

# CURRICULUM VITAE

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## *Personal Information*

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- Name: Hori Ghaneialvar
- Gender: Female
- Nationality: Iranian
- Qualification: PhD of clinical biochemistry
- Mobile number: (+98) 918 344 074
- Email: [ghaneihuri@yahoo.com](mailto:ghaneihuri@yahoo.com)
- **Current University Position:**

Associate Professor in Biotechnology and Medicinal Plants Research Center, Faculty of Medicine, Ilam University of Medical Sciences, Ilam, Iran

## *Education*

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- PhD:

Description: clinical biochemistry, Tarbiat Modares University. 2010-2016

**Thesis title:** Investigating effect of human alpha 1-antitrypsin protein and transplantation of adipose tissue derived mesenchymal stem cells expressing miR-146a in wound healing of diabetic animal models.

- M.Sc.:

Description: clinical biochemistry, Kermanshah University of Medical Sciences, 2006-2009.

**Thesis title:** The comparative study genotypes of the paraoxonase (Gln192Arg ) enzyme gene and angiotensin converting enzyme insertion/deletion (I/D) gene in type 2 diabetic patients with coronary artery disease in Kermanshah.

### *Molecular/Biotechnological Techniques Knowledge*

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- Immunoassays (IHC, ICC, ELISA, Western blotting, and etc.)
- RT-Real time PCR
- Production of virus for gene delivery
- PCR
- Electrophoresis techniques
- Gene Cloning techniques
- SNP, RFLP
- Cell culture, viability assay (MTT)
- DNA, RNA and protein extraction, purification
- Phytotherapy
- Synthesis of nanoparticles
- synthesis of nanohydrogel

### *The research activities including*

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Molecular mechanisms and analysis of genes expression in types of diabetes mellitus

Molecular mechanism and analysis of genes expression of colon cancer

Gene therapy

Stem cell

miRNAs and their mechanism of action in diabetes and cancer

Therapeutic properties of nanoparticles

Drug delivery

Therapeutic properties of nanohydrogel

Medicinal plants

### *Teaching experience*

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- Tissue biochemistry to Students. Ilam University of Medical Sciences, Ilam, Iran.
- Biochemistry of metabolism to Students. Ilam University of Medical Sciences, Ilam, Iran.
- Biochemistry and nutrition principles to Students. Ilam University of Medical Sciences, Ilam, Iran.
- Organic Chemistry and Biochemistry to Students. Ilam University of Medical Sciences, Ilam, Iran.
- Instrumental analysis to Students. Ilam University of Medical Sciences, Ilam, Iran.
- General Biochemistry. Ilam University of Medical Sciences, Ilam, Iran.
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### *Computer Knowledge*

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- Word, Excel, SPSS, Photoshop, Power Point, Internet
- EndNote
- Software of Primer design for example oligo7, Beacon design, clc sequence viewer.

- Software for analysis of real time data(Rest, LinReg PCR,Rotor gene)

## *Publications*

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### Published articles:

