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EDUCATION

Ph.D., Pharmaceutical Biotechnology, Shahid Beheshti University of Medical Sciences Sep 2010-Sep 2016

Dissertation: “Screening, Production Optimization, Purification and Characterization of Asparaginase Enzyme from Microbial Spices Isolated from Iran.”

Advisor: Dr. Sina Adrangi, Dr. Nastaran Nafissi-Varcheh

M.Sc., Medical Biotechnology, Tehran University of Medical Sciences

Sep 2008-Sep 2010

Dissertation: “Cloning, Expression and Purification of Human Lipocalin 2”

Advisor: Dr. Mohammad Morad Farajollahi, Mehryar Habibi Roudkenar

B.Sc. Medical Laboratory Sciences, , Shiraz University of Medical Sciences and Arak University of Medical Sciences

Sep 2003-Sep 2008

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Publications:

- 1- Zadeh RG, Mirshekar M, Kalani BS, Masjedian F, **Barati M**. *The Expression of Type II TA System Genes Following Persist Cell Formation in Pseudomonas Aeruginosa Isolates in The Exponential and Stationary Phases*. 2021.
- 2- Tanbakooei S, Haramshahi SMA, Vahabzadeh G, **Barati M**, Katebi M, Golab F, et al. *Ovarian Stem Cells Differentiation into Primary Oocytes Using Follicle Stimulating Hormone, Basic Fibroblast Growth Factor, and Neurotrophin 3*. JOURNAL OF REPRODUCTION AND INFERTILITY, [online]. 2021;22(4):241-50.
- 3- Siyadat P, Ayatollahi H, **Barati M**, Sheikhi M, Shahidi M. *High Resolution Melting Analysis for Evaluation of mir-612 (Rs12803915) Genetic Variant with Susceptibility to Pediatric Acute Lymphoblastic Leukemia*. Reports of Biochemistry & Molecular Biology. 2021;9(4):385.
- 4- Shakib P, **Barati M**, Gholipourmalekabadi M. *Antibiotic resistance pattern and molecular typing by pcr-rapd analysis in clinical isolates of pseudomonas aeruginosa from motahari hospital, tehran, iran*. Journal of Kerman University of Medical Sciences. 2021.
- 5- Ramhormozi P, Ansari JM, Simorgh S, Asgari HR, Najafi M, **Barati M**, et al. *Simvastatin accelerates the healing process of burn wound in Wistar rats through Akt/mTOR signaling pathway*. Annals of Anatomy-Anatomischer Anzeiger. 2021; 236:151652.
- 6- Farsi F, Ebrahimi-Daryani N, **Barati M**, Janani L, Karimi MY, Akbari A, et al. *Effects of coenzyme Q10 on health-related quality of life, clinical disease activity and blood pressure in patients with mild to moderate ulcerative colitis: a randomized clinical trial*. Medical Journal of the Islamic Republic of Iran. 2021; 35:3
- 7- Daneshafrooz N, Joghataei MT, Mehdizadeh M, Alavi A, **Barati M**, Teimourian S, et al. *Circulating miRNA biomarkers for sporadic Amyotrophic Lateral Sclerosis: a systematic meta-analysis and empirical validation*. 2021.
- 8- Bakhshayesh M, Gohari LH, **Barati M**, Safa M. *Combination therapy using TGF- β 1 and STI-571 can induce apoptosis in BCR-ABL oncogene-expressing cells*. Biomolecular Concepts. 2021;12(1):144-55.
- 9- Alsadat AM, Nikbakht F, Nia HH, Golab F, Khadem Y, **Barati M**, et al. *GSK-3 β as a target for apigenin-induced neuroprotection against A β 25–35 in a rat model of Alzheimer's disease*. Neuropeptides. 2021; 90:102200.
- 10- Vahabzadeh G, Soltani H, **Barati M**, Golab F, Jafari-Sabet M, Safari S, et al. *Noscapine protects the H9c2 cardiomyocytes of rats against oxygen–glucose deprivation/reperfusion injury*. Molecular Biology Reports. 2020;47(8):5711-9.

