

CURRICULUM VITAE

Personal Information

- Name: Hori Ghaneialvar
- Gender: Female
- Nationality: Iranian
- Qualification: PhD of clinical biochemistry
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- **Current University Position:**

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

Deputy Director of Biotechnology and Medicinal Plants Research Center Ilam University of Medical Sciences, Ilam, Iran.

Education

- 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

- 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
- HPLC

The research activities including

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

- 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.

Computer Knowledge

- 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

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. Tavalani , 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. Vaisi-Raygani, **H. Ghaneialvar**, Z.Rahimi, H. Tavilani , 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 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.
- 9- 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.
- 10- 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.
- 11- Effects of Different Concentrations of Reversine on Plasticity of Mesenchymal Stem Cells. Leila Soltani, Hamid Reza Rahmani, Morteza Daliri Joupari, **Hori Ghaneialvar**, Amir Hossein Mahdavi, Mehdi Shamsara. *Indian Journal of Clinical Biochemistry*, 2020; 35 (2): 188-196.
- 12- 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.

- 13- Anti-diabetic effect of a novel nano polymer of thymol in streptozotocin-induced diabetic wistar rats. Karimi E, Abbasi S, Aidi A, **Ghaneialvar H**, Mohammadpour S, Akhavan M.M, Abbasi N. International journal of applied pharmaceutics. 2019; 11(5):81-89.
- 14- 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.
- 15- Protective effect of Nectaroscordum tripedale extract and its bioactive component tetramethylpyrazine against acetaminophen-induced hepatotoxicity in rats. Ali Aidi, Elahe Karimi, **Hori Ghaneialvar**, Shahram Mohammadpour & Naser Abbasi. Advances in Traditional Medicine. 2020; 20(3): 471-477.
- 16- 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.
- 17- 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 Aidi, Naser Abbasi. Foods and Raw Materials. 2020; 8(2): 241–249.
- 18- 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.

- 19- 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.
- 20- 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.
- 21- 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.
- 22- 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.
- 23- 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.
- 24- 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.
- 25- The effect of *Thymbra spicata* extract and its bioactive 1 component Thymol on non-small cells lung cancer cell line A549. Ardeshir Moayeri, Shahram

- Mohammadpour, Naser Abbasi, Ali Aidy, Elahe Karimi*, **Hori Ghaneialvar***.
Achives of medical science. 2021.
- 26- The Role of Oxidant-Antioxidant Status in Suicide Behavior in Kurdish Ethnicity.
Mahin Oshnokhah, Maryam Bagheri, **Hori Ghaneialvar**, Karimeh Haghani, Ali
Khorshidi, Ali Shahbazi, Sajjad Salari. Basic and clinical neuroscience. 2021. 12
(5): 667-674.
- 27- Extraction and identification of the components of Thymbra spicata L. and
Satureja khuzestanica Jamzad Oils native to Ilam province by headspace-solid
phase microextraction (HS-SPME) and gas chromatography-mass spectrometry
(GC-MS). Maryam Shahmohammadi, Mahmood BahmaniM, **Hori Ghaneialvar***,
Naser Abbasi. eurasian chemical communications. 2021: 841-853.
- 28- The Effect of Prosopis farcta and Its Bioactive Luteolin on the Hippocampus of
Mice after Induced Ischemia Reperfusion. Mohammadpour Shahram,
Ghiasyzadeh Fereshteh, Darvishi Marzieh, Karimi Elahe, **Ghaneialvar Hori**,
Alizadeh Rafieh, Moayeri Ardeshir, Abbasi Naser. Evidence-based
Complementary and Alternative Medicine. 2022; 2022: 8157948.
- 29- Thymol Nanopolymer Synthesis and Its Effects on Morphine Withdrawal
Syndrome in Comparison With Clonidine in Rats. Moayeri, Ardeshir;
Mehdizadeh, Reza; Karimi, Elahe; Aidy, Ali; **Ghaneialvar, Hori**; Abbasi, Naser
Frontiers in Behavioral Neuroscience. 2022; 16:843951.
- 30- Changes in Physiological Levels of Cortisol and Adrenocorticotrophic Hormone
upon Hospitalization Can Predict SARS-CoV-2 Mortality: A Cohort Study.
Ahmadi Ira, Estabraghnia Babaki Hamideh, Maleki, Maryam, Jarineshin Hashem
Kaffashian Mohammad Reza, Hassaniazad Mehdi, Kenarkoohi Azra,
Ghanbarnejad Amin, Falahi Shahab, Kazemi Jahromi Mitra, **Ghaneialvar Hori**,
Sohrabipour Shahla. International Journal of Endocrinology. 2022; 2022:
4280691.

