

Curriculum Vitae

First Name: Sareh
Last Name: Asadi
Date of Birth: 04/27/1983
Place of Birth: Sirjan, Iran
Marital Status: Married, 1 child
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Current Position:

2014-Now: Assistant Professor, Neuroscience Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

Education:

- **2009-2013:** PhD student of Physiology, Tarbiat Modares University, Tehran, Iran. Thesis title: *Studying the repair and neurogenesis in kainic acid-degenerated hippocampus following pluripotency inducers administration in mouse.*
- **2005–2008:** M.Sc student of Cell & Molecular Biology, National Research Center of Genetic Engineering and Biotechnology – Azarbayjan University, Iran. Thesis title: *Studying the effect of chronic morphine administration and inflammatory pain on the expression pattern of N-type voltage gated calcium channel $\alpha 1$ subunit splice variants in rat hippocampus and lumbar spinal cord.*
- **2001-2005:** B.Sc student of Cell & Molecular Biology, University of Tehran, Tehran, Iran.
- **1997-2001:** High school education in Bio-experimental Sciences, Farzanegan high school, National Organization for Development of Exceptional Talents, Tehran, Iran.

Membership

- Iranian Neuroscience Society
- Iranian Physiology and Pharmacology
- Iranian Society for Cognitive Science & Technology
- Japan Neuroscience Society

Publications

Research Papers

1. Rahmani B, Fekrmandi F, Ahadi K, Ahadi T, Alavi A, Ahmadiani A, **Asadi S**, **2018**, *A Novel Nonsense Mutation in WNK1/HSN2 Associated with Sensory Neuropathy and Limb Destruction in a Large Iranian Pedigree*. BMC Neurology, 18-195.
2. Alizadeh N, Nosrat N, Jahani Z, Ahmadiani A, Shams J, **Asadi S**, *Association of HTR1A gene polymorphisms with Obsessive-Compulsive Disorder: The influence of sex and clinical characteristics*, International Journal of Neuroscience, Published online: 19 Oct 2018.
3. Abdolhossainzade S, Sina M, Ahmadiani A, **Asadi S**, Shams J, **2018**, *Glutamate transporter polymorphisms association with fluvoxamine treatment response in Iranian OCD patients*, Journal of clinical pharmacy and therapeutics, 1-10.
4. Ahmadipour E, Rashidi FS, Ahmadiani A, **Asadi S**, **2018**, Shams J, *Serotonin transporter gene (SCL6A4) polymorphisms Rs25533 and I425V: Association with obsessive-compulsive disorder symptoms in Iranian patients*. Personalized Medicine in Psychiatry, 11-12, 23-29.
5. Hasanpour H, Ghavamizadeh Meibodi R, **Asadi S**, Navi K, **2018**, *A novel ensemble method for prediction of response to fluvoxamine treatment of obsessive-compulsive disorder*. Neuropsychiatric disease and treatment, 14 2027–2038.
6. Sina M, Ahmadiani A, **Asadi S**, Shams J, **2018**, *Association of the Serotonin Receptor 2a Polymorphisms rs6311 and rs6313 with Familial Form of Obsessive Compulsive Disorder in Iranian Patients: Genetic and Pharmacogenetic Study*. Neuropsychiatric disease and treatment, 14, 1199-1209.
7. Rashidi FS, Ahmadipour E, Shiravand S, Ahmadiani A, **Asadi S**, Shams J, **2018**, *Association of the Functional Serotonin Transporter Haplotype with Familial Form of Obsessive Compulsive Disorder in Iranian Patients*, International Journal of Psychiatry in Clinical Practice, 22(1), 47-53.
8. Hasanpour H, **Asadi S**, Ghavamizadeh Meibodi R, Daraeian A, Ahmadiani A, Shams J, Navi K, **2017**, *A critical appraisal of heterogeneity in Obsessive-*

Compulsive Disorder using symptom-based clustering analysis, Asian Journal of Psychiatry, 28: 89–96.

