Sayyed Mohammad Hossein Ghaderian

Professor of Medical Genetics

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· **Education:**

I. Qualifications:

2007 University of Oklahoma- University of Bradford

Post- Doctoral Fellowship in Paediatric Human Genetics

2006 University of Bradford

PhD in human genetics

2004 University of Bradford

MPhil in Biomedical sciences

2001 University of Bradford

Six months MSc courses (Biomedical Sciences Courses)

1994 Shahid Beheshti University of Medical Sciences

(Tehran-Iran)

Doctor of Medicine (MD)

1987 Adab High School

Diploma in Biology & Chemistry

1986 Shareati High School

Diploma in Mathematics & Physics

II. Thesis:

Post Doct thesis' titles:

a. The presence of a *BRCA1*and *BRCA2* mutation and sensitivity for the induction of micronuclei and defect in the repair of DNA in breast cancer patients after long term chemotherapy.

b. Assessment of neurofibromin involvement in microtubule-mediated intracellular signal transduction pathways in neurofibromatosis patients.

Three methods are using for these researches which are: Micronuclei technique, Comet assay, and FISH technique. Blood samples of patients are using as a sample.

Supervisors:

Professor J Mulvihill; Kimberly V. Talley Chair of Genetics, Professor of Paediatrics, Director, Programme In Human Genetics, University of Oklahoma, USA.

Professor D Anderson; PhD, DipEd, CBiol, FIBiol, FATS, FIFST, FRCPath., Professor of Biomedical Sciences and Established Chair, University of Bradford, UK.

PhD thesis' title: Pathogenic mechanisms in varicose vein disease.

I used 12 specific antibodies to determine the morphological changes of the venous wall and worked with a new generation of Light Microscope and Transmission Electron Microscope to improve my findings. Moreover, another six antibodies were used to show the role of hypoxia in varicose veins. RT-PCR as a qualified method was used to improve my results.

Supervisors:

Dr N. Lindsey; Professor in Cellular Pathology, Biomedical Sciences Department in University of Bradford

Dr A.M. Graham; Associated professor in Biochemistry, Biomedical Sciences Department in University of Bradford

Professor S. Homer-Vanniasinkam ; Consultant Vascular Surgeon in the Vascular Surgical Unit, The General Infirmary at Leeds

MD thesis' title: Ovarian Implantation; Animal models research. Surgical and physiological assessment was used in this research. Macaque and Dog were found the good animals for ovarian implantation.

Supervisors:

Dr M Fallahian; Associated professor in Gynocology and Obstetrics, Shaheed Beheshti University of Medical Sciences & Health Services (Tehran-Iran).

Professor H Peyrovi; Vascular Surgeon, Shahid Beheshti University of Medical Sciences (Tehran-Iran).

- **Academic History**

- Vice Chancellor for research in Urogenital Stem Cell Research Center of Shahid Beheshti University of Medical Sciences (Tehran-Iran)(2012-Now)
- Member of head committee of human Genetics in Genetics Society (2008-2014)
- Member of research committee in Iranian Biological Resource Center (2013-2019)
- Board member of Genetics in Ministry of Health and Medical Education (2008-2014 and 2019-Now)
- Member of M.D Education Manifestation and Support in Ministry of Health and Medical Education (2008-2013)
- Member of Basic Science Committee in Medical Journal Selection; Committee Under Observation of Research Committee in Ministry of Health and Medical Education (2006-2009)
- Academic member of New techniques and Modern Sciences School in Gorgan Medical science University (2008-2010)
- Member of Education & Research in Molecular Medicine committee (2006-2009)
- Member of Research Committee in Research Center of Nanotechnology and tissue engineering of Shahid Beheshti University of Medical Sciences (Tehran-Iran)(2006-2019)
- Member of Research Committee in Molecular and cell Biology of Research Center of Shahid Beheshti University of Medical Sciences (Tehran-Iran)

- **Employment History:**

2007-Now	Shahid Beheshti University of Medical Sciences (Tehran-Iran) Associated professor of Medical Genetics department
2013-2014	Medical school chancellor of Islamic Azad University-Tehran Medical Branch (2013-2014)
2017-Now	Loghman Hakim Hospital: Genetic counseling clinic and Molecular research lab advisor
2022-Now	Cancer Research Center (CRC): Genetic Counsellor in breast cancer clinic
2022-Now	West Nikan Hospital: Genetic Counsellor in General Clinic
2022-Now	East Nikan Hospital: Genetic Counsellor in General Clinic
2008-Now	Erfan Hospital: IVF Lab (PGD and PND) and Genetic counsellor
2008-2010	Labafinejad Hospital: Pathology lab and internal medicine ward (Genetic counseling)
2006-2007	University of Oklahoma Paediatric human genetic assistant and Genetic Counsellor Research fellowship in genetics diseases
2002-2005	Biomedical Sciences Department of University of Bradford Lecturer assistant/demonstrator in laboratory practical sessions A member of Research Staff and Student Liason Group for two years
1998-2001	Manager of Bou Ali Hospital Bou Ali centre had 420 active beds in educational and clinical units
1997-1998	Assistant Executive Vice-Chancellor of Shaheed Beheshti

University of Medical Sciences (Tehran-Iran)

1995-1997 Assistant director for treatment and Manager of Imam Khomeynei Hospital (90 beds hospital) in Firozkoh city

Firozkoh is a city near Tehran (capital city of Iran)

1994-1995 A. Iranshahr Health and Clinical Skills Learning Centre

Clinician and guidance of Health education programme.

