

CURRICULUM VITAE

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Affiliations: 1-Dept of Pharmacology & Toxicology
Faculty of Pharmacy, Tehran University of Medical Sciences, Iran
2- Dept of Molecular Medicine
School of Advanced Technologies in Medicine, Tehran University of Medical Sciences, Tehran, Iran
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h-index: 30 (05-2019),
Top 1% highly cited scientists since 2018

Education:

Postdoctoral Fellow in Neuroscience	2000-2001
Neuroscience Research Institute, University of Ottawa, Ottawa, Canada	
<u>Supervisor:</u> Dr. David S. Park, Associate Professor	
Ph.D. program	1993-2000
Department of Pharmacology and Therapeutics, McGill University, Montreal, Canada	
<u>Supervisor:</u> Dr. Paul R. Albert, Professor	
Doctorate in Pharmacy (Pharm. D.)	1983-1989
School of Pharmacy, Tehran University of Medical Sciences, Iran	
<u>Supervisor:</u> Dr. Ahmad R. Dehpour, Professor	
Diploma in Experimental Science	1979-1983
Falsafi High school, Tehran, Iran	

Professional Activities

Professional Appointments:

- 2013-present Research Deputy, Faculty of Pharmacy, Tehran Univ. of Medical Sciences, Tehran, Iran.
- 2002-present Head of Molecular Pharmacology Lab, Faculty of Pharmacy, Tehran Univ. of Medical Sciences, Tehran, Iran.
- 2011-present Professor in Molecular Pharmacology, Dept of Pharmacology & Toxicology, Faculty of Pharmacy, Tehran Univ. of Medical Sciences, Tehran, Iran.
- 2005- present Member of Board of Education in Pharmaceutical Biotechnology, Ministry of Health of Iran
- 2012- present Head of Board of Education in Medical Biotechnology & Molecular Medicine, Ministry of Health of Iran
- 2007- present Member of Board of Education in Medical Biotechnology & Molecular Medicine, Ministry of Health of Iran
- 2007- 2018 Head of Dept of Molecular Medicine, School of Advanced Medical Technologies, Tehran Univ. of Medical Sciences, Tehran, Iran.
- 2006- 2011 Associate professor in Molecular Pharmacology, Dept of Pharmacology & Toxicology, Faculty of Pharmacy, Tehran Univ. of Medical Sciences, Tehran, Iran.
- 2005-2007 Deputy of Research, Medical Nanotechnology Research Center, Tehran Univ. of Medical Sciences, Tehran, Iran.
- 2001-2006 Assistant professor in Molecular Pharmacology, Dept of Pharmacology & Toxicology, Faculty of Pharmacy, Tehran Univ. of Medical Sciences, Tehran, Iran.
- 2000-2001 Postdoctoral Fellow in Neuroscience, Neuroscience Research Institute, University of Ottawa, Ottawa, Canada
- 1992-1993 Pharmacology and Toxicology instructor, Department of Toxicology and Pharmacology, School of Pharmacy, Tehran University, Tehran, Iran.
- 1990-1992 Research Scientist; Department of Pharmacodynamics, Pharmaceutical Research Center, Darou Pakhsh Pharmaceutical Co., Tehran, Iran.
- 1986-1992 Pharmacist, Issar Pharmacy, Tehran, Iran.

Professional Design and Set up:

- 2001-2002 Set up of Cellular and Molecular Biology lab, Research Centre for Gastroenterology and Liver Disease, Shaheed Beheshti University of Medical Sciences, Tehran, Iran
- 2002-2004 Set up of Molecular Biology lab, Food & Drug Control Labs, Ministry of Health, Tehran, Iran
- 2006-2007 Design and setup of Molecular Medicine Ph.D. program, Tehran University of Medical Sciences, Tehran, Iran
- 2007-2008 Establishment and operational set up of Medical Nanotechnology Research Center, Tehran University of Medical Sciences, Tehran, Iran
- 2008-2009 Establishment and operational set up of Dept of Molecular Medicine, School of Advanced Medical Technologies, Tehran University of Medical Sciences, Tehran, Iran
- 2010-2012 Design and organization of Core Facilities, Tehran University of Medical Sciences, Tehran, Iran

Awards & achievements:

- 1- Top 1% highly cited scientists, 2018.