9. **Asadi S**, Daraeian A, Rahmani B, Kargari B, Ahmadiani A, Shams J, **2016**, *Exploring Yale-Brown Obsessive-Compulsive Scale symptom structure in Iranian OCD patients using item-based factor analysis*, Psychiatry Research, Nov, 30; 245:416-422.
10. Dehghan S, **Asadi S**, Hajikaram M, Soleimani M, Javad Mowla S, Fathollahi Y, Ahmadiani A, Javan M., **2015**, *Exogenous Oct4 in combination with valproic acid increased neural progenitor markers: An approach for enhancing the repair potential of the brain*. Life Science. Feb 1;122:108-15.
11. **Asadi S.**, Dehghan S., Hajikaram M., Ahmadiani A., Mowla SJ, Javan M., **2015**, *Comparing the effects of small molecules BIX-01294, Bayk8644, RG-108, valproic acid and their different combinations on induction of pluripotency marker-genes by Oct4 in mouse brain*. Cell Journal. Winter;16(4):416-25.
12. **Asadi S.**, Khodaghohi F., Esmaeili M. A., Khoramian Tusi S., Ansari N., Sonboli A., Ghahremanzamaneh M., **2011**, *Chemical composition, antioxidant activities and protein glycation inhibitory effects of S. choloroleuca, S. santolinifolia and S. mirzayanii from Iran*, American Journal of Chinese Medicine, 39, 615-638.
13. Shaerzadeh F., Ahmadiani A., Esmaeili M. A., Ansari N., **Asadi S.**, Khoramian Tusi S., Sonboli A., Ghahremanzamaneh M., Khodaghohi F., **2011**, *Antioxidant and antiglycating activities of Salvia sahendica and its protective effect against oxidative stress in neuron-like PC12 cells*, Journal of Natural Medicine, 65, 455-465.
14. **Asadi S.**, Ahmadiani A., Esmaeili M. A., Sonboli A., Ansari N., Khodaghohi F., **2010**, *In vitro antioxidant activities and an investigation of neuroprotection by six Salvia species from Iran: A comparative study*, Food and Chemical Toxicology, 48, 1341-1349.
15. **Asadi S.**, Javan M., Ahmadiani A., Sanati MH., **2009**, *Alternative splicing in the synaptic protein interaction site of rat Cav2.2 ($\alpha 1B$) calcium channels: Changes induced by chronic inflammatory pain*, Journal of Molecular Neuroscience, 39:40-48.

16. Elahi E., **Asadi S.**, Absalan F., Goodarzi H., Gharaii N., Shafaghati Y., Karimi-Nejad M. H., Shahram F., Hughes A. E., **2007**, *Intragenic SNP haplotypes associated with 84dup18 mutation in TNFRSF11A in four FEO pedigrees suggest three independent origins for this mutation*. Journal of Bone and Mineral Metabolism (JBMM), 25:159-164.

Under review

1. Hasanpour H, Ghavamizadeh Meibodi R, **Asadi S**, Navi K, *New Ensemble Method for Classification of Obsessive-Compulsive Disorder Pharmacotherapy Data Set With Mixed Data Types*.
2. Hasanpour H, Ghavamizadeh Meibodi R, **Asadi S**, Navi K, *Applying association rule mining for Extracting Significant patterns which influence treatment response in obsessive-compulsive disorder*.
3. Moslemi M, Motamedi F, **Asadi S**, Khodaghali F, *Oxytocin ameliorates memory impairment in 3-NP injected offspring rats: sex difference responses in the context of prenatal stress*.
4. Khalifeh S, Khodaghali F, Alizadeh R, **Asadi S**, Mohammadi Kamsorkh H, Nasehi M, Ghadami A, Zarrindast MR, *D2 dopaminergic receptors are involved in depressive- and anxiety-like behaviors in the offspring of aggressive male rats: Appraising Transcription factor EB expression*.
5. **Asadi S**, Rashidi FS, Shams J, Ahmadiani A, *Association study of four functional loci of human serotonin transporter gene with fluvoxamine treatment outcome in Iranian patients with OCD*.
6. Abdolhossainzade S, Alizadeh N, Shams J, **Asadi S**, Ahmadiani A, *BDNF association study with Obsessive-Compulsive Disorder, its clinical characteristics, and response to fluvoxamine-treatment in Iranian patients*.
7. Alizadeh S; Zendehdel R, **Asadi S**, Ranjbarian M, *Quality assessment of DNA and hemoglobin by FTIR spectroscopy in occupational exposure to extremely low frequency electromagnetic field*.

Books

1. 2015: **Asadi S**, Afshar V., Pourjavid M.R., Sabetizadeh K., Dargahi L., Askari H., *Textbook of science for talented students, grade 8th*. Ministry of education. Tehran. Iran.

2. 2013: **Asadi S.**, Dehghan S., Javan M., “Real-Time PCR”, In *Techniques in Neuroscience Research*, Tarbiat MOdares University, Tehran, Iran.
3. 2011: **Asadi S**, Textbook of biology for second grade of guidance schools, National Organization for Development of Exceptional Talents, Tehran, Iran.
4. 2011: **Asadi S**, Teacher’s guide for the textbook of biology for first grade of guidance schools, National Organization for Development of Exceptional Talents, Tehran, Iran.
5. 2011: **Asadi S**, Teacher’s guide for the textbook of biology for second grade of guidance schools, National Organization for Development of Exceptional Talents, Tehran, Iran.
6. 2006: **Asadi S**, Textbook of biology for first grade of guidance schools, National Organization for Development of Exceptional Talents, Tehran, Iran.

