

CURRICULUM VITAE

Prof. Zahra Amirghofran

PERSONAL HISTORY:

Name: Zahra Amirghofran
Place of birth: Tehran
Nationality: Iranian
Date of birth: 1960

Contact information:

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EDUCATIONS & DEGREES:

B.Sc. in Medical Technology, Shiraz University, Shiraz, 1978-1984
M.Sc. in Immunology, Tarbiat Modarres University, Tehran, 1985-1988
Ph.D. in Immunology, Tarbiat Modarres University, Tehran, 1989-1994

HONORS & AWARDS:

Kharazmi (Scientific & Industrial Researches Organization of Iran) award (co-worker), 1993
Excellent Researcher, Shiraz University of Medical Science, 2000
Excellent Professor, Shiraz University of Medical Science, 2004

Special Trainings:

- 1- WHO fellowship for vaccinology and infectious diseases. Lauzan, Switzerland, 1994
- 2- WHO fellowship for vaccinology and infectious diseases. Puna, India, 1999
- 3- Cellular immunology training, Royal London Hospital, 1999-2000

Experiences:

Assistant Professor of Immunology, Shiraz Medical School, 1994
Associate Professor of Immunology, Shiraz Medical School, 1999
Professor of Immunology, Shiraz Medical School, 2004

Research activities:

Cellular Immunology, Immunopharmacology, Autoimmune diseases

Teaching experience:

Immunology for medical, paramedical and postgraduate students (MSc, PhD)

Administrative works:

Member of Iranian board of Immunology, 1999-2003, 2006-2014
Assistant Dean for Education, Shiraz Medical School, 2004
Head of Graduate Studies, Shiraz University of Medical Science, 2004-2007
Head of Immunology Department, 2007-2011

PUBLICATIONS

1. Kalantar, K., Ghandehari, F., Malek-Hosseini, S., (...), Dabbaghmanesh, M.H., Amirghofran, Association of FCRL3 rs7528684 polymorphism with risk of Hashimoto`s thyroiditis in Iranian patients. *Meta gene*. 24,100663
2. Z.Asadipour, M., Malek-Hosseini, S., Amirghofran, Z. Anti-leukemic activity of *Satureja bachtiarica* occurs by apoptosis in human cells. *Biotech Histochem*. 2020.
3. Karami, K., Jamshidian, N., Hajiaghasi, A., Amirghofran, Z. BSA nanoparticles as controlled release carriers for isophthalaldoxime palladacycle complex; Synthesis, characterization,; In vitro evaluation, cytotoxicity and release kinetics analysis. *New J Chem*. 2020,44(11), pp. 4394-4405
4. Asadipour M, Malek-Hosseini S, Amirghofran Z. Anti-leukemic activity of *Satureja bachtiarica* occurs by apoptosis in human cells. *Biotech Histochem*. 2020 Mar 17:1-8. doi: 10.1080/10520295.2020.1725834.
5. Asadi Z, Zarei L, Golchin M, Skorepova E, Eigner V, Amirghofran Z. A novel Cu(II) distorted cubane complex containing Cu₄O₄ core as the first tetranuclear catalyst for temperature dependent oxidation of 3,5-di-tert-butyl catechol and in interaction with DNA & protein (BSA). *Spectrochim Acta A Mol Biomol Spectrosc*. 2020 Feb 15;227:117593.
6. Zarrabi M, Gholijani N, Shenavandeh S, Aflaki E, Amirghofran Z. IL-38 serum levels in patients with Behcet's disease and the relationship with clinical features. *Eur Cytokine Netw*. 2019 Sep 1;30(3):82-87. doi: 10.1684/ecn.2019.0430. PubMed PMID: 31957702.
7. Solati H, Zareinejad M, Ghavami A, Ghasemi Z, Amirghofran Z. IL-35 and IL-18 Serum Levels in Children With Acute Lymphoblastic Leukemia: The Relationship With Prognostic Factors. *J Pediatr Hematol Oncol*. 2019 Nov 22. doi: 10.1097/MPH.0000000000001667
8. Shams K, Kalantar K, Karimi MH, Nasiri M, Afshari A, Amirghofran Z. Fas, FasL and Foxp3 gene expression in post-liver transplant autoimmune hepatitis patients with and

