

In the name of GOD

Curriculum Vitae

Personal Details

Name: **Simin Sharifi Ghazijahani**

Academic position: Assistant professor

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Citizenship: Iran

Languages: English, Persian and Azari

Scopus h-index: **17**

Scholar h-index: **19**

Education

Philosophy Doctorate (Ph.D) in Pharmaceutical Biotechnology (Sep 2009-Jan 2015)

Department of Pharmaceutical Biotechnology, Faculty of Pharmacy, Tabriz University of Medical Sciences, Tabriz, Iran

Thesis: Study of the role of some caspase and Bcl-2 family genes in resistance to chemotherapy in breast cancer cells

Supervisor: Dr. Mohammad Saeid Hejazi and Dr. Nasser Samadi

Advisor: Dr. Jaleh Barar

Master of Science (M.sc.) in Medical Microbiology (Sep 2007-Sep 2009)

Department of Clinical Microbiology, Faculty of Medicine, Tabriz University of Medical Sciences, Tabriz, Iran

Thesis: Diagnosis of pulmonary infections due to *Mycoplasma pneumoniae* by Culture, ELISA and PCR methods at Tabriz medical university

Supervisor: Dr. Reza Ghotaslou and Dr. Mohammad Taghi Akhi

Advisor: Mohammad Hossein Soroush

Bachelor of Science Degree in Clinical Laboratory Sciences (Jan 2003- Jan 2005).

Faculty of Paramedical Sciences, Tabriz University of Medical Sciences, Tabriz, Iran

Publications

1. **Sharifi S**, Vahed SZ, Ahmadian E, Dizaj SM, Eftekhari A, Khalilov R, et al. Detection of pathogenic bacteria via nanomaterials-modified aptasensors. *Biosensors and Bioelectronics* 2020;150:111933.
2. **Sharifi S**, Samiei M, Abdolahinia ED, Khalilov R, Shahi S, Dizaj SM. Gelatin-hydroxyapatite nano-fibers as promising scaffolds for guided tissue regeneration (GTR): Preparation, assessment of the physicochemical properties and the effect on mesenchymal stem cells. *Journal of Advanced Periodontology & Implant Dentistry* 2020;12:25-30.
3. **Sharifi S**, Fathi N, Memar MY, Hosseiniyan Khatibi SM, Khalilov R, Negahdari R, et al. Anti- microbial activity of curcumin nanoformulations: New trends and future perspectives. *Phytotherapy Research* 2020.
4. Ghavimi MA, Negahdari R, Bani Shahabadi A, **Sharifi S**, Kazeminejad E, Shahi S, et al. Preparation and study of starch/collagen/polycaprolactone nanofiber scaffolds for bone tissue engineering using electrospinning technique. *Eurasian Chemical Communications* 2020;2:122-127.
5. Ghasemi S, **Sharifi S**, Mojarad JS. Design, Synthesis and Biological Evaluation of Novel Piperazinone Derivatives as Cytotoxic Agents. *Advanced pharmaceutical bulletin* 2020;10:423.
6. Eftekhari A, Maleki Dizaj S, **Sharifi S**, Salatin S, Rahbar Saadat Y, Zununi Vahed S, et al. The use of nanomaterials in tissue engineering for cartilage regeneration; current approaches and future perspectives. *International Journal of Molecular Sciences* 2020;21:536.
7. Barzegari A, Kheyrolahzadeh K, Khatibi SMH, **Sharifi S**, Memar MY, Vahed SZ. The battle of probiotics and their derivatives against biofilms. *Infection and Drug Resistance* 2020;13:659.
8. Ahmadian E, Samiei M, Hasanzadeh A, Kavetsky T, Jafari S, Alipour M, et al. Monitoring of drug resistance towards reducing the toxicity of pharmaceutical

compounds: Past, present and future. *Journal of Pharmaceutical and Biomedical Analysis* 2020;113:265.

9. Ahmadian E, Maleki S, **Sharifi S**, Eftekhari A, Samiei M. Hyaluronic acid hydrogel nanoscaffolds: production and assessment of the physicochemical properties. *Eurasian Chemical Communications* 2020;2:51-58.

10. Zununi Vahed S, Fathi N, Samiei M, Maleki Dizaj S, **Sharifi S**. Targeted cancer drug delivery with aptamer-functionalized polymeric nanoparticles. *Journal of drug targeting* 2019;27:292-299.