- 2- Distinct Researcher, 12th Festival of Researcher and Technologist, Ministry of Science & Technology, 2011
- 3- Razi National award in Pharmaceutical research, 1st Rank, Ministry of Health, Iran, 2011.
- 4- Hakim Jorjani award for Medical Education, Tehran University of Medical Sciences, Tehran 2008.
- 5- Hedayt Dentistry Research award, Tehran University of Medical Sciences, Tehran 2007.
- 6- Postdoctoral Fellowship, Canadian Stroke Network, 3 years, Post doctoral training in Neuroscience, Neuroscience Research Institute, Ottawa 2001-2004.
- 7- Ph.D. Scholarship, Parkinson Society of Canada (2 years), McGill University, 1998-1999.
- 8- Graduate Study Scholarship, Ministry of Health of Iran (4 years) Ph.D. program, McGill University, 1993-1997.
- 9- Educational Student Scholarship, Ministry of Science of Iran (5.5 years) Pharm. D. program, Tehran University, 1983-1989.
- 10- Best Poster presentation, IGSMNA meeting 1996.

Committee member:

- | | |
|---------------|--|
| 2011-present | Member of Cellular & Molecular Medicine sub committee, I.R. Iran Academy of Medical Sciences, Iran |
| 2009- present | Iran Biotechnology Network, Ministry of Health of Iran. |
| 2005- present | Research Committee, Medical Nanotechnology Research Center, Tehran Univ. of Medical Sciences, Tehran, Iran. |
| 2017-present | Research Committee, Neuroscience Institute (Neurorehabilitation), Tehran Univ. of Medical Sciences, Tehran, Iran. |
| 2005-2013 | Research Committee, Cancer Research Network, Ministry of Health of Iran. |
| 2014-2014 | Member of National Research policy and organization, Deputy of Research, Ministry of Health of Iran |
| 2005- 2013 | Research committee, Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran |
| 2010-2011 | Library committee, Faculty of Pharmacy, Tehran Univ. of Medical Sciences, Tehran, Iran. |
| 2005- 2008 | Medical Nanotechnology committee, Ministry of Health of Iran |
| 2007- 2009 | Distance learning committee, Tehran University of Medical Sciences, Tehran, Iran |
| 2007- 2009 | GMO regulation committee, Ministry of Health of Iran |
| 2007-2008 | Biotechnology subgroup, Nanotechnology subgroup and Molecular medicine subgroup, Health section, National Scientific Map, Ministry of Health of Iran |
| 2005-2007 | University Research committee, Tehran University of Medical Sciences, Tehran, Iran |
| 2003- 2009 | Education development core, Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran |
| 2002-2003 | Graduate committee, Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran |

Membership

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|--------------|---|
| 1992-present | Iranian Society for Physiology and Pharmacology |
| 2004-present | International Cell Death Society |
| 2001-present | Iranian Association of Pharmaceutical Sciences |
| 2001-present | Iranian Society of Toxicology and Poisoning |
| 1995-2001 | Society for Neuroscience |

Research Consultant

2010-2011 National Biological Resource Center, Tehran, Iran.
 2001-2005 Iran Food and Drug Control Laboratories, Molecular Biology Lab, Tehran, Iran.
 2001-2003 Research Center for Gastrointestinal and Liver disease, Molecular Genetics lab, Tehran, Iran

Workshops

As attendee

2006 Patenting Pharmaceutical and Biotechnology inventions;
 Office of industry links, Tehran University of Medical Sciences, Tehran, Iran
 2004 Medical Education Fellowship,
 EDC, Tehran University of Medical Sciences, Tehran, Iran
 2004 Research Methodology: Introductory;
 School of Public Health, Tehran University of Medical Sciences, Tehran, Iran
 2003 WHO: Grant (proposal) and manuscript writing
 WHO & Tehran University of Medical Sciences, Tehran, Iran