- 1- The angiotensin converting enzyme D allele is an independent risk factor for early onset coronary artery disease. A. VaisiRaygani, **H. Ghaneialvar**, Z.Rahimi, H. Nomani ,M. Saidi, F. Bahrehmand , A. Vaisi-Raygani, H. Tavailani , T Pourmotabbed. Clin Biochem. 2010; 43 (15): 1189-94.
- 2- Paraoxonase Arg 192 allele is an independent risk factor for three-vessel stenosis of coronary artery disease A. VaisiRaygani, **H. Ghaneialvar**, Z.Rahimi, H. Tavailani , T Pourmotabbed, E. Shakiba, A. Vaisi-Raygani, A. Kiani, M. Aminian, R. Alibakhshi, C. Bartels. Mol Biol Rep. 2011; 38(8): 5421-8.
- 3- Effects of 5-Azacytidine on Differentiation of Ovine Mesenchymal Stem Cells. Soltani L, Rahmani H, Joupari MD, **Ghaneialvar H**, Amirhossein Mahdavi, Shamsara M. Int J Stem Cell Res Transplant.2015; 3(2), 96-100.
- 4- Ovine fetal mesenchymal stem cell differentiation to cardiomyocytes, effects of co-culture, role of small molecules; reversine and 5-azacytidine. Leila Soltani, Hamid Reza Rahmani, Morteza Daliri Joupari, **Hori Ghaneialvar**, Amir Hossein Mahdavi and Mehdi Shamsara. Cell biochemistry and function, 2016; 34(4):250-261.
- 5- Adipose derived mesenchymal stem cells improve diabetic wound healing in mouse animal model: extracellular matrix remodeling maybe a potential therapeutic usage of stem cells. **Hori Ghaneialvar**, Abbas Sahebghadam Lotfi1, Sareh Arjmand, Masoud Soleimani, Fatemeh Mashhadi Abbas. Biomedical Research 2017; 28 (8): 3672-3679.
- 6- Characterization and Classification of Mesenchymal Stem Cells in Several Species Using Surface Markers for Cell Therapy Purposes. **Hori Ghaneialvar**, Leila Soltani, Hamid Reza Rahmani, Abbas Sahebghadam Lotfi, Masoud Soleimani. Ind J Clin Biochem, 2017; 1-7.
- 7- Influence of Adipose Derived Mesenchymal Stem Cells on the Effective Inflammatory Factors of Diabetic Wound Healing in Animal Models. **Hori Ghaneialvar**, Sareh

- Arjmand, Abbas Sahebghadam Lotfi, Masoud Soleimani, Fatemeh Mashhadi Abbas. J Mazandaran Univ Med Sci 2017; 27 (148): 12- 21.
- 8- The study of Chir99021 effect on proliferation of Ovine fetal bone marrow derived mesenchymal stem cells, cell and tissue journal. 2016; 7(1) 91-101 (Persian).
  - 9- The combination of miR-122 overexpression and Let-7f silencing induces hepatic differentiation of adipose tissue-derived stem cells. Nahid Davoodian , Abbas S. Lotfi , Masoud Soleimani , **Hori Ghaneialvar**. Cell biology international. 2017; 41 (2017) 1083–1092.
  - 10- Comparison of transduction efficiency among various cell types by a lentivector containing CMV promoter. **Hori Ghaneialvar**, Abbas Sahebghadam Lotfi, Sareh Arjmand, Leila Soltani, Azra Kenarkoohi, Mohammad Mahdi Zangeneh. *Comparative Clinical Pathology*. 2019; 28: 1077–1085.
  - 11- Novel synthesis of *Falcaria vulgaris* leaf extract conjugated copper nanoparticles with potent cytotoxicity, antioxidant, antifungal, antibacterial, and cutaneous wound healing activities under *in vitro* and *in vivo* condition. Mohammad Mahdi Zangeneh, **Hori Ghaneialvar**, Mohsen Akbaribazm, Mohamad Ghanimatdan, Naser Abbasi, Samaneh Goorani, Elham Pirabbasi, Akram Zangeneh. *Journal of Photochemistry and Photobiology B: Biology*. 2019; 197: 111556.
  - 12- Effects of Different Concentrations of Reversine on Plasticity of Mesenchymal Stem Cells. Leila Soltani<sup>1</sup>, Hamid Reza Rahmani, Morteza Daliri Joupari, **Hori Ghaneialvar**, Amir Hossein Mahdavi, Mehdi Shamsara. *Indian Journal of Clinical Biochemistry*, 2020; 35 (2): 188-196.
  - 13- Ziziphora clinopodioides Lam leaves aqueous extract mediated synthesis of zinc nanoparticles and their antibacterial, antifungal, cytotoxicity, antioxidant, and cutaneous wound healing properties under *in vitro* and *in vivo* conditions. Behnam Mahdavi, Sania Saneei, Maryam Qorbani, Mohsen Zhaleh, Akram Zangeneh, Mohammad Mahdi Zangeneh, Elham Pirabbasi, Naser Abbasi, **Hori Ghaneialvar**. 2019; 33 (11):e5164.
  - 14- Protective effect of Nectaroscordum tripedale extract and its bioactive component tetramethylpyrazine against acetaminophen-induced hepatotoxicity in rats. Ali Aidy, Elahe Karimi, **Hori Ghaneialvar**, Shahram Mohammadpour & Naser Abbasi. *Advances in Traditional Medicine*. 2020; 20(3): 471-477.
  - 15- Application of titanium nanoparticles containing natural compounds in cutaneous wound healing. Ahmad Ahmeda, Naser Abbasi, **Hori Ghaneialvar**, Mohammad Mahdi Zangeneh, Akram Zangeneh. *Appl Organometal Chem*. 2020; e5480.
  - 16- Anti-diabetic effect of a novel nano polymer of t hymol in streptozotocin-induced diabetic wistar rats. Karimi E, Abbasi S, Aidy A, **Ghaneialvar H**, Mohammadpour S, Akhavan M.M, Abbasi N. *International journal of applied pharmaceutics*. 2019; 11(5):81-89.
  - 17- Is there association between *Trichomonas vaginalis* infection and prostate cancer risk?: A systematic review and meta-analysis. AzarNajafi, Mohammad Reza Chaechi Nosrati,

