

# Mohammad Hossein Heidari

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## Professor



Biology and anatomical sciences department ,faculty of medicine ,Shahid Beheshti medical sciences University , Tehran ,IRAN

## Professional Achievements

**Completed Ph.D.** in Anatomical Sciences minoring in Embryology  
Faculty of Medicine, Mashhad University of Medical Sciences, Iran

## Skills

### Research

**Research** on brain - School of Medicine, Monash University  
; extensive research including supervision of researchers in  
anatomy and cell and molecular biology

### Teaching/Academic

anatomical and embryology units (theory and practical on  
cadaver) to medical and paramedical students and post  
graduate students applied and sectional anatomy and neuro  
anatomy to master students of imaging and radiology and ph.D  
student of anatomical sciences

### Laboratory

Electron microscope (TEM, SEM); 2D Gel electrophoresis PCR; Real  
time PCR; Brain and Spinal cord Histology Technique; Applied clinical  
neuroanatomy; Sectional anatomy and MRI techniques ,Non invasive  
Brain stimulation

## Education

- Ph.D. in Anatomical Sciences, Minor Embryology, Faculty of Medicine Mashhad University of Medical Sciences, Iran
- Master Degree in Anatomical Sciences (scholarship), Faculty of University of Medical Sciences,
- Bachelor of Physiotherapy, Faculty of Rehabilitation Shiraz University of Medical Sciences, Iran

## Research Experience & projects

- Effects of site specific a-tDCS on Mirror box Training on healthy individuals
- Study of neural cells differentiation from mouse embryonic cells
- Proteomics study of spinocerebellar ataxia
- Investigation of 5aza cytidine effect on differentiation of mouse
- mesenchymal stem cell
- Prostatin as a biomarker for ovarian cancer detection at early stages

## Researched brain cell recovery following a stroke

## Employment history

- **Academic staff and professor** of anatomy and neuroanatomy
- **Ward Researcher** in the proteomics Research Centre *Shahid Beheshti University of Medical Sciences, Iran*

- **Academic staff and Senior lecturer** of anatomy and neuroanatomy *Bushehr University of Medical Sciences, Bushehr Province, Iran*
- **Academic staff and Senior lecturer** of anatomy and neuroanatomy
- **Head of anatomical department** *Fasa University of Medical Sciences, Fasa, Iran*

Teaching anatomy and neuroanatomy to medical and paramedical students and post graduate (ph.D;Msc). Advisor to some medical students on their theses in the field of anatomy and neuroanatomy. School of medicine, Beheshti medical sciences university

## Professional development and further training

- Training –TMS &anodal tdc
- Training - PCR and real time at Shahid Beheshti University of Medical Sciences, Tehran, Iran
- Training – Medical Journalism program at Shiraz University of Medical Sciences, Shiraz, Iran
- Stem cell project, Tohoku University, Japan
- Training - Proteomics sciences at Shahid Beheshti University of Medical Sciences, Proteomics Research Centre, Tehran, Iran
- Training - electron microscope (TEM, SEM) at Shahid Beheshti University of Medical Sciences, Tehran, Iran

## Books

- Artificial neural networks ISBN 978-964-b131-09-5 (2010)
- Stem cell ISBN 978-600-5907-00-3 (2011)  
Sectional anatomy for medical students  
Head and neck' Trunk ;Extrimities

