

Fariba Khodagholi

Ph.D. of Biochemistry

Executive M.B.A in pharmaceutical business

Date of Birth: 21/09/1977

Phone: +98-21-22429768-9

Fax: +98-21-22432047

P.O.Box: 19615-1178

khodagholi@sbmu.ac.ir

Educational Background:

(2002-2006) Ph.D., Biochemistry, Institute of Biochemistry and Biophysics, Tehran University, Tehran, Iran

Thesis entitled "*Kinetic aspects of protein refolding using artificial chaperones*".

(2000-2002) M. Sc, Biochemistry, Institute of Biochemistry and Biophysics, Tehran University, Tehran, Iran

Thesis entitled "*The effect of temperature on the binding of cyanide to Cytochrome d Salmonella typhimurium in intact cell and solubilized enzyme*".

(1995-2000) B. S., Microbiology, Faculty of Science, Tehran University, Tehran, Iran

(2010-2011) Executive M.B.A in pharmaceutical industry, Tehran University, Tehran, Iran

Thesis entitled "*Market of recombinent proteins in Iran and its comparison to other countries*".

Language skills:

Persian (native); English (fluently); French (fluently).

Memberships:

- Member of National Elite of Iran
- Member of scientific committee of Iranian society of physiology and pharmacology
- Member of Iran Alzheimer Association
- Member of Association International Society to Advance Alzheimer Research and Treatment (ISTAART)

Publications:

1. Arsalandeh F, ***Khodagholi F***, Ahmadian S, Foolad F, Mohammadi Kamsorkh H, Moridi Farimani M, Shaerzadeh F. Prevention of recognition memory loss and moderation of mitochondrial dynamic tendency toward fusion by flavone derivatives in A β -injected rats: a comparison between two flavonoids with different polarity. *Nutr Neurosci*. 2017 Oct 9:1-7. doi: 10.1080/1028415X.2017.1384173. [Epub ahead of print]
2. Memariani Z, Hajimahmoodi M, Minaee B, ***Khodagholi F***, Yans A, Rahimi R, Amin G, Moghaddam G, Toliyat T, Sharifzadeh M. Protective Effect of a Polyherbal Traditional Formula Consisting of Rosa damascena Mill., Glycyrrhiza glabra L. And Nardostachys jatamansi DC., Against Ethanol-induced Gastric Ulcer. *Iran J Pharm Res*. 2017 Spring;16(2):694-707.
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4. Rezaei R, Nourshahi M, ***Khodagholi F***, Haghparast A, Nasoohi S, Bigdeli M, Ashabi G. Differential impact of treadmill training on stroke-induced neurological disorders. *Brain Inj*. 2017 Sep 12:1-8. doi: 10.1080/02699052.2017.1346287. [Epub ahead of print].
5. Salehpour M, ***Khodagholi F***, Zeinaddini Meymand A, Nourshahi M, Ashabi G. Exercise training with concomitant nitric oxide synthase inhibition improved anxiogenic behavior, spatial cognition, and BDNF/P70S6 kinase activation in 20-month-old rats. *Appl Physiol Nutr Metab*. 2017 Aug 30. doi: 10.1139/apnm-2017-0313. [Epub ahead of print]
6. ***Khodagholi F***, Shaerzadeh F, Montazeri F. Mitochondrial aconitase in Neurodegenerative disorders: role of a metabolism-related molecule in neurodegeneration. *Curr Drug Targets*. 2017 Aug 16. doi: 10.2174/1389450118666170816124203. [Epub ahead of print]
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8. MohseniBandpi A, Eslami A, Shahsavani A, ***Khodagholi F***, Alinejad A. Physicochemical characterization of ambient PM2.5 in Tehran air and its potential

