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Assistant professor of Neuroscience
Department of neuroscience, School of advanced technologies in medicine
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Summary of Qualifications

- Assistant professor of neuroscience
- Deputy of research, Brain and Spinal cord injury research center
- Director of neuroscience, International Neuroscience Institute, Brain and spinal cord injury research center (Iran)
- Member of governing council of Iranian Neuroscience Society (INSS)
- Treasurer in INSS
- Member of Department of psychiatric genetic and behavioral genetic (DPGBG)
- Associative Editor, Archives of Neuroscience journal
- Member of Editorial Board, Cellular and molecular epilepsy journal
- Member of Editorial Board, International clinical neuroscience journal
- Member of scientific council of Cellular and Molecular Research Institute
- Doctorate of Philosophy (PhD) in Neuroscience, cellular and molecular medicine
- Post-doctoral fellow in Neuroscience
- Scientific evaluator in Therapeutic device, Health Canada, Ottawa, Canada
- Head of Foreign Medical Graduate office, Ministry of health and education and treatment, Iran
- Consultant of Students Affair, Ministry of health and education and treatment, Iran
- Manager of Roozbeh dentistry clinic
- Member of research council, cellular and molecular research center, Iran University of Medical Sciences
- Member of research council, Iranian neuroscience research center, Imam Khomeini Hospital, TUMS
- Member of educational council of Department of Genomic psychiatry and Behavioral genetic, Roozbeh hospital, Tehran University of Medical Sciences, Tehran, Iran
- Doctor in medicine
- 15 years experience as a researcher/scientist
- 10 years experience as family physician
- One year experience as an anesthesiology resident
- One year of management experience as a hospital manager, and CEO of health network
- Member of medical council of Iran

- Proficient in Microsoft office, including Word, Excel, PowerPoint, Reference manager, Endnote, research and literature search
- Fluent in English and Persian

Awards

- Iranian Ministry of Health Scholarship 2000 – 2004
- CIHR competition (Canadian Institute of Health Research) golden nominee
Winnipeg, Canada 2004
- CCNP (Canadian College of Neuropsychopharmacology) Dewhurst Award
St. John's, Nfld., Canada 2005
- CCNP (Canadian College of Neuropsychopharmacology) Jock Cleghorn Prize
Banff, Alberta, Canada 2007

Publications and abstracts

- **Human Freud-2/CC2D1B: a novel repressor of post-synaptic 5-HT1A receptor expression**
Biol Psychiatry, Vol 66,p214 (2009)

Mahmoud R. Hadjighassem, Bernadetta Szewczyk, Craig Stockmeier, Mark C. Austin, and Paul R. Albert

- **Freud-2/CC2D1B mediates dual repression of the 5-HT1A receptor gene**
European Journal of Neuroscience, Vol. 33, pp. 214 (2011)

Mahmoud R. Hadjighassem and Paul R. Albert

- **Bumetanide reduces seizure frequency in patients with temporal lobe epilepsy**

Epilepsia, 54(1):e9–e12, 2013

Sanaz Eftekhari, M.D.; Jafar Mehvari Habibabadi ; Massoumeh Najafi Ziarani ; Seyed Sohrab Hashemi Fesharaki ; Marzieh Gharakhani ; Hossein Mostafavi; Mohammad Taghi Joghataei ; Nahid Beladimoghdam ; Elham Rahimian ; Mahmoudreza Hadjighassem

- **The effects of poly L-lactic acid nanofiber scaffold on mouse spermatogonial stem cell culture**

International Journal of Nanomedicine 2013:8 4563–4576

Neda Eslahi, Mahmoud Reza Hadjighassem, Mohammad Taghi Joghataei, Tooba Mirzapour, Mehrdad Bakhtiyari, Malak Shakeri, Vahid Pirhajati, Peymaneh Shirinbayan, Morteza Koruji

- **Cell Therapy in Parkinson's Disease**

Arch Neurosci. 2013 November; 1(2): 43–50.