Abstracts

1. 2016: **Asadi S**, Shams J, Ahmadiani A, Daraiean A, Rashidi FS, Ahmadipour E, Alizadeh N, Sina M, Nosrat N, Jahani Z, Shiravand S, Hasanpour H, Genetic polymorphisms of serotonergic system proteins associate with familial form of obsessive compulsive disorder (OCD) and gender in Iranian patients with OCD, **Oral Presentation**, 5th Basic and Clinical Neuroscience Congress, Tehran, Iran.
2. 2016: Ahmadipour E, Rashidi FS, Draiean A, Shams J, Ahmadiani A, **Asadi S**, Different obsessive-compulsive disorder subtypes and severities showed similar serotonin transporter's SNPs (Rs25533 and I425V) genotypic frequencies despite the correlation of Rs25533 with OCD in Iranian population, **Poster Presentation**, 10th FENS Forum of Neuroscience, Copenhagen, Denmark.
3. 2016: Rashidi FS, Ahmadipour E, Draiean A, Shams J, Ahmadiani A, **Asadi S**, Four variants of 5-HTTLPR (14A, 14E, 16A and 16D) associate with obsessive-compulsive disorder in Iranian population, **Poster Presentation**, 10th FENS Forum of Neuroscience, Copenhagen, Denmark.
4. 2016: Ahmadipour E, Rashidi FS, Draiean A, Shams J, Ahmadiani A, **Asadi S**, Association of polymorphisms in serotonin transporter gene (SCL6A4) and obsessive compulsive disorder symptoms in Iranian patients, **Poster Presentation**, International behavioral and neural genetics society, Texas, USA.

5. 2016: Rashidi FS, Ahmadipour E, Draiean A, Shams J, Ahmadiani A, **Asadi S**, Genotyping serotonin transporter promoter polymorphisms in Iranian patients with obsessive-compulsive disorder (OCD), **Poster Presentation**, International behavioral and neural genetics society, Texas, USA.
6. 2014: **Asadi, S.**, Dehghan, S., Javan, M., Enhancing brain repair potential in kainic acid-degenerated hippocampus by pluripotency inducers, **Oral presentation**, The 37th Annual Meeting of the Japan Neuroscience Society, Yokohama, Japan.
7. 2013: **Asadi, S.**, Dehghan, S., Javan, M. Neurogenesis in kainic acid degenerated hippocampus following pluripotency inducers administration in mouse. **Oral presentation**, 21st International congress of Physiology and pharmacology, Tabriz, Iran.
8. 2012: **Asadi, S.**, Dehghan, S., Javan, M. Oct4 viral vector delivery to mouse brain can increase pluripotency markers' expression and valproic acid enhances its effect. **Poster presentation**, Joint Annual Scientific Meeting of the Hong Kong Society of Neurosciences and the Biophysical Society of Hong Kong, Hong Kong.
9. 2011: **Asadi, S.**, Dehghan, S., Javan, M., I.C.V injection of Oct4 vector can increase pluripotency markers' expression in lateral ventricle cells. **Oral presentation**, 1st annual conference on neural stem cells, Tehran, Iran.
10. 2011: **Asadi, S.**, Javan, M., Ahmadiani, A., Morphine administration increases the density of N-type voltage-dependent calcium channels and changes their splice variants expression pattern in rat hippocampus and lumbar spinal cord, **Poster presentation**, The 34th Annual Meeting of the Japan Neuroscience Society, Japan.
11. 2010: **Asadi S.**, Shaerzadeh F., Ansari N., Khodaghohi F., In vitro antioxidant activity of Salvia choleroleuca and its neuroprotective effect via inhibition of neuronal apoptosis, **Poster Presentation**, The 10th biennial meeting of the Asia-Pacific society for the neurochemistry (ASPN), Phuket, Thailand.
12. 2010: Shaerzadeh F., Ahmadiani A., Mohammad Ali Esmaeili M. A., Ansari N., **Asadi S.**, Khoramian Tusi S., Sonboli A., Ghahremanzamaneh M., Khodaghohi F., Investigation of neuroprotection and in vitro antioxidant activities of Salvia mirzayanii, **Poster presentation**, 14th International Biotechnology Symposium and Exhibition Biotechnology for the Sustainability of Human Society, Rimini, Italy.
13. 2010: Shaerzadeh F., Ahmadiani A., Mohammad Ali Esmaeili M. A., Ansari N., **Asadi S.**, Khoramian Tusi S., Sonboli A., Ghahremanzamaneh M.,

Khodaghali F., Investigation of neuroprotection and in vitro antioxidant activities of *Salvia sahendica*, **Poster presentation**, Honolulu, Hawaii.