B. Iranshahr Hospital and Health and Clinical Centre

Clinician, Health and Treatment Trainer.

1992-1994 Assistant manager of Norplant Implantation project in three cities of Iran.

Skills and Personal Qualities:

- Communication skills, IT skills, team work, problem solving (Powerpoint, Excel, SPSS, Adobe Photoshop and FTP programs, Bioinformatics analysis) have been developed and used in different university and seminar presentations as part of my PhD degree.

- The experience gained in Hospital and University and attending monthly as a lecturer in the Health and Clinical Skills Learning Centre (Iran) helped me to apply such skills in the Biomedical Sciences Department in Bradford as a laboratory demonstrator for BS and MSc students.

- My achievement in obtaining, in a relatively short time, human samples for my project from two different countries, Iran and the UK, demonstrated my experience as a member the of academic staff in a general hospital.

- Laboratory techniques like immunostaining, Transmission Electron Microscopy, PCR, RT-PCR, Real Time PCR, CGH array, Micronuclei, Commet, FISH techniques, Flow cytometry help me to develop my project on varicose vein and human genetics diseases and leading me to do 12 projects in Iran.

- The experience of researching in different areas (Ovarian Implantation in dog; the incidence of ATN after massive injury; 1992 earthquake in Iran; analysis of injury after chemical poisoning; side effects of chemical weapons used in war, 1991) improved my capability of co-ordinating the PhD project with three supervisors.

- The technical experience of fixing and mending laboratory and medical instruments in hospital.

- The technical experience of cytogenetic and molecular diagnostic testing for infertility and recurrent abortion

in Erfan Hospital.

· **Interest and Achievements:**

- Computing and digital Photography are my interests. I am using these skills for entertainment and as a hobby and for my project.

- As a member of The Biochemical Society, the Centre for Bioscience (formerly LTSN Bioscience) and British Society for Human Genetics (BSHG) I try to get involved in subjects which interest me. These kinds of involvements have enabled me to manage and sort out problems as part of my research.

· Publications:

Published Full text papers (Engligh)

1- Mohsen Ahmadi, Firouzeh Morshedzadeh, **Sayyed Mohammad Hossein Ghaderian**, Soudeh Ghafouri-Fard. Emerging role of miR-520a in human diseases. Pathol Res Pract., 2024 Oct:262:155545. doi: 10.1016/j.prp.2024.155545.

2- Tutunchi, S., Bereimipour, A., **Ghaderian, S.M.H.** Hsa_circITGA4/ miR-1468/EGFR/ PTEN a Master Regulators Axis in Glioblastoma Development and Progression. Molecular BiotechnologyThis link is disabled., 2024, 66(1), pp. 90–101.

3- Mohsen Ahmadi, Amirhossein Mohajeri Khorasani, Firouzeh Morshedzadeh, Negin Saffarzadeh, **Sayyed Mohammad Hossein Ghaderian**, Soudeh Ghafouri-Fard b, Pegah Mousavi HLF is a promising prognostic, immunological, and therapeutic biomarker in human tumors. Biochemistry and Biophysics ReportsThis link is disabled., 2024, 38, 101725.

4- Sameni M, Moradbeigi P, Hosseini S, **Ghaderian SMH**, Jajarmi V, Miladipour AH, Basati H, Abbasi M, Salehi M. ZIF-8 Nanoparticle: A Valuable Tool for Improving Gene Delivery in Sperm-Mediated Gene Transfer. Biol Proced Online. 2024 Jan 26;26(1):4. doi: 10.1186/s12575-024-00229-2.

5- Pishnamazi SM, **Ghaderian SMH**, Irani S, Ardeshirylajimi A. Polycaprolactone/poly L-lactic acid nanofibrous scaffold improves osteogenic differentiation of the amniotic fluid-derived stem cells. In Vitro Cell Dev Biol Anim. 2023 Dec 20. doi: 10.1007/s11626-023-00838-3.

6- Ahmadi M, Najari-Hanjani P, Ghaffarnia R, **Ghaderian SMH**, Mousavi P, Ghafouri-Fard S. The hsa-miR-3613-5p, a potential oncogene correlated with diagnostic and prognostic merits in kidney renal clear cell carcinoma. Pathol Res Pract. 2023 Nov:251:154903. doi: 10.1016/j.prp.2023.154903. Epub 2023 Oct 21.

