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Areas of Expertise

- Molecular and Cell Biology
- Cancer Research
- Tissue engineering
- Biochemistry



Technical Skills

- Cell and tissue culture
- Nucleic acid extraction
- Human Karyotyping
- Hybridization technologies
- DNA sequencing
- Western blotting
- High throughput molecular genetic diagnosis for genetic diseases
- Amplification technologies



Soft Skills

- Research design
- Process improvements
- Database management
- Data analysis
- Project management
- Team leadership
- Literature review
- Scientific writing



Publications

Scientific Papers: 19
Books: 2
Conferences: 9
Citation: 294
h-index: 11

Saeedeh Ghazaey Zidanloo, Ph.D.

Assistant Professor of Cell and Molecular Sciences
Kosar University of Bojnord, Iran

About

With over ten years of university teaching experience, including seven years as an Assistant Professor at Kosar University of Bojnord, I specialize in cellular and molecular biology, particularly molecular medicine. I have taught undergraduate and graduate students various courses and supervised numerous research projects in these areas. I aim to enhance students' scientific knowledge, prepare them to enter the professional world and discover career opportunities.



Work Experience

Faculty member. 2017 – Present. **Kosar university of Bojnord.** Bojnord, Iran.

As an assistant professor, I conduct research, teach students, apply my knowledge to address societal challenges and fulfill leadership and service roles within the university.

- 🚩 Director of graduate studies at the Kosar University. 2022 until now.
- 🚩 Director of research and technology at the Kosar University. 2020 - 2022.
- 🚩 Director of the Department of Cell and Molecular Biology at the University. 2017 - 2019.

Research assistant. 2012 – 2014. **Mashhad University of Medical Science.** Mashhad, Iran. As a researcher at the Cancer Research Center of Ghaem Hospital in Mashhad, I studied new molecular methods for diagnosing common cancers in Iran.



Education

University of Mazandaran

Ph.D. in Cell and Molecular Cell Biology · (2013- 2017)

Razi University

MSc in Cell and Molecular Cell Biology · (2003 – 2006)

Shiraz University

BSc in Cell and Molecular Cell Biology · (1999 - 2003)

Educational Records

Degree	University or School	GPA (out of 20)
Ph.D.	University of Mazandaran, Babolsar, Iran	18.6 out of 20 (Outstanding student of the university)
M.Sc.	Razi University, Kermanshah, Iran	19 out of 20 (First rank among 10 students)
B. S	Shiraz University, Shiraz, Iran.	17.6 out of 20 (Third ranks among 25 students)
High school	Olum High School, Bojnord, Iran	19.50 out of 20 (First ranks among 30 students)

Ph.D. thesis project

Down-regulation of *WT1* gene expression in acute myeloid leukemia via promoter G-quadruplex stabilization and anticancer drug-targeting.

Highlights of Qualifications

- ✚ More than 12 years of experience in cancer research and studying common cancer biomarkers
- ✚ **Soft Skills:** Experienced in Research design/ Process improvements/ Database management/ Data analysis/ Project management/ Team leadership/ Literature review/ Scientific writing.
- ✚ **Technical Skills:** Experienced in a broad range of state-of-the-art molecular and cytogenetic techniques including:

Cell and tissue culture	Human Karyotyping analysis	Hybridization technologies (FISH and CISH)	DNA sequencing
Western blotting	Nucleic acid extraction	High throughput molecular genetic diagnosis for genetic diseases	tissue engineering techniques
Cloning	Amplification technologies (PCR, RT-PCR, Real-time quantitative PCR)		

Ph.D. Articles

1. **S Ghazaey Zidanloo**, A Hosseinzadeh Colagar, H Ayatollahi, & J. B Raoof. (2016). Downregulation of the *WT1* gene expression via TMPyP4 stabilization of promoter G-quadruplexes in leukemia cells. *Tumor Biology*, 37(7), 9967-9977. (JCR, Q2)
2. **S Ghazaey Zidanloo**, A Hosseinzadeh Colagar, H Ayatollahi, Z Bagheryan. "G-quadruplex forming region within *WT1* promoter is selectively targeted by daunorubicin and mitoxantrone: A possible mechanism for anti-leukemic effect of drugs." *Journal of biosciences* 44.1 (2019): 12. (JCR, Q2)