- without acute rejection. *Clin Exp Hepatol.* 2019 May;5(2):103-108. doi:10.5114/ceh.2019.85076. Epub 2019 May 13
9. Asemani Y, Zamani N, Bayat M, Amirghofran Z. Allium vegetables for possible future of cancer treatment. *Phytother Res.* 2019 Dec;33(12):3019-3039. doi: 10.1002/ptr.6490. Epub 2019 Aug 29. Review. PubMed PMID: 31464060.
 10. Amirghofran Z, Shekofteh N, Ghafourian M, Khosravi N, Kalantar K, Malek-Hosseini S. Tumor Cell Death via Apoptosis and Improvement of Activated Lymphocyte Cytokine Secretion by Extracts from *Euphorbia Hebecarpa* and *Euphorbia Petiolata*. *Asian Pac J Cancer Prev.* 2019 Jul 1;20(7):1979-1988. doi: 10.31557/APJCP.2019.20.7.1979. PubMed PMID: 31350954;
 11. Asadipour M, Amirghofran Z. *Satureja hortensis* induces cell death and inhibited cell cycle progression in K562 myelogenous and Jurkat T cell leukemia cell lines. *J Immunoassay Immunochem.* 2019;40(5):459-472. doi: 10.1080/15321819.2019.1629592. Epub 2019 Jun 17. PubMed PMID: 31204615.
 12. Namdari H, Izad M, Rezaei F, Amirghofran Z. Thymol as a reciprocal regulator of T cell differentiation: Promotion of regulatory T cells and suppression of Th1/Th17 cells. *Int Immunopharmacol.* 2019 Feb;67:417-426. doi: 10.1016/j.intimp.2018.12.021. Epub 2018 Dec 31. PubMed PMID: 30586665.
 13. Asemani Y, Biat M, Malek-Hosseini S, Amirghofran Z. Modulation of in vitro proliferation and cytokine secretion of human lymphocytes by *Mentha longifolia* extracts. 2019; 9(1):34-43
 14. Karami K, Rahimi M, Zakariazadeh M, Buyukgungor O, Amirghofran Z. New phosphorus ylide palladacyclic: Synthesis, characterization, X-Ray crystal structure, biomolecular interaction studies, molecular docking and in vitro cytotoxicity evaluations *Journal of Organometallic Chemistry* 878 (2018) 60e76
 15. Rostamzadeh D, Kazemi T, Amirghofran Z, Shabani M. Update on Fc receptor-like (FCRL) family: new immunoregulatory players in health and diseases. *Expert OpinTher Targets.* 2018 May 10:1-16.

16. Karami K, Rahimi M, Zakariazadeh M, Buyukgungor O, Amirghofran Z, New phosphorus ylide palladacyclic: Synthesis, characterization, X-Ray crystal structure, biomolecular interaction studies, molecular docking and in vitro cytotoxicity evaluations. *Journal of Organometallic Chemistry* 878 (2018) 60e76.
17. Darzi SE, Khazraei SP, Amirghofran Z. The immunoinhibitory and apoptosis-inducing activities of *Foeniculum vulgare* on human peripheral blood lymphocytes. *Res Pharm Sci.* 2018 Apr;13(2):103-110.
18. Malekmohammadi S, Hadadzadeh H, Farrokhpour H, Amirghofran Z. Immobilization of gold nanoparticles on folate-conjugated dendritic mesoporous silica-coated reduced graphene oxide nanosheets: a new nanoplatform for curcumin pH-controlled and targeted delivery. *Soft Matter.* 2018 Mar 28;14(12):2400-2410.
19. Naseri N, Kalantar K, Amirghofran Z. Anti-inflammatory activity of *Echium amoenum* extract on macrophages mediated by inhibition of inflammatory mediators and cytokines expression. *Res Pharm Sci.* 2018 Feb;13(1):73-81.
20. Haghighi FH, Hadadzadeh H, Farrokhpour H, Amirghofran Z, Mirahmadi-Zare SZ. Stabilization of DOPA zwitterions on laser-generated gold nanoparticles: ONIOM computational study of the charge-dependent structural and electronic changes of DOPA adsorbed on the gold nanosurface. *J Phys Chem.* 2018; 122: 8680-92
21. Ghavami A, Fathpour G, Amirghofran Z. Association of IL-27 rs153109 and rs17855750 Polymorphisms with Risk and Response to Therapy in Acute Lymphoblastic Leukemia. *Pathol Oncol Res.* 2018; 24(3):653-662
22. Karami K, Alinaghi M, Amirghofran Z, Lipkowski J. Synthesis and characterization of two new trans palladium (II) complexes containing benzylamine ligand: DNA/BSA interactions, molecular docking and in vitro cytotoxic activity *Inorganica Chimica Acta* 2018;471, 797-807
23. Sahlabadi M, Daryanavard M, Hadadzadeh H, Amirghofran Z. A nanocomplex of Cu (II) with theophylline drug; synthesis, characterization, and anticancer activity against K562 cell line *Journal of Molecular Structure* 1155, 450-456