7- Mohsen Ahmadi [1], Firouzeh Morshedzadeh , **Sayyed Mohammad Hossein Ghaderian** , Pegah Mousavi , Leila Habibipour , Maryam Peymani , Mohammad Reza Abbaszadegan , Soudeh Ghafouri-Fard. Carcinogenic roles of MAFG-AS1 in human cancers. Clin Transl Oncol. 2024, 26(1), pp. 52–68Haghighi SS, **Ghaderian SMH**, Rakhshan A, Motamed N. Evaluation of the Expression of miRNAs, LncRNAs, and their Target Gene, Caspase 3 in Glioblastoma Multiform: A Case-Control Study. Mol Biotechnol. 2023 Jan 13. doi: 10.1007/s12033-022-00632-8. Online ahead of print.

8- S. Keipour, M. Emtyazjoo, S.M.H. Ghaderian, P. Eghtesadi Araghi. Cytotoxic and antibacterial activities of Holothuria (Mertenssiothuria) leucospilota extracts. Iranian Journal of Fisheries Sciences, 2023, 22(1), pp. 138–155.

9- Abbaskhani H, Seifati SM, Salmani T, Vojdani S, Al-Rubaye S, Yaseen R, Hajiesmaeili Y, **Ghaderian SMH**. Evaluating changes in the expression of BCL-2 gene, lncRNA SRA, and miR-361-3p in unexplained recurrent pregnancy loss .Nucleosides Nucleotides Nucleic Acids. 2022;41(9):891-899. doi: 10.1080/15257770.2022.2085298.

10- S Keipour, M Emtyazjoo, **SMH Ghaderian**, P Eghtesadi Araghi. Cytotoxic and antibacterial activities of Holothuria (Mertenssiothuria) leucospilota extracts. Iranian Journal of Fisheries Sciences, 22(1) 2023 138-155

11- Shirin Setoodeh Haghighi, **Sayyed Mohammad Hossein Ghaderian**, Azadeh Rakhshan, Nasrin Motamed. Evaluation of the Expression of miRNAs, LncRNAs, and their Target Gene, Caspase 3 in Glioblastoma Multiform: A Case-Control Study. Mol Biotechnol. 2023 Sep;65(9):1444-1452. doi: 10.1007/s12033-022-00632-8. Epub 2023 Jan 13

12- Maryam Ahani, **Sayyed Mohammad Hossein Ghaderian**, Mitra Mehr Azma, Koosha Kamali,Bahar Naghavi Gargari and Samaneh Vojdani. Association of *STAT3*, *PTPRT*, *TNK2-AS1*, *LINC-ROR* Genes Expression Level with Prostate Cancer and Benign Prostatic Hyperplasia. Int J Cancer Manag. 2022 January; 15(1):e120188.

13- Zahra Fazeli, Zahra Esmaeilizadeh, Mir Davood Omrani, **Sayyed Mohammad Hossein Ghaderian** , Masoumeh Rajabibazl. HEK293-Conditioned Medium Altered the Expression of Renal Markers WT1, CD2AP, and CDH16 in the Human Adipose Mesenchymal Stem Cells. Regenerative Engineering and Translational Medicine: 2022, https://doi.org/10.1007/s40883-021-00246-7

14- Molud Ghanbari, Amir Hossein Miladipour, **Sayyed Mohammad Hossein Ghaderian**, Zahra Fazeli, Shirin Rajabi, Masoumeh Rajabibazl. Association between CRP polymorphisms and susceptibility to the diabetic nephropathy; A case-control study. Meta Gene https://doi.org/10.1016/j.mgene.2021.101009

15- Zahra Fazeli**, Sayyed Mohammad Hossein Ghaderian**, Hossein Najmabadi, Mir Davood Omrani. Understanding the Molecular Basis of Fragile X Syndrome Using Differentiated Mesenchymal Stem Cells. *Iranian Journal of Child Neurology*, Vol. 16 No. 1 (2022), https://doi.org/10.22037/ijcn.v15i4.22070

16- Ahani M, **Ghaderian SMH**, Mehr Azma M, Kamali K, Naghavi Gargari B, Bahramali G, Akbarzadeh R. Differential gene expression of BCL-2, ZEB2-AS1 and BALR-2 in prostate cancer and benign prostatic hyperplasia. Andrologia. 2022 Apr;54(3):e14344. doi: 10.1111/and.14344. Epub 2021 Dec 5.

17- **Sayyed Mohammad Hossein Ghaderian**, Reza Akbarzadeh, Saghar Salehpour. Involvement of single nucleotide polymorphisms in ovarian poor response. J Assist Reprod Genet 2021 May 29. doi: 10.1007/s10815-021-02242-w.