1. D Jahantigh, R Ghasemian Moghadam, F Forghani, **S Ghazaey Zidanloo**, M Rezaei, M Taheri. Genetic variation in PIK3-AKT-mTOR pathway is associated with endometriosis susceptibility: a preliminary study. 2024. International Journal of Fertility and Sterility. **(JCR, Q2)**
2. A Edalatian Kharrazi, F Forghani, D Jahantigh, **S Ghazaey Zidanloo**, M Rezaei, M Taheri. Positive correlation between Bax and Bcl-2 gene polymorphisms with the risk of endometriosis: A case-control study. 2024. International Journal of Reproductive Biomedicine. **(JCR, Q3)**
3. **S Ghazaey Zidanloo**. Identification of G-quadruplex-forming Sequences in Nucleocapsid Gene of SARS-CoV-2 Variants of Concern: An in Silico Analysis. 2024. Journal of Genetic Resources. **(ISC)**
4. **S Ghazaey Zidanloo**, Z Bagherian. Stabilization of G-quadruplexes in Intronic Hematopoietic-specific Enhancer of WT1 gene with G-quadruplex targeting ligands: in silico and in vitro techniques. 2024. Indian Journal of Biochemistry and Biophysics (IJBB). **(JCR, Q4)**
5. D Jahantigh, **S. Ghazaey Zidanloo**, SZ Moossavi, F Forghani. Interleukin 12B rs3212227 and rs6887695 single nucleotide polymorphisms are associated with the susceptibility to preeclampsia: Genetic, haplotype and bioinformatics analysis. **2023**. *Cytokine* 164, 156166. **(JCR)**
6. **S Ghazaey Zidanloo**, D Jahantigh, N Amini. Vitamin D-Binding Protein and Acute Myeloid Leukemia: A Genetic Association Analysis in Combination with Vitamin D Levels. **2022**. *Nutrition and Cancer*, 1-12. **(JCR)**
7. M Karimian, **S Ghazaey Zidanloo**, D Jahantigh. Influence of FOXP3 gene polymorphisms on the risk of preeclampsia: a meta-analysis and a bioinformatic approach. **2022**. *Clinical and Experimental Hypertension* 44 (3), 280-290. **(JCR)**
8. **S Ghazaey Zidanloo**, N Amini. Prevalence analysis of FLT3 mutations in patients with acute myeloid leukemia with normal karyotype in Northeastern Iran. **2022**. *Cellular and Molecular Research (Iranian Journal of Biology)* 34 (4), 638-652. **(ISC)**
9. D Jahantigh, F Mirani Sargazi, S Sargazi, R Saravani, **S Ghazaey Zidanloo**. Relationship between Functional miR-143/145 Cluster Variants and Susceptibility to Type 2 Diabetes Mellitus: A Preliminary Case-Control Study and bioinformatics analyses. **2021**. *Endocrine Research* 46 (3), 129-139. **(JCR)**
10. D Jahantigh, **S Ghazaey Zidanloo**, F Forghani, and M Doroudian. IL-27 variants might be genetic risk factors for preeclampsia: based on genetic polymorphisms, haplotypes and in silico approach. **2020**. *Molecular Biology Reports* 47, 7929-7940. **(JCR)**
11. D Jahantigh, F Forghani, and **S Ghazaey Zidanloo**. **2019**. "Interleukin-23 receptor (IL-23R) gene polymorphisms and haplotypes associated with the risk of preeclampsia: evidence from cross-sectional and in silico studies." *Journal of assisted reproduction and genetics* 36.7: 1523-1536. **(JCR)**
12. Ayatollahi H, Sadeghian M, Kooshyar M, Shirdel A, Rahimi H, Jafarian A, **S Ghazaey Zidanloo**, Soltani N, Shams F, Motamedi Rad N, Shakeri S. **2018**. Absence of FLT3 mutations in Iranian Adult T-cell leukemia/lymphoma patients. *Med J Islam Repub Iran*. 9; 32:47. doi: 10.14196/mjiri.32.47. **(JCR)**
13. **S Ghazaey Zidanloo**, M Jafarzadeh Heasari. **2018**. In silico screening of G-quadruplex structures in Wilms tumor 1 gene promoter. *North Khorasan journal of medical science*. No 39, Volume 10, Issue 4 **(ISC)**.
14. **S Ghazaey Zidanloo** and A Hosseinzadeh Colagar. **2014**. Geographic heterogeneity of the AML1-ETO fusion gene in Iranian patients with acute myeloid leukemia. *Rep. Biochem. Mol. Biol.*; 3(1). **(ISI)**
15. **S Ghazaey Zidanloo**, Mohammad R. Abbaszadegan, Farzaneh Mirzaei, Semiramis Tootian. **2015**. Chromosomal analysis of couples with repeated spontaneous abortions in northeastern Iran. *International Journal of Fertility and Sterility*. Vol: 9, No: 2. **(JCR)**

