

**In the name of Allah; the Beneficent, the Merciful**

**Curriculum Vitae**

**Kazem Sharifi MD. PhD.**

**Assistant Professor**

**Department of Biotechnology and Molecular Medicine**

**Faculty of Advanced Technologies**

**Shahid Beheshti University of Medical Sciences**



**EDUCATION**

- 2014      PhD in Molecular and Cellular Medicine, Yamaguchi University Graduate School of Medicine, Department of system control medicine / organ anatomy, Yamaguchi, Japan
- 2003      Medical Doctor, Tehran University of Medical Sciences, Tehran, Iran
- 1994      High school Diploma, National Organization for Development of Exceptional Talents, Allameh Helli high school, Tehran, Iran

**RESEARCH ACTIVITIES and INTERESTS**

**Fields of interest:** Molecular and cellular medicine; stem cell biology, cell therapy and regenerative medicine, cancer biology, tissue engineering

**Research Area:**

- Human cell based *in vitro* organ and disease modeling as platforms for food safety, drug toxicity testing, drug discovery, and personalized medicine
- RNA based therapeutics

**Past research activity:** Study on the expression and roles of Fatty acid binding proteins (FABPs) and their ligands (FAs) in macroglia and their involvement in brain regenerative programs including reactive astrogliosis and oligodendrogenesis as well as their

association with pathophysiology of CNS diseases including neuropsychiatric disorders, traumatic and demyelinating injuries, and glioma.

**PhD Thesis title:** Expression and biological roles of FABPs in macroglia: implications for molecular and regenerative medicine

**MD Thesis title:** A situation analysis study on educational resources used by undergraduate medical students in medical faculty of Tehran University of medical science (TUMS) between 1995 and 2000 and designing a model for reform in educational resources through development of Study Guides

## PROFESSIONAL MEMBERSHIP

2017-present	Iranian Association of Molecular Medicine, <i>Member</i>
2012-2018	International Society for Stem Cell Research ( <b>ISSCR</b> ), <i>Member</i>
2011-2014	Japan Neuroscience Society ( <b>JNS</b> ), <i>Member</i>
2011-2014	Molecular Biology Society of Japan ( <b>MBSJ</b> ), <i>Member</i>
2011-2012	Japanese Association of Anatomists, <i>Member</i>
2003-present	Iranian medical council, <i>Life member</i>

## AWARDS AND HONORS

2014	President award, Yamaguchi University, for the highest achievements during PhD course in graduate school of medicine
2009	Japanese Government Scholarship (Monbukagakusho) for PhD program
2000	Avicenna festival award, Tehran University of medical sciences, for contribution in writing "Medical Physiology Textbook of Tehran University"
1994	10 <sup>th</sup> position in annual Iranian universities' Admittance examination among 300,000 students in Experimental sciences group
1987-1994	Student in National Organization for Development of Exceptional Talents, Allameh Helli junior highschool and high school, Tehran- Iran

## SELECTED PROFESSIONAL EXPERIENCES

2016- present	<b>Shahid Beheshti University</b> of Medical Sciences, Faculty of Advanced Technologies, Department of Biotechnology and Molecular Medicine, <i>assistant professor</i> , Tehran, Iran
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- 2017-2018 **Iranian Red Crescent Society**, *vice president for education, research and technology*, Tehran, Iran
- 2017-2018 **Iranian red crescent higher education institute**, *president*, Tehran, Iran
- 2017-present **Shahid Beheshti University** of Medical Sciences Faculty of advanced technology, *Member* of Research committee
- 2016-2019 Journal of Regeneration, Reconstruction, & Restoration, Editorial board *member*
- 2017-present **Shahid Beheshti University** of Medical Sciences, Anesthesiology Research Center, Board of directors *member*
- 2016-present Journal of Cellular & Molecular Anesthesia, Editorial board *member*
- 2015 -present **Shahid Beheshti University** of Medical Sciences, *President's Advisor*, Tehran, Iran
- 2014-2015 **Shahid Beheshti University** of Medical Sciences, *deputy director of President's office*, Tehran, Iran
- 2010 -2014 **Yamaguchi University** Graduate School of Medicine, *PhD student (molecular and cellular medicine)*, Department of system control medicine/ organ anatomy, Yamaguchi, Japan
- 2009 – 2010 **Yamaguchi University** Graduate School of Medicine, *Research student* Department of system control medicine/ Organ Anatomy, Yamaguchi, Japan
- 2008 – 2009 **Shahid Beheshti University** of Medical Sciences, *President's Advisor*, Tehran, Iran
- 2006 – 2009 **Shahid Beheshti University** of Medical Sciences, Treatment Department, *R&D director*, Tehran, Iran
- 2008 – 2009 **Shahid Beheshti University** of Medical Sciences, Clinical Excellence Center, *Director*, Tehran, Iran
- 2005 – 2009 **Iranian Medical Council**, *President's advisor*, Tehran, Iran