24. Malekmohammadi S, Hadadzadeh H, Amirghofran Z. Preparation of folic acid-conjugated dendritic mesoporous silica nanoparticles for pH-controlled release and targeted delivery of a cyclometallated gold (III) complex as an ...*Journal of Molecular Liquids* 265, 797-806
25. Asadi Z, Golchin M, Eigner V, Dusek M, Amirghofran Z. A novel water-soluble tetranuclear copper (II) Schiff base cluster bridged by 2, 6-bis-[(2-hydroxyethylimino) methyl]-4-methylphenol in interaction with BSA: Synthesis, X-ray ...*Journal of Photochemistry and Photobiology A: Chemistry* 361, 93-104
26. Nasrabadi, H, Amirghofran, Z, Esmailbeig, A, Bahrami, M, ,Hoseini J. Covalent bonding of magnetic Fe₃O₄ nanoparticles to aminopropyl-functionalized magnesium phyllosilicate clay: Synthesis and cytotoxic potential investigation. *Applied Organomet Chem.* 2018 ;32(2)e4036
27. Asadi Z, Golchin M,Eigner V, Dusek M, Amirghofran Z. A detailed study on the interaction of a novel water soluble glycine bridged zinc(II) Schiff base coordination polymer with BSA: synthesis, crystal structure, molecular docking and anticancer activity against A549, Jurkat and Raji cell lines. *Inorganica Chimica Acta.* 2017:451: 65-50
28. Kavooosi GR, Amirghofran Z,.Chemical composition, radical scavenging and anti-oxidant capacity of Ocimum Basilicum. *J Essential oil Res.* 2017; 29: 189-199
29. Namdari H, Izad M, Amirghofran Z. Modulation of CD4+ T Cell Subsets by Euphorbia microciadia and Euphorbia osyridea Plant Extracts. *Iran J Immunol.* 2017 Jun;14(2):134-150.
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31. Amirghofran Z, Asiaee E, Kamazani FM. Soluble CD44 and CD44v6 and prognosis in children with B-cell acute lymphoblastic leukemia. *Asia Pac J Clin Oncol.* 2016 Sep;12(3):e375-82.
32. Esteghamat-Panah R, Hadadzadeh H, Farrokhpour H, Mortazavi M, Amirghofran Z, A mononuclear Ru(II) complex with meloxicam: DNA- and BSA-binding, molecular