16. **S Ghazaey Zidanloo**, Mohammad R. Abbaszadegan, Farzaneh Mirzaei, Semiramis Tootian. **2013**. Pattern of chromosomal aberrations in patients from northeastern Iran. *Cell Journal*. 15(3): 258-265. PMID PMC3769609. **(JCR)**
17. Fatemeh Keify, Narges Zhiyan, Farzaneh Mirzaei, Semiramis Tootian, **S Ghazaey Zidanloo**, and Mohammad R. Abbaszadegan. **2012**. Two novel familial balanced translocations t(8;11)(p23;q21) and t(6;16)(q26;p12) implicated in Recurrent Spontaneous Abortion. *Archives of Iranian Medicine Journal (AIM)*. 15(4):249-52. **(JCR)**
18. **S Ghazaey Zidanloo** and M. H Mirmomeni. **2012**. Microbial-resistant *Salmonella enteritidis* isolated from poultry samples. *Rep. Biochem. Mol. Biol.*; 1(1). **(ISI)**
19. Mirmomeni M. H., Hosseinzadeh Colagar A. and **Saeedeh Ghazaey**. **2007**. "Molecular study of *Salmonella enteritidis* in poultry samples by PCR, plasmid curing, antibiotic resistance and protein pattern analysis" *Pakistan Journal of Biological Sciences*. 10 (10): 1562-1570. **(ISI)**

National & International Conferences

1. **S Ghazaey Zidanloo**, M.H. Mirmomeni, A. Hosseinzade Colagar. Comparison of plasmid profiles and antibiotic resistance of *Salmonella enteritidis* isolates in Kermanshah. The First International Conference of Biology, August 23-25, **2005**, Rasht, Guilan University, Iran.
2. **S Ghazaey Zidanloo**. Characterization of *Salmonella enteritidis* isolated of chicken egg from Iran. The Second National Conference of Iranian Woman and Research, February 15, **2007**, Bojnurd, Iran.
3. **S Ghazaey Zidanloo**, M.H. Mirmomeni, Rapid detection of *Salmonella enteritidis* by PCR. The Second International Conference of Biotechnology, November 15-17, **2008**, Tehran, Iran.
4. **S Ghazaey Zidanloo**, H. Ayatollahi. Absence of FLT3 mutations in Iranian adult T-cell leukemia/lymphoma patients. The fifth EMBO meeting, 21-24 September **2013**, Amsterdam, Netherlands.
5. **S Ghazaey Zidanloo**, A. Hosseinzade Colagar. Oncogene promoter G-quadruplexes as potential therapeutic targets towards effective new anticancer drug design. 2nd International Nastaran Cancer Symposium, Nastaran Center for Cancer Prevention (NCCP). **2016**. Mashhad, Iran.
6. **S Ghazaey Zidanloo**. Design and Production of collagen-like engineered peptide (CLP) for tissue-engineering applications. 3rd International and 5th Iranian Genetics Congress, 13-15 May **2018**, Tehran, Iran.
7. **S Ghazaey Zidanloo**. WT1 promoter G-quadruplex DNA targeted by Idarubicin as an antileukemic drug. 20th National and 8th International Congress on Biology, 22-24 August **2018**, Maraghe, Iran.
8. **S Ghazaey Zidanloo**. *MiR-146a* and *miR-499* polymorphisms in pediatric and adult acute myeloid leukemia patients in northeastern Iranian population. 22nd National and 10th International Congress on Biology, 31 August **2022**, Shahrekord, Iran.
9. **S Ghazaey Zidanloo**. Exploring G-quadruplex structures in ORF1ab polyprotein as potential targets against the severe acute respiratory syndrome coronavirus 22nd National and 10th International Congress on Biology, 31 August **2022**, Shahrekord, Iran.

