Curriculum Vitae of

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EDUCATION

B.S. Animal Biology, (2004-2008) Department of Biology, Faculty of Science, University of Golestan, Iran

M.Sc. Cellular and Molecular Biology (2008-2010) Department of Cell and Molecular Biology, School ofBiology, Faculty of Science, University of Tehran

Ph.D. of Molecular Medicine, (2010-2016) Faculty of advanced medical technology, Golestan Universityof Medical Sciences, Golestan ,Iran

Computer skills

Attended in Course "Bioinformatics: computer methods in molecular and systems biology", ICGEB, Trieste, Italy, 2017.

Attended in Bioinformatics workshop on RNA sequencing data analysis, Media Teb Gene, Omics Center, Teharn, Iran, 2014.

Attended in Matlab course: primary level, Mobtakeran Institute, Gorgan, Iran, 2015.

Excellent in statistics with SPSS, image analyzing applications like image J and familiar with GIS software.

Language Skills

GRE General unofficial score (2014): 153 quantitative reasoning, 146 verbal reasoning, 2 righting

MHLE (2020) score 87 (out of 100), Foreign Language Center of Scholarship & Overseas Student's Department

Senior Certificate of English Language (2007), NedaShokouh Nationwide English language Services

French (Elementary, A1 level)
Native Languages: Farsi, Azeri

Awards

- Awarded for 2017 ArturoFalaschi short term research postdoc fellowship award, Trieste, Italy
- Awarded as the First ranked students from graduation office of University Of Tehran
- Awarded as the First ranked students from graduation office of Gorgan University Of Agricultural Sciences And Natural Resources
- Awarded idea in the national student seminar supported by Iran Council of Stem cell Science and Technologies

Research interests and activities

Thesis titles:

- M.Sc. thesis title: Study the role of Gαq effect on β-catenin protein stability and expression of the target genes when the cellular levels of β-catenin increase progressively

- Ph.D. thesis title: Expressional and functional analysis of novel sox2ot variants in lung carcinoma

Research area:

- WNT B-catenin signaling in cancer progression
- G proteins and GPCRs in cancer and development
- SOX2OT (lncRNA) function in cancer and stem cell
- The application of the Next generation sequencing technologies in personalized medicine
- Regenerative medicine and stem cell biology
- Induced pleuripotent stem cells application for disease modeling and cell therapy
- Macrophage modulation in pathogenesis of auto immune system diseases

- Molecular Medicine of skin fibrosis
- FTO function in osteoporosis and bone development

Activities:

- Student Manager of the "Student Research Committee of the Golestan University of Medical Sciences, Faculty of Advanced Medical Technologies, Gorgan, Iran, (2014-2015)
- Managing Editor of the Journal of Clinical and Basic research (JCBR), **e-ISSN:2538-3736**, (since 2017)
- Lecturer in Golestan University of Medical Sciences (since 2014)

List of Publications

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1. **M. Saghaeian jazi**, S. Kolivand, and S.M.A. Najafi. Study on interaction between Gαq and β-Catenin signaling pathways in HEK-293T cells. In 1st Tabriz International Life Science Conference and 12th Iran Biophysical Chemistry Conference. **2013**. Tabtiz university of medical sciences.
2. **Saghaeian-Jazi M**, Mohammadi S, Sedighi S. Culture and differentiation of monocyte derived macrophages using human serum: an optimized method. Zahedan Journal of Research in Medical Sciences. **2016** Jun 30;18(6).
3. **M. Saghaeian jazi**, et al., Effects of valproic acid and pioglitazone on cell cycle progression and proliferation of T-cell acute lymphoblastic leukemia Jurkat cells. Iranian journal of basic medical sciences, **2016**. 19(7): p. 779.
4. **M. Saghaeian jazi** and S.M.A. Najafi, Beta-catenin forms protein aggregation at high concentrations in HEK293Tcells. Iranian journal of medical sciences, **2017**. 42(1): p. 66.
5. **M. Saghaeian jazi**, et al., Overexpression of the non-coding SOX2OT variants 4 and 7 in lung tumors suggests an oncogenic role in lung cancer. Tumor Biology, **2016**. 37(8): p. 10329-10338.
6. **M. Saghaeian jazi,** et al., Identification of new SOX2OT transcript variants highly expressed in human cancer cell lines and down regulated in stem cell differentiation. Molecular biology reports, **2016**. 43(2): p. 65-72.
7. **M. Saghaeian jazi**, et al., SOX2OT knockdown derived changes in mitotic regulatory gene network of cancer cells. Cancer cell international, **2018**. 18(1): p. 129.
8. **M. Saghaeian jazi**, L.Zentilin., S. Mohammadi, N. Mansour Samaei, SOX2OT stable knock down enhances chemo-toxicity to Cytarabine in cancer cells. Iranian Journal of

Basic Medical Sciences (The 15th Iranian National Congress of Biochemistry & 6th International Congress of Biochemistry and Molecular Biology), **2019**. 22(Supplement 1): p. 71-72.

