

Curriculum Vitae

First Name: Sareh

Last Name: Asadi

Date of Birth: 04/27/1983

h-index: 8

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Researchgate profile: https://www.researchgate.net/profile/Sareh_Asadi

Google scholar profile:

https://scholar.google.com/citations?hl=en&user=0I52ue4AAAAJ&view_op=list_works&gmla=AJsN-F7NDU-y5844u5ATxUOO2jvuSpxEcz9i1MvABVBtNTCepAmKoaL4YtPIHOA-jMU4bZEvkZxa4AEK1ZJ7HxEpsCb5QHI-woZxQ1MNPYw5BxELbXIZD_Q

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.* GPA:3.58/4.
- **2005–2008:** M.Sc student of Cell & Molecular Biology, National Research Center of Genetic Engineering and Biotechnology – Azarbaijan Shahid Madani 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.* GPA: 3.59/4.
- **2001-2005:** B.Sc student of Cell & Molecular Biology, University of Tehran, Tehran, Iran. GPA: 3.52/4.
- **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
- Japan Neuroscience Society
- Iranian Physiology and Pharmacology

Publications:

Research Papers

2021

1. Mardanpour M, Ghavidel N, Khodaghali F, **Asadi S**, *Paternal Stress in Rats Increased Oxytocin, Oxytocin Receptor, and Arginine Vasopressin Gene Expression in the Male Offspring Amygdala with no Effect on Their Social Interaction Behaviors*. Neuroreport, Accepted for publication. **(Corresponding author)**
2. **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*. Physiology and Pharmacology, Accepted for publication. **(Corresponding author)**
3. Salari M, **Asadi S**, Etemadifar M, Rezaee M, 2021, *Myoclonic dystonia (DYT11) responsive to Lacosamide: A case report*. Acta Neurologica Belgica, Online ahead of print.
4. Safiloo S, Mehrabi Y, **Asadi S**, Khodakarim S, 2021, *Response to Fluvoxamine in the Obsessive-Compulsive Disorder Patients: Bayesian Ordinal Quantile Regression*. Clinical Practice & Epidemiology in Mental Health, 17, 146-151.
5. Asadi E, Khodaghali F, **Asadi S**, Mohammadi Kamsorkh H, Kaveh N, Maleki A, **2021**, *Quality of early-life maternal care predicts empathy-like behavior in adult male rats: linking empathy to BDNF gene expression in associated brain regions*. Brain Research, 1767, 147568.
6. Safaeinejad F, **Asadi S**, Ghafghazi S, Niknejad H, **2021**, *The Synergistic Anti-Apoptosis Effects of Amniotic Epithelial Stem Cell Conditioned Medium and Ponesimod on Oligodendrocyte Cells*. Frontiers Pharmacology, 21, 691099.
7. Akbari A, Kheradmand A, Sina M, Ahmadiani A, **Asadi S**, **2021**, *OPRM1 and CYP3A4 association with methadone dose in Iranian patients undergoing methadone maintenance therapy*. Journal of Addictive Diseases. 39 (3), 357-362. **(Corresponding author)**
8. Valian N, Sorayya M, **Asadi S**, Sherafati F, Ershad A, Savaheli S, Ahmadiani A, **2021**, *Preconditioning by ultra-low dose of tramadol reduces the severity of tramadol-induced seizure: contribution of glutamate receptors*. Biomedicine and Pharmacotherapy, 133, 111031.
9. Khalifeh S, Khodaghali F, Zarrindast MR, Alizadeh R, **Asadi S**, Mohammadi Kamsorkh H, Nasehi M, Ghadami A, 2021, *Altered D2 receptor and transcription factor EB in offspring of aggressive male rats, along with having depressive and anxiety-like behaviors*. International Journal of Neuroscience, 131(8): 789-799.