- 31- GFAP and Neuron Specific Enolase (NSE) in the Serum of Suicide Attempters. Bagheri, M., **Ghaneialvar, H.**, Oshnokhah, M., Salari, S. Medical Journal of the Islamic Republic of Iran, 2022; 36(1), 103.
- 32- Investigation of biological effects of chitosan magnetic nano-composites hydrogel. Milad Gholami, Naser Abbasi, **Hori Ghaneialvar***, Elahe Karimi, Ahmad Afzalnia , Mohammad Mahdi Zangeneh and Mehdi Yadollahi. Nanotechnology. 33 (2022) 495603 (19pp).
- 33- An overview of the role of metallic and nonmetallic nanoparticles and their salts during sperm cryopreservation and *in vitro* embryo manipulation. Leila Soltani, **Hori Ghaneialvar** & Amir Hossein Mahdavi. Nucleosides, Nucleotides & Nucleic Acids. 2022; 1-18.
- 34- Docosahexaenoic acid-loaded chitosan/alginate membrane reduces biofilm formation by *P. aeruginosa* and promotes MSC-mediated burn wound healing. **Hori Ghaneialvar**, Airat Kayumov, Elham Aboualigalehdari, Iraj Pakzad, Nader Tanideh, Naser Abbasi, Mohammad Hossein Haddadi. Journal of Biomaterials Applications. 2022, Vol. 0(0) 1–12.
- 35- Comparison of visfatin levels in patients with breast cancer and endometrial cancer with healthy individuals: A systematic review and meta-analysis. **Hori Ghaneialvar**, Samira Shiri, Azra Kenarkoohi, Zahra Fallah Vastani, Alireza Ahmadi, Ali Khorshidi, Roghayeh Khooz. Health Sci. Rep. 2022;5:e895.
- 36- Protective effects of pretreatment or concomitant treatment with *Hypericum* extract on renal function and renal toxicity in cisplatin-induced nephrotoxicity. **Hori Ghaneialvar**, Mohammad Reza Kaffashian, Amir Hussein Salimi, Neda Moulaei , Nastaran Afsordeh , Shams Parvari , Naser Abasi , Azra Kenarkoohi , Maryam Maleki. J Renal Inj Prev. 2023; 12(2): e31958.

- 37- Chitosan/alginate scaffold enhanced with Berberis vulgaris extract for osteocyte differentiation of ovine fetal stem cells. Cell Biochem Funct. Leila Soltani, **Hori Ghaneialvar***, Naser Abbasi, Parvaneh Bayat. Maryam Nazari. 2024;42:e3924.
- 38- The emerging potential of green-synthesized nanoparticles as colorimetric sensors for ammonia detection. Mohammad Amin Rashidi , Rezvan Zendehtdel , Shahab Falahi , Soudabeh Ghodsi , **Hori Ghaneialvar** , Sajad Najafi. Microchemical Journal 196 (2024) 109646.
- 39- Smart perhydroxycucurbit [6] uril functionalized magnetic grapheneoxide for release of Naringin as an antitumor agent. Kazem Karami, Azar Ramezanpour, Atefeh AliyarSamani, Zahra Amirghofran, **Hori Ghaneialvar**, Parvaneh Bayat. Advanced Powder Technology. 34(12) 2023: 104267.
- 40- Attenuation of cannabis withdrawal symptoms by Prosopis farcta extract, its luteolin and melatonin in mice: Involvement of brain-derived neurotrophic factor and Dopamine. Javad Ghasemian-Yadegari, Ahmad Adineh, Hamidreza Mohammadi Shima Davari, Yousef Veisani, **Hori Ghaneialvar**, Ali Aidy, Naser Abbasi, Elahe Kari. Cell Biochem Funct. 024;42:e3980.
- 41- Are miR-26a and miR-26b microRNAs potent prognostic markers of gestational diabetes? **Hori Ghaneialvar***, Mahdieh Mehrab Mohseni, Azra Kenarkoohi, Saeed Kakaee. Health Sci. Rep. 2024;7:e2152.
- 42- Effects of Thymbra spicata extract and Thymol on morphine withdrawal syndrome in mice (insights to the liver function, antioxidant, and behavioral responses). Maryam Malek, **Hori Ghaneialvar***, Naser Abbasi, Ardeshir Moayeri, Neda Moulaei, Azra Kenarkoohi, Pegah Mocaribahar, Ali Heidari. Cell Biochem Funct. 2024;42:e4084.