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- 11- Shahidi M, Parhizkary F, Sharifi R, Ghotaslou A, **Barati M**. *Effects of resveratrol on coagulative, fibrinolytic, and inflammatory marker expression and secretion by endothelial cells (human umbilical vein endothelial cells)*. Blood Coagulation & Fibrinolysis. 2020;31(3):207-12.
- 12- Sarami S, SEYEDABADI H, Hosseini S, **Barati M**. *The Effect of Mycotoxin Binder Toxeat® on The Expression of INF γ and INF α Genes and Serum Levels of IL2 and IL6 in Broiler Chickens Fed with Aflatoxin*. 2020.
- 13- Sanadgol N, **Barati M**, Houshmand F, Hassani S, Clarner T, Golab F. *Metformin accelerates myelin recovery and ameliorates behavioral deficits in the animal model of multiple sclerosis via adjustment of AMPK/Nrf2/mTOR signaling and maintenance of endogenous oligodendrogenesis during brain self-repairing period*. Pharmacological Reports. 2020;72(3):641-58.
- 14- Rabiee Motmaen S, Tavakol S, Joghataei MT, **Barati M**. *Acidic pH derived from cancer cells as a double-edged knife modulates wound healing through DNA repair genes and autophagy*. International wound journal. 2020;17(1):137-48.
- 15- Jafari D, Tiyuri A, Rezaei E, Moradi Y, Jafari R, Jokar Shoorijeh F, **Barati M**. *Diagnostic accuracy of cerebrospinal fluid and serum-isolated extracellular vesicles for glioblastoma: a systematic review and meta-analysis*. Expert Review of Molecular Diagnostics. 2020;20(11):1075-85.
- 16- Goudarzi M, Nahavandi A, Mehrabi S, Eslami M, Shahbazi A, **Barati M**. *Valproic acid administration exerts protective effects against stress-related anhedonia in rats*. Journal of chemical neuroanatomy. 2020; 105:101768.
- 17- Ansari JM, Ramhormozi P, Shabani R, Pazoki-Toroudi H, Yari A, **Barati M**. *Simvastatin combined with bone marrow mesenchymal stromal cells (BMSCs) improve burn wound healing by ameliorating angiogenesis through SDF-1 α /CXCR4 pathway*. Iranian Journal of Basic Medical Sciences. 2020;23(6):751.
- 18- Ramezanpour M, Daei P, Tabarzad M, Khanaki K, Elmi A, **Barati M**. *Preliminary study on the effect of nucleolin specific aptamer-miRNA let-7d chimera on Janus kinase-2 expression level and activity in gastric cancer (MKN-45) cells*. Molecular biology reports. 2019;46(1):207-15.
- 19- Rabiee S, Tavakol S, **Barati M**, Joghataei MT. *Autophagic, apoptotic, and necrotic cancer cell fates triggered by acidic pH microenvironment*. Journal of cellular physiology. 2019;234(7):12061-9.
- 20- Naderi N, Hemmatinfar M, Gaeini AA, Bahramian A, Ghardashi-Afousi A, Kordi MR, Amir Darbandi-Azar, Fariba Karimzade, Hamid Mohebbi, **Barati M**. *High-intensity interval training increase GATA4, CITED4 and c-Kit and decreases C/EBP β in rats after myocardial infarction*. Life sciences. 2019; 221:319-26.

