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Ph.D. of Biochemistry

Executive M.B.A in pharmaceutical business

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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 recombinant 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. 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*. 2016 Nov 4:1-8. doi: 10.1139/cjpp-2016-0260. [Epub ahead of print]
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4. Protective effects of salicylate on PKA inhibitor (H-89)-induced spatial memory deficit via lessening autophagy and apoptosis in rats. Azimi L, Kachooeian M, **Khodaghali F**, Yans A, Heysiattalab S, Vakilzadeh G, Vosoughi N, Sanati M, Taghizadeh G, Sharifzadeh M. *Pharmacol Biochem Behav*. 2016 Oct 27. pii: S0091-3057(16)30185-X. doi: 10.1016/j.pbb.2016.10.008. [Epub ahead of print]
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7. Khoshneviszadeh M, Rahimian R, Fakhfoury G, Payandemehr B, **Khodaghali F**, Ejtemaei Mehr S, Dehpour AR. Oxytocin is involved in the proconvulsant effects of Sildenafil: Possible role of CREB. *Toxicol Lett*. 2016 Aug 10;256:44-52.
8. Nassireslami E, Nikbin P, Amini E, Payandemehr B, Shaerzadeh F, **Khodaghali F**, Yazdi BB, Kebriaeezadeh A, Taghizadeh G, Sharifzadeh M. How sodium arsenite improve amyloid β -induced memory deficit? *Physiol Behav*. 2016 Sep 1;163:97-106.

9. Mohammadi M, Guan J, **Khodaghali F**, Yans A, Khalaj S, Gholami M, Taghizadeh GH, Aliaghaei A, Abdollahi M, Ghahremani MH, Sharifzadeh M., Reduction of autophagy markers mediated protective effects of JNK inhibitor and bucladesine on memory deficit induced by A β in rats. *Naunyn Schmiedeberg's Arch Pharmacol*. 2016 May;389(5):501-10.
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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 ۸۷-۹۸.
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 ییاسی. 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 ۷۸-۸۵.
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 ۴۰۳، 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. Ashabi, G., **Khodagholi, 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.
11. Shahnaz Babaei Abraki, Parnian Eslami, **Fariba Khodagholi**. 15-Deoxy- $\Delta^{12,14}$ -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.
12. Khoramian Tusi S, Babaei Abraki S, Amini M, **Khodagholi 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.

Books

Glycobiology, 1391, Tehran University Publication, Fariba Khodagholi, 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 نوروبی 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