As organizer & facilitator

2004 RT-PCR detection in cancer; three series
 Dept of Pharmacology & Toxicology, Tehran University of Medical Sciences, Tehran, Iran
 2005 Endnote;
 Pharmaceutical & Medical Nanotechnology Research Centers, Tehran, Iran
 2006, 2007 Cellular & Molecular Methods in Toxicology,
 National Center of excellence in Toxicology, Tehran, Iran
 2006 Cellular & Molecular methods in Nanotechnology,
 Medical Nanotechnology Research Center, Tehran University of Medical Sciences, Tehran, Iran
 2006 Cellular & Molecular Methods in Pharmaceutical discoveries,
 Pharmaceutical Sciences Research Center, Tehran University of Medical Sciences, Tehran, Iran
 2013 Scientific Writing,
 School of Advanced Technologies in Medicine and Toxicology & Poisoning Research Center, Tehran University of Medical Sciences, Tehran, Iran

Invited Talks

- "Cancer stem cells and drug resistance"
 1st symposium on Cancer stem cell and cell therapy, Tehran, January 2017.
- "GST polymorphism in Toxicology"
 10th Iranian Congress of Toxicology and Poisoning, Tehran, Iran, April 2009.
- "Targeting multiple cell proliferation regulatory pathways to design novel drugs using functional domain analyses"
 3rd International symposium on Cell death: manipulation of cell pathways in drug developments, Tehran, Iran May, 2009
- "Pharmacogenetic in mood disorders"
 Dept of Psychiatry, Tehran University of Medical Sciences, Tehran, Iran (March 2008)

- "Pharmacogenomics in obsessive compulsive"
Dept of Psychiatry, Tehran University of Medical Sciences, Tehran, Iran (June 2008)
- "The role of Jun and JNK in death of cortical neurons"
9th Iranian Congress of Toxicology and Poisoning, Shiraz, Iran (May 2006)
- "Desensetization of G-protein coupled receptors"
Dept of Pharmacology, Tehran University of Medical Sciences, Tehran, Iran (October 2002)

Research Interests:

- Cell signaling in cancer and Cell cycle inhibition
- Signaling crosstalk and system biology
- Pharmacogenetic and Toxicogenetic
- Signaling in Neuronal apoptosis
- Protein functional domain analysis

Other interests:

- Evolutional bases of life
- History and Inter-and Intra-cultural similarities in nations
- Philosophy and logic in Science
- Science links in Quran
- Automobiles, airplanes
- Astronomy and Physics of time

Technical Experiences:

- Cell culture and In vitro Cell Biology technique
- Cell death and cell growth assays
- In Vitro signaling assays
- Immunostainig and immune assays
- RNA and protein expression assays
- Flowcytometry and FACS analysis
- Recombinant protein technology
- Immunoprecipitation and Protein purification
- Various molecular biology techniques including:
- BRET and FRET assays
- Yeast two hybrid system
- Pharmacogenetic & Pharmacogenomics
- Animal colony breeding and genotyping
- Animal behavioral assays:

Computer Knowledge

- Familiar with Macintosh and DOS-Windows based programs
- MS Office, Open Office, iWorks
- SPSS, Prism, inStat
- CorelDraw, Photoshop
- File maker pro, Access
- various web browsers: Netscape, Explorer, Firefox, Safari,..
- Eudora, Mail, Outlook

