

**Farshad Homayouni Moghadam**  
**PhD of Physiology**  
**E-mail: f\_homayounim@yahoo.com**  
**Born on 29.6.1976 in Tehran**



**Assistant Professor in Department of  
Physiology/Medical Faculty/  
Shahid Sadoughi Yazd University of Medical Sciences/Yazd/Iran**

### **Educational Background**

**✚ PhD of Medical Physiology, Isfahan University of Medical Sciences, 2003-2008, Grade: A, Thesis entitled “cholinergic induction of neural stem cells derived from mouse embryonic stem cells”.**

**✚ MSc, Medical Physiology, Tabriz University of Medical Sciences, 2000-2002 Grade: A, Thesis entitled "Effect alpha-2 adrenergic blokadge on leptin secretion, body weight and plasma glucose levels in diabetic rats".**

**✚ Bachelor’s degree in Nursing, Shahid Beheshti University of Medical Science, Tehran, Iran, 1995-1999, Grade: 3.5/4.**

### **Research experiences**

- Research Assistant- Drug Applied Research Center, alpha-2 adrenergic and diabetes.**
- Research Assistant- Isfahan Royan Institute, Nerve cell culture and neural transplantation.**

- Research assistant in CRYSTAL project (cryopreservation of human embryonic stem cells), Department of Neurophysiology, Medical University of Cologne, Cologne, Germany, 2007-2008.

## **Teaching Experiences**

- Teaching assistant- Tabriz University of medical sciences, Faculty of Medicine, Physiology Dept.
- Teaching assistant- Isfahan University of medical sciences, Faculty of Medicine Physiology Dept.
- Teaching assistant- Payam Noor University in Isfahan.

## **Articles and Abstracts**

- Cholinergic differentiation of mouse embryonic stem cells. 7<sup>TH</sup> Royan congress, September 2006, lecture.
- Cholinergic Differentiation of neural precursor cells derived from mouse embryonic stem cells. Journal of Physiology & Pharmacology, 2007.
- Alpha 2 adrenergic antagonist Yohimbine increases leptin secretion in diabetic rats, Acta Medica Iranica, 2006.
- Effect of insulin on leptin plasma levels of diabetic and normal rats, Journal of Tabriz school of medicine, 2003, in persian.
- Differentiation of cholinergic neurons from mouse embryonic stem cells and their transplantation in rat model of Alzheimer's disease, Differentiation, under publish.

## **Language Skills**

- English (complementary)

## **Research interests**

- **Neural cell culture, cholinergic induction**
- **Neural cell transplantation**
- **Cardiomyocyte differentiation**
- **Cell based therapies**

## **Research skills**

- **General skills as a researcher in physiology**
- **Basic techniques in molecular biology and biomedicine**
- **Cell culture**
- **Embryonic stem cell derivation**
- **Immunostaining techniques**
- **Immunoassay and FACS**
- **Stereotaxy and brain microsurgery**
- **RT-PCR**

## **Computer skills**

- **Windows, Word, Excel, Power point, SPSS, Image J**