

Curriculum vitae

Hadi Ghasemi

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Personal Information

Date of birth: *Murch 21th 1988*

Place of birth: *Hamadan, Iran*

Marital Status: *Single*

Educational Background

❖ **Ph.D.** in *Clinical Biochemistry, Hamadan University of Medical Science, Hamadan, Iran (October 2020) GPA: (Top Student, first rank)*

Thesis Title:

Evaluation of extracellular matrix proteins alteration and its effect on yes-associated protein (YAP1) localization in new and recurrent Bladder Cancer

❖ **M.Sc.**, *Clinical Biochemistry, Hamadan University of Medical Science, Hamadan, Iran (January 2016)*

Thesis Title:

Study of prevalences of Rs25487X-Ray repair cross-complementing group 1 and rs1805388 DNA ligase IV gene polymorphisms in fertile and infertile men

❖ **B.Sc.**, *Veterinary Lab Sciences, Bu-Ali Sina University (September 2012)*

Careers:

- ✓ **2021 – 2022 Quality Control Manager**, *Medical laboratory of Hamadan healthcare center*
- ✓ **2022 March – 2024 February Assistant Professor**, *Dept. of Biochemistry, School of Medicine, Shiraz University of Medical Sciences, Shiraz, Iran.*

Courses taught:

Dept. of Clinical Biochemistry, School of Medicine, Hamadan University of Medical Sciences:

- ✓ *General Biochemistry (Structure and Function of Biomolecules)*
- ✓ *General Biochemistry (Metabolism and Hormones)*
- ✓ *Laboratory Biochemistry*
- ✓ *Laboratory methods in clinical biochemistry*

- ✓ *Quality control management in medical laboratories*

Dept. of Biochemistry, School of Medicine, Shiraz University of Medical Sciences:

- ✓ *Teaching general Biochemistry (Structure and Function of Biomolecules) for Nursing students*
- ✓ *Teaching general biochemistry (Metabolism) for Nutritional Sciences students.*
- ✓ *Teaching medical biochemistry laboratory for Nutritional Sciences, Dentistry and Medical students.*
- ✓ *Teaching medical biochemistry laboratory for international medical students.*
- ✓ *Teaching some courses of biochemistry for MSc students of Clinical Biochemistry.*
- ✓ *Teaching quality management system for PhD students of Clinical biochemistry.*

Workshop Presentations:

- *Quality management system establishment in medical laboratory, Hamadan University of medical sciences*
- *Quality control in medical laboratory, Shiraz University of medical sciences*

Research Interest

- *Bladder Cancer*
- *Matrix Stiffness*
- *Intercellular Signaling*
- *Infertility*

Publications

1. **Hadi Ghasemi**, Mousavibahar SH, Hashemnia M, Karimi J, Khodadadi I, Mirzaei F, et al. Tissue stiffness contributes to YAP activation in bladder cancer patients undergoing transurethral resection. *Annals of the New York Academy of Sciences*. 2020.
2. **Hadi Ghasemi**, Amini MA, Pegah A, Azizi E, Tayebinia H, Khanverdilu S, et al. Overexpression of reactive oxygen species modulator 1 is associated with advanced grades of bladder cancer. *Molecular Biology Reports*. 2020; 47(9):6497-505.
3. **Hadi Ghasemi**, Khodadadi I, Fattahi A, Moghimbeigi A, Tavilani H. Polymorphisms of DNA repair genes XRCC1 and LIG4 and idiopathic male infertility. *Systems biology in reproductive medicine*. 2017;63(6):382-90.
4. **Hadi Ghasemi**, Mohammad Hashemnia, Seyed Habibollah Mousavibahar, Hamideh Mahmoodzadeh Hosseini, Seyed Ali Mirhosseini. Positive association of matrix proteins alteration with TAZ (transcriptional co-activator with PDZ-binding motif) and the progression of high-grade bladder cancer. *Cell Journal*. 2020. Accepted.