11. **Sharifi S**, Zununi Vahed S, Ahmadian E, Maleki Dizaj S, Abedi A, Hosseiniyan Khatibi SM, et al. Stem cell therapy: Curcumin does the trick. *Phytotherapy Research* 2019;33:2927-2937.

12. **Sharifi S**, Vahed SZ, Jahangiri A. Dendrimers as drug delivery systems; the benefits and challenges. *Journal of advanced chemical and pharmaceutical materials (JACPM)* 2019;2:119-123.

13. **Sharifi S**, Samani A, Ahmadian E, Eftekhari A, Derakhshankhah H, Jafari S, et al. Oral delivery of proteins and peptides by mucoadhesive nanoparticles. *Biointerface Research in Applied Chemistry* 2019;9:3849-3852.

14. Negahdari R, Bohlouli S, **Sharifi S**, Maleki Dizaj S, Rahbar Saadat Y, Khezri K, et al. Therapeutic benefits of rutin and its nanoformulations. *Phytotherapy Research*. 2020

15. Shahi S, Özcan M, Maleki Dizaj S, **Sharifi S**, Al-Haj Husain N, Eftekhari A, et al. A review on potential toxicity of dental material and screening their biocompatibility. *Toxicology mechanisms and methods* 2019;29:368-377.

16. Shahabadi AB, Memar MY, Dizaj SM, **Sharifi S**. Antimicrobial effects of curcumin containing collagen scaffolds against *Streptococcus mutans*. *Journal of advanced chemical and pharmaceutical materials (JACPM)* 2019;2:197-198.

17. Nariman- Saleh- Fam Z, Bastami M, Ardalan M, **Sharifi S**, Hosseiniyan Khatib SM, Zununi Vahed S. Cell- free microRNA- 148a is associated with renal allograft

dysfunction: Implication for biomarker discovery. *Journal of Cellular Biochemistry* 2019;120:5737-5746.

18. Maleki Dizaj S, **Sharifi S**, Jahangiri A. Electrospun nanofibers as versatile platform in antimicrobial delivery: Current state and perspectives. *Pharmaceutical Development and Technology* 2019;24:1187-1199.

19. Maleki Dizaj S, **Sharifi S**, Ahmadian E, Eftekhari A, Adibkia K, Lotfipour F. An update on calcium carbonate nanoparticles as cancer drug/gene delivery system. *Expert opinion on drug delivery* 2019;16:331-345.

20. Khatibi SMH, Vahed FZ, **Sharifi S**, Ardalan M, Shoja MM, Vahed SZ. Osmolytes resist against harsh osmolarity: Something old something new. *Biochimie* 2019;158:156-164.

21. Fathi N, Ahmadian E, Shahi S, Roshangar L, Khan H, Kouhsoltani M, et al. Role of vitamin D and vitamin D receptor (VDR) in oral cancer. *Biomedicine & Pharmacotherapy* 2019;109:391-401.

22. Eftekhari A, Hasanzadeh M, **Sharifi S**, Dizaj SM, Khalilov R, Ahmadian E. Bioassay of saliva proteins: The best alternative for conventional methods in non-invasive diagnosis of cancer. *International journal of biological macromolecules* 2019;124:1246-1255.

23. Eftekhari A, Ahmadian E, Salatin S, Sharifi S, Dizaj SM, Khalilov R, et al. Current analytical approaches in diagnosis of melanoma. *TrAC Trends in Analytical Chemistry* 2019;116:122-135.

24. Dizaj SM, Rad AA, Safaei N, Salatin S, Ahmadian E, Sharifi S, et al. The Application of Nanomaterials in Cardiovascular Diseases: A Review on Drugs and Devices. *Journal of Pharmacy & Pharmaceutical Sciences* 2019;22:501-515.

25. Dizaj SM, Mokhtarpour M, Shekaari H, Sharifi S. Hydroxyapatite-gelatin nanocomposite films; production and evaluation of the physicochemical properties. *Journal of advanced chemical and pharmaceutical materials (JACPM)* 2019;2:111-115.