- cytotoxicity in human lung epithelial cells (A549). *Sci Total Environ*. 2017 Sep 1;593-594:182-190.
9. Karbaschi R, Zardooz H, **Khodaghali F**, Dargahi L, Salimi M, Rashidi F. Maternal high-fat diet intensifies the metabolic response to stress in male rat offspring. *Nutr Metab (Lond)*. 2017 Feb 28;14:20.
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 11. Ashabi G, Sarkaki A, **Khodaghali F**, Zareh Shahamati S, Goudarzvand M, Farbood Y, Badavi M, Khalaj L. Subchronic metformin pretreatment enhances novel object recognition memory task in forebrain ischemia: behavioural, molecular, and electrophysiological studies. *Can J Physiol Pharmacol*. 2017 Apr;95(4):388-395.
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National publications:

۱. حسن قدیمی ایلخانلار، مریم نورشاهی، فریبا خداقلی، رضا قراخانلو. اثر ۸ هفته تمرین مقاومتی فزاینده بر میزان پروتئین آگرین در عضلات اسکلتی موش های سالمند و بیستار. پژوهشنامه فیزیولوژی ورزشی کاربردی، شماره ۲۳، بهار و تابستان ۱۳۹۵، صفحه ۹۸-۸۷.
۲. مجتبی صالح پور، مریم نورشاهی، فریبا خداقلی، حمید رجبی. تاثیر هشت هفته تمرین استقامتی همراه با مهار nNOS بر میزان پروتئین گیرنده های نیکوتینی استیل کولین عضله اسکلتی موش های صحرايي مسن. فصلنامه فیزیولوژی ورزشی، شماره ۲۶، تابستان ۱۳۹۴ صفحه ۹۶-۸۱.
۳. حسن قدیمی ایلخانلار، مریم نورشاهی، رضا قراخانلو، فریبا خداقلی. اثر ۸ هفته تمرین مقاومتی بر میزان نوروترپسین در عضلات تند انقباض و کند انقباض موش های سالمند و بیستار. پژوهشنامه فیزیولوژی ورزشی کاربردی، شماره ۲۰، زمستان ۱۳۹۳، صفحه ۱۳۸-۱۲۹.
۴. مانده قاسمی، ناصر خدائی عطالو، فریبا خداقلی، افسانه الیاسی. بررسی مولکولی کانال های پتاسیمی اندوپلاسمیک رتیکولوم هیپاتوسیت ها. فصلنامه فیزیولوژی و فارماکولوژی، سال هجدهم، شماره ۳، پاییز ۱۳۹۳، صفحه ۳۱۴-۳۰۴.
۵. سولماز خلیفه، قربانگل اصحابی، احمد امیدپناه، فریبا خداقلی، محمدعلی اسماعیلی. بررسی اثر عصاره گیاه *Salvia hydrangea* (گل آرونه) بر روند بهبود حافظه، کاهش آپوپتوز و فسفریلاسیون پروتئین CREB در مدل آلزایمر القا شده با آمیلوئید بتا در موش های صحرايي نر. نشریه پژوهنده، شماره ۹۸، خرداد و تیر ۱۳۹۳، صفحه ۸۵-۷۸.
۶. شهربانو عریان، مرتضی نظری سرنجه، مسعود باقرپور زارچی، فریبا خداقلی، محمد نبیونی، کیانا شاهزمانی. بررسی اثر تزریق درون صفاقی لیپوپلی ساکارید (LPS) بر فرایندهای آپوپتوز، حافظه و ایجاد آلزایمر در هیپوکمپ موش های نر صحرايي نژاد و بیستار در یک روش وابسته به زمان. مجله دانشکده پزشکی اصفهان، شماره ۲۸۵، هفته دوم تیر ۱۳۹۳، صفحه ۹-۱.