Teaching

Ph.D. Program

- 2003-present Advance Pharmacology, Ph. D. Toxicology program,
Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran
(*Advance concepts in receptors, G protein coupled receptors, Receptor desensitization, Tyrosine kinase receptors, MAPK pathways*)
- 2003-present Advance Toxicology, Ph. D. Toxicology program,
Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran
(*Immunotoxicology, Hematotoxicology*)
- 2005-present Cellular and Molecular Toxicology, Ph. D. Toxicology program,
Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran
(*Apoptosis, RNA and DNA analyses, Western Blot, Protein interaction, Gene expression, Microarray*)
- 2005-present Methodology in Toxicology and Pharmacology, Ph. D. Toxicology program,
Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran
(*Sampling and Data analyses, Receptor study methodology*)
- 2009-present Cell signaling in proliferation, cell cycle and apoptosis, Ph.D. Molecular Medicine,
School of Advanced Medical Technologies, Tehran Univ. of Medical sciences, Tehran, Iran
(*Receptors and Receptor desensitization, G protein coupled receptors, Tyrosine kinase receptors and MAPK pathways, Apoptosis, System biology*)
- 2009-present Methods in Drug Safety, Ph. D. Drug Control,
Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran
(*PCR, RT-PCR, Western Blot*)
- 2011-present Molecular cell biology, Ph. D. program in Pharmaceutical Nantotechnology
Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran
(*Basic Cell biology concept, Cell signaling, Proliferation, Apoptosis*)
- 2011-present Molecular & Cellular biology, Ph. D. program in pharmaceutical Biomaterial,
Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran
(*Basic Cell biology concept, Cell signaling, Proliferation, Apoptosis*)
- 2001-2011 Toxicological informatics, Ph. D. Toxicology program,
Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran
(*Graph pad prism, Endnote, Excel*)
- 2003-2011 Animal Cell culture, Ph. D. Biotechnology program,
Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran
(*Neuronal culture, Genetic modification of cell, Hybridoma*)
- 2010-2010 Cell signal transduction, Ph.D. Tissue Engineering,
School of Advanced Medical Technologies, Tehran Univ. of Medical sciences, Tehran, Iran
(*Receptors and Receptor desensitization, G protein coupled receptors, Tyrosine kinase receptors and MAPK pathways*)
- 2001 Molecular approach in drug and toxin kinetics, Ph. D. Toxicology program,
Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran
(*RNA and DNA analyses, Western Blot, , Gene expression*)
- 2003-2004 Molecular cell biology, Ph. D. program in Biotechnology,
Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran

- 2005-2006 *(Basic Cell biology concept, Proliferation, Apoptosis)*
Comparative Biochemistry, Ph. D. Biochemistry program,
 Faculty of Basic Sciences, Tarbiat Modares University, Tehran, Iran
(Pharmacodynamics & receptors, Cell signaling, Protein interaction)
- 2010 Methods in Biotechnology, Ph.D. Molecular Medicine,
 School of Advanced Medical Technologies, Tehran Univ. of Medical sciences,
 Tehran, Iran *(PCR, RT-PCR, Western Blot, Protein interaction, Gene expression, Microarray)*

Pharm.D. program

- 2001-present Pharmacology I, Pharm. D. program,
 Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran
(Pharmacodynamics & receptors, Cell signaling)
- 2001-present Pharmacology II, Pharm. D. program,
 Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran
(Immunopharmacology, Pharmacogenetics, Cancer chemotherapy, Gene therapy)
- 2001-present Toxicology, Pharm. D. program,
 Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran
(Immunotoxicology, Hematotoxicology)
- 2001-present Poisoning, Pharm. D. program,
 Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran
(Antibiotics poisoning, Hormonal poisoning)
- 2005-present Animal Cell culture, Pharm. D. program,
 Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran
(Genetic modification, Biochemical assays, Cell cycle)
- 2001-present Applied Toxicology, Pharm. D. program,
 Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran
- 2001-2011 Applied Pharmacology, Pharm. D. program,
 Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran
(Isolated organ, Litsearch & Bibliography)
- 1991-1992 Pharmacy training, Pharm. D. program,
 Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran
- 1991-1993 Toxicology, Pharm. D. program,
 Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran
- 2004-2005 Cellular & Molecular Biology, Pharm. D. program,
 Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran

M.D. program

- 2001 Pharmacology, M. D. program, *(Pharmacodynamics & receptors, Autonomic systems)*
 Faculty of Medicine, Gazvin University of Medical sciences, Gazvin, Iran
- 2001 Pharmacology, M. D. program, *(Pharmacodynamics & receptors, Autonomic systems)*
 Faculty of Medicine, Artesh University of Medical sciences, Tehran, Iran

M.Sc. Program

- 1992-1994 Pharmacology, M.Sc. nursing program,
 Faculty of Medicine, Shahid Beheshti University of Medical Science, Tehran, Iran
- 1998-1999 Molecular Biology, M.Sc. Cellular Medicine program,