Books

- MR. Abbaszadegan, **S Ghazaey Zidanloo**, F Keify, F Mirzaei. **Clinical Cytogenetics: classic and molecular**. 2012. Published by the **Varastegan Institute for Medical Sciences**.

- **S Ghazaey Zidanloo, Cell and Molecular Biology Lab Manual.** 2023. Published by the Kosar University of Bojnord.

Completed Research Projects (Principal Investigator)

- Investigation of the microRNA's genetic polymorphisms in patients with Acute Myeloid Leukemia. The results were published as a JCR article.
- Investigation of the genetic polymorphisms in the vitamin D binding protein gene in patients with Acute Myeloid Leukemia. The results were published as a JCR article.
- Identification of In Silico Quadruplex-G Structures in SARS-CoV-2 Omicron Variant. The results were published as an ISC article.

Journal Reviewer

- The Journal of Genetic Resources
- The Journal of Molecular and Cellular Researches

Achievements

- Recognized as an **Empowered and Influential Woman** of the Province at the Second Provincial Congress of Influential Women of North Khorasan.
- Attending **sabbatical research project** "Design and Production of collagen-like engineered peptide (CLP) for tissue-engineering applications" at **Linkoping University, Sweden. March-August 2016.**
- Attending 4th international Postgraduate Course, Lysosomal Storage Disorders, Diagnostic Background, and Clinical Therapy organized by Prof. Arndt Rolfs, Medical Faculty, University of Rostock, November 14th-15th, 2011, **Berlin, Germany**
- **Certificate for** "application of Cytovision Software in human chromosome karyotyping and analysis" course, Takapo teb company, Tehran, Iran. June 22, 2008. http://www.medicalequipment.ir/companies/Takapo_Teb_154.
- **Certificate for** "Describing the management requirements according to ISO/IEC17025:2005 standard" course, Varastegan Medical Sciences Institute, Mashhad, Iran, August 5, 2010.

Language

English (Fluent)

Advanced reading, writing, and speaking skills.

- I got an overall band score of 6.50 in the **IELTS ACADEMIC** exam (2011)
- I got a score of 76 out of 100 in the **MSRT** Iran English exam (2013)

References

Mohammad Reza Abbaszadegan, Professor of Medical Genetics, Mashhad University of Medical Sciences, Mashhad, **Iran**. Phone: +989151156121. Email: abbaszadeganmr@mums.ac.ir.

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Hassan Zare-maivan, Ph.D., Professor of Plant Biology, Emeritus University Professor of the Tarbiat Modares University of Iran, 2109 Linwood Ave Royal Oak Mi 48073, **United States**. Phone: +1 316 9930475. Email: hzare897@gmail.com.

Declaration: I hereby declare that the particulars furnished herein by me are true to the best of my knowledge and belief.

Date:25/12/2024

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