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EDUCATION:

B.S., Biology, Tehran University,

B.A., English Language Translation

M.Sc., Clinical Biochemistry, Tabriz Medical University,

Ph.D., Clinical Biochemistry, Hamedan University of Medical Scinces.

Research projects:

- 1. Assessment of homocysteine levels in different paraoxonase phenotypes in patients with exudative age related macular degeneration.
- 2. Relationship between homocysteine concentration and serumic Asymmetric dimethylarginine (ADMA) concentration in exudative age—related macular degeneration
- 3. Effect of omega 3 fatty acid supplements on serum paraoxonase activity in patients with rheumatoid arthritis
- 4. The comparison between Breast milk and formula feeding full term neonates in serum proportion of OPG to OPGL
- 5. Measuring the levels of trace elements in the dialysis fluid of dialysis patients with Atomic absorption method
- 6. Comparison of paraoxonase (A-192G) polymorphism and phenotype in fertile and infertile males
- 7. Expression and purification of recombinant asparaginase and evaluation of its stability in biodegradable nanoparticle
- 8. Cloning and expression determination of l- asparaginas from shigella dysantry

- 9. Epidemiological study of the prevalence of hepatitis B and C virus infection in blood donors and geographical distribution of the in Alborz province
- 10. The effect of incubation period on the activity of factor VIII in Fresh Frozen Plasma from isolation till freezing
- 11. The study the effect of the spironolactone and captopril and their combined administration on miRNA-192 and miRNA-29 levels in diabetic nephropaty in animal model wistar rats
- 12. The study of antioxidant and anti-inflammatory effects of hydroalchoholic extract of Securigera securidaca in diabetic rats
- 13. The study of the effects of hydro-alcoholic extract of Securigera securidaca seeds on angiogenesis factors of vascular endothelial growth factor and Fibroblast growth factor in diabetic rats
- 14. The effect of Securigera securidaca hydroalcoholic extract on glycogen levels, Testis lactate dehydrogenase gene expression and physiological parameters of sperm in streptozotocin-diabetic rats
- 15. The study of serum homocysteine levels and paraoxonase phenotypes in rats treated by hydroalcoholic extract of Securigera Securidaca seed
- 16. Cloning, expression and purification of recombinant N- acetylmuramidase from staphylococcus aureus
- 17. Cloning, expression and purification of recombinant staphylokinase from staphylococcus aureus
- 18. Study of the effect of hydroalcoholic extract of Securigera Securidaca seed on local liver reninangiotensin system in diabetic rats
- 19. The effect of hydroalcoholic extract of Securigera Securidaca seed on local pancreatic reninangiotensin system in diabetic rats
- 20. Study the effect of hydroalcoholic extract of Securigera Securidaca seed on liver gene expression of NRF2 and FGF21 and their relationship with insulin secretion in hyperglycemic rats

PUBLICATIONS:

- Plasma oxidized LDL and thiol-containing molecules in patients with exudative age related macular degeneration, Molecular Vision 2010; 16:2578-2584. doi:10.1016/S1567-5688(10)70224-5
- Serum paraxonase phenotype distribution in exudative age related macular degeneration and its relationship to homocysteine and oxidized low density lipoprotein. Retina. 2012 Apr;32(4):658-66. doi: 10.1097/IAE.0b013e31822529b1

