

# Curriculum Vitae

## **A-Personal information:**

**Name:** Mehdi , **Surname:** Kadivar

**Gender:** Male

**Nationality:** Iranian , **Date of Birth :**September,16/1975

**Birth place:** Fasa

**Marital status:** married

**Academic degree:** Assistant professor, Ph.D

**Work place:** Dept. of biochemistry, Pasteur institute of Iran , number 69, pasteur st. ,  
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## **B-Experiences:**

### **Teaching Experiences:**

*Biotechnology & Genetics* for undergraduated Biology students in Tarbiat moalem university(2002 & 2003).

*Advanced Biochemistry(Tissue engineering)* for the Ph.D students in pasteur institute of iran (2006-2008).

*Protein Chemistry(Amino acids)* for the Ph.D students in pasteur institute of iran (2008-2009).

*Advanced genetic engineering (Stem cells)* for the Ph.D students in pasteur institute of iran (2008-2009).

*Advanced molecular biology (Molecular buiology of the cancers)* for the Ph.D students in pasteur institute of iran (2008-2009).

*Cellular and molecular biology (cell cycle)* for the Ph.D students in pasteur institute of iran (2008-2009).

### **Research Experiences:**

**Molecular biology Techniques:** Cloning and Sub-cloning, mini-prep & maxi-prep plasmid extraction, RT-PCR, mamalian cell & bacterial expression, site-directed

mutagenesis, sequencing, library construction, Transfection, Electroporation, Hybridization and molecular evolution.

**Protein Structure & Function:** Chromatography, Electrophoresis, Western Blot, Protein purification, Enzyme evolution, Fermentation.

**Cell Biology:** Cell culture, Stem Cell Isolation, Stem cell Differentiation, Optic & Microscopic Techniques

**Immunology:** Flowcytometry, Immunocytochemical Methods, ELISA, FISH and etc.

### **C- Education:**

**2001-2005**

**Pasteur institute of Iran**

Ph.D in Medical Biotechnology

**1999-2001**

**Tarbiat Modarres University , Tehran-Iran**

M.Sc in molecular genetics

**1995-1999**

**Ferdowsi University of Mashhad , Mashhad , Iran**

B.Sc in Biology

### **D- Papers presented in conferences:**

1- **Kadivar M**, Sadeghizadeh M. Analysis of VZV ORF 63: The significant of C-terminal and N-terminal in regulation of ORF 62, **5<sup>th</sup> Biophysical chemistry Seminar, Kerman,6-8 june 2001.**

2- **Kadivar M**, Sadeghizadeh M. Molecular studing of function of VZV ORF 29 on the VZV latency, **1<sup>st</sup> Iranian congress on applied biology,Mashhad .6-7 Feb 2001.**

3- **Kadivar M**, Sadeghizadeh M. Construction of recombinant plasmids for a DNA vaccine against Hepatitis B and studing of their in vitro and in vivo efficiencies, **2<sup>nd</sup> National Biotechnology Congress,karaj 9-11 october 2001.**

4- **Kadivar M**, kargar S, Nazem H, Fard-esfahani P. Evaluation of mesenchymal stem cells homing in bone marrow after transplantation in healthy and irradiated rats by PCR technique., **10<sup>th</sup> Iranian Genetics Congress, Tehran 21-23 May 2008.**

- 5- **Kadivar M**, Darvishi M. Isolation, culture and characterization of human synovium derived mesenchymal stem cells., **10<sup>th</sup> Iranian Genetics Congress, Tehran 21-23 May 2008.**
- 6- **Kadivar M**, Forghani N, Yagmaei P, Ghazizadeh L. The study of supporting role of rat mesenchymal stem cells in isolation and culture of mouse embryonic stem cells. **The 1<sup>st</sup> national conference of student Biology and Modern World, Gorgan 16-17 October 2008.**
- 7- **Kadivar M**, Ghazi zadeh L, Kargar S, Shokrgozar MA. Evaluation of human umbilical cord blood-derived mononuclear stem cells homing in healthy and irradiated rat's bone marrow by PCR. **The 2<sup>nd</sup> international student conference of Biotechnology, Tehran 15-17 November 2008.**
- 8- Farahmandfar M, Karimian SM, Naghdi N, Zarrindast MR, **Kadivar M**. The effect of morphine sensitization on reversal of morphine-induced spatial memory impairment in rats. **19<sup>th</sup> Iranian congress of Physiology and Pharmacology, Tehran, 3-6 November 2009.**

#### **E- Selected Publication:**

1. **Kadivar, M.**, Khatami, S., Mortazavi, Y., Soleimani, M., Taghikhani, M., Shokrgozar, M.A. (2005). Isolation, culture and characterization of postnatal human umbilical vein-derived mesenchymal stem cells. *DARU* 13, 170-176.
2. **Kadivar, M.**, Khatami, S., Mortazavi, Y., Taghikhani, M., Shokrgozar, M.A. (2006). Multilineage differentiation activity by the human umbilical vein-derived mesenchymal stem cells. *Iranian Biomed. J.* 175-184.
3. **Kadivar, M.**, Khatami, S., Mortazavi, Y., Shokrgozar, M.A., Taghikhani, M., Soleimani, M. (2006). In vitro cardiomyogenic potential of human umbilical vein- derived mesenchymal stem cells. *Biochem. Biophys. Res. Comm.* 340, 639-647.
4. **Kadivar, M.**, Kargar, S., Nazem, H. (2008). Evaluation of Mesenchymal stem cells homing in bone marrow after transplantation in healthy and irradiated rats by PCR technique. *Yakhteh*. Vol 10, supplement 1, 87.