- modeling and anticancer activity against human carcinoma cell lines. *Inorganica Chimica Acta* 2017; 454: 184–196
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 36. Khanzadeh A, Habibagahi Z, Hosseini A, Amirghofran Z. Investigation of the human FCRL1, 2, and 4 gene expressions in patients with rheumatoid arthritis. *Rheumatol Int.* 2016 Aug;36(8):1149-56
 37. Ebrahimnezhad S, Amirghofran Z, Karimi MH. Decline in Immunological Responses Mediated by Dendritic Cells in Mice Treated with 18 α -Glycyrrhetic Acid. *Immunol Invest.* 2016 Apr;45(3):191-204.
 38. Gholijani N, Gharagozloo M, Kalantar F, Ramezani A, Amirghofran Z. Modulation of Cytokine Production and Transcription Factors Activities in Human Jurkat T Cells by Thymol and Carvacrol. *Adv Pharm Bull.* 2015 Dec;5(Suppl 1):653-60.
 39. Esmailbeig M, Kouhpayeh SA, Amirghofran Z. An Investigation of the Growth inhibitory Capacity of Several Medicinal Plants From Iran on Tumor Cell Lines. *Iran J Cancer Prev.* 2015 Oct;8(5):e4032.
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- peripheral blood mononuclear cells of patients with psoriasis. *Int J Dermatol.* 2015 Jul;54(7):e254-60.
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 45. Rostamzadeh D, Dabbaghmanesh MH, Shabani M, Hosseini A, Amirghofran Z. Expression Profile of Human Fc Receptor-Like 1, 2, and 4 Molecules in Peripheral Blood Mononuclear Cells of Patients with Hashimoto's Thyroiditis and Graves' Disease. *Horm Metab Res.* 2015 Aug;47(9):693-8.
 46. Zarei S, Bayat AA, Hadavi R, Mahmoudi AR, Tavangar B, Vojgani Y, Jeddi-Tehrani M, Amirghofran Z. Production and characterization of a peptide-based monoclonal antibody against CD44 variant 6. *Monoclon Antibody Immunodiagn Immunother.* 2015 Feb;34(1):36-43.
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51. Kalantar F, Dabbaghmanesh MH, Martinuzzi E, Moghadami M, Amirghofran Z. Islet amyloid polypeptide is not a target antigen for CD8+ T-cells in type 2 diabetes. *Iran J Immunol*. 2014 Mar;11(1):1-12.
52. Ghafourian Boroujerdnia M, Khosravi N, Malek-Hosseini S, Amirghofran Z. Augmentation of lymphocytes activation and T cell modulation by the extracts from some *Euphorbia* species. *Pharm Biol*. 2014 Jul 2:1-7.
53. Shabani M, Bayat AA, Jeddi-Tehrani M, Rabbani H, Hojjat-Farsangi M, Ulivieri C, Amirghofran Z, Baldari CT, Shokri F. Ligation of human Fc receptor like-2 (FCRL2) by monoclonal antibodies downregulates B cell receptor mediated signaling. *Immunology*. 2014 Nov;143(3):341-353..
54. Karimi MH, Ebrahimnezhad S, Namayandeh M, Amirghofran Z. The effects of cichorium intybus extract on the maturation and activity of dendritic cells. *Daru*. 2014 Feb 24;22(1):28.
55. Moezi L, Janahmadi Z, Amirghofran Z, Nekooeian AA, Dehpour AR. The increased gastroprotective effect of pioglitazone in cholestatic rats: role of nitric oxide and tumour necrosis factor alpha. *Int J Exp Pathol*. 2014 Feb;95(1):78-85.
56. Asadi M, Asadi Z, Zarei L, Sadi SB, Amirghofran Z. Affinity to bovine serum albumin and anticancer activity of some new water-soluble metal Schiff base complexes. *Spectrochim Acta A Mol Biomol Spectrosc*. 2014 Dec 10;133:697-706.
57. Asadi M, Asadi Z, Sadi SB, Zarei L, Baigi FM, Amirghofran Z. Synthesis, characterization and the interaction of some new water-soluble metal Schiff base complexes with human serum albumin. *Spectrochim Acta A Mol Biomol Spectrosc*. 2014 Mar 25;122:118-29

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60. Karimian P, Kavooosi G, Amirghofran Z.. Anti-oxidative and anti-inflammatory effects of *Tagetes minuta* essential oil in activated macrophages. *Asian Pac J Trop Biomed* 2014; 4(3): 219-227
61. Karimian P, Kavooosi G, Amirghofran Z, Kalantar F. Reduction of NADH Oxidase, NO Synthase, TNF α , and IL-1 β mRNA Expression levels on Lipopolysaccharide-Stimulated Murine Macrophages by *Zataria Multiflora*. *Mol Biol Res Commun*. 2013;2(3):81-92
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