14. 2006: **Asadi S.**, Absalan F., Gharaii N., Goodarzi H., Shafaghati Y., Karimi-Nejad M. H., Shahram F., Elahi E. Mutation in gene encoding RANK in Iranian familial expansile osteolysis pedigree. **Poster presentation**. European Human Genetics Conference (ESHG), Amsterdam, The Netherlands.

Teaching experiences:

- **Neurogenetics** for PhD students, Neuroscience Research Center, Shahid Beheshti University of Medical Sciences.
- **Methods in molecular biology** for PhD students, Neuroscience Research Center, Shahid Beheshti University of Medical Sciences.
- **Molecular biology** for PhD students, Pharmacology department, Shahid Beheshti University of Medical Sciences.
- **Molecular biology** for PhD students, Physiology department, Tarbiat Modares University.
- **Cell Physiology** for PhD students, Physiology department, Tarbiat Modares University.

Workshops and schools:

- **11/2013**: IBRO school of brain injury and regeneration, China.
- **06/2012**: IBRO advanced school of neuroscience, Hong Kong.
- **01/2007**: The workshop of recombinant protein production in *E.coli*, Maleke Ashtar University, Tehran, Iran.
- **05/2007**: WHO workshop, Pasteur institute, Tehran, Iran.

- **05/2006:** The workshop of An Introduction to Proteomics, National Research Center of Genetic Engineering and Biotechnology, Tehran, Iran.
- **05/2006:** The workshop of An Introduction to Gene gun, National Research Center of Genetic Engineering and Biotechnology, Tehran, Iran.
- **05/2006:** The workshop of An Introduction to Gene transformation to Agrobacterium Tumefaciens, National Research Center of Genetic Engineering and Biotechnology, Tehran, Iran.
- **05/2006:** The workshop of Gene Cloning, National Research Center of Genetic Engineering and Biotechnology, Tehran, Iran.

Executive Experiences:

- **2012-2016:** Secretary of student committee of Iranian neuroscience society.
- **2014:** Executive secretary of "Neuroscience for high school student" symposium, 3rd Basic and Clinical Neuroscience Congress, Tehran, Iran.
- **2003-2014:** Member of science education group, National Organization for Development of Exceptional Talents (NODET), Ministry of education.
- **2004-2012:** Foreperson of biology jury in NODET young investigator award competition, National Organization for Development of Exceptional Talents, Ministry of education.
- **2002-2012:** Tuition of biology at NODET guidance and high schools, Tehran, Iran.
- **2002-2011:** Tuition principles of writing at NODET guidance and high schools, Tehran, Iran.
- **2011:** Faculty member and organizer of biology tuition workshop for biology teachers of NODET schools, Semnan.
- **2010:** Faculty member and organizer of biology tuition workshop for biology teachers of NODET schools, Tehran.
- **2008:** Leader of water pollution project at Tebyan internet school.

Awards and Honors

- **2016:** The winner of Brain and Cognition Ahwazi Young Investigator Research Award, 2016, 5th Basic and Clinical Neuroscience Congress, Tehran, Iran.
- **2014:** IBRO-APRC Travel Grants to attend 37th Annual Meeting of the Japan Neuroscience Society (JNS), 2014, Yokohama, Japan.
- **2013:** International Brain Research Organization Award for participation in IBRO-APRC School: Injury and Regeneration of the Nervous System, Nantog, China.
- **2012:** International Brain Research Organization Award for participation in IBRO Advanced school of neuroscience, Hong Kong.
- **2011:** Tarbiat Modares award for the first rank
- **2006:** Azarbayjan University award for the second rank
- **2005:** University of Tehran award for the third rank
- **2003:** Selected by National Organization for Development of Exceptional Talents as one of the member of science committee of training and research

Skills

Laboratory skills:

- Molecular biology techniques: DNA and RNA extraction, PCR, PCR-RFLP, Real-time PCR, IHC, Western blotting, Cell culture, Exome sequencing, Biochemical analyses, Elisa.
- Histology techniques: IHC, H&E, Nissl staining
- Epigenetics: miRNA extraction, Primer design, miRNA quantification using Real-time PCR, DNA methylation
- Animal stereotaxic surgeries
- Animal Behavioral tests
- Bioinformatics and statistics, Classification methods, Factor analysis, Meta-analysis,
- Programming: Matlab