- 2001 Faculty of Graduate studies, University of Ottawa, Ottawa, Canada
Biological effects of Drugs, M.Sc. Toxicology program,
 Faculty of Medicine, Tehran University of Medical sciences, Tehran, Iran
- 2001 Carcinogenicity, M.Sc. Toxicology program,
 Faculty of Medicine, Tehran University of Medical sciences, Tehran, Iran
- 2003-2004 Pharmacogenomics, M.Sc. Biotechnology,
 Faculty of Science, Tehran University, Tehran, Iran

Publications: *h index (05-2019):30*

Thesis:

M.H. Ghahremani. (2000) G protein Specificity of Dopamine D2S Receptor Signaling in Cell Growth and Proliferation. Ph.D. Thesis. Dept of Pharmacology and Therapeutics, McGill University, Montreal, Canada.

M.H. Ghahremani. (1989) Developmental changes in opioid, muscarinic and adrenergic receptors in avian oesophagus during aging period. Pharm. D. Thesis. School of Pharmacy, Tehran University, Tehran, Iran.

Articles:

- 1- Seyedabadi M, **Ghahremani MH**, Albert PR. Biased Signaling of G Protein Coupled Receptors (GPCRs): Molecular Determinants of GPCR/Transducer Selectivity and Therapeutic Potential. *Pharmacol Ther.* 2019 May 7. pii: S0163-7258(19)30080-4. *In press*. doi: 10.1016/j.pharmthera.2019.05.006. Review.
- 2- Sheibani M, Faghir-Ghanesefat H, Dehpour S, Keshavarz-Bahaghighat H, Sepand MR, **Ghahremani MH**, Azizi Y, Rahimi N, Dehpour AR. Sumatriptan protects against myocardial ischaemia-reperfusion injury by inhibition of inflammation in rat model. *Inflammopharmacology.* 2019 Mar 30. *In press*. doi: 10.1007/s10787-019-00586-5.
- 3- Shokri Afra H, Zangoeei M, Meshkani R, **Ghahremani MH**, Ilbeigi D, Khedri A, Shahmohamadnejad S, Khaghani S, Nourbakhsh M. Hesperetin is a potent bioactivator that activates SIRT1-AMPK signaling pathway in HepG2 cells. *J Physiol Biochem.* 2019 May 15. *In press*. doi: 10.1007/s13105-019-00678-4.
- 4- Eslamparast A, Abbasgholizadeh R, Ostad SN, Gharghabi M, **Ghahremani MH**. N-Terminal Domain of Fragile Histidine Triad Exerts Potent Cytotoxic Effect in HT1080 Cells and Increases Doxorubicin Cytotoxicity. *Iran J Pharm Res.* 2019 Winter;18(1):254-262.
- 5- Mahmoudian J, Ghods R, Nazari M, Jeddi-Tehrani M, **Ghahremani MH**, Ostad SN, Zarnani AH. Expression profiling of plac1 in murine cancer cell lines. *Exp Oncol.* 2019 Mar;41(1):7-13.
- 6- Hashemi F, Hormozi-Nezhad MR, Corbo C, Farvadi F, Shokrgozar MA, Mehrjoo M, Atyabi F, **Ghahremani MH**, Mahmoudi M, Dinarvand R. Laser irradiation affects the biological identity and cellular uptake of plasmonic nanoparticles. *Nanoscale.* 2019 Mar 28;11(13):5974-5981. doi: 10.1039/c8nr09622h.
- 7- Mogharabi-Manzari M, **Ghahremani MH**, Sedaghat T, Shayan F, Faramarzi MA. A Laccase Heterogeneous Magnetic Fibrous Silica-Based Biocatalyst for Green and One-Pot Cascade Synthesis of Chromene Derivatives. *European Journal of Organic Chemistry* 2019 (8), 1741-47.