5. **Kadivar, M.**, Darvishi, M., Salehi Moghadam, M. (2009). Isolation, culture and characterization of human synovium derived mesenchymal stem cells. *Yakhteh*. Vol 11 (2), 160-167.
6. **Kadivar, M.**, Piryaeei, F., Ramezani, M. (2009). Isolation, culture and differentiation of chicken bone marrow mesenchymal stem cells. *Armaghane Danesh*. Vol 14 (4), 1-11.
7. **Kadivar, M.**, Memari, N., Parivar, K, Fard-Esfahani, P. (2009). Insulin-producing cells can be achieved in vitro by direct transfection of mouse pdx-1 into rat mesenchymal stem cells. *Toxicology Letters*. Vol 189 (supplement 1), s61.
8. Forghani, N., **Kadivar, M.**, Yagmaei, P., Kargar, S, Ghazizadeh, L. (2009). Effects of rat mesenchymal stem cells as a feeder layer in isolation and culture of mouse embryonic stem cells. *Journal of Semnan University of Medical Sciences*. Vol 10 (3), 161-169.
9. Farahmandfar, M., Karimian, M., Naghdi, N., Zarrindast, M.R., **Kadivar, M.** (2010). Morphine-induced impairment of spatial memory acquisition reversed by morphine sensitization in rats. *Behavioural Brain Research*. Vol 211, 156-163.
10. **Kadivar, M.**, Memari, N., Fard-Esfahani, P. (2010). Optimization and comparison of polyfect gene delivery method in three different kinds of mesenchymal stem cells. *Yakhteh*. (in publish).
11. **Kadivar, M.**, Kargar, S., (2010). Implantation of systemically infused mesenchymal stem cells in rat's bone. *Feyz, Journal of kashan university of medical sciences*. Vol 14, 92-98.
12. **Kadivar, M.**, Piryaeei, F., Ramezani, M. (2010). Comparison of the differentiation potential of human mesenchymal stem cells and several

animal species. *Journal of Semnan University of Medical Sciences*. Vol 11(4): 270-279.

13. **Kadivar, M.**, Ghazi zadeh, L., The study of graft possibility of human umbilical cord blood mononuclear cells into irradiated rat's bone marrow. *Journal of Semnan University of Medical Sciences*. (in publish).
14. Farahmandfar, M., Karimian, M., Naghdi, N., Zarrindast, M.R., **Kadivar, M.** (2010). Morphine-induced impairment of spatial memory acquisition reversed by morphine sensitization in rats. *Behavioural Brain Research*. Vol 211, 156-163.
15. Farahmandfar, M., Karimian, M., Naghdi, N., Zarrindast, M.R., **Kadivar, M.** (2010). Morphine sensitization reversed Morphine-induced impairment of spatial memory in rats. (submitted).
16. Farahmandfar, M., Karimian, M., Naghdi, N., Zarrindast, M.R., **Kadivar, M.** (2010). The effect of morphine sensitization on extracellular level of glutamate in the hippocampal CA1 area in rats. (submitted).
17. **Kadivar, M.**, Ghazi zadeh, L., Regeneration of blood cells after co-transplantation of mesenchymal and hematopoietic stem cells in gamma irradiated rats. (submitted).
18. **Kadivar, M.**, Alijani, N. Effect of hypoxia treatment on implantation of mesenchymal stem cells in rat's bone marrow (submitted).
19. **Kadivar, M.**, Farahmandfar, M., Naghdi, N. The effect of morphine sensitization on expression of Hippocampal Ca<sup>2+</sup>/Calmodulin-Dependent Protein Kinase II (submitted).

20. **Kadivar, M.**, Alijani, N., Effect of Hypoxia on CXCR4 Gene Expression in C57 Mouse Bone Marrow\_Derived Mesenchymal Stem Cells (submitted).
21. **Kadivar, M.**, Rostami, M., Cox-2 -765G>C gene polymorphism is associated with gastric adenocarcinoma in Iranian patients. (submitted).
22. **Kadivar, M.**, Fard-Esfahani, P. (2010). Rat mesenchymal stem cells can be trans-differentiated into islet-like cells with lipofection mediated gene transfer of *pdx-1*. (submitted).
23. **Kadivar, M.**, Farahmandfar, M., Naghdi, N., (2010). Morphine sensitization changes the extracellular concentrations of GABA in the hippocampal CA1 area in rats. (submitted).