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- 21- Mehrabi S, Nasirinezhad F, **Barati M**, Abutaleb N, Barati S, Dereshky BT, et al. *The Effect of Alpha-Tocopherol on Morphine Tolerance-induced Expression of c-fos Proto-oncogene from a Biotechnological Perspective*. Recent patents on biotechnology. 2019;13(2):137-48.
- 22- Mehdinejadi S, Amidi F, Mehdizadeh M, **Barati M**, Pazhohan A, Alyasin A, et al. *Effects of letrozole and clomiphene citrate on Wnt signaling pathway in endometrium of polycystic ovarian syndrome and healthy women*. Biology of Reproduction. 2019;100(3):641-8.
- 23- Kouhsari E, Douraghi M, **Barati M**, Yaseri HF, Talebi M, Abbasian S, et al. *Rapid simultaneous molecular stool-based detection of toxigenic Clostridioides difficile by quantitative TaqMan Real-Time PCR assay*. Clin Lab. 2019;65(4.10):7754.
- 24- Khalili-Samani M, **Barati M**, Mirmohammadsadegh N, Amin M, Samadikuchaksaraei A. *Detection of Mutations of Antimutator Gene pfpI in Pseudomonas aeruginosa Species Isolated from Burn Patients in Tehran, Iran*. Journal of Medical Microbiology and Infectious Diseases. 2019;7(4):127-31.
- 25- Houshmand F, **Barati M**, Golab F, Ramezani-Sefidar S, Tanbakooie S, Tabatabaei M, et al. *Metformin-induced AMPK activation stimulates remyelination through induction of neurotrophic factors, downregulation of NogoA and recruitment of Olig2+ precursor cells in the cuprizone murine model of multiple sclerosis*. DARU Journal of Pharmaceutical Sciences. 2019;27(2):583-92.
- 26- Derakhshani A, Keshavarz K, Banadkoki SB, Shirazi FH, **Barati M**, Fereidouni M, et al. *Optimization of induction parameters, structure quality assessment by ATR-FTIR and in silico characterization of expressed recombinant polcalcic in three different strains of Escherichia coli*. International journal of biological macromolecules. 2019; 138:97-105.
- 27- Barati S, Ragerdi Kashani I, Moradi F, Tahmasebi F, Mehrabi S, **Barati M**, et al. *Mesenchymal stem cell mediated effects on microglial phenotype in cuprizone- induced demyelination model*. Journal of cellular biochemistry. 2019;120(8):13952-64.
- 28- Ahangarzadeh S, Kanafi MM, Hosseinzadeh S, Mokhtarzadeh A, **Barati M**, Ranjbari J, et al. *Bicyclic peptides: types, synthesis and applications*. Drug discovery today. 2019;24(6):1311-9.
- 29- Safarpour H, Shahmirzaie M, Rezaee E, **Barati M**, Safarnejad MR, Shirazi FH. *Isolation and Characterization of Novel Phage Displayed scFv Fragment for Human Tumor Necrosis Factor Alpha and Molecular Docking Analysis of Their Interactions*. Iranian journal of pharmaceutical research: IJPR. 2018;17(2):743.
- 30- Rahmanzadeh R, Mehrabi S, **Barati M**, Ahmadi M, Golab F, Kazmi S, et al. *Effect of co-administration of bumetanide and phenobarbital on seizure attacks in temporal lobe epilepsy*. Basic and clinical neuroscience. 2018;9(6):408.