Rafieh Alizadeh , Soraya Mehrabi , Mahmoudreza Hadjighassem

- **Selective β_2 adrenergic agonist increases Cx43 and miR-451 expression via cAMP-Epac**

MOLECULAR MEDICINE REPORTS 9: 2405-2410, 2014

Hossein mostafavi, mojtaba khaksarian, mohammad taghi joghataei, masoud soleimani, gholamreza hassanzadeh, sanaz etkfehri, mansooreh soleimani, kazem mousavizadeh, hajar estiri, sedighesadat ahmadi and mahmoud reza hadjighassem

- **Fluoxetine Upregulates Connexin 43 Expression in Astrocyte**

Basic and clinical neuroscience journal Winter 2014, Volume 5, Number 1

Hossein Mostafavi, Mojtaba Khaksarian, Mohammad Taghi Joghataei, Gholamreza Hassanzadeh3, Masoud Soleimani4, Sanaz Eftekhari1, Mansooreh Soleimani, Kazem Mousavizadeh2, Mahmoud Reza Hadjighassem

- **BDNF modifies hippocampal KCC2 and NKCC1 expression in a temporal lobe epilepsy model**

Acta Neurobiol Exp 2014, 74: 276–287

Sanaz Eftekhari1, Soraya Mehrabi , Mansooreh Soleimani , Gholamreza Hassanzadeh Amene Shahrokhi, Hossein Mostafavi, Parisa Hayat, Mahmood Barati , Hajar Mehdizadeh, Reza Rahmzadeh, Mahmoud Reza Hadjighassem, and Mohammad Taghi Joghataei

cAMP-Epac Pathway Stimulation Modulate Connexin-43 and MicroRNA-21 Expression in Glioma Cells

Basic and clinical neuroscience , Winter 2014, Volume 6, Number1 362-367

Hossein Mostafavi , Mojtaba Khaksarian , Mohammad Taghi Joghataei , Sadegh Yoosefee , Maryam Soleimannejad , Raheleh Gholamzadeh , Sanam Seifollahi Bahnamiri , Mahmoud Reza Hadjighassem

Oral consumption of α -linolenic acid increases serum BDNF levels in healthy adult humans

Hadjighassem et al. Nutrition Journal (2015) 14:20

Effects of Trpv1 on the Hippocampal Synaptic Plasticity in the Epileptic Rat Brain

SYNAPSE 69:375–383 (2015)

fatemeh saffarzadeh, mohammad j. eslamizade, tahereh ghadiri, sayed mostafa modarres mousavi, mahmoudreza hadjighassem, and ali gorji

- **Gender and age related changes in number of dopaminergic neurons in adult human olfactory bulb**

Journal of Chemical Neuroanatomy 69 (2015) 1–6

Rafieh Alizadeh, Gholamreza Hassanzadeh , Mansooreh Soleimani, Mohammad taghi Joghataei, Vahid Siavashi, Zhinoos Khorgami, Mahmoudreza Hadjighassem

- **A New Approach in Gene Therapy of Glioblastoma Multiforme: Human Olfactory Ensheathing Cells as a Novel Carrier for Suicide Gene Delivery**

Molecular Neurobiology DOI 10.1007, 2015

Mansooreh Hashemi, Ali Fallah, Hamid Reza Aghayan, Babak Arjmand, Nasrin Yazdani, Javad Verdi, Seyed Mohammad Ghodsi, Seyed Mojtaba Miri, Mahmoudreza Hadjighassem

- **Lipopolysaccharide preconditioning prevents acceleration of kindling epileptogenesis induced by traumatic brain injury**

Journal of Neuroimmunology 289 (2015) 143–151

Mansoureh Eslami, Mohammad Sayyah, Mansoureh Soleimani, Leila Alizadeh, Mahmoudreza Hadjighassem,

- **Efficacy of Human Adipose Tissue-Derived Stem Cells on Neonatal Bilirubin Encephalopathy in Rat**

Neurotoxicity Research DOI 10.1007, 2016

Naser Amini, Nasim Vosooghi, Mahmoudreza Hadjighassem, Mehrdad Bakhtiyari, Neda Mousavi, Hosein Safakheil, Leila Jafari, Arash Sarveazad, Abazar Yari, Sara Ramezani, Faezeh Faghihi, Mohammad Taghi Joghataei