18- Samaneh Vojdani, **Sayyed Mohammad Hossein Ghaderian**, Alireza Zali, Aazadeh Rakhshan, Saeed Oraee Yazdani, Arash Poursheikhani, Farahnaz Bidari Zerehpoush, Giuve Sharifi. Altered expression of EGFR and miR-34a derived from serum and tumoral tissue was associated with glioblastoma multiform. Experimental and Molecular Pathology 2021, https://doi.org/10.1016/j.yexmp.2021.104655

19- Sara Tutunchi , Saeedeh Akhavan , Ahmad Bereimipour , and **Sayyed Mohammad Hossein Ghaderian**. Evaluation of Important Molecular Pathways and Candidate Diagnostic Biomarkers of Noninvasive to Invasive Stages in Gastric Cancer by In Silico Analysis, Journal of Oncology 2021, Article ID 5571413, https://doi.org/10.1155/2021/5571413

20- Mahshid Sadat Hosseini, Nader Mansour Samaei, **Sayyed Mohammad Hossein Ghaderian**, Romina Dastmalchi, Sadegh Rajabi. The oncogenic role of both lncRNA PANDA and BCL2 gene in glioblastoma. Gene Reports,2021 Volume 23 (Pages: 101160) https://doi.org/10.1016/j.genrep.2021.101160.

21- Bahar Mohammadi, Zahra Esmaeilizade, Mir Davood Omrani, **Sayyed Mohammad Hossein Ghaderian**, Masoumeh Rajabibazl, Zahra Fazeli. The effect of SAG-dihydrochloride on the expression of germ cell markers in the human bone marrow- mesenchymal stem cells (BM-MSCs)" to Pharmaceutical Research. Regenerative Engineering and Translational Medicine. 2021: https://doi.org/10.1007/s40883-021-00197-z.

22- Reihane Mohammadi, Alisam Aryan, Mir Davood Omrani, **Sayyed Mohammad Hossein Ghaderian**, Zahra Fazeli. Autologous Hematopoietic Stem Cell Transplantation (AHSCT): An Evolving Treatment Avenue in Multiple Sclerosis. Biologics: Targets and Therapy. 2021:15 53–59.

23- Saja Al-Rubaye, **Sayyed Mohammad Hossein Ghaderian**, Saghar Salehpour, Tayyebali Salmani, Samaneh Vojdani, Rusul Yaseen & Reza Akbarzadeh. Aberrant expression of BAX, MEG3, and miR-214-3P genes in recurrent pregnancy loss. Gynecological Endocrinology,2021 DOI: 10.1080/09513590.2021.1897098

24- Zahra Esmaeilizade , Bahar Mohammadi , Mir Davood Omrani , **Sayyed Mohammad Hossein Ghaderian** , Masoumeh Rajabibazl , Zahra Fazeli. Preclinical studies and clinical trials with

mesenchymal stem cell for demyelinating diseases: A systematic review. Curr Stem Cell Res Ther. 2021 Feb 8. doi: 10.2174/1574888X16666210208162318.

25- Salmani T, **Ghaderian SMH**, Hajiesmaeili M, Rezaeimirghaed O, Hoseini MS, Rakhshan A, Nasiri MJ, Ghaedi H, Akbarzadeh R. Hsa-miR-27a-3p and epidermal growth factor receptor expression analysis in glioblastoma FFPE samples .Asia Pac J Clin Oncol. 2020 Oct 7. doi: 10.1111/ajco.13399. Online ahead of print.

26- Bahar Mohammadi, Zahra Esmaeilizadeh, Masoumeh Rajabibazl, **Sayyed Mohammad Hossein Ghaderian**, Mir Davood Omrani, Zahra Fazeli. Preconditioning of human adipose tissue-derived mesenchymal stem cells with HEK293-coditioned media can influence on the expression of BMP2, BMP6 and BMP11: Potential application in the treatment of renal lesions. Gene Reports 2020

27- Fatemeh Hajirezaei, **Sayyed Mohammad Hossein Ghaderian**, Mandana Hasanzad, Mohsen Nafar, Mohammad Hassan Ghadiani, Sajjad Biglari, Nasim Sohrabifar, Hossein Jafari. Methylation of the PKD1 Promoter Inversely Correlates with its Expression in Autosomal Dominant Polycystic Kidney Disease. Reports of Biochemistry & Molecular Biology, 2020 July 9, 1: 193-8.

28- Azadeh Aliarab, Bahram Yaghmaei , **Sayyed Mohammad Hossein Ghaderian** , Masoud Khoshnia , Gholamreza Roshandel , Ghader Babaei , Hamid Reza Joshaghani. Effect of gilbert' s syndrome associated polymorphic alleles (rs8175347 and rs4148323) of UDP-glucuronyl transferase on serum bilirubin level. Meta Gene 2020, December 26. 100788

29- Zahra Saadatian, Ziba Nariman-Saleh-Fam, Isa Khaheshi, Yaser Mansoori, Abdolreza Daraei, **Sayyed Mohammad Hossein Ghaderian**, Mir Davood Omrani. Peripheral Blood Mononuclear Cells Expression Levels of miR-196a and miR-100 in Coronary Artery Disease Patients. Immunol Invest. 2020 Sep 15;1-11. doi: 10.1080/08820139.2020.1791177. Online ahead of print.