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- 31- Mehri Alvar Y, Ramezani A, Gaeeni AA, Golab F, **Barati M**. *The effect of eight weeks of high-intensity interval training on gene expression of angiogenesis factors in ischemic rats*. Journal of Advances in Medical and Biomedical Research. 2018;26(116):20-34.
- 32- Mehrabi S, Sanadgol N, **Barati M**, Shahbazi A, Vahabzadeh G, Barzroudi M, et al. *Evaluation of metformin effects in the chronic phase of spontaneous seizures in pilocarpine model of temporal lobe epilepsy*. Metabolic brain disease. 2018;33(1):107-14.
- 33- Mehrabi S, Janahamdi M, Joghataie MT, **Barati M**, Marzban M, Hadjighassem M, et al. *Blockade of p75 neurotrophin receptor reverses irritability and anxiety-related behaviors in a rat model of status epilepticus*. Iranian biomedical journal. 2018;22(4):264.
- 34- Mehdipour M, Shahidi M, Manifar S, Jafari S, Abbas FM, **Barati M**, et al. *Diagnostic and prognostic relevance of salivary microRNA-21, -125a, -31 and-200a levels in patients with oral lichen planus-a short report*. Cellular Oncology. 2018;41(3):329-34.
- 35- Mehdinejadi S, Amidi F, Mehdizadeh M, **Barati M**, Safdarian L, Aflatoonian R, et al. *The effects of letrozole and clomiphene citrate on ligands expression of Wnt3, Wnt7a, and Wnt8b in proliferative endometrium of women with Polycystic ovarian syndrome*. Gynecological Endocrinology. 2018;34(9):775-80.
- 36- Katebi A, Golab F, Vahabzadeh G, Sarveazad A, Goodarzi N, Fazelipour S, **Barati M**, Mansoureh Soleimani. *The effects of different dose of chronic ritalin on the brain of prepubertal female Balb/C mice*. International Journal of Pediatrics. 2018;6(7):7883-92.
- 37- Sharafi Z, **Barati M**, Khoshayand MR, Adrangi S. *Screening for Type II L-Asparaginases: Lessons from the Genus Halomonas*. Iranian journal of pharmaceutical research: IJPR. 2017;16(4):1565.
- 38- Shahidi M, Jafari S, **Barati M**, Mahdipour M, Gholami MS. *Predictive value of salivary microRNA-320a, vascular endothelial growth factor receptor 2, CRP and IL-6 in Oral lichen planus progression*. Inflammopharmacology. 2017;25(5):577-83.
- 39- Shahidi M, Esmaeili N, Faranoosh M, Kazemi A, **Barati M**, Ansarinejad N. *Endothelial tip cell formation induced by chronic lymphocytic leukemia plasma (JAK2 positivity amplified this effect)*. Journal of Hematopathology. 2017;10(1):9-15.
- 40- Rahmanzadeh R, Eftekhari S, Shahbazi A, Khodaei Ardakani M-r, Rahmanzade R, Mehrabi S, **Barati M**, Mohammad Taghi Joghataei. *Effect of bumetanide, a selective NKCC1 inhibitor, on hallucinations of schizophrenic patients; a double-blind randomized clinical trial*. 2017.
- 41- Kargozar S, Lotfibakhshaiesh N, Ai J, Mozafari M, Milan PB, Hamzehlou S, **Barati M**, et al. *Strontium- and cobalt-substituted bioactive glasses seeded with human umbilical cord perivascular cells to promote bone regeneration via enhanced osteogenic and angiogenic activities*. Acta biomaterialia. 2017; 58:502-14.