- **TRPV1 RECEPTORS AUGMENT BASAL SYNAPTIC TRANSMISSION IN CA1 AND CA3 PYRAMIDAL NEURONS IN EPILEPSY**

Neuroscience 314 (2016) 170–178

F. Saffarzadeh, M. J. Eslamizade, S. M. M. Mousavi, S. B. Abraki, M. R. Hadjighassem* A. Gorji

- **Association between Neuregulin-1 Gene Variant (rs2439272) and Schizophrenia and its Negative Symptoms in an Iranian Population**

Iran J Psychiatry 2016; 11:3: 147-153

Abstracts

- **The role of intracellular Chloride homeostasis in pathogenesis of TLE**

WFNS 2016(world federation of neurosurgery society)

- **Gene Therapy of Glioblastoma Multiforme**

WFNS(world federation of neurosurgery society) 2016-April17-22

- **Computational in psychiatry and neuroscience**

33rd congress of Iranian Psychiatry Association-2016

- **Neuropsychopharmacogenetics**

33rd congress of Iranian Psychiatry Association-2016

- **Biomarkers in psychiatric disorders**

Basic and Clinical Neuroscience congress- 2014

- **Epigenetic in psychiatric disorders**

Basic and Clinical Neuroscience congress- 2014

Research of interest

- Neurodegenerative disorders (Temporal lobe epilepsy, stroke, spinal cord injury)
- Gene therapy (Glioblastoma)
- Neuropsychiatry (genetics, psychopharmacogenetics)

Work Experience

Research experience

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| Deputy of research Brain and spinal cord injury research center, Imam khomeini hospital, Tehran, Iran | 2014-present |
| Assistant professor of Neuroscience School of advanced medical technologies, Tehran University of Medical Sciences | 2009-present |
| Scientific evaluator Health Canada, Therapeutic Products Directorate (TPD), Ottawa, ON, Canada | 2008-2009 |
| • Postdoctoral fellowship Neuroscience Research Institute (OHRI), Ottawa, Ontario, Canada | 2008-2009 |

Gained in-depth knowledge in biology, cellular and molecular medicine, signal transduction, mechanism of action of drugs, psychiatric disorders, proposal writing transcriptional regulation, Primer design, PCR, cloning, yeast one-hybrid assay, x-gal assay, EMSA, mammalian cell culturing and transfection, reporter assay, western blot, knocking down the target protein, genetic engineering, sequencing, immunoprecipitation assay, immunohistochemistry technique, siRNA, Northern blot assay, antibody design and purification, antibody design, proteomic, cell biology, RT-PCR, ChIP Assay.

Medical practice

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| <i>Family and Forensic Doctor</i> Bandar abbas and Lengheh, Iran | 1990 – 1992 |
| <i>CEO of Health Network</i> Bandar Lengheh, Iran | 1991 – 1992 |

Anesthesiology Residency 1993 –1993

Taleghany General Hospital, Tehran
Completed one year residency in Anesthesiology.

Family Physician, Private Practice 1994 - 1996

Tehran, Iran

Emergency Physician 1996 - 1999

Day General Hospital, Tehran (private hospital)

On-Call Hospital Manager 1998 - 1999

Day General Hospital, Tehran

Teaching Experience

Assistant professor 2009-present

Tehran University of Medical Sciences, Faculty of Medicine

Teaching assistant 2005 - 2009

University of Ottawa, Faculty of Medicine, Ottawa, Canada

Substitute professor 2006 – 2007

University of Ottawa, Faculty of Medicine, Ottawa, Canada

Gross human anatomy laboratories demonstrator 2000-2007

University of Ottawa, Department of Anatomy, Faculty of Medicine, Ottawa, Canada

Case problem learning(CBL)/Problem base learning Tutorial 2001-2009

University of Ottawa, Faculty of Medicine , Ottawa, Canada

Education

Post doctoral fellow, 2008-2009
University of Ottawa, Canada,

Doctor of Philosophy (Ph.D.), Neuroscience 2001 -2008

University of Ottawa, aculty of Medicine, Ottawa, Ontario, Canada
Neuroscience Research Institute (OHRI), Ottawa, Ontario, Canada

Doctor of Medicine (M.D.), Medicine 1990

University of Shahid Beheshty, Faculty of Medicine, Tehran, Iran

MCCE certificate - Medical Council of Canada Evaluation

2001

Medical license from Iranian medical Council

1990-present