30- Zahra Esmaeilizadeh , Bahar Mohammadi , Masoumeh Rajabibazl , **Sayyed Mohammad Hossein Ghaderian** , Mir Davood Omrani , Zahra Fazeli. Expression Analysis of GDNF/RET Signaling Pathway in Human AD-MSCs Grown in HEK 293 Conditioned Medium (HEK293-CM). Cell Biochem Biophys. 2020 Dec;78(4):531-539. doi: 10.1007/s12013-020-00936-z.

31- Tayyebali Salmani, **Sayyed Mohammad Hossein Ghaderian**, Mohammadreza Hajiesmaeili, Omidvar Rezaei Mirghaed, Azadeh Rakhshan, Mohammad Javad Nasiri, Mahan Mohammadi. Cyclin dependent kinase inhibitor 2A and miR-671-5p expression profile in Iranian glioblastoma multiforme. Gene Reports. 2020 19, 100620

32- Laleh Heidaria , **Sayyed Mohammad Hossein Ghaderian**,, Milad Bastami , Shadi Hosseini , Saeed Alipour Parsa, Sahel Heidari , Hossein Jafari , Nasim Sohrabifar and Maryam Pirhoushiaran.. Reverse expression pattern of sirtuin-1 and histone deacetylase-9 in coronary artery disease. Arch Physiol Biochem. 2023. 129 (1): 46-53. doi.org/10.1080/13813455.2020.1797100.

33- Zeinab Shirvani Farsani, Alireza Zahirodin, **Sayyed Mohammad Hossein Ghaderian**, Jamal Shams & Bahar Naghavi Gargari . The Role of Long Non-Coding RNA MALAT1 in Patients With Bipolar Disorder. Metab Brain Dis. 2020 May 26. doi: 10.1007/s11011-020-00580-9.

34- Sohrabifar N, **Ghaderian SMH**, Alipour Para S, Ghaedi H, Jafari H. Variation in the Expression Level of MALAT1, MIAT and XIST lncRNAs in Coronary Artery Disease Patients With and Without Type 2 Diabetes Mellitus. Arch Physiol Biochem. 2020 May 23;1-8. doi: 10.1080/13813455.2020.1768410.

35- Fazeli Z, Rajabibazl M, Faramarzi S, Omrani MD, **Ghaderian SMH**, Safavi Naini N . Correlation of *TCF4, GSK, TERT* and *TERC* Expressions with Proliferation Potential of Early and Late Culture of Human Peripheral Blood Mesenchymal Stem Cells. Cell J. 2021 Jan;22(4):431-436. doi: 10.22074/cellj.2021.6920. Epub 2020 Apr 22.

36- Nafar M, Kalantari S, **Ghaderian SMH**, Omrani MD, Fallah H, Arsang-Jang S, Samavat S, Dalili N, Taheri M, Ghafouri-Fard S. Expression Levels of lncRNAs in the Patients with the Renal Transplant Rejection. Urol J. 2019 Dec 11. doi: 10.22037/uj.v0i0.5456. [Epub ahead of print]

37- Sadegh Rajabi, Romina Dastmalchi, Mohammad Hossein Dehghan, Ali Eftekharian, Elmira Aghazadeh and **Sayyed Mohammad Hossein Ghaderian.** TJP2 Gene Mutation c.G1012A May Responsible for Congenital Hearing Loss with Incomplete Penetrance in An Iranian Pedigree. J Genet Resour2019;5(2): 143-148

38- Sohrabifar N, **Ghaderian SMH**, Vakili H, Ghaedi H, Rouhani B, Jafari H, Heidari L. MicroRNA-copy number variations in coronary artery disease patients with or without type 2 diabetes mellitus. Arch Physiol Biochem. 2019 Aug 8:1-7. doi: 10.1080/13813455.2019.1651340.

39- Saadatian Z, Nariman-Saleh-Fam Z, Bastami M, Mansoori Y, Khaheshi I, Parsa SA, Daraei A, Vahed SZ, Yousefi B, Kafil HS, Eyvazi S, **Ghaderian SMH**, Omrani MD. Dysregulated expression of STAT1, miR-150, and miR-223 in peripheral blood mononuclear cells of coronary artery disease patients with significant or insignificant stenosis. J Cell Biochem. 2019 Jul 18. doi: 10.1002/jcb.29286.