2020

10. Ghavidel N, Khodagholi F, Ahmadiani A, Khosrowabadi R, **Asadi S**, Shams J, **2020**, *Inflammation but Not Programmed Cell Death Is Activated in Methamphetamine-Dependent Patients: Relevance to The Brain Function*. International Journal of Psychophysiology, 157, 42-50. **(Corresponding author)**
11. Alizadeh S; Zendehtdel R, **Asadi S**, Ranjbarian M, **2020**, Quality assessment of DNA and hemoglobin by Fourier transform infrared spectroscopy in occupational exposure to extremely low-frequency magnetic field. Environmental Science and Pollution Research. 27(36):45374-45380.
12. Abdolhossainzade S, Alizadeh N, Shams J, Asadi S, Ahmadiani A, **2020**, *BDNF association study with Obsessive-Compulsive Disorder, its clinical characteristics, and response to fluvoxamine-treatment in Iranian patients*. Experimental and Clinical Psychopharmacology, 28(2), 216–224. **(Corresponding author)**
13. Ghavidel N, Khodagholi F, Ahmadiani A, Khosrowabadi R, **Asadi S**, Shams J, **2020**, *Frontocingulate Dysfunction is Associated with Depression and Decreased Serum PON1 in Methamphetamine Dependant Patients*. Neuropsychiatric Disease and Treatment, 16: 489-499. **(Corresponding author)**
14. Moslemi M, Khodagholi F, **Asadi S**, Rafiei S, Motamedi F, **2020**, *Oxytocin protects against 3-NP induced learning and memory impairment in rats: sex differences in behavioral and molecular responses to the context of prenatal*, Behavioural Brain Research, 379: 112354.

2019

15. Hasanpour H, Ghavamizadeh Meibodi R, **Asadi S**, Navi K, **2019**, *Dealing with Mixed Data Types in the Obsessive-Compulsive Disorder Using Ensemble Classification*. Neurology, Psychiatry and Brain Research, 32:77-84. **(Corresponding author)**
16. Hasanpour H, Ghavamizadeh Meibodi R, **Asadi S**, Navi K, **2019**, *Fluvoxamine treatment response prediction in obsessive-compulsive disorder: association rule mining approach*. Neuropsychiatric disease and treatment, 15: 895-904. **(Corresponding author)**
17. Moslemi M, Motamedi F, **Asadi S**, Khodagholi F, **2019**, *Peroxisomal Malfunction Caused by Mitochondrial Toxin 3-NP: Protective Role of Oxytocin*, Iranian Journal of Pharmaceutical Research, 18:296-307.
18. Alizadeh N, Nosrat N, Jahani Z, Ahmadiani A, Shams J, **Asadi S**, **2019**, *Association of HTR1A gene polymorphisms with Obsessive-Compulsive Disorder: The influence of sex and clinical characteristics*, International Journal of Neuroscience, 129: 264-272. **(Corresponding author)**

19. Abdolhossainzade S, Sina M, Ahmadiani A, **Asadi S**, Shams J, **2019**, *Genetic and pharmacogenetic study of glutamate transporter (SLC1A1) in Iranian patients with obsessive-compulsive disorder*, Journal of clinical pharmacy and therapeutics, 44:39-48. **(Corresponding author)**

20. Alizadeh S, Zendehtdel R, **Asadi S**, Ranjbarian M, Mahmoodi Meymand M, Motevalian M, Hosseini A, **2019**, *Effect of Extremely Low Frequency Magnetic Field on the Quantity and Structure of Hemoglobin of Employees in Electricity Industry*, Pathobiology Research, 22 (1): 1-5.

