

# Curriculum Vitae

## Mansoureh Sabzalizadeh

Assistant Professor of Neuroscience

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## Educational

### Ph.D

**Neuroscience** (2015- 2021)

Kerman University of Medical Sciences, Kerman, Iran.

**Thesis title:** The Evaluation of Mesenchymal Stem Cells Transplantation on Cognitive Impairments of Rat with Cortical Lesion (grade: 20/20).

### M.Sc

**Animal physiology** (2008-2010)

Islamic Azad University –Tehran North Branch, Tehran, Iran.

**Thesis title:** Effects of Cannabis Sativa Alcoholic and Aquatic Extract on Hippocampus Neuronal Density in Rats (grade: 19.9 /20).

## Technical Skills

- Behavioral experiments (Rat, mice)
  - Novel texture Recognition test, Acoustic startle reflex test, Open field test, Novel Object Recognition-dependent to visual system, Y maze test, social test, Conditioned place preference (CPP)
- Histological and Stereological Techniques
  - Perfusion, H&E and Nissl staining
- Cell culture
- Stem cell therapy
- Western Blotting
- MTT assay
- Electrophysiology
  - Single Cell Unit Recording
- Autism modeling in rat
- Blood sampling techniques
  - Blood sampling from tail and heart in rats
- Surgical techniques
  - Sciatic nerve injury
  - Brain mechanical lesion
  - Brain cold lesion
  - Lesion by electrical stimulation
  - Neuroscience

## Publications

### Journal papers

- **Sabzalizadeh M**, Afarinesh MR, Mafi F, Mosanejad E, Haghpanah T, Golshan F, Koohkan F, Ezzatabadipour M, Sheibani V. Alcohol and nicotine co-Administration during pregnancy and lactation periods alters sensory discrimination of adult NMRI mice offspring. *Physiology & behavior*. 2020.
- Shafiei F, Afarinesh M, Golshan F, Haghpanah T, **Sabzalizadeh M**, Zangiabadi I, Sheibani V. Comparison of Pre-pulse Inhibition, Tactile discrimination learning and barrel cortical neural response in adult male rats following chronic exposure to morphine, methadone and buprenorphine. *Physiology & behavior*. 2019.
- Afarinesh MR, Shafiei F, **Sabzalizadeh M**, Haghpanah T, Taheri M, Parsania S, Golshan F, Sheibani V. Effect of mild and chronic neonatal hypothyroidism on sensory information processing in a rodent model: A behavioral and electrophysiological study. *Brain research bulletin*. 2019.
- Tehranipour M. **Sabzalizadeh M**. Effects of *Cannabis sativa* alcoholic extract on hippocampus neuronal density in Rats. *Journal of Gorgan University of Medical Sciences*. 2012.
- **Sabzalizadeh M**, Tehranipour M, Khayatzaheh J. Effects of cannabis sativa aquatic extract on hippocampus neuronal density in rats. *The quarterly journal of animal physiology and development Zanzan University*. 2012.

- **Sabzalizadeh M**, Afarinesh M, EsmaeiliMahani S, Sheibani V. Focal unilateral mechanical lesion in barrel cortex impairs rat's abilities to discriminate textures. *Somatosensory & Motor Research*. 2021.
- **Sabzalizadeh M**, Afarinesh M, Esmaeili Mahani S, Farsinejad A, Derakhshani A, Arabzadeh E, Sheibani V. Transplantation of rat dental pulp stem cells facilitates post-lesion recovery in the somatosensory whisker cortex of male wistar rats. *Brain research bulletin*. 2021.
- Kakooei S, Afarinesh M, Parirokh M, Nikzad R, Mostafavi M, Nekouei A, **Sabzalizadeh M**, and Sheibani V. Effect of Administration of Lidocaine at Body Temperature on Anesthesia Success in Rodent Model: A Behavior and Electrophysiology Study. Accepted in Basic and Clinical Neuroscience.
- **Sabzalizadeh M**, Mollashahi M, Afarinesh M, Sheibani V. The effect of continuous environment enrichment on behavior alterations and neuron responses in rats exposed prenatally to VPA Has been submitted. Has been submitted.
- **Sabzalizadeh M**, Afarinesh M, Esmaeili Mahani S, Farsinejad A, Derakhshani A, Arabzadeh E, Sheibani V. The study of left barrel cortical sensory codings following transplantation of stem cells into right lesioned-barrel cortex in rats. Has been submitted.