- 8- Kaviani M, Keshtkar S, Azarpira N, Aghdaei MH, Geramizadeh B, Karimi MH, Shamsaeefar A, Motazedian N, Nikeghbalian S, Al-Abdullah IH, **Ghahremani MH**. Cytoprotective effects of olesoxime on isolated human pancreatic islets in order to attenuate apoptotic pathway. *Biomed Pharmacother*. 2019 Apr;112:108674. doi:10.1016/j.biopha.2019.108674.
- 9- Khedri A, Khaghani S, Kheirollah A, Babaahmadi-Rezaei H, Shadboorestan A, Zangooei M, Afra HS, Meshkani R, **Ghahremani MH**. Signaling Crosstalk of FHIT, p53, and p38 in etoposide-induced apoptosis in MCF-7 cells. *J Cell Biochem*. 2019 Jun;120(6):9125-9137. doi: 10.1002/jcb.28188.
- 10- Gholizadeh F, **Ghahremani MH**, Aliebrahimi S, Shadboorestan A, Ostad SN. Assessment of Cannabinoids Agonist and Antagonist in Invasion Potential of K562 Cancer Cells. *Iran Biomed J*. 2019 Mar;23(2):153-8.
- 11- Shalmani AA, **Ghahremani MH**, Jeivad F, Shadboorestan A, Hassanzadeh G, Beh-Pajoo A, Ganbari-Erdi M, Kasirzadeh S, Mojtahedzadeh M, Sabzevari O. Monomethyl fumarate alleviates sepsis-induced hepatic dysfunction by regulating TLR-4/NF- κ B signalling pathway. *Life Sci*. 2018 Dec 15;215:152-158. doi: 10.1016/j.lfs.2018.11.010.
- 12- Salek-Maghsoudi A, Hassani S, Momtaz S, Shadboorestan A, Ganjali MR, **Ghahremani MH**, Hosseini R, Norouzi P, Abdollahi M. Biochemical and molecular evidence on the role of vasp in early detection of the insulin resistance in a rat model of high-fat diet and use of diazinon. *Toxicology*. 2019 Jan 1;411:1-14. doi: 10.1016/j.tox.2018.10.014..
- 13- Shojapour M, Mosayebi G, Hajihosseini R, Noorbakhsh F, Mokarizadeh A, **Ghahremani MH**. A Simplified Protocol for the Purification of Schwann Cells and Exosome Isolation from C57BL/6 Mice. *Rep Biochem Mol Biol*. 2018 Oct;7(1):9-15.
- 14- Shadboorestan A, Tarfiee GA, Montazeri H, Sepand MR, Zangooei M, Khedri A, Ostad SN, **Ghahremani MH**. Invasion and migration of MDA-MB-231 cells are inhibited by block of AhR and NFAT: role of AhR/NFAT1/ β 4 integrin signaling. *J Appl Toxicol*. 2019 Feb;39(2):375-384. doi: 10.1002/jat.3728. Epub 2018 Oct 7. PubMed
- 15- Akbari Nakhjavani S, Khalilzadeh B, Samadi Pakchin P, Saber R, **Ghahremani MH**, Omid Y. A highly sensitive and reliable detection of CA15-3 in patient plasma with electrochemical biosensor labeled with magnetic beads. *Biosens Bioelectron*. 2018 Dec 30;122:8-15. doi: 10.1016/j.bios.2018.08.047. Epub 2018 Aug 23.
- 16- Zangooei M, Noorbakhsh M, **Ghahremani MH**, Meshkani R, Khedri A, Shadboorestan A, Shokri Afra H, Shahmohammadnejad S, Mirmiranpour H, Khaghani S. Investigating the effect of visfatin on ER α phosphorylation (Ser118 and Ser167) and ERE-dependent transcriptional activity. *EXCLI J*. 2018 Jun 4;17:516-525. doi: 10.17179/excli2018-1299. eCollection 2018.
- 17- Farvadi F, **Ghahremani MH**, Hashemi F, Reza Hormozi-Nezhad M, Raoufi M, Zanganeh S, Atyabi F, Dinarvand R, Mahmoudi M. Cell shape affects nanoparticle uptake and toxicity: An overlooked factor at the nanobio interfaces. *J Colloid Interface Sci*. 2018 Dec 1;531:245-252. doi: 10.1016/j.jcis.2018.07.013.
- 18- Mobini GR, Ghafari A, Amanpour S, Fateh R, **Ghahremani MH**, Muhammadnejad S, Dehpour AR, Akbari A, Hoseiniharouni SM, Kazemirad E, Bolhassani M, Heidari M. In vivo identification of novel TGIF2LX target genes in colorectal adenocarcinoma using the cDNA-AFLP method. *Arab J Gastroenterol*. 2018 Jun;19(2):65-70. doi: 10.1016/j.ajg.2018.05.001. Epub 2018 Jun 28.