- ۳. سطح سرمی هموسیستئین، لیپوپروتئین با دانسیته پایین و فعالیت آنزیم پاراکسوناز در بیماران مبتلا به دژنرسانس وابسته به
 سن ماکولای مرطوب. مجله پزشکی دانشگاه علوم پزشکی تبریز ۱۳۹۰ دوره : ۳۳ شماره : ۱ صفحه:۱۳ -۱۷
 - Fish oil supplementation decreases serum soluble receptor activator of nuclear factor-kappa B ligand/osteoprotegrin ratio in female patients with rheumatoid arthritis. Clinical Biochemistry, 2010 Apr;43(6):576-80. doi: 10.1016/j.clinbiochem.2009.12.011
 - 5. Effect of fish oil supplements on serum paraoxonase activity in female patients with Rheumatoid Arthritis: A double-blind randomized controlled trail. Archives of Iranian Medicine, 2012 Sep;15(9):549-52. doi: 012159/AIM.007.
 - 6. Effect of omega-3 fatty acids supplementation on circulating osteoprotegerin ligand to osteoprotegerin ratio in female patients with rheumatoid arthritis
 - **7.** An optimized protocol for over-production of recombinant protein expression in Eschrichia coli. Preparative biochemistry biotechnology, 2014;44(5):510-28. doi: 10.1080/10826068.2013.833116
 - 8. Preparation and Nanoencapsulation of L-Asparaginase II in Chitosan-Tripolyphosphate Nanoparticles and In Vitro Release Study. Nanoscale Research Letters 2014, 9:340 doi:10.1186/1556-276X-9-340
 - 9. Genotype and phenotype frequencies of paraoxonase 1 in fertile and infertile men. Syst Biol Reprod Med. 2014,60(6):361-6. Doi:10.3109/19396368
 - 10. Bioinformatic Analysis of L-Asparaginase II from *Citrobacter Freundii* 1101, *Erwinia Chrysanthemi* DSM 4610, *E.coli* BL21 and *Klebsiella Pneumoniae* ATCC 10031. International Journal of Medical Laboratory 2017;4(2):123-134.
 - 11. Cloning, sequencing and expression of L-Asparaginase II gene from Citrobacter freundii 1101. International Journal of Biology Researc; volume 2; Issue 2; April2017; Page No. 07-12.
 - ۱۲. ارزیابی سطوح پروفایل لیپیدی و LDL اکسید شده در فنوتیپهای مختلف آنزیم پاراکسوناز در بیماران مبتلا به دژنرسانس وابسته به سن ماکولای مرطوب ۱۳۹۷، دوره ۲۰. شماره: ۱۹۹. صفحه: ۵۰-۱۰
 - 13. Comparison of the Effect of Amino Acids and Their Derivatives on the Growth of Some Dermatophytes: An In Vitro Study. IJML 2018, 5(1): 66-75
 - 14. Prevalence of chronic viral hepatitis infections in Karaj, Iran. Pan Afr Med J. 2017; 28: 186. doi: 10.11604/pamj.2017.28.186.10269
 - 15. AGTR1 rs5186 variants in patients with type 2 diabetes mellitus and nephropathy. Meta Gene; 2018,15, 50-54. doi.org/10.1016/j.mgene.2017.11.001

- 16. The expression levels of miRNAs- 27a and 23a in the peripheral blood mononuclear cells (PBMCs) and their correlation with FOXO1 and some inflammatory and anti-inflammatory cytokines in the patients with coronary artery disease (CAD). Life Science; 2020 Jun 6;256:117898. doi: 10.1016/j.lfs.2020.117898.
- Effect of a Peptide Construct on Differentiated Macrophage MMP-2 and MMP-9 Levels of Varicose Patients. Current Pharmaceutical Design; 2019, 25(40):4303-4309 doi: 10.2174/1381612825666191029105203
- 18. Effects of Securigera Securidaca Seed Extract in Combination With Glibenclamide on Antioxidant Capacity, Fibroblast Growth Factor 21 and Insulin Resistance in Hyperglycemic Rats. Journal of Ethnopharmacology; 2020 Feb 10;248:112331. doi: 10.1016 /j.jep.2019.112331.
- 19. Effects of Securigera securidaca (L.) Degen & Dorfl seed extract alone and in combination with glibenclamide on paraoxonase1 activity, lipid profile and peroxidation, and cardiovascular risk indices in diabetic rats; Bioimpacts; 2020,
- 20. The study of serum asymmetric dimethylarginine concentrations in different paraoxonase phenotypes in exudative age-related macular degeneration disease. International Journal of Medical Laboratory; 2020,
- 21. Application of System Biology to Explore the Association of Neprilysin, Angiotensin-Converting Enzyme 2 (ACE2), and Carbonic Anhydrase (CA) in Pathogenesis of SARS-CoV-2. Biol Proced Online; 2020; 22:11. doi: 10.1186/s12575-020-00124-6.
- 22. A comprehensive review of COVID-19 characteristics. Biol Proced Online; 2020
- 23. The expression levels of miRNAs- 27a and 23a in the peripheral blood mononuclear cells (PBMCs) and their correlation with FOXO1 and some inflammatory and anti-inflammatory cytokines in the patients with coronary artery disease (CAD)

GenBank MN585199

https://www.ncbi.nlm.nih.gov/nuccore/MN585199

Staphylococcus aureus subsp. aureus strain ATCC 25923 N-acetylmuramidase gene, complete cds

Patent

Peptidoglycan extraction and purification from bacteria

Patent number: 139850140003011420