2005 – 2006                    **Iranian Medical Council**, Department of education, *director*,  
Tehran, Iran

2002– 2005                    **Iranian Legal Medicine Organization**, *President's Advisor*,  
Tehran, Iran

## **PUBLICATIONS**

*Shojaei S, Hashemi SM, Ghanbarian H, Sharifi K, Salehi M, Mohammadi-Yeganeh S (2021) Delivery of miR-381-3p Mimic by Mesenchymal Stem Cell-Derived Exosomes Inhibits Triple Negative Breast Cancer Aggressiveness; an In Vitro Study. Stem Cell Reviews and Reports, <https://doi.org/10.1007/s12015-020-10089-4>*

*Eftekhary M, Mohammadi-Yeganeh S, Bolandi Z, Hashemi SM, Mokhberian N, Sharifi K, Ghanbarian H (2020). A novel natural antisense transcript at human SOX9 locus is down-regulated in cancer and stem cells. Biotechnology Letters, 42(2): 329-339*

*Mokhberian N, Bolandi Z, Eftekhary M, Hashemi SM, Jajarmi V, Sharifi K, Ghanbarian H (2020). Inhibition of miR-34a reduces cellular senescence in human adipose tissue-derived mesenchymal stem cells through the activation of SIRT1. Life Sciences, 257,118055*

*Bolandi Z, Mokhberian N, Eftekhary M, Sharifi K, Soudi S, Ghanbarian H, Hashemi SM (2020). Adipose derived mesenchymal stem cell exosomes loaded with miR-10a promote the differentiation of Th17 and Treg from naive CD4 + T cell. Life Sciences, 259,118218*

*Hara T, Umaru BA, Sharifi K, Yoshikawa T, Owada Y, Kagawa Y (2020). Fatty Acid Binding Protein 7 is Involved in the Proliferation of Reactive Astrocytes, but not in Cell Migration and Polarity. Acta Histochemica et Cytochemica, 53(4): 73-81*

*Tarhriz V, Eyvazi S, Musavi M, Abbasi M, Sharifi K, Ghanbarian H, Hejazi MS (2019). Transient induction of Cdk9 in the early stage of differentiation is critical for myogenesis. Journal of Cellular Biochemistry 120(11): 18854-1886.1*

*Musavi M, Kohram F, Abbasi M, Ajoodanian M, Mohammadi-Yeganeh S, Hashemi SM, Sharifi K, Fathi HR, Ghanbarian H (2019). Rn7SK small nuclear RNA is involved in cellular senescence. Journal of Cellular Physiology 234 (8), 14234-14245*

*Bastami F, Nazeman P, Moslemi H, Rezai Rad M, Sharifi K, Khojasteh A (2017). Induced pluripotent stem cells as a new getaway for bone tissue engineering: A systematic review. Cell Proliferation 50 (2), e12321.*

*Ebrahimi M, Yamamoto Y, Sharifi K, Kida H, Kagawa Y, Yasumoto Y, Islam A, Miyazaki H, Shimamoto C, Maekawa M, Mitsushima D, Yoshikawa T, Owada Y (2016) Astrocyte-expressed FABP7 regulates dendritic morphology and excitatory synaptic function of cortical neurons. Glia 64(1): 48-62.*

Kagawa Y, Yasumoto Y, **Sharifi K**, Ebrahimi M, Islam A, Miyazaki H, Yamamoto Y, Sawada T, Kishi H, Kobayashi S, Maekawa M, Yoshikawa T, Takaki E, Nakai A, Kogo H, Fujimoto T, Owada Y (2015) Fatty acid-binding protein 7 regulates function of caveolae in astrocytes through expression of caveolin-1. *Glia* 63(5):780-94.