40- **Ghaderian SMH**, Akbarzadeh R, Mohajerani F, Khodaii Z, Salehpour S. The implication of single-nucleotide polymorphisms in ovarian hyperstimulation syndrome. Mol Reprod Dev. 2019 May 22: 1-8. doi: 10.1002/mrd.23171. [Epub ahead of print]

41- Jamali L, Moradi A, Ganji M, Ayati M, Kazeminezhad B, Fazeli Attar Z, Ghaedi H, **Ghaderian SMH**, Fallah-Karkan M, Ranjbar A. Potential Prognostic Role for SPOP, DAXX, RARRES1, and LAMP2 as an Autophagy Related Genes in Prostate Cancer. Urol J. 2019 Mar 18. doi: 10.22037/uj.v0i0.4935. [Epub ahead of print]

42- Heidari L, **Ghaderian SMH**, Vakili H, Salmani TA. Promoter methylation and functional variants in arachidonate 5-lipoxygenase and forkhead box protein O1 genes associated with coronary artery disease. J Cell Biochem. 2019 Aug;120(8):12360-12368. doi: 10.1002/jcb.28501.

43- Naghavi-Gargari B, Zahirodin A, **Ghaderian SMH**, Shirvani-Farsani Z. Significant Increasing of DISC2 Long Non-Coding RNA Expression as a Potential Biomarker in Bipolar Disorder**.**Neurosci Lett. 2018 Dec 29. pii: S0304-3940(18)30901-7. doi: 10.1016/j.neulet.2018.12.044. [Epub ahead of print]

44- Rouhani B, **Ghaderian SMH**, Salehi Z. Investigation of LPA sequence variants rs6415084, rs3798220 with conventional coronary artery disease in Iranian CAD patients. Hum Antibodies. 2018 Dec 21. doi: 10.3233/HAB-180353. [Epub ahead of print]

45- Fazeli Z, Faramarzi S, Ahadi A, Omrani MD, **Ghaderian SM**. Efficiency of mesenchymal stem cells in treatment of urinary incontinence: a systematic review on animal models. Regen. Med. 2018 Dec 8. https://doi.org/10.2217/rme-2018-0040

46- Saburi E, Atabati H, Kabiri L, Behdari A, Azizi M, Ardeshirylajimi A, Enderami SE, **Ghaderian SM**, Nafar M, Parvin M, Omrani MD. Bone morphogenetic protein-7 incorporated polycaprolactone scaffold has a great potential to improve survival and proliferation rate of the human embryonic kidney cells. J Cell Biochem. 2018 Dec 12. doi: 10.1002/jcb.28268. [Epub ahead of print]

47- Saffari M, **Ghaderian SMH**, Omrani MD, Afsharpad M, Shankaie K, Samadaian N. The Association of miR-let 7b and miR-548 with PTEN in Prostate Cancer. Urol J. 2018 Oct 8. doi: 10.22037/uj.v0i0.4564. [Epub ahead of print]

48- Yari M, Bitarafan S, Broumand MA, Fazeli Z, Rahimi M, **Ghaderian SMH**, Mirfakhraie R, Omrani MD. Association between Long Noncoding RNA ANRIL Expression Variants and Susceptibility to Coronary Artery Disease. Int J Mol Cell Med. 2018 Winter;7(1):1-7. doi: 10.22088/IJMCM.BUMS.7.1.1. Epub 2018 Feb 10.

49- Fazeli Z, **Ghaderian SMH**, Najmabadi H, Omrani MD. High expression of miR-510 was associated with CGG expansion located at upstream of FMR1 into full mutation. J Cell Biochem. 2018 Aug 30. doi: 10.1002/jcb.27505. [Epub ahead of print]

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51- Ardeshirylajimi A, **Ghaderian SM**, Omrani MD, Moradi SL. Biomimetic scaffold containing PVDF nanofibers with sustained TGF-β release in combination with AT-MSCs for bladder tissue engineering. Gene. 2018 Jul 17. pii: S0378-1119(18)30822-9. doi: 10.1016/j.gene.2018.07.046. [Epub ahead of print]

52- Moravvej H, Tabatabaei-Panah PS, Abgoon R, Khaksar L, Sokhandan M, Tarshaei S, **Ghaderian SMH**, Ludwig RJ, Akbarzadeh R. Genetic variant association of PTPN22, CTLA4, IL2RA, as well as HLA frequencies in susceptibility to alopecia areata. Immunol Invest. 2018 Jul 6:1-14. doi: 10.1080/08820139.2018.1480032. [Epub ahead of print]

53- Jamali L, Tofigh R, Tutunchi S, Panahi G, Borhani F, Akhavan S, Nourmohammadi P, **Ghaderian SMH**, Rasouli M, Mirzaei H. Circulating microRNAs as diagnostic and therapeutic biomarkers in gastric and esophageal cancers. J Cell Physiol. 2018 Jun 19. doi: 10.1002/jcp.26850. [Epub ahead of print]

54- Moravvej H, Tabatabaei-Panah PS, Ebrahimi E, Esmaeili N, **Ghaderian SMH**, Ludwig RJ, Akbarzadeh R. TNF-α -308G/A gene polymorphism in bullous pemphigoid and alopecia areata. Hum Antibodies. 2018 May 11. doi: 10.3233/HAB-180339. [Epub ahead of print]

55- Abdolreza Ardeshirylajimi, **Sayyed Mohammad-Hossein Ghaderian**, Mir Davood Omrani, Sadegh Lotfalah Moradi. Biomimetic scaffold containing PVDF nanofibers with sustained TGF-β release in combination with AT-MSCs for bladder tissue engineering. Gene 2018 November 676: 195-201

56- Khodaii Z, **Ghaderian SMH**, Natanzi MM. Probiotic Bacteria and their Supernatants Protect Enterocyte Cell Lines from Enteroinvasive *Escherichia coli* (EIEC) Invasion. Int J Mol Cell Med. 2017 Summer;6(3):183-189.