- Ezatollah Ghasemi, Zahra Navi, Ali Yousefi, Hamidreza Majidiani, **Hori Ghaneialvar**, Kourosh Sayehmiri, Ma De la LuzGalvan-Ramirez, MahdiFakhar. Microbial Pathogenesis. 2019;137:103752.
- 18- Effects of dust phenomenon on heavy metals in raw milk in western Iran. Elahe Karimi, Monireh Yari, **Hori Ghaneialvar** , Hamid Reza Kazemi, Reza Asadzadeh , Ali Aidy, Naser Abbasi. *Foods and Raw Materials*. 2020; 8( 2): 241–249.
- 19- Herbal plants for heart diseases. Fatemeh Behrooznia, Ali Eidy, **Hori Ghaneialvar\***. *Plant Biotechnology Persa*. 2019; 1(1):39-41.
- 20- Natural remedies effective on stomachache in traditional medicine. **Hori Ghaneialvar**, Naser Abbasi\*, Somayeh Shahsavari. *Plant Biotechnology Persa*. 2020; 2(1):42-47.
- 21- Developing an interesting electrochemical biosensing system from an enzyme inhibition study: Binding, inhibition and determination of catalase by ascorbate. Ali R. Jalalvand, Ghobad Mohammadi, Farid Najafi, Ehsan Sadeghi, Gholamreza Bahrami, Arman Rostamzad, Komail Sadrjavadi, Ehsan Azadi, Hadi Adibi, Hector C. Goicoechea, Naser Abbasi, **Hori Ghaneialvar**. *Sensing and Bio-Sensing Research*. 2020;30: 100383.
- 22- Green synthesis of NiO nanoparticles using *Calendula officinalis* extract: Chemical characterization, antioxidant, cytotoxicity, and anti-esophageal carcinoma properties. Yu Zhang, Behnam Mahdavi, Majid Mohammadhosseini, Esmail Rezaei-Seresht, Sogand Paydarfard, Maryam Qorbani, Mohammad Karimian, Naser Abbasi, **Hori Ghaneialvar**, Elahe Karimi. *Arabian Journal of Chemistry*. 2021; 14: 103105.
- 23- Immobilized Ag NPs on chitosan-biguanidine coated magnetic nanoparticles for synthesis of propargylamines and treatment of human lung cancer. Dongyang Ma, Tong Han, Mohammad Karimian, Naser Abbasi, **Hori Ghaneialvar**, Akram Zangeneh. *International Journal of Biological Macromolecules*. 2020; 165: 767–775.
- 24- Synthesis and application of Au NPs-chitosan nanocomposite in the treatment of acute myeloid leukemia in vitro and in vivo. Wenli Zuo, Marjan Shahriari, Maryam Shahriari, Mohammad Javadi, Hanieh Mohebi, Naser Abbasi, **Hori Ghaneialvar**. *Arabian Journal of Chemistry*. 2021; 14: 102929.
- 25- Raman Spectroscopic Characterization of Hepatic Differentiation of Mesenchymal Stem Cells. Sareh Arjmand, Aram Barzegar, Alemeh Mohammadpour, Hanieh Rezaei., Nahid Davoodian, **Hori Ghaneialvar**, Rasoul Malekfar, Abbas Sahebghadam Lotfi. *International Journal of Medical Laboratory*. 2021; 8(2):122-130.