Ebrahimi M\*, **Sharifi K**\*, Islam A, Miyazaki H, Yasumoto Y, Kagawa Y, Yamamoto Y, Kitagawa T, Kuramitsu Y, Nakamura K and Yuji Owada (2015) Proteomic Differential Display Analysis Reveals Decreased Expression of PEA-15 and Vimentin in FABP7-Deficient Astrocytes. *J Proteomics Bioinform* 8(1):9-14.

\*Equally contributing authors

Islam A, Kagawa Y, **Sharifi K**, Ebrahimi M, Miyazaki H, Yasumoto Y, Kawamura S, Yamamoto Y, Sakaguti S, Sawada T, Tokuda N, Sugino N, Suzuki R, Owada Y (2014) Fatty Acid Binding Protein 3 Is Involved in n-3 and n-6 PUFA Transport in Mouse Trophoblasts. *J Nutr* 144 (10):1509-16.

Miyazaki H, Sawada T, Kiyohira M, Yu Z, Nakamura K, Yasumoto Y, Kagawa Y, Ebrahimi M, Islam A, **Sharifi K**, Yamamoto Y, Adachi Y, Tokuda N, Ishikawa T, Owada Y (2014) Fatty acid binding protein 7 regulates phagocytosis and cytokine production in Kupffer cells during liver injury. *Am J Pathol* 184 (9):2505-15.

**Sharifi K**, Ebrahimi M, Kagawa Y, Islam A, Tuerxun T, Yasumoto Y, Hara T, Yamamoto Y, Miyazaki H, Tokuda N, Yoshikawa T, Owada Y (2013) Differential expression and regulatory roles of FABP5 and FABP7 in oligodendrocyte lineage cells. *Cell Tissue Res* 354 (3):683-695.

Adachi Y, Hiramatsu S, Tokuda N, **Sharifi K**, Ebrahimi M, Islam A, Kagawa Y, Koshy Vaidyan L, Sawada T, Hamano K, Owada Y (2012) Fatty acid-binding protein 4 (FABP4) and FABP5 modulate cytokine production in the mouse thymic epithelial cells. *Histochem Cell Biol* 138 (3):397-406.

**Sharifi K**, Morihiro Y, Maekawa M, Yasumoto Y, Hoshi H, Adachi Y, Sawada T, Tokuda N, Kondo H, Yoshikawa T, Suzuki M, Owada Y (2011) FABP7 expression in normal and stab-injured brain cortex and its role in astrocyte proliferation. *Histochem Cell Biol* 136 (5):501-513.

Morihiro Y, Yasumoto Y, Vaidyan LK, Sadahiro H, Uchida T, Inamura A, **Sharifi K**, Ideguchi M, Nomura S, Tokuda N, Kashiwabara S, Ishii A, Ikeda E, Owada Y, Suzuki M (2013) Fatty acid binding protein 7 as a marker of glioma stem cells. *Pathol Int* 63 (11):546-553.

Tokuda N, Adachi T, Adachi Y, Higashi M, **Sharifi K**, Tuerxun T, Sawada T, Kondo H, Owada Y (2010) Identification of FABP7 in fibroblastic reticular cells of mouse lymph nodes. *Histochem Cell Biol* 134 (5):445-452.

A contributor of "Medical Physiology Textbook of Tehran University of Medical Science (TUMS)", TUMS press, 2000, ISBN: 964-92640-3-5, Book in Persian

A contributor of "Family Health Textbook of Tehran University of Medical Science (TUMS)", TUMS press, 2006, ISBN: 964-8941-35-0, Book in Persian

## **PRESENTATIONS IN SCIENTIFIC CONFERENCES**

### **Oral presentations**

**Sharifi K, Owada Y (2016).** Roles of FABPs in regenerative potentials of macroglia. The 12<sup>th</sup> Iranian congress on anatomical sciences. May 4-6, 2016, Tehran, Iran.

*Sharifi K, Ebrahimi M, Kagawa Y, Islam A, Koshy Vaiduan L, Hara T, Yasumoto Y, Tokuda N, Owada Y (2012).* FABP5 and FABP7; novel markers in oligodendrocyte lineage. 35th Annual meeting of the Japan Neuroscience Society. Sep 18-21, 2012, Nagoya, Japan.

*Sharifi K, Morihito Y, Yasumoto Y, Maekawa M, Ebrahimi M, Tokuda N, Yoshikawa T, Owada Y (2011)* Expression of FABP7 in normal and injured brain cortex and its role in astrocyte proliferation. 34<sup>th</sup> annual meeting of the Japan Neuroscience Society. Sep 14-17, 2011, Yokohama, Japan.