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- 42- Asadi E, Najafi A, Moeini A, Pirjani R, Hassanzadeh G, Mikaeili S, Salehi E, Adutwum E, Soleimani M, Khosravi F, **Barati M**. *Ovarian tissue culture in the presence of VEGF and fetuin stimulates follicle growth and steroidogenesis*. J Endocrinol. 2017;232(2):205-19.
- 43- Shirazi A, Golab F, Sanadgol N, **Barati M**, Mohammad Salehi R, Vahabzadeh G, et al. *Evaluation of the neurotrophic factors in animal model of myelin destruction induced by cuprizone in c57bl/6 mice*. Shefaye Khatam. 2016;4(2):47-54.
- 44- Nohesara S, Ghadirivasfi M, **Barati M**, Ghasemzadeh MR, Narimani S, Mousavi- Behbahani Z, et al. *Methamphetamine- induced psychosis is associated with DNA hypomethylation and increased expression of AKT1 and key dopaminergic genes*. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics. 2016;171(8):1180-9.
- 45- **Barati M**, Faramarzi MA, Nafissi-Varcheh N, Khoshayand MR, Tehrani MHH, Vahidi H, et al. *L-asparaginase activity in cell lysates and culture media of halophilic bacterial isolates*. Iranian journal of pharmaceutical research: IJPR. 2016;15(3):435.
- 46- Mehrpouya S, Nahavandi A, Khojasteh F, Soleimani M, Ahmadi M, **Barati M**. *Iron administration prevents BDNF decrease and depressive-like behavior following chronic stress*. Brain research. 2015; 1596:79-87.
- 47- Khojasteh F, Nahavandi A, Mehrpouya S, Homberg JR, Mirzamohammadi S, Raufi S, Soleimani M, **Barati M**. *Cognitive impairment induced by permanent bilateral common carotid occlusion exacerbates depression-related behavioral, biochemical, immunological and neuronal markers*. Brain research. 2015; 1596:58-68.
- 48- Farajdokht F, Soleimani M, Mehrpouya S, **Barati M**, Nahavandi A. *The role of hepcidin in chronic mild stress-induced depression*. Neuroscience letters. 2015; 588:120-4.
- 49- Soleimani M, Jameie SB, **Barati M**, Mehdizadeh M, Kerdari M. *Effects of coenzyme Q10 on the ratio of TH1/TH2 in experimental autoimmune encephalomyelitis model of multiple sclerosis in C57BL/6*. Iranian Biomedical Journal. 2014;18(4):203.
- 50- Shahidi M, **Barati M**, Hayat P, Tavasoli B, Bakhshayesh M. *The in vitro effects of sodium salicylate on von Willebrand factor and C-reactive protein production by endothelial cells*. Inflammopharmacology. 2014;22(6):367-72.
- 51- Gilanchi S, Esmailzade B, Eidi A, **Barati M**, Mehrabi S, Ghoroghi FM, et al. *Neuronal differentiation of rat hair follicle stem cells: the involvement of the neuroprotective factor Seladin-1 (DHCR24)*. Iranian biomedical journal. 2014;18(3):136.

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- 52- Esmailzade B, Nobakht M, Hosseini SM, Mortazavi P, **Barati M**, Mehrabi S, et al. *Adult neurogenesis of epidermal neural crest stem cells (EPI-NCSC) in hippocampus of Alzheimer's rat model*. Comparative Clinical Pathology. 2014;23(3):789-97.
- 53- Eftekhari S, Mehrabi S, Soleimani M, Hassanzadeh G, Shahrokhi A, Mostafavi H, Hayat P, **Barati M**, Mehdizadeh H, Rahmanzadeh R, Hadjighassem MR. *BDNF modifies hippocampal KCC2 and NKCC1 expression in a temporal lobe epilepsy model*. Acta neurobiologiae experimentalis. 2014;74(3):276-87.
- 54- Mobini S, Solati-Hashjin M, Peirovi H, Osman NAA, Gholipourmalekabadi M, **Barati M**, et al. *Bioactivity and biocompatibility studies on silk-based scaffold for bone tissue engineering*. J Med Biol Eng. 2013;33(2):207-14.
- 55- Gholipourmalekabadi M, Erfani E, Kargozar S, Azami M, Korourian A, Jameie S, **Barati M**, Samadikuchaksaraei A. *Effects of Natural Bone Matrix on Biocompatibility of a Nano-Composite Hydroxyapatite-Gelatin Scaffold*. Artificial Organs. 2013;37(7).
- 56- FARAJDOKHT F, SOLEIMANI M, MEHRPOUYA S, **BARATI M**, NAHAVANDI A. *EFFECT OF CHRONIC MILD STRESS ON HEPICIDIN EXPRESSION IN HIPPOCAMPUS OF RATS*.
- 57- Sanadgol N, **Barati M**, Movahedi M, Majd A, Golab F. *Assessing the Association between Fennel (Foeniculum Vulgare) Extract and Serum Lipid Profile and Leptin Receptor Expression*. Basic and Clinical Neuroscience.:0-.
- 58- Mehrabi S, Nasirinezhad F, **Barati M**, Abutaleb N, Barati S, Teymoory B, et al. *A Potential Antitumor Drug*.