9. S. Mohammadi, **M. Saghaeian Jazi**, et al., Interleukin 10 gene promoter polymorphisms (rs1800896, rs1800871 and rs1800872) and haplotypes are associated with the activity of systemic lupus erythematosus and IL10 levels in an Iranian population. International journal of immunogenetics, **2019**. 46(1): p. 20-30.

10. S. Mohammadi, **M. Saghaeian Jazi**, et al., Immunomodulation in systemic lupus erythematosus: Induction of M2 population in monocyte-derived macrophages by pioglitazone. Lupus, **2017**. 26(12): p. 1318-1327.

11. S. Mohammadi, **M. Saghaeian Jazi**, et al., Sodium valproate modulates immune response by alternative activation of monocyte-derived macrophages in systemic lupus erythematosus. Clinical rheumatology, **2018**. 37(3): p. 719-727.

12. S. M. A. Najafi, Sara Ansari, **M. Saghaeian Jazi**, S. Salmanian, In the absence of Glycerol or DMSO, chloroquine phosphate is a potent inducer of calcium phosphate-mediated transfection of HEK293T cells. Cell and Tissue Journal, **2014**. 5(2): p. 133-138.

13. M. Saghaeian Jazi, S. Mohammadi, and S. Sedighi, Culture and differentiation of monocyte derived macrophages using human serum: an optimized method. Zahedan Journal of Research in Medical Sciences, **2016**. 18(6).

14. Salmanian, S., et al., Regulation of GSK-3β and β-Catenin by Gαq in HEK293T cells. Biochemical and biophysical research communications, **2010**. 395(4): p. 577-582.

15. A. Shahryari, **M. Sagheian Jazi,** et al., Long non-coding RNA SOX2OT: expression signature, splicing patterns, and emerging roles in pluripotency and tumorigenesis. Frontiers in Genetics, **2015**. 6: p. 196.

16. Tavangar, F., et al., Amphotericin B potentiates the anticancer activity of doxorubicin on the MCF-7 breast cancer cells. Journal of chemical biology, **2017**. 10(3): p. 143-150.

17. A**.** Shahryari, **M. Sagheian Jazi**, et al, Development and Clinical Translation of Approved Gene Therapy Products for Genetic Disorders. Frontiers in Genetics, **2019**. 10 (868).

18. M Emampanahi et al, Association between interleukin-10 gene polymorphisms and severe chronic periodontitis. Oral Disease, **2019**. 25(6):1619-1626.

19. Safarzad M, Marjani A, **Saghaeian Jazi M**, Qujeq D, Mir SM, Marjani M, Kaldehi AN. Effect of Rubus anatolicus Leaf Extract on Glucose Metabolism in HepG2, CRI-D2 and C2C12 Cell Lines. Diabetes, metabolic syndrome and obesity: targets and therapy. **2020**;13:1109.

20. Zhand S, **Saghaeian Jazi M**, Mohammadi S, Tarighati Rasekhi R, Rostamian G, Kalani MR, Rostamian A, George J, Douglas MW. COVID-19: the immune responses and clinical therapy candidates. International journal of molecular sciences. **2020** Jan;21(15):5559.

21. Sadeghzadeh Z, Khosravi A, **Saghaeian Jazi M**, Asadi J. Upregulation of Fucosyltransferase 3, 8 and protein O-Fucosyltransferase 1, 2 genes in esophageal cancer stem-like cells (CSLCs). Glycoconjugate journal. **2020** Mar 10:1-9.

22. Zarei M, **Saghaeian Jazi M**, Tajaldini M, Khosravi A, Asadi J. Selective Inhibition of Esophageal Cancer Stem-like Cells with Salinomycin. Anti-Cancer Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry-Anti-Cancer Agents). **2020** May 1;20(7):783-9.

23. Gholipour M, Mikaeli J, Mowla SJ, Bakhtiarizadeh MR, **Saghaeian Jazi M**, Javid N, Fazlollahi N, Khoshnia M, Behnampour N, Moradi A. Alterations in esophageal microRNAs expression in primary esophageal achalasia by next-generation sequencing. Research Square; **2020**. DOI: 10.21203/rs.2.24777/v1.

24. Gholipour M, Mikaeli J, Mowla SJ, **Saghaeian Jazi M**, Fazlollahi N, Khoshnia M, Moradi A. EVALUATION OF SERUM MIRNA-217 AND MIRNA-143-3P AS POTENTIAL BIOMARKERS FOR ESOPHAGEAL ACHALASIA. European Journal of Molecular & Clinical Medicine. **2021** May 10;8(3):3102-8.

• Cellular and Molecular Biology (2010) Farhikhtegan Daneshgah publication (this book is Written in Farsi)

References:

Prof. Mauro Giacca, Director-General ICGEB Group Leader. International Centre for Genetic Engineering and Biotechnology Padriciano 99 34149 Trieste, Italy E-mail: giacca icgeb.org. Office tel: +39-040-3757324. Lab tel: +39-040-3757325.

- Since 2019 professor M. Giacca has moved to School of Cardiovascular Medicine & Sciences, King's College London, email: mauro.giacca@kcl.ac.uk

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