*Ebrahimi M, Sharifi K, Kagawa Y, Yamamoto Y, Islam A, Yasumoto Y, Miyazaki H, Hara T, Sawada T, Tokuda N, Yoshikawa T and Owada Y (2013)* Neuronal plasticity is regulated by glial fatty acid binding protein (FABP7). 36th Annual meeting of the Japan Neuroscience Society. Jun 23-27, 2013, Kyoto, Japan

*Kagawa Y, Ebrahimi M, Sharifi K, Miyazaki H, Yasumoto Y, Sawada T, Tokuda N, Kobayashi S, Kogo H, Fujimoto T, Yoshikawa T, Owada Y (2013)* Fatty acid-binding protein 7 (FABP7) regulates lipid raft formation in the astrocytes. 36th Annual meeting of the Japan Neuroscience Society. Jun 23-27, 2013, Kyoto, Japan

### **Poster presentations**

*Yamamoto Y, Sharifi K, Islam A, Ebrahimi M, Yasumoto Y, Miyazaki H, Kagawa Y, Sawada T, Tokuda N, Fukunaga K, and Owada Y (2014).* Localization of FABP3 in the mouse cingulate cortex and its possible role in the regulation of inhibitory neurons. Neuroscience 2014, Nov 15-19, Washington D.C., USA

*Ebrahimi M, Sharifi K, Kagawa Y, Islam A, Yasumoto Y, Miyazaki H, Kawamura S, Yamamoto Y, Sawada T, Yoshikawa T and Owada Y (2014).* Role of astrocytic FABP7 in medial prefrontal cortex (mPFC) as a regulator of mouse emotional behavior. Neuroscience 2014, Nov 15-19, Washington D.C., USA

**Sharifi K, Ebrahimi M, Kagawa Y, Islam A, Koshy Vaiduan L, Hara T, Yasumoto Y, Tokuda N, Owada Y (2012).** FABP5 and FABP7 as novel markers and biological regulators for oligodendrocyte lineage. 35th Annual meeting of the Molecular biology Society of Japan. Dec 11-14, 2012, Fukuoka, Japan.

**Sharifi K, Kagawa Y, Ebrahimi M, Islam A, Koshy Vaiduan L, Hara T, Yasumoto Y, Adachi Y, Tokuda N, Owada Y (2012)** Differential expression of FABP7 and FABP5 in mouse oligodendrocyte lineage cells. 10<sup>th</sup> annual meeting of international society for stem cell research (ISSCR), June 13-16, 2012, Yokohama, Japan.

**Kagawa Y, Ebrahimi M, Sharifi K, Islam A, Yasumoto Y, Miyazaki H, Kawamura S, Yamamoto Y, Sawada T, Tokuda N, Kogo H, Fujimoto T, Yoshikawa T, Owada Y (2013)** Fatty acid-binding protein 7 (FABP7) regulates lipid raft formation in the astrocytes through the expression of caveolin-1. The 86th Annual Meeting of the Japanese Biochemical Society. Sep 11-13, 2013, Yokohama, Japan

**Kagawa Y, Yasumoto Y, Sharifi K, Ebrahimi M, Islam A, Miyazaki H, Kawamura S, Yamamoto Y, Yoshikawa T, Kogo H, Sato S, Sugino N, Fujimoto T, Owada Y (2013)** FABP7 is involved in epigenetic modification in astrocyte. 36<sup>th</sup> Annual meeting of the Molecular biology Society of Japan. Dec 3-6, 2013, Kobe, Japan

**Yamamoto Y, Sharifi K, Islam A, Ebrahimi M, Kagawa Y, Yamamoto Y, Miyazaki H, Kawamura S, Sawada T, Tokuda N, Fukunaga K, Owada Y (2013)** Fatty acid binding protein 3 (FABP3) regulates cognitive function and anxiety behavior. Neuroscience 2013, Nov 9-13, 2013, San Diego, USA

**Kagawa Y, Ebrahimi M, Sharifi K, Islam A, Yasumoto Y, Miyazaki H, Kawamura S, Yamamoto Y, Sawada T, Tokuda N, Owada Y (2013)** FABP7-deficiency in astrocytes resulted in altered membrane lipid raft formation. Neuroscience 2013, Nov 9-13, 2013, San Diego, USA

