizadeh S, Khoshbaten A, Sarihi A. "Effect of reversible inactivation of nucleus raphe magnus and its nitric oxidergic neurons on tail blood flow in hypothermia in male rats", 18th Congress of Physiology and Pharmacology, Mashhad, Iran, August 26-30, 2007.
8. Kouros Arami M, Sarihi A, Malacoti M, Behzadi G, Vahabian M, Amiri I. "The effect of NTS inhibition on blood pressure regulation in male rats". 2nd Federation of Asian & Oceanic Neuroscience Societies (FAONS), Tehran, Iran, May 16-19, 2004
9. Kouros Arami M, Khamnei S, Zarghami N, Vahabian M. "The effect of moderate hypothermia on renin-angiotensin-aldosterone system in male rats", 16th Congress of Physiology and Pharmacology, Tehran, Iran, May 9-13, 2003