- 19- Abdollahi S, **Ghahremani MH**, Setayesh N, Samadi N. Listeria monocytogenes and Salmonella enterica affect the expression of nisin gene and its production by Lactococcus lactis. Microb Pathog. 2018 Oct;123:28-35. doi:10.1016/j.micpath.2018.06.024.
- 20- Gholizadeh F, **Ghahremani MH**, Aliebrahimi S, Shadboorestan A, Ostad SN. Assessment of Cannabinoids Agonist and Antagonist in Invasion Potential of K562 Cancer Cells. Iran Biomed J. 2019 Mar;23(2):153-8. Epub 2018 Jun 9.
- 21- Neyazi N, Motevaseli E, Khorramizadeh MR, Mohammadi Farsani T, Nouri Z, Nasli Esfahani E, **Ghahremani MH**. Inhibition of Insulin Degrading Enzyme and Insulin Degradation by UV-Killed Lactobacillus acidophilus. Med Sci (Basel). 2018 May 11;6(2). pii: E36. doi: 10.3390/medsci6020036.
- 22- Keshtkar S, Azarpira N, **Ghahremani MH**. Mesenchymal stem cell-derived extracellular vesicles: novel frontiers in regenerative medicine. Stem Cell Res Ther. 2018 Mar 9;9(1):63. doi: 10.1186/s13287-018-0791-7. Review.
- 23- Estiri H, Fallah A, Soleimani M, Aliaghaei A, Karimzadeh F, Babaei Abraki S, **Ghahremani MH**. Stable Knockdown of Adenosine Kinase by Lentiviral Anti-ADK miR-shRNAs in Wharton's Jelly Stem Cells. Cell J. 2018 Apr;20(1):1-9. doi: 10.22074/cellj.2018.4916.
- 24- Sharif S, **Ghahremani MH**, Soleimani M. Induction of morphological and functional differentiation of human neuroblastoma cells by miR-124. J Biosci. 2017 Dec;42(4):555-563. PubMed PMID: 29229874.
- 25- Rahmanian N, Tarighi P, Gharghabi M, Torshabi M, Tarfie GA, Mohammadi Farsani T, Ostad SN, **Ghahremani MH**. Truncated forms of RUNX3 Unlike Full Length Protein Alter Cell Proliferation in a TGF- β Context Dependent Manner. Iran J Pharm Res. 2017 Summer;16(3):1194-1203.
- 26- Keshavarz-Bahaghighat H, Sepand MR, **Ghahremani MH**, Aghsami M, Sanadgol N, Omid A, Bodaghi-Namileh V, Sabzevari O. Acetyl-L-Carnitine Attenuates Arsenic-Induced Oxidative Stress and Hippocampal Mitochondrial Dysfunction. Biol Trace Elem Res. 2017 Nov 30. doi: 10.1007/s12011-017-1210-0.
- 27- Sharif S, **Ghahremani MH**, Soleimani M. Delivery of Exogenous miR-124 to Glioblastoma Multiform Cells by Wharton's Jelly Mesenchymal Stem Cells Decreases Cell Proliferation and Migration, and Confers Chemosensitivity. Stem Cell Rev. 2017 Nov 28. doi: 10.1007/s12015-017-9788-3.
- 28- Mohammad Jafari R, **Ghahremani MH**, Rahimi N, Shadboorestan A, Rashidian A, Esmaeili J, Ejtemaei Mehr S, Dehpour AR. The anticonvulsant activity and cerebral protection of chronic lithium chloride via NMDA receptor/nitric oxide and phospho-ERK. Brain Res Bull. 2017 Nov 2;137:1-9. doi:10.1016/j.brainresbull.2017.10.015.
- 29- Razazan A, Behravan J, Arab A, Barati N, Arabi L, Gholizadeh Z, Hatamipour M, Reza Nikpoor A, Momtazi-Borojeni AA, Mosaffa F, **Ghahremani MH**, Jaafari MR. Conjugated nanoliposome with the HER2/neu-derived peptide GP2 as an effective vaccine against breast cancer in mice xenograft model. PLoS One. 2017 Oct 18;12(10):e0185099. doi: 10.1371/journal.pone.0185099. eCollection 2017.
- 30- Nejadmoghaddam MR, Zarnani AH, Ghahremanzadeh R, Ghods R, Mahmoudian J, Yousefi M, Nazari M, **Ghahremani MH**, Abolhasani M, Anissian A, Mahmoudi M, Dinarvand R. Placenta-