**Ebrahimi M, Sharifi K, Kagawa Y, Islam A, Yasumoto Y, Miyazaki H, Kawamura S, Yamamoto Y, Sawada T, Yoshikawa T, Owada Y (2013)** FABP7 is expressed in astrocytes and regulates the excitatory synapse formation in mouse cerebral cortex. Neuroscience 2013, Nov 9-13, 2013, San Diego, USA

**Y. Yasumoto, H. Sadahiro, K. Sharifi, Y. Kagawa, M. Ebrahimi, A. Islam, H. Miyazaki, S. Kawamura, Y. Yamamoto, T. Sawada, M. Suzuki, Y. Owada (2013)** Expression and function of fatty acid binding protein 7 in glioma stem cells. Neuroscience 2013, Nov 9-13, 2013, San Diego, USA

**Hara T, Sharifi K, Ebrahimi M, Kagawa Y, Yasumoto Y, Miyazaki H, Islam A, Sawada T, Tokuda N, Owada Y (2013)** FABP7 as a regulator of reactive astrocyte proliferation. 118<sup>th</sup> annual meeting of the Japanese association of Anatomists. March 2013, Kagawa, Japan

*Ebrahimi M, Sharifi K, Kagawa Y, Yasumoto Y, Miyazaki H, Islam A, Hara T, Adachi Y, Sawada T, Tokuda N, and Owada, Y (2012) Control of neuronal dendritic formation by brain-type fatty acid binding protein (FABP7). Neuroscience 2012, Oct 13-17, 2012, New Orleans, USA*

*Kagawa Y, Ebrahimi M, Miyazaki H, Yasumoto Y, Sharifi K, Islam A, Adachi Y, Sawada T, Tokuda N, and Owada Y (2012) Fatty acid-binding protein 7(FABP7) regulates LPS-induced TNF- $\alpha$  production in the astrocytes. Neuroscience 2012, Oct 13-17, 2012, New Orleans, USA*

*Ebrahimi M, Kagawa Y, Sharifi K, Yasumoto Y, Islam A, Miyazaki H, Tomonori H, Adachi Y, Sawada T, Tokuda N, Owada Y (2012) FABP7 is involved in the control of neuronal dendritic formation. 35th Annual meeting of the Japan Neuroscience Society. Sep 18-21, 2012, Nagoya, Japan.*

*Islam A, Tokuda N, Adachi Y, Sawada T, Sharifi K, Ebrahimi M, Suzuki R, and Owada Y (2012) Fatty acid binding protein3 (FABP3) as a cellular regulator of fatty acid transport from mother to fetus in rodent placenta. International Federation of Placenta Association (IFPA) 2012 congress, Sep 18-21, 2012, Hiroshima, Japan.*

*Ebrahimi M, Kagawa Y, Sharifi K, Adachi Y, Sawada T, Tokuda N, Owada Y (2012). FABP7 in astrocytes is involved in control of neuronal dendritic formation. 117<sup>th</sup> annual meeting of the Japanese association of Anatomists March 26-28, 2012, Yamanashi, Japan*

*Tokuda N, Adachi Y, Adachi T, Higashi M, Sharifi K, Tuerxun T, Sawada T, Owada Y (2011) Identification of FABP7 in fibroblastic reticular cells of mouse lymph nodes. 88<sup>th</sup> annual meeting of the physiological society of Japan and the 116<sup>th</sup> annual meeting of the Japanese association of Anatomists March 28-30, 2011, Yokohama, Japan*

*Sharifi.K, Yasumoto.Y, Adachi.Y, Tuerxun.T, Islam.A, Ebrahimi.M, Sawada.T, Tokuda.N, Owada.Y (2011). FABP7 Expression in injured brain cortex and its role in astrocyte proliferation. 88<sup>th</sup> annual meeting of the physiological society of Japan and the 116<sup>th</sup> annual meeting of the Japanese association of Anatomists March 28-30, 2011, Yokohama, Japan*

*Yasumoto Y, Sharifi K, Morihiro Y, Adachi Y, Tokuda N, Sawada T, Owada Y (2010) Roles of FABP7 in astrocytes. 115<sup>th</sup> annual meeting of the Japanese association of Anatomists March 28-30, 2010, Morioka, Japan*

## Contact

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Updated on May 5, 2021