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27. Ahmadian E, Eftekhari A, Dizaj SM, Sharifi S, Mokhtarpour M, Nasibova AN, et al. The effect of hyaluronic acid hydrogels on dental pulp stem cells behavior. *International journal of biological macromolecules* 2019;140:245-254.
28. Ahmadian E, Dizaj SM, Sharifi S, Shahi S, Khalilov R, Eftekhari A, et al. The potential of nanomaterials in theranostics of oral squamous cell carcinoma: Recent progress. *TrAC Trends in Analytical Chemistry* 2019;116:167-176.
29. Zununi Vahed S, Salehi R, Davaran S, Sharifi S. Corrigendum to " Liposome-based drug co-delivery systems in cancer cells" (*Mater. Sci. Eng.*(2017) C 71 (1327-1341)(S0928493116322871)(10.1016/j. msec. 2016.11. 073)). *Materials Science and Engineering C* 2018;83:247.
30. Yazdani J, Ahmadian E, Sharifi S, Shahi S, Dizaj SM. A short view on nanohydroxyapatite as coating of dental implants. *Biomedicine & Pharmacotherapy* 2018;105:553-557.
31. Sharifi S, Samiei M, Vahed SZ, Sunar S, Dizaj SM. A brief view on principle, mechanism and advantages of NanoPCR. *Journal of advanced chemical and pharmaceutical materials (JACPM)* 2018;1:67-72.
32. Sharifi S, Mokhtarpour M, Jahangiri A, Dehghanzadeh S, Maleki-Dizaj S, Shahi S. Hydroxyapatite nanofibers as beneficial nanomaterial in dental sciences. *Biointerface research in applied chemistry* 2018;8:3695-3699.
33. Shahi S, Vahed SZ, Fathi N, Sharifi S. Polymerase chain reaction (PCR)-based methods: Promising molecular tools in dentistry. *International journal of biological macromolecules* 2018;117:983-992.
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46. Dehghani S, Maleksabet A, Sharifi S, Izadi M, Nazemiyeh H, Samadi N. The effect of dichloromethane extract from *Humulus lupulus* L. on two human breast cancer cell lines. *International Journal of Biosciences (IJB)* 2015;6:171-178.
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48. Bakhshaiesh TO, Armat M, Shanehbandi D, Sharifi S, Baradaran B, Hejazi MS, et al. Arsenic trioxide promotes paclitaxel cytotoxicity in resistant breast cancer cells. *Asian Pac J Cancer Prev* 2015;16:5191-5197.
49. B Haghshenas YN, M Haghshenas, A Barzegari, S Sharifi, D Radiah. Effect of addition of inulin and fenugreek on the survival of microencapsulated *E. durans* 39C in alginate-psyllium polymeric blends in simulated digestive system and yogurt. *Asian Journal of Pharmaceutical Sciences* 2015.
50. Sharifi S, Barar J, Hejazi MS, Samadi N. Roles of the Bcl-2/Bax ratio, caspase-8 and 9 in resistance of breast cancer cells to paclitaxel. *Asian Pac J Cancer Prev* 2014;15:8617-8622.
51. Samadi N, Ghanbari P, Mohseni M, Tabasinezhad M, Sharifi S, Nazemieh H, et al. Combination therapy increases the efficacy of docetaxel, vinblastine and tamoxifen in cancer cells. *Journal of cancer research and therapeutics* 2014;10:715.
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53. Nikbakht M, Sharifi S, Emami S, Khodaie L. Chemical composition and antiproliferative activity of *Artemisia persica* Boiss. and *Artemisia turcomanica* Gand. essential oils. *Research in pharmaceutical sciences* 2014;9:155.
54. Hamedeyazdan S, Sharifi S, Nazemiyeh H, Fathiazad F. Evaluating antiproliferative and antioxidant activity of *Marrubium crassidens*. *Advanced pharmaceutical bulletin* 2014;4:459.
55. Ghanbari P, Mohseni M, Tabasinezhad M, Yousefi B, Saei AA, Sharifi S, et al. Inhibition of survivin restores the sensitivity of breast cancer cells to docetaxel and vinblastine. *Applied biochemistry and biotechnology* 2014;174:667-681.
56. Tabasinezhad M, Samadi N, Ghanbari P, Mohseni M, Saei AA, Sharifi S, et al. Sphingosin 1-phosphate contributes in tumor progression. *Journal of cancer research and therapeutics* 2013;9:556.
57. Ghotaslou R, Sharifi S, Akhi MT, Soroush MH. Epidemiology, clinical features, and laboratory detection of *Mycoplasma pneumoniae* infection in East Azerbaijan, Iran. *Turkish Journal of Medical Sciences* 2013;43:521-524.
58. Ghasemi S, Sharifi S, Davaran S, Danafar H, Asgari D, Mojarad JS. Synthesis and cytotoxicity evaluation of some novel 1-(3-Chlorophenyl) piperazin-2-one derivatives bearing imidazole bioisosteres. *Australian Journal of Chemistry* 2013;66:655-660.
59. Ghasemi S, Davaran S, Sharifi S. Comparison of cytotoxic activity of L778123 as a farnesyltransferase inhibitor and doxorubicin against A549 and HT-29 cell lines. *Advanced pharmaceutical bulletin* 2013;3:73.
60. Hamidi A, Sharifi S, Davaran S, Ghasemi S, Omid Y, Rashidi M-R. Novel aldehyde-terminated dendrimers; synthesis and cytotoxicity assay. *BioImpacts: BI* 2012;2:97.
61. Hamedeyazdan S, Fathiazad F, Sharifi S, Nazemiyeh H. Antiproliferative activity of *Marrubium persicum* extract in the MCF-7 human breast cancer cell line. *Asian Pac J Cancer Prev* 2012;13:5843-5848.