specific1 (PLAC1) is a potential target for antibody-drug conjugate-based prostate cancer immunotherapy. *Sci Rep*. 2017 Oct 17;7(1):13373. doi: 10.1038/s41598-017-13682-9.

- 31- Jazayeri SH, Amiri-Yekta A, Gourabi H, Abd Emami B, Halfinezhad Z, Abolghasemi S, Fatemi N, Daneshipour A, **Ghahremani MH**, Sanati MH, Khorramizadeh MR. Comparative Assessment on the Expression Level of Recombinant Human Follicle-Stimulating Hormone (FSH) in Serum-Containing Versus Protein-Free Culture Media. *Mol Biotechnol*. 2017 Dec;59(11-12):490-498. doi:10.1007/s12033-017- 0037-4.
- 32- Zafarvahedian E, Roohi A, Sepand MR, Ostad SN, **Ghahremani MH**. Effect of metformin and celecoxib on cytotoxicity and release of GDF-15 from human mesenchymal stem cells in high glucose condition. *Cell Biochem Funct*. 2017 Oct;35(7):407-413. doi: 10.1002/cbf.3289.
- 33- Mahdavian P, Bahadorikhalili S, Navaei-Nigjeh M, Vafaei SY, Esfandyari-Manesh M, Abdolghaffari AH, Daman Z, Atyabi F, **Ghahremani MH**, Amini M, Lavasanifar A, Dinarvand R. Peptide functionalized poly ethylene glycol-polycaprolactone nanomicelles for specific cabazitaxel delivery to metastatic breast cancer cells. *Mater Sci Eng C Mater Biol Appl*. 2017 Nov 1;80:301-312. doi:10.1016/j.msec.2017.05.126.
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مقالات به فارسی:

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Gene submission and patents

ابداع و اختراع

- ۱- کلون کردن ژن RGS-17 انسانی برای اولین بار- ثبت شده در Genebank
- 1-M.H. Ghahremani, M. Daigle, P.R. Albert (1999), Homo sapiens regulator of G-protein signaling-17 (RGS-17) mRNA, complete cds. *Genbank direct submission.*
- ۲- کلون کردن ژن Oppassum GRK-2 برای اولین بار- ثبت شده در Genebank
- 2-P.M.C. Lembo, **M.H. Ghahremani**, P. R. Albert (1999), Oppassum G protein Receptor kinase 2 (GRK-2) mRNA, complete cds. *Genbank direct submission*
- ۳- فناوری ساخت و کلونینگ ژن نو ترکیب tPA انسانی جهت تولید داروی نو ترکیب. سازان شهریاری، اردشیر گلیانی، **محمد حسین قهرمانی**، سید ناصر استاد. ثبت اختراع در ایران- ۱۳۸۵
- 3- Cloning and production of human tPA, 2006, Iranian Patent
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۵- فرایند کلونینگ و تولید فاکتور IX انسانی در سلولهای CHO و HEK به منظور درمان هموفیلی نوع B. محمد حسین قهرمانی، نازنین دده بیگی. ثبت اختراع در ایران - ۱۳۸۷

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