- 26- Formulation and characterization of a novel cutaneous wound healing ointment by silver nanoparticles containing Citrus lemon leaf: A chemobiological study. Naser Abbasi, **Hori Ghaneialvar \***, Rohallah Moradi, Mohammad Mahdi Zangeneh, Akram Zangeneh. Arabian Journal of Chemistry. 2021; 14: 103246
- 27- Research Trend of Persian Medicine Based on the PubMed Database, 2015 -2019. Asie Shojaii, Mahmoud Bahmani, **Hori Ghaneialvar**, Naser Abbasi, Saeed Kakaee, Peymaneh Ghods, Roshanak Ghods. Current Traditional Medicine. 2020; 6: 1-10.
- 28- Evaluation of the role of micro-RNAs in cardiomyocytes differentiation of mesenchymal stem cell. Leila Soltani, **Hori Ghaneialvar**. Razi journal of medical sciences. 2021; 27(12): 63-77.
- 29- Cu immobilized on chitosan-modified iron oxide magnetic nanoparticles: Preparation, characterization and investigation of its anti-lung cancer effects. Shi Z., Mahdavian Y., Mahdavian Y., Mahdigholizad S., Irani P., Karimian M., Abbasi N., **Ghaneialvar H.**, Zangeneh A., Mahdi Zangeneh M. Arabian Journal of Chemistry. 2021; 14(8):103224.

### *Presented & Published Abstracts in Congresses:*

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- 1- Effects Of Dimethyl Sulfoxide On Morphology Of Mouse Mesenchymal Stem Cell During Cell Freezing. **Hori Ghaneialvar**, Abbas Sahebghadam Lotfi, Sareh Arjmand, Leila Soltani. International congress on stem cells and regenerative medicine, Mashhad, Iran, 20–22 May 2015.
- 2- Isolation and characterization of caprine fetal bone-marrow mesenchymal stem cells. Leila Soltani, Hamidreza Rahmani, Morteza Dalirijoupari, **Hori Ghaneialvar**, Amirhossein Mahdavi, Mehdi Shamsara. International congress on stem cells and regenerative medicine, Mashhad, Iran, 20–22 May 2015.
- 3- Laminin coated polystyrene promotes in vitro differentiation of human adipose derived mesenchymal stem cell into hepatocyte like cells.

Mohammadpour Aleme, Argmand Sare, Lotfi Abbas, **Ghaneialvar Hori**.  
The 1st National Festival & International Congress of Stem Cell and  
Regenerative Medicine. Tehran, Iran, 19–20 May 2016.

- 4- TGF-Beta Signaling Pathway Effects on Cardiac Differentiation of Ovine  
Mesenchymal Stem Cells. Soltani L, Rahmani H, Dalirijoupari M,  
**Ghaneialvar H**, Mahdavi A, Shamsara M. 12<sup>th</sup> Congress on stem cell  
biology & Technology, August 31 -September 2, 2016.
- 5- Assessment of Nerve Growth Factor in Suicide Attempters in Kurdish  
Ethnicity. Mahin Oshnukhah, Sajjad Salari, Maryam Bagheri, **Hoori**  
**Ghaneialvar**, Karimeh Haghani. 7<sup>th</sup> Basic and Clinical Neuroscience  
Congress, December 12-14, 2018.