62. Ghasemi S, Shahbazi J, Sharifi S, Davaran S, Asgari D. Synthesis and evaluation of anticancer activity of 1-(3-chloro phenyl)-2-piperazinone derivatives as potential farnesyltransferase enzyme inhibitors. *Research in Pharmaceutical Sciences* 2012;7:582.
63. Sharifi S, Ghotaslou R, Akhi MT, Soroush MH, Ansarin K, Shabanpur J, et al. Detection of Pulmonary Infections due to *Mycoplasma pneumoniae* by Culture, ELISA and PCR Methods at Hospitals of Tabriz University of Medical Sciences. *Medical Journal of Tabriz University of Medical Sciences and Health Services* 2011;33:36-41.
64. Ghotaslou R, Yaghoubi A, Sharify S. Urinary Tract Infections in Hospitalized Patients during 2006 to 2009 in. *J Cardiovasc Thorac Res* 2010;2:39-42.

Books:

- PCR (Principles, types and applications)
Soghra Khani, Hamideh Mahmoudzadeh, Simin Sharifi
Publisher: Khosravi, Dibaj
First Edition: 2011
Second Edition: 2013
- Salatin S, Ahmadian E, Mokhtarpour M, Sharifi S, Eftekhari A, Solmaz MD, et al. Introduction: An overview of the non-parenteral delivery of nanomedicine. Theory and Applications of Nonparenteral Nanomedicines:1-25.

Patents

1. **Preparation of gelatin sponge nanostructure with antibacterial properties**, Simin Sharifi, Tabriz University of Medical Sciences, 2020, Tabriz,Iran.
2. **Bilayer membranes with simultaneous antimicrobial effects and bone regeneration**, Simin Sharifi, Tabriz University of Medical Sciences, 2020, Tabriz,Iran.

Editorial board

Editorial board of “Journal of Advanced Chemical and Pharmaceutical Materials”
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Presentations

1. Simin Sharifi, Nasser Samadi, Mohammad Saeid Hejazi, Jaleh Barar. Bcl-2:Bax ratio in paclitaxel resistant MCF-7 breast cancer cell line. 24th International Medical Sciences Student Congress, 2014, Istanbul.
2. Simin Sharifi, Nasser Samadi, Mohammad Saeid Hejazi, Jaleh Barar. Molecular mechanism of Doxorubicin-induced cytotoxicity in breast cancer cells. 13th Iranian Congress of Biochemistry and 5th International congress of Biochemistry and Molecular Biology, 2013, Yazd.
3. Maryam Tabasi nezhad, Seid Mojtaba Mohadess, Mahsa Mohseni, Parisa Ghanbari, Simin Sharifi, Nasser Samadi. Sphingozin 1-phosphate induces survivin gene expression on leukemia and non-small cell lung cancer cells. 13th Iranian Congress of Biochemistry and 5th International congress of Biochemistry and Molecular Biology, 2013, Yazd.
4. Maryam Tabasi nezhad, Seid Mojtaba Mohadess, Simin Sharifi, Mahsa Mohseni, Parisa Ghanbari. Function of sphingosin 1-phosphate in malignant behavior of skw3 leukemia cells and H1299 non-small cell lung cancer cells. 13th Iranian Congress of Biochemistry and 5th International congress of Biochemistry and Molecular Biology, 2013, Yazd.
5. Ezat Hamidi-Asla, Jahan Bakhsh Raoof, Mohammad Saeid Hejazi, Simin Sharifi, Reza Ojani. A New PNA Biosensor for Detection of p53 DNA Plasmid by nano gold modified Screen Printed Electrode. 19th Iranian Seminar of Analytical Chemistry, 2013, Mashhad.
6. Saeed Ghasemi, Javid Shahbazi Mojarad, Simin Sharifi, Soodabeh Davaran, Davoud Asgari. Synthesis and evaluation of anticancer activity of 1-(3-chloro phenyl)-2-piperazinone derivatives as potential farnesyltransferase enzyme inhibitors. 13th Iranian Pharmaceutical Sciences Congress, 2012, Esfahan.
7. Simin Sharifi, Reza Ghotaslou, Mohammad Taghi Akhi, Mohammad Hossein Soroush. Epidemiology and clinical features of Mycoplasma Pneumoniae infection at Tabriz. The First Iranian International Congress of Medical Bacteriology, 2011, Tabriz.
8. Simin Sharifi, Reza Ghotaslou, Mohammad Taghi Akhi, Mohammad Hossein Soroush. Seroprevalence of Mycoplasma Pneumoniae serum antibodies, IgG and IgM, at Tabriz. The First Iranian International Congress of Medical Bacteriology, 2011, Tabriz.

