

Hooria Seyedhosseini Ghaheh

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OFFICE ADDRESS

Food Security Research Center (FSRC),
School of Nutrition and Food Sciences,
Isfahan University of Medical Sciences (IUMS)
Isfahan, 81746–73461, Iran

CURRENT POSITION

Assistant Professor of Food Science and Technology

EDUCATION

Research Assistant

Isfahan University of Medical Sciences

- Department of Pharmaceutical Biotechnology, School of Pharmacy and Pharmaceutical Sciences

Ph.D

Science and Research Branch of Tehran

- Biochemistry, GPA: 19.36/20

Thesis: production of a more soluble Reteplase in *E.coli* using *in silico* and *in vitro* Studies

HONORS AND AWARDS

2020 Receiving an appreciation letter from the head of the Iranian Red Crescent Volunteer Organization

2019 Receiving an appreciation letter from the Red Crescent of Isfahan province

2016-2017 Winner of the Research Award by the Iran's National Elites Foundation

2008-2019 Member of Young Researchers and Elites Club of Tehran University of Science and Research Branch

2019 Ranked 1st among Ph.D. students' of 2014 entrance with overall GPA of 19.36/20

2011 Ranked 1st among M.Sc. students' of 2009 entrance with overall GPA of 19.24/20

PROFESSIONAL ASSOCIATION MEMBERSHIPS, SERVICES AND ACTIVITIES

Reviewer (Journals):

Research in Pharmaceutical Sciences
Journal of Isfahan Medical School
Iranian Journal of Diabetes and Metabolism

Reviewer (Project):

Innovation Center of Isfahan University of Medical Sciences

Social Activity:

Active volunteer and honorary member of the Red Crescent of Isfahan province since 2017 until now

TEACHING EXPERIENCES

2020 Lecturer of Search Strategies in Databases

2011-2015 Lecturer of Biochemistry for Biology students (Biotechnology, Cellular and molecular, Microbiology, Physiology), Nursing and Midwifery students

PUBLICATIONS

Books:

2016 Rubisco Enzyme, Mani press

2016 Reference Handwriting. Isfahan University of Medical Science press

2012 Acute Phase Proteins. Mani press

2012 Obesity, high cholesterol and prevention practices. Mani press

2011 Spectrophotometry. Mani press

Articles:

- Esmaeili Y, Mohammadi Z, Khavani M, Sanati A, Shariati L, **Seyedhosseini Ghaheh H**, Bidram E, Zarrabi A. Fluorescence anisotropy cytosensing of folate receptor positive tumor cells using 3D polyurethane-GO-foams modified with folic acid: molecular dynamics and in vitro studies. *Microchimica Acta*. 2023 Jan; 190(1):44.

- **Seyedhosseini Ghaheh H**, Damavandi MS, Sadeghi P, Massah AR, Asl TH, Salari-Jazi A, Hejazi SH. Targeting and ultrabroad insight into molecular basis of Resistance-nodulation-cell division efflux pumps. *Sci Rep*. 2022 Sep 27; 12(1):16130.
- **Seyedhosseini Ghaheh H**, Mousavi M, Araghi M, Rasoolzadeh R, Hosseini Z. Nanobiological studies on drug design using molecular mechanic method. *Advanced Biomedical Research*. 2015; 4.
- **Seyedhosseini Ghaheh H**, Sajjadi S, Shafiee F, Barzegari E, Moazen F, Mir Mohammad Sadeghi H. Rational design of a new variant of Reteplase with optimized physicochemical profile and large-scale production in Escherichia coli. *World Journal of Microbiology and Biotechnology*. 2022 Feb; 38(2):1-2
- Amerizadeh A, **Seyedhosseini Ghaheh H**, Vaseghi G, Farajzadegan Z, Asgary S. Effect of Oat (*Avena sativa* L.) Consumption on Lipid Profile with Focus on Triglycerides and High-density Lipoprotein Cholesterol (HDL-C): An Updated Systematic Review. *Curr Probl Cardiol*. 2022 Feb 19:101153.
- Aria H, Mahmoodi F, **Seyedhosseini Ghaheh H**, mavandadnejadd F, Zare H, Heiat M, Bakherad H. Outlook of therapeutic and diagnostic competency of nanobodies against SARS-CoV-2: A systematic review. *Analytical Biochemistry*. 2022 Jan 4:114546
- Sebghatollahi Z, Ghanadian M, Agarwal P, **Seyedhosseini Ghaheh H**, Mahato N, Yogesh R, Hejazi SH. Citrus flavonoids: Biological activities, implementation in skin health, and topical applications: A Review. *ACS Food Science & Technology*. 2022 Sep 2; 2(9):1417-32.
- Mousavi M, Ahmadi N, **Seyedhosseini-Ghaheh H**, Vaezi A, Haghjooy Javanmard SH. Psychological Impact of Covid-19 on Health Care Workers: a Multicenter Cross Sectional Study. *Journal of Research in Medical Sciences*. 2021 Sep 30; 26:77.
- **Seyedhosseini-Ghaheh H**, Mohamad Reza Ganjalikhany, Parichehreh Yaghmaei, Morteza Pourfarzam, and Hamid Mir Mohammad Sadeghi. Investigation of Supercharging as a Strategy to Enhance the Solubility and Plasminogen Cleavage Activity of Reteplase. *Iranian Journal of Biotechnology*. 2020; 18(4); 10.30498/ 196247.2556
- **Seyedhosseini-Ghaheh H**, Ganjalikhany MR, Yaghmaei P, Pourfarzam M, Sadeghi HM. Improving the solubility, activity, and stability of reteplase using in silico design of new variants. *Research in pharmaceutical sciences*. 2019 Aug; 14(4):359.
- Asadzadeh A, **Seyedhosseini-Ghaheh H**, Sholehvar F, Takhshid M, Naghizadeh MM. Investigation of the Association between 5-Hydroxytryptamine Transporter Gene- Linked Polymorphic Region with Type 2 Diabetes Mellitus, Obesity and Biochemical Profiles of

Serum in Iranian Population. *Avicenna journal of medical biotechnology*. 2019 Jul; 11(3):239.

- Mohammadi E, **Seyedhosseini-Ghaheh H**, Mahnam K, Jahanian-Najafabadi A, Sadeghi HM. Reteplase: structure, function, and production. *Advanced biomedical research*. 2019; 8.
- Ghaffari S, Asadzadeh A, **Seyedhosseini-Ghaheh H**, Sholehvar F. Docking Study on salicylaldehyde Derivatives as Anti-melanogenesis Agents