57- Gholami M, Mirfakhraie R, Pirjani R, Taheripanah R, Bayat S, Daryabari SA, Noori M, **Ghaderian SMH.** Association study of FOXP3 gene and the risk of 0020 pre-eclampsia**.** Clin Exp Hypertens. 2017 Dec 5:1-4. doi: 10.1080/10641963.2017.1411500.

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59- Fazeli Z, Abedindo A, Omrani MD, **Ghaderian SMH**. Mesenchymal Stem Cells (MSCs) Therapy for Recovery of Fertility: a Systematic Review. Stem Cell Rev. 2017 Sep 7. doi: 10.1007/s12015-017-9765-x. [Epub ahead of print]

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۲- ا کرم سادات طباطبائی پناه * ، رضا ا کبرزاده نجار ، **سید محمد حسین قادریان**. بررسی مولکولی ژن های Alpha-cardiac actin مشتق شده از کاردیومیو سیت هاي سلول های بنیادی جنینی. مجله تازه هاي بیوتکنولوژی سلولي- مولکولي FLK1 (Vegfr-2/KDR) دوره دوم، شماره هفتم، تابستان ۱۳۹۱ صفحه۳۹-۳۵ .

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- **Acceptance (under Publication)**

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- **Book publications:**

Published books:

- Cytogenetic abnormalities (2020) by S. M. H. **Ghaderian**, S. Tutunchi, S. Jalali-Qomi, S. Akhavan, H. Rezaeeyan, R. Tofigh, T. Dadkhah Jouibary, S. Ghanepour. ISBN: 978-622-612148-2, Shahid Beheshti University of Medical Sciences Publication, First edition, Persian.

- Medical Genetics (2019) by S. M. H. **Ghaderian**, S. Shabani, F. Soleimani, S. Aghemiri, H. Rostamian, S. Ashori Moasagh, S. Rajabi. ISBN: 978-600-422-419-2, dr khalili Publication, First edition, Persian.

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- Immunohistochemistry and Immunocytochemistry (Collection of New Sciences Laboratory Methods) (2008) by S. M. H. **Ghaderian**, A. S. Tabatabaei Panah, and R. Akbarzadeh Najar, ISBN: 978-600-5893-05-2, Dibaj publication, First edition, Persian.

- An Internatinal System for Human Cytogenetics Nomenculture (2009) (ISCN), by S. M. H. **Ghaderian**, F. Shaveysizade, ISBN: 978-600-6531-18-2, Sobhan publication, First edition, Persian.

Uunder publication process books:

- Medical Genetics

- **Abstract presentations and submissions**

BIT's 11th Annual World Congress of Regenerative Medicine & Stem Cell, November 14-16, 2017, Singapore: "Down-regulation of nestin in mesenchymal stem cells derived from peripheral blood through blocking bone morphogenesis pathway"

2nd Iranian Congress on Medical Genetics, June 20-21, 2011, Tehran Iran, Entitled: 'Matrix metalloproteinase; investigation from gene to protein as effective factor in myocardial infarction'. (In Persian)

2nd Iranian Congress on Medical Genetics, June 20-21, 2011, Tehran Iran, Entitled: 'The role of p53, bax, bcl2, and 8-OHdG in human acute myocardial infarction'. (In Persian)

2nd National & 1st International Congress on Cellular and Molecular Advances in Non-Contagious Diseases, May 16-18, 2011, Babol, Iran, Entitled: 'Investigation of matrix metalloproteinase-2 levels as effective factor in acute myocardial infarction'.

Iranian Congress on Biology and Applications of Stem Cells, April 27-29, 2010, Mashhad, Iran, Entitled: 'Mesenchymal stem cells as immune regulators in kidney transplantation'.

2011 ACMG Annual Clinical Genetics Meeting, March 16-20, 2011, Vancouver, British Colombia, Canada, Entitled: 'Tumor necrosis factor-α: investigation of gene polymorphism and regulation of TACE-TNF-α system in patients with acute myocardial infarction'.

The 2nd International Congress on Abdominal Obesity, February 24-26, 2011, Buenos Aires, Argentina, Entitled: 'Association of Helicobacter pylori infection with acute myocardial infarction'.