5. Mohseni R, Arab Sadeghabadi Z, Karimi J, Gholami H, **Hadi Ghasemi**, Ghadimipour HR, et al. *Chlorella vulgaris* supplementation attenuates the progression of liver fibrosis through targeting TGF- β -signaling pathway in the CCl₄-induced liver fibrosis in rats. *Toxin Reviews*. 2019;1-9.
6. Rostampour F, **Hadi Ghasemi**, Mousavi-Bahar SH, Ranjbar A, Shayesteh TH, Tayebinia H. Total antioxidant capacity, lipid peroxidation, thiol group and catalase activity in patients with kidney stone. *Avicenna Journal of Medical Biochemistry*. 2017;5(2):60-4.
7. Allahkarami S, Atabakhsh M, Moradi MN, **Hadi Ghasemi**, Bahmanzadeh M, Tayebinia H. Correlation of uric acid, urea, ammonia and creatinine of seminal plasma with semen parameters and fertilization rate of infertile couples. *Avicenna Journal of Medical Biochemistry*. 2017;5(2):76-80.
8. Zahra Salemi, **Hadi Ghasemi**, Ali Morovati, Hamideh Sadri. Effects of Biochanin A on Resistin, Adiponectin and some stress oxidative markers in normal and STZ-Induced Diabetic Rats. *Archives of Medical Laboratory Sciences*. 4(2).
9. Akram Ranjbar, Sara Torabi, Davood Nematollahi, Mahdi Jamshidi, **Hadi Ghasemi**. Molecular Modelling of the Therapeutic agents for COVID-19 Treatment. *Infectious Diseases Research*. (2021)
10. Sara Ami Ahmadi, Azin Kazemi, Mohammadmahdi Sabahi, Shahab Razipour, Arash Salehipour, Masoud Ghiasian, **Hadi Ghasemi**, Akram Ranjbar. Probable antioxidant therapy of Saffron Crocin in patients with multiple sclerosis: A randomized controlled trial. *Biomedicine* (2021).
11. **Hadi Ghasemi**, Seyed Habibollah Mousavibahar, Mohammad Hashemnia, Jamshid Karimi, Iraj Khodadadi, Heidar Tavilani. Transitional cell carcinoma matrix stiffness regulates the osteopontin and YAP expression in recurrent patients. (2021). *Molecular Biology Reports*. (2021)
12. Sheema Khanvirdiloo, Nasrin Ziamajidi, Arash Moradi, **Hadi Ghasemi**, Abolfazl Ghafourikhosroshahi, Maryam Bahmanzadeh, Mozhdeh Ghadiri, Roghayeh Abbasalipourkabir: Effects of Vitamins A and E on TiO₂ Nanoparticles-Induced Spermatogenesis Defects in Male Wistar Rats. *Iranian Journal of Science and Technology, Transactions A: Science*, (2021).
13. Moradi Mn, Behrouj H, Alipour B, Kheiripour N, Ghasemi H, **Hadi Ghasemi** *Chlorella vulgaris* is an effective supplement in counteracting non-alcoholic fatty liver disease-related complications through modulation of dyslipidemia, insulin resistance, and inflammatory pathways. *Journal of Food Biochemistry*. 2021;45(10):e13914.
14. **Hadi Ghasemi**, Pegah A, Tayebinia H, Khazaei S, Feizi F, Mazaheri S, et al. The Overexpression of Sonic Hedgehog Associates with Collateral Development and