۷. یاسمن رضوی، نجمه کاتبی، شبنم ضیغمی علمداری، شهربانو عریان، **فریبا خداقلی**، عباس حق پرست. تغییر فاکتورهای آپوپتوزی PARP، Caspase-3 و نسبت Bax/Bcl-2 در ناحیه تگمنتوم شکمی پس از اکتساب ترجیح مکان شرطی و دوره ترک مصرف مورفین در موش بزرگ آزمایشگاهی. فصلنامه کومش، شماره ۴۸، تابستان ۱۳۹۲، صفحه ۴۱۳-۴۰۴.
۸. جواد حامدی، **فریبا خداقلی**، محمدعلی آموزگار. کارایی تیمارهای پرتو فرابنفش و اتیدیوم برماید در افزایش مقاومت به اریترومایسین در جهش یافتگان *Saccharopolyspora erythraea*. مجله زیست‌شناسی/ایران، ۱۳۸۱، شماره ۳ و ۴، صفحه ۱۷-۸.
۹. لیلا خلیج، حبیب اله پیروی، **فریبا خداقلی**، آزاده عبدی، لیلا درگاهی، فاطمه محقق، ابوالحسن احمدیانی. محافظت نخاع در مقابل آسیب ایسکمی-ری پرفیوژن توسط تجویز حاد استرادیول در خرگوشهای نر. مجله فیزیولوژی و فارماکولوژی، ۱۳۸۸، شماره ۱۴، صفحه ۱۰-۱.
10. Shahnaz Babaei Abraki, Parnian Eslami, **Fariba Khodaghohi**. 15-Deoxy- Δ 12,14-Prostaglandin J2 Protects PC12 cells from LPS-Induced Cell Death Through Nrf2 pathway in PPAR- γ Dependent Manner. *Basic and Clinical Neuroscience* 2012, 3(2): 47-55.
11. Khoramian Tusi S, Babaei Abraki S, Amini M, **Khodaghohi F**. Modulation of H₂O₂- Induced Neurite Outgrowth Impairment and Apoptosis in PC12 Cells by a 1,2,4-Triazine Derivative. *Basic and Clinical Neuroscience*. 2012; 3 (5) :49-60.
12. Ashabi, G., **Khodaghohi, F.**, Zare-Shahamati, S., Ghadernezhad, N., Maleki, M., Khalaj, L. A comprehensive approach to investigate the contradictory effects of metformin therapy in cerebral ischemic injury. *Physiology and Pharmacology*. Volume 19, Issue 3, Fall 2015, Pages 146-157.
13. Nikseresht, S., **Khodaghohi, F.**, Ahmadiani, A. Actors of necroptosis scenario in cell's scene. *Physiology and Pharmacology*. 2017, 21(2), 88-101.

Books

Glycobiology, 1391, Tehran University Publication, Fariba Khodaghohi, Naghmeh Sattarahmady, Ali Akbar Moosavi-Movahedi

Honors and Awards:

- 2015** Selected as top associate professor of Shahid Beheshti University of Medical Sciences
- 2012** Recipient of research fellowship of national Elit fund, Iran
- 2011** Recipient of Young scientist travel grant, ICAD congress, France.
- 2010** Selected as top assistant professor of Shahid Beheshti University of Medical Sciences
- 2008-2009** Recipient of Young Scientist Research Fellowship of National Elite Fund, Iran.
- 2009** Recipient of Young scientist travel grant, ICAD congress, Austria.

- 2008** Selected as Young scientist, 13th Razi Research Festival on Medical Sciences, Iran
- 2004** Recipient of Young scientist travel grant, EBEC congress, France.
- 2004** Recipient of first prize, Biology and biotechnology congress, Iran.

Grants:

۱. طرح تحقیقاتی "بررسی اثر مهار بیان ژن‌های شوک حرارتی ۷۰ و ۹۰ با استفاده از فناوری RNAi بر فعالیت مسیر Nrf2 در سلول‌های شبه نورونی تمایز یافته دوپامینرژیک." ۱۵۰۰۰۰۰۰ تومان. صندوق حمایت از پژوهشگران کشور.
۲. اعتبار پژوهشی بنیاد ویژه پژوهشگران جوان. ۲۰۰۰۰۰۰۰ تومان. بنیاد ملی نخبگان
۳. اعتبار پژوهش و نوآوری بنیاد ملی نخبگان. ۵۰۰۰۰۰۰۰ تومان. بنیاد ملی نخبگان

Research interests:

- Drug design and signal transduction pathways
- Production of recombinant proteins