The 1st International Student Congress on Cell and Molecular Medicine, 17-19 February, 2011, Shiraz, Iran, Entitled: 'Obtaining characteristics comparison in Isolating Mesenchymal Stem Cells from Human Bone Marrow, Adipose Tissue, and Dental Pulp'.

Frontiers in Cardiovascular Biology Meeting, July 16-19, 2010, Berlin, Germany, Entitled: 'The role of p53, bax, bcl2, and 8-OHdG in human acute myocardial infarction'.

Frontiers in Cardiovascular Biology Meeting 2010, July 16-19, 2010, Berlin, Germany, Entitled: 'The role of p53, bax, bcl2, and 8-OHdG in human acute myocardial infarction'.

15th World Congress on Heart Disease, Annual Scientific Sessions 2010, July 24-27, 2010, Vancouver, BC, Canada, Entitled: 'Gnetic polymorphisms and plasma levels of matrix matrixmetalloproteinases in acute myocardial infarction'.

12th International Congress of Nephrology, Dialysis and Transplantation, December 15-18, 2009, Iish Island, Iran, Entitled: 'WNK1 kinase investigation in human essential hypertension'.

10th Iranian Congress of Biochemistry & 3rd International Congress of Biochemistry and Molecular Biology, November 16-19, 2009, Tehran, Iran, Entitled: 'Investigation of matrix metaloproteinase-1 levels as effective factor in myocardial infarction'.

11th Iranian Genetics Congress, May 22-24, 2010, Tehran, Iran, Entitled: 'Ethical subjects in genetic screening'.

Research experience

- Association study of candidate functional miRNA-related variants in MIR146A, UBE2Z and TCF21 and copy number variations of MIR429 and MIR22 with coronary artery disease and its risk factors.

- Evaluating rs6006460 and rs738409 variants of PNPLA3 gene association with cirrhotic patients referring to TEHRAN Hospitals.

- Genetic Variants Study of FOXP3 (rs3761548A/C, rs5902434 and rs2232365A/G) Gene and Occurrence of Pre-eclampsia in Iranian Population.

- Analysis of mutation and epigenetic changes in TSC1, TSC2 genes in Iranian patients with Tuberous Sclerosis compared with unaffected individual.

- Correlation analysis of methylation pattern of CGG repeat expansion located upstream of *FMR1* gene with expression of flanking genes and telomere length in neural cells generated from peripheral blood of mononuclear cells obtained from males affected by fragile X syndrome and permutation carrier males.

- Study of association between amplification and expression of HER-2, CCND1, MYC, AIB1 , NCoR , ESR1 and AKT genes and resistance to tamoxifen in primary breast cancer patients

- Association Analysis of 1p13, 1p32, 1q41, 2q33, 3q22,6q24, 9p21, 10q11, 12q24.3, 19p13, 21q22 Loci for CAD in Iranian patients compared with non-affected individuals.

- Investigation of MSX1،PAX9 وAXIN2 Genes in Syndromic and PITX2،IRF6،SHH , P63 Genes in Nonsyndromic form of Dental Agenesis in Iranian population

- Polymorphisms of IL-10 ،TNF-α ،IL-2 ،IL-6 ،IL-4 و TGF-β in Acute Renal Rejection in patients refer to Labafi nejad Hospital.

- Investigation of IDO and HGF genes in co-culture of Mesenchymal stem cells and activated T lymphocytes extracted from patients with Acute Renal Rejection.

- The role of apoptotic factors and soluble-FAS ligand CD 178 inflammatory factor in patients with acute myocardial infarction.

- Comparative analysis of mesenchymal stem cells derived from fat, bone marrow and dental pulp tissues in differentiation of them in culture with serum of acute kidney transplant rejection patients and their T lymphocytes *in vitro* and then analysis of differentiation of these cells on the kidney tissue in the animal model of kidney injury *in vivo.*

- Investigation and comparison of important molecular and biochemical specification among 14 kinds of probiotics extracted from world commercial products for molecular research in volunteers
- The role of matrixmetalloproteinase -1, -2, -3, and 9 and Bcl-2 factor in patients with acute myocardial infarction
- The role of p53, Bax, and DNA damage in apoptosis in patients with acute myocardial infarction
- Investigation of p16 gene mutation in patients with ameloblastic carcinoma tumor
- The effect of fasting on brain-derived neurotrophic factor, nerve growth factor, serotonin, and dopamine
- Mitogen activated protein kinase 8 interacting protein 2 (MAPK8IP2) and Pyruvate kinase muscle 2 (PKM2) polymorphisms in patients with ameloblastic carcinoma tumor
- Antibacterial and anticarcinogenic effects of sea cucumber (Holothuria sp.) extracts on Caco2 cell line and Ecoli k_{12}
- mir302s promoter function in carcinogenic cell lines as a gene therapy approach
- Dppa5a recombinant protein production in Pichia pastoris
- Efficiency of produced LIF in mammalian cells in reprocessing of mouse adult cells (the role of iPs)