## Publications

- Novel materials to enhance corneal epithelial cell migration on keratoprosthesis. Br.j.ophtalmology (2010)
- Diode laser 810nm as a potential treatment to improve visual function in (NATION), Iranian J. of medical hypothesis (2011)
- Stress perimetry: an alternative for early detection of open angle Glaucoma ,Iranian J. of medical hypothesis (2011)
- Evaluation of pluripotency Gene expression in mouse embryonic stem cell J.paramedical sciences (JPS) (2010) Vol 1 No:2
- The effect of Diabetes on induced pain of formalin and Baclofen Analgesia in rats J.paramedical sciences (JPS) (2010)
- Introduction aldolase C as a differentiation biomarker: A proteomics approach jps (2009)
- The efficacy of implant of octacalcium phosphate on bone Regeneration in skull defects, IJMS, Iranian journal of medical sciences (2004)
- Brain-Derived neurotrophic factor as a Biomarker in primary open angle Glaucoma, Optometry and vision science (2010)
- Histological study of the toxic effects of solder fumes on spermatogenesis in rats, Cell journal, (Vol13, No 1, 2011)
- Quality of life of the patient with chronic kidney disease in IRAN ,INDIAN journal of palliative care (2017)
- Gene expression analysis of high-grade dysplasia ,Gastroenterology and hepatology journal (supplementary 2018)
- Evaluation of progesterone receptor. FKBP51 AND FKBP52 in endometrial tissue of women with repeated implantation failure (General Endocrinology 2014 )
- PROTEIN –PROTEIN interaction network of CELIAC disease (Gastroenterology and hepatology 2016)
- Quality of life of the patient with chronic kidney disease in IRAN ,INDIAN (journal of palliative care (2017)
- Oral squamous cell cancer protein –protein interaction network interpretation in comparison to esophageal adenocarcinoma (gastroenterology and Hepatology 2017)
- Gene expression analysis of high-grade dysplasia ,Gastroenterology and hepatology journal (supplementary 2018)
- In vitro maturation of human oocytes using culture in alginate matrix (men,s health journal 2018)
- Celiac disease microarray analysis based on System BIOLOGY APPROACH (Gastroenterology and Hepatology 2018)
- Comparison between three-dimensional diffusion –weighted PSIF technique and routine Imaging Sequences in Evaluation of peripheral nerves in healthy people (Basic and clinical NEUROSCIENCE 2018)

- Gene expression analysis of colon high-grade dysplasia revealed new molecular mechanism of disease (Gastroenterology and hepatology 2018)
- Radiation therapy in patients with brain cancer :post –proteomics interpretation (j lasersmed sci 2019)
- Increasing of post- freezing quality of spermatogonial stem cells after pretreatment by vitamin E (Men health journal 2019)
- Light at night exposure effects on differentiation and cell cycle in the rat liver (J Laser Med Sci 2019)
- Clinical significance of Diffusion weighted magnetic resonance imaging on treatment in MS patients (Basic and clinical neuroscience j .2019 )
- Neuroprotective properties of photobiomodulation in retinal regeneration in Rats ( j lasers Med Sci 2020)
- Assessment of Saffron Neuroprotective properties in Rat Retina versus light damage ( Research j. of pharmacognosy 2020)
- Evaluation of anticancer and neuroprotective properties of curcumin :a network analysis (research journal of Pharmacognosy 2020 )
- Assessment of the Microbiome role in skin protection against UV IRRADIATION (J LASERS Med Sci 2020)
- Assessment of laser Effects on skin Rejuvenation (j Lasers Med Sci 2020)
- Weak anti-inflammatory and anti-cancer properties of Saffron (research journal of pharmacognosy 2020)
- Lectin Histochemical Detection of N-Acetyl Glucosamine and L-Fucose containing glycoconjugate in Lung carcinoma (Gene cell tissue 2020)
- Highlighted role of ;IL17 signaling pathway ;in gastro esophageal reflux disease (Gastroenterology and hepatology 2020)
- Effects of 2.45 GHz non –ionizing Radiation on Anxiety- like Behavior ,Gene Expression, and corticosterone level in male Rats (J LasersMed Sci 2022)

## **Membership:**

Member of Iranian proteomics society  
 Member of anatomical sciences society  
 Member of physiotherapy society  
 Member of research council of proteomics research center  
 Member of research council of Men's health research center

**Languages:** English, , Arabic(elementary)

## **Interests and hobbies**

- To continue research in the field of neuroscience in particular in Brain Neuroplasticity
- To work more closely with aspiring students and use my knowledge to improve their ability to reach their goals
- Participating in relevant medical conferences and congresses to develop and update my knowledge
- Searching websites to find the newest methods of teaching anatomy
- Mountain climbing, basketball, badminton, swimming
- Reading books