9. Simin Sharifi, Alka Hasani, Vahideh Valizadeh, et al. Increasing Ciprofloxacin Resistance among Prevalent blood culture isolates in Sina Hospital, Tabriz. 4th Iranian Congress of Clinical Microbiology, 2010, Isfahan.
10. Simin Sharifi, Reza Ghotaslou, mohamad hosein soroush, Mohammad Taghi Akhi, , et al. Diagnosis of pulmonary infections due to Mycoplasma pneumoniae by Culture, ELISA and PCR methods at Tabriz Medical University.. 11th Iranian Microbiology Congress, 2010, Gilan.
11. Simin Sharifi, Alka Hasani, Marzieh Alireza, Samira Asadi, Akbar Hasani. Comparison of phenotypic test for detection of ESBL producing gram negative Bacilli. 10th Iranian Microbiology Congress, 2009, Ilam.
12. Simin Sharifi, Alka Hasani, Akbar Hasani, Marzieh Alireza, Leila Dehghani, M Beigoli. Towards Understanding: Pseudomonas aeruginosa, burn infections and antibiotic scenario. 2th International and 7th National Congress on Quality Improvement in Clinical Laboratories. 2009, Tehran.
13. Ehsan Binesh, Alka Hasani, Jeinus Bayat Makou, Simin Sharifi, Marzieh Alireza, Akbar Hasani. Prevalence of extended spectrum β lactamase producing gram negative bacilli in clinical specimens isolated from patients admitted to a university general hospital. The Second Iranian Congress of Clinical Microbiology, 2008, Shiraz.
14. Mohamad Hosein soroush, Maryam Hajizadeh, Simin Sharifi, Vahideh Valizadeh. The study of septicemia factors in Emam Khomani medical and treatment department, Tabriz, 2006-2007. 9th Iranian Microbiology Congress, 2008, Kerman.
15. Participated in Iranian Immunology Seminar, diagnosis and treatment of allergic disease, 2011, Tabriz.
16. Participated in Iranian Immunology Seminar, tumor immunology, 2011, Tabriz.
17. Participated in 12th Iranian Pharmaceutical Sciences Congress, 2010, Zanjan

Activities in research centers

- Dental and Periodontal Research Center, Tabriz University of Medical Sciences (2017-2020).
- Stem cell research center, Tabriz University of Medical Sciences (2018-2020).
- Research Center for Pharmaceutical Nanotechnology (RCPN), Tabriz University of Medical sciences (2011-2013).
- Research Center of Infectious Diseases and Tropical Medicine, Tabriz University of Medical sciences (2008-2009).
- Tuberculosis and lung disease Research Center, Tabriz University of Medical Sciences (2008-2009).

Teaching experiences

- Scientific writing to dentistry students in faculty of dentistry of Tabriz university of medical sciences
- Tissue engineering and dental biomaterials to dentistry students in faculty of dentistry of Tabriz university of medical sciences
- Cell culture to pharmacy students in faculty of pharmacy of Tabriz university of medical sciences
- Cellular and molecular biology to pharmacy students in faculty of pharmacy of Tabriz university of medical sciences
- Cellular and molecular biology to pharmacy students in Tabriz university of medical sciences, international branch Aras
- Practical microbiology to medical students in faculty of medical science of Tabriz university of medical sciences