- Amelioration of Oxidative Stress in Stroke Patients. Journal of Stroke and Cerebrovascular Diseases. 2022;31(5):106408.*
15. Ranjbar A, Satari M, Mohseni R, Tavalani A, **Hadi Ghasemi***. *Chlorella vulgaris ameliorates testicular toxicity induced by carbon tetrachloride in male rats via modulating oxidative stress. Andrologia. e14495.*
 16. Khalilian A, Karami P, Bakhtyari S, Ezati R, Khosravi S, Amini R, **Hadi Ghasemi.** *Prevalence of Helicobacter felis and Helicobacter heilmannii and co-infection with Helicobacter pylori in gastric biopsy specimens in endoscopic ward of Shahid Beheshti Hospital, Hamadan, Iran. International Journal of Medical Toxicology and Forensic Medicine. 33088-.*
 17. Khansari S, Tavalani H, **Hadi Ghasemi***. *Gender, bladder cancer healthcare and burden of COVID-19. Cancer Investigation. 2022; 41(1): 58-69.*
 18. Ranjbar A, Kheiripour N, Shateri H, Sameri A, **Hadi Ghasemi***. *Protective Effect of Curcumin and Nanocurcumin on Sperm Parameters and Oxidant-Antioxidants System of Rat Testis in Aluminium Phosphide Subacute Poisoning. Pharmaceutical Nanotechnology. 2023.*
 19. **Hadi Ghasemi,** Seghatoleslam A, FahmidehKar MA, Mahbudi L, Gharezi Fard B, Jamshidi M. *Analysis of the interaction of UBE2Q1 with B4GALT1 and P53: Experimental and molecular modeling study. Protein and Peptide Letters. 2023.*
 20. FA Jalilian, H Ghasemi, A Pegah, S Khazaei, R Amini, **Hadi Ghasemi***. *The association between enterovirus (EV) infection and the risk of type 1 diabetes: a meta-analysis; International Journal of Diabetes in Developing Countries. 2023*
 21. M Zamani, P Mokarram, M Jamshidi, M Siri, **Hadi Ghasemi***. *Molecular Modelling of Resveratrol Derivatives with SIRT1 for the Stimulation of Deacetylase Activity. Current Computer-aided Drug Design. 2023.*
 22. Kiana Kimiaei Asadi, Kimia Amiri, **Hadi Ghasemi,** Iraj Amiri. *Comparison of follicular fluids Glycosaminoglycan and hydroxyproline concentration in polycystic ovary syndrome with healthy women. Avicenna J Med Biochem. 2024.*
 23. Shima Kianmehr, Mohammad Vahabirad, Atefeh Seghatoleslam, Erfan Sadeghi, Roozbeh Kiani, **Hadi Ghasemi***. *Prognostic Value of TGF- β Expression in Bladder Cancer: A Systematic Review and Meta-analysis. Urology Research and Practice. 2024*
 24. Seyed Ali Nabavizadeh, Farima Safari, Atefeh Seghatoleslam, Erfan Sadeghi, **Hadi Ghasemi***. *Systemic Immune-Inflammation Index (SII) as Prognostic Indicator for BCG Therapy in Bladder Cancer: A Systematic Review and Meta-analysis. Avicenna Journal of Medical Biochemistry. 2024*
 25. Mozhdah Zamani, Erfan Sadeghi, Pooneh Mokarram, Behnam Kadkhodaei, **Hadi Ghasemi***. *Autophagy related proteins as potential biomarkers in predicting cancer prognosis after chemoradiotherapy: systematic review and meta-analysis. International Journal of Radiation Biology. 2024*

Fellowships attendance:

- *Electronic learning fellowship; Center of Excellence for Electronic Learning in Medical Sciences; 2022. SUMS*
- *One-month medical education fellowship program in January and February 2023, EDC, SUMS*

Technical Skills

- ✓ *Polymerase Chain Reaction–Restriction Fragment Length Polymorphism (PCR-RFLP)*
- ✓ *Western blotting*
- ✓ *ELISA*
- ✓ *Real Time PCR*
- ✓ *Electrophoresis*
- ✓ *Chromatography*
- ✓ *Primer Designing*
- ✓ *DNA and RNA Extraction*
- ✓ *Quality Control in Medical Laboratory*
- ✓ *Immunohistochemistry Technique*
- ✓ *Animal (Rat) Handling*
- ✓ *Atomic Force Microscopy*
- ✓ *Bioinformatics analysis*
- ✓ *Molecular Docking*
- ✓ *Molecular Dynamic (MD)*
- ✓ *Machine Learning*

Software

- ✓ *Statistical Package for Social Sciences (SPSS)*
- ✓ *GraphPad Prism*
- ✓ *EndNote*
- ✓ *Discovery Studio Visualizer*
- ✓ *Molecular Operating Environment (MOE)*
- ✓ *MATLAB*
- ✓ *AutoDock Vina*
- ✓ *Python*

Honors

- ✓ **2th Ranking** in Clinical Biochemistry PhD entrance examination (2016)
- ✓ **Best student award**, Hamadan University of Medical Sciences, Hamadan, Iran (2018)
- ✓ **Graduated with honors** (first-ranked), Hamadan University of Medical Sciences, Hamadan, Iran (2016)
- ✓ **Graduated with honors** (first-ranked), Hamadan University of Medical Sciences, Hamadan, Iran (2020)
- ✓ **Selected as first rank talented student** by the office of talented students of Hamadan University of Medical Science, 2015.

Experiences

- ✓ *Laboratory work experience (8 years)*

- ✓ *Quality Control Management in Medical Laboratory (4 years)*
- ✓ Assistant professor of clinical biochemistry in department of clinical biochemistry in shiraz university of medical sciences.

Reference

Dr Tavalani

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