2018

21. 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. **(Corresponding author)**

22. Ahmadipour E, Rashidi FS, Ahmadiani A, **Asadi S**, Shams J, **2018**, *SCL6A4 polymorphisms Rs25533 and I425V: Association with obsessive-compulsive disorder symptoms in Iranian patients*. Personalized Medicine in Psychiatry, 11-12: 23-29. **(Corresponding author)**

23. Hasanpour H, Ghavamizadeh Meibodi R, **Asadi S**, Navi K, **2018**, *Novel ensemble method for the prediction of response to fluvoxamine treatment of obsessive-compulsive disorder*. Neuropsychiatric disease and treatment, 14 2027–2038. **(Corresponding author)**

24. Sina M, Ahmadiani A, **Asadi S**, Shams J, **2018**, *Association of Serotonin Receptor 2a Haplotypes with Obsessive Compulsive Disorder and its Treatment Response in Iranian Patients: A Genetic and Pharmacogenetic Study*. Neuropsychiatric disease and treatment, 14, 1199-1209. **(Corresponding author)**

25. 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. **(Corresponding author)**

2017

26. 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.

2016

27. **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. **(First author)**

2015

28. Dehghan S, **Asadi S**, Hajikaram M, Soleimani M, Javad Mowla S, Fathollahi Y, Ahmadiani A, Javan M., **2015**, *Exogenous Oct4 in combination with valproic 1 acid increased neural progenitor markers: An approach for enhancing the repair potential of the brain*. *Life Science*. Feb 1; 122:108-15. **(Co-first author)**
29. **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. **(First author)**

2011

30. **Asadi S.**, Khodagholi 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. **(First author)**
31. Shaerzadeh F., Ahmadiani A., Esmaeili M. A., Ansari N., **Asadi S.**, Khoramian Tusi S., Sonboli A., Ghahremanzamaneh M., Khodagholi 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.

2010

32. **Asadi S.**, Ahmadiani A., Esmaeili M. A., Sonboli A., Ansari N., Khodagholi 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. **(First author)**

2009

33. **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. **(First author)**

2007

34. 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, 25:159-164.

Under review manuscripts

35. Khodagholi F, Maleki A, Mousavi M, Kaveh N, **Asadi S** *The experience of low maternal care during infancy enhances intelligence and spatial memory in adulthood. (Corresponding author)*
36. Choobdar H, Khodagholi F, **Asadi S**, *Studying the Association of Trait Optimism with Consumer Decision Making Styles: Effect of Optimism on The Decision-Making Process in Neuromarketing. (Corresponding author)*

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.*

Conference Presentations

1. 2019: **Asadi S**, Shams J, Ahmadiani A, Hasanpour H, *Treatment response prediction in obsessive-compulsive disorder: The application of data mining methods, **Oral Presentation*** , 24th Iranian Congress of Physiology and Pharmacology, Tehran, Iran.
2. 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.

3. 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.
4. 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.
5. 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.
6. 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.
7. 2015: **Asadi S**, Javan M, Neural Stem Cell Technology in Cognitive Science, **Oral presentation**, 6th international conference of cognitive science, Tehran, Iran.
8. 2014: **Asadi, S.**, Dehghan, S., Javan, M., Enhancing brain repair potential in kainic acid-degenerated hippocampus by pluripotency inducers, **Oral presentation**, 37th Annual Meeting of the Japan Neuroscience Society, Yokohama, Japan.
9. 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.
10. 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.
11. 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.
12. 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.

13. 2010: **Asadi S.**, Shaerzadeh F., Ansari N., Khodagholi 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.
14. 2010: Shaerzadeh F., Ahmadiani A., Mohammad Ali Esmaeili M. A., Ansari N., **Asadi S.**, Khoramian Tusi S., Sonboli A., Ghahremanzamaneh M., Khodagholi 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.
15. 2010: Shaerzadeh F., Ahmadiani A., Mohammad Ali Esmaeili M. A., Ansari N., **Asadi S.**, Khoramian Tusi S., Sonboli A., Ghahremanzamaneh M., Khodagholi F., Investigation of neuroprotection and in vitro antioxidant activities of *Salvia sahendica*, **Poster presentation**, Honolulu, Hawaii.
16. 2006: **Asadi S.**, Absalan F., Gharaii N., Goodarzi H., Shafaghatai 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

Laboratory skills:

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