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Books:

❖ بیوتکنولوژی مولکولی - اصول و کاربرد DNA نو ترکیب، نشر اشراقیه، شابک: 9789646772205

❖ تکنیک‌های پیشرفته مولکولی، نشر رویان پژوه، شابک: 9786004081658

Patents:

1. 23 June 2017: **Barati M**, Ghanbari A,. Automatic flame for biological hood. Patent No. 93650. Industrial Property General Office, Intellectual Property Office, State Organization for Registration of Deeds and Properties, Iran.
2. 3 June 2017: **Barati M**, Ghanbari A,. Cooling box for molecular testing. Patent No. 93592. Industrial Property General Office, Intellectual Property Office, State Organization for Registration of Deeds and Properties, Iran.
3. Septamber 2018: **Barati M**, Golab F, Soleimani M. a microRNA detection kit with MGB free probe. Application No. 139750140003005755. Industrial Property General Office, Intellectual Property Office, State Organization for Registration of Deeds and Properties, Iran.

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Abstracts and Congress Presentations:

- 1- Eastern Mediterranean Regional Congress of Microbiology. Gilan University of Medical Sciences. **Cloning and expression of human Lipocalin 2 in HEK293 cell line and its effect in preventing infections caused by Pseudomonas aeruginosa in burn wounds in Rattus Norvegicus.** (Poster presentation)
- 2- The first international Tehran burn congress. **PFPI gene mutations in Pseudomonas aeruginosa isolated from burn patients in the Motahari hospital.** (oral presentation)
- 3- Bakhshayesh, Masoomeh, Farhad Zaker, Merdad Heshemi, Majid Katebi, Mansooreh Soleimani, Mohsen Marzban, and **Mahmood Barati**. "TGF-B1 MEDIATED APOPTOSIS IS ASSOCIATED TO MITOCHONDRIAL BCL-2 EXPRESSION IN LYMPHOMA CELL." In ASIA-PACIFIC JOURNAL OF CLINICAL ONCOLOGY, vol. 8, pp. 307-307. 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY-BLACKWELL, 2012.
- 4- The Second international burn congress. **Pseudomonas aeruginosa: genotype and antibiotic resistance of isolates in a level I Iranian burn hospital.** (Oral presentation).
- 5- Hossein Jafari, Ali Yousefnejad, Soraya Mehrabi, **Mahmood Barati**, Roozbeh Farhoodi, Fereshteh Golab."Computational Model for the Effects of Phenobarbital and the NKCC1 Inhibitor Bumetanide in the Pilocarpine Model of Temporal Lobe Epilepsy". The Neuroscience Journal of Shefaye Khatam, 2015. 2(4): p. 70-70.
- 6- Jafari H, Yousefnejad A, Mehrabi S, **Barati M**, Farhoodi R, Golab F. P20: *Computational Model for the Effects of Phenobarbital and the NKCC1 Inhibitor Bumetanide in the Pilocarpine Model of Temporal Lobe Epilepsy.* The Neuroscience Journal of Shefaye Khatam. 2014;2(4):70-(Oral presentation).
- 7- Ganji Y, Kasra M, Samadikuchaksaraei A, **Barati M**. *Analysis of an Osteoblastic Cell Line Response to Cyclic Hydrostatic Pressure.* Artificial Organs. 2013;37(7).
- 8- Bakhshayesh M, Zaker F, Heshemi M, Katebi M, Soleimani M, Marzban M, **Barati M**. *TGF-B1 MEDIATED APOPTOSIS IS ASSOCIATED TO MITOCHONDRIAL BCL-2 EXPRESSION IN LYMPHOMA CELL: 723.* Asia-pacific Journal of Clinical Oncology. 2012 Nov;8.
- 9- Ganji Y, Kasra M, Samadikuchaksaraei A, **Barati M**. *Frequency response of human osteosarcoma cell line to cyclic hydrostatic pressure: PP-078.* Regenerative Medicine. 2011;6(6).

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Honors and Awards

- ❖ Ranked first in entrance exam for M.Sc degree in biotechnology, 2008.
- ❖ Top student Award, in field of biotechnology, Shahid Beheshti University of Medical Sciences, 2014.
- ❖ Member of *Iran's National Elites Foundation* (INEF)