- 43- Development of a novel reversed-phase high-performance liquid chromatography method for the determination of sodium dithionite in bread products. Shahin Shahbazi, Forough Saraee, Naser Abbasi, Elahe Karimi, **Hori Ghaneialvar**, Mahmoud Bahmani, Ali Aidy, Sajad Mazloomi, Masoumeh Tahmasebi, Asadollah Jalali Ghalousangh. Chemistry & Chemical Engineering, Biotechnology, Food Industry. 2024, 25 (2), pp. 215 – 221.
- 44- Simple Determination of Bosentan in Plasma Samples by Reversed-Phase High-Performance Liquid Chromatography. Zahra Khalighi , **Hori Ghaneialvar**, Armin Soltani, Ali Khorshidi, Elahe Karimi, Ardeshir Moayeri, Naser Abbasi, Masoumeh Tahmasebi, Ali Aidy. Avicenna Journal of Medical Biotechnology. 2024, 16 (2), pp. 104 – 110.
- 45- Herbal plants for heart diseases. Fatemeh Behrooznia, Ali Eidy, **Hori Ghaneialvar***. Plant Biotechnology Persa. 2019; 1(1):39-41.
- 46- Natural remedies effective on stomachache in traditional medicine. **Hori Ghaneialvar**, Naser Abbasi*, Somayeh Shahsavari. Plant Biotechnology Persa. 2020; 2(1):42-47.
- 47- An ethno medicinal plant: Antibacterial activities of *Stachys lavandulifolia* Vahl aqueous extract against common pathogens. **Hori Ghaneialvar**, Naser Abbasi, Sania Saneei, Akram Zangeneh, Mohammad Mahdi Zangeneh, Mehrdad Pooyanmehr, Maryam Almasi, Fatemeh Rezaei Ghazikhani, Erfan Bahrami. Plant Biotechnology Persa. 2021; 3(1).
- 48- Assessment of the wound healing property of aqueous extract of *Stevia rebaudiana*: An ethno medicinal plant. Naser Abbasi, **Hori Ghaneialvar**, Sania Saneei, Mohammad Mahdi Zangeneh, Akram Zangeneh. Plant Biotechnology Persa. 2021; 3(1).
- 49- 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.

- 50- 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.
- 51- An overview of the applications of selenium nanoparticles in the biological sciences. Soltani L, **Ghaneialvar H**. Journal of Kashan University of Medical Sciences. 2021; 25(4):1130-1143.
- 52- Studying the effect of metformin and aerobic exercise on some biochemical factors in diabetic and healthy rats. Elahe Alivaisi, Sabrieh Amini, Karimeh Haghani, **Hori Ghaneialvar**, Fatemeh Keshavarzi. J Bas Res Med Sci 2022; 9(2): 7-15.
- 53- The study of Chir99021 effect on proliferation of Ovine fetal bone marrow derived mesenchymal stem cells. Journal of cell and tissue. 2016; 7(1) 91-101 (Persian).

Presented & Published Abstracts in Congresses:

- 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. 12th 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. 7th Basic and Clinical Neuroscience Congress, December 12-14, 2018.