## Presentations

- **Sabzalizadeh M**, Mollashahi M, Afarinesh M, Sheibani V. The Effect of Continuous Environment Enrichment on Behavior Alterations and Barrel Cortical Neuronal Responses in Rats Exposed Prenatally to Valproic Acid. 10<sup>th</sup> Basic and Clinical Neuroscience Congress. 2021, Tehran, Iran.
- **Sabzalizadeh M**, Afarinesh M, Farsinejad A, Derakhshani A, Arabzadeh E, Sheibani V. Mesenchymal stem cells therapy in the lesioned-rat barrel cortex for recovery of tactile dysfunctions. 3<sup>rd</sup> national festival and international congress on stem cell and regenerative medicine. 2020, Tehran, Iran.
- **Sabzalizadeh M**, Afarinesh khaki MR. Sheibani V, Mafi F, Ezatabadipour M, Haghpanah T, Mosanezhad E. The Effect of alcohol consumption during pregnancy and lactate on tactile discrimination and novel object recognition in Mice newborns. 2<sup>nd</sup> International Congress of Physiology and Pharmacology. 2018, Chabahar, Iran.
- Mafi A, Afarinesh khaki MR. Sheibani V, **Sabzalizadeh M**, Ezatabadipour M, Haghpanah T, Mosanezhad E. Differential effects of prenatal and early postnatal nicotine exposure on learning ability in mice: Novel object versus texture recognition task. 2<sup>nd</sup> International Congress of Physiology and Pharmacology. 2018, Chabahar, Iran.
- Javad mosavi Z, **Sabzalizadeh M**, Tehranipour M. Investigating the effect of *alcoholic extract cannabis sativa* Seeds on hippocampal and spinal neurons. 3<sup>rd</sup> NEUROSCIENCE Congress. 2014, Tehran, Iran.
- Javad mosavi Z, Tehranipour M, **Sabzalizadeh M**, Mollashahi M. The restorative and anti-inflammatory effects of aquatic extract of *cannabis sativa* leaves on spinal glial and alpha-neurons following central degeneration in rats. 17<sup>th</sup> national and 5<sup>th</sup> international Iranian biology conference. Shahid Bahonar University. 2012, kerman, Iran.
- Javad mosavi Z, Tehranipour M, **Sabzalizadeh M**, Mollashahi M. Effect of *aquatic extract cannabis sativa* leaves on spinal glial cells after sciatic nerve compression in Rats. 20<sup>th</sup> Iranian Congress of Physiology and Pharmacology. 2011. Hamedan, Iran.

- Mollashahi M, Tehranipour M, **Sabzalizadeh M**. Investigating the effect neuro protective of *alcoholic* and aquatic extract of pod *prosopis farcta* plant on neural density of alpha moto neurons spinal cord after sciatic nerve injury in rat. National Symposium of Neuroscience. 2011, Gorgan, Iran.
- Mollashahi M, Tehranipour M, Javad mosavi Z, **Sabzalizadeh M**. The effects of *prosopis farcta* plant pod alcoholic and aquatic extracts on neuroglia cells after sciatic nerve compression in rats. 20<sup>th</sup> Iranian congress of Physiology and Pharmacology. 2011, Hamedan, Iran.
- **Sabzalizadeh M**, Tehranipour M, Khayatzadeh J. Mollashahi M. Effecs of *cannabis sativa* aquatic extract on subiculum neuronal density in rats. National Symposium of Neuroscience. 2011, Gorgan, Iran.
- **Sabzalizadeh M**, Tehranipour M, Khayatzadeh J. Effects of *cannabis sativa* aquatic extract on neuronal density of different area of hippocampus in rats. 20<sup>th</sup> Iranian congress of Physiology and Pharmacology. 2011, Hamedan, Iran.
- **Sabzalizadeh M**, Tehranipour M, Khayatzadeh J. Effects of *cannabis sativa* aquatic extract on neuronal density of different area of hippocampus (CA1, CA2, CA3) in Rats. 3.<sup>rd</sup>. national Biology Congress. 2010, Garmsar, Iran.
- **Sabzalizadeh M**, Tehranipour M, Mollashahi M. Effects of *Cannabis sativa* alcoholic extract on subiculum neuronal density in Rats. The16<sup>th</sup> national and 4<sup>th</sup> international conference of biology. Ferdowsi University of Mashhad (FUM). 2010, Mashhad, Iran.

## Qualification

- Attending in the 2nd International Course on Laboratory Animal Science, Best Medical Academy. Tehran, Iran, 2022.
- Teach to participants of Workshop " Electrophysiyology (Single Unit Recording)" 3<sup>nd</sup> Iranian Congress of Physiology and Pharmacology Zahedan University of Medical Sciences. Kerman Neuroscience Research Center, Kerman University of Medical Sciences. Kerman, Iran, 2018.

- Lab Teacher in the *IBRO-APRC Kerman Associate School of Neuroscience*, Kerman Neuroscience Research Center, Kerman University of Medical Sciences. Kerman, Iran, 2017.
- Attending in the workshop of " Advanced research method (statistical test selection)" Kerman Neuroscience Research Center, Kerman University of Medical Sciences. Kerman, Iran, 2017.
- Attending in the workshop of " Advanced research method (Publication Ethics)" Kerman Neuroscience Research Center, Kerman University of Medical Sciences. Kerman, Iran, 2017.
- Attending in the 5th Basic and Clinical Neuroscience Congress, Iran University of Medical Sciences, Ministry of Health and Medical Education. Tehran, Iran, 2016.
- Attending in the *3rd Iranian Human Brain Mapping Congress*, University of Shahid Beheshti. Tehran, Iran, 2016.
- Attending in the workshop of “*Isolation of Mouse Embryonic Fibroblast and Culture of Mouse Embryonic Stem Cells*”, The First National Festival & International Congress on STEM CELL and REGENERATIVE MEDICINE. Tehran, Iran, 2016.
- Attending in the workshop of " Multy Disciplinary Knowledge“ Innovation Center of Kerman. Kerman, Iran, 2015.
- Attending in the workshop of " Advanced Excle" Kerman University of Medical Sciences. Kerman, Iran, 2015.
- Attending in the workshop of " Advanced Power Point" Kerman University of Medical Sciences. Kerman, Iran, 2015.

## **Computer Skills**

- Certification course of ICDL IN Center of Jahad University of Kerman, 12 July 2010-1 January 2011.Kerman, Iran.
- Certification course of Accounting at EXCEL IN Center of Jahad University of Kerman, 2009.Kerman, Iran.
- Image analysis software: image J 1.41 v.
- Statistical software: SPSS 20.0 v, GraphPad Prism.

## **Language skills**

- Persian (Mother Tongue)
- English (Fluently)

## **Memberships**

- Iranian Biology Society [www.ibs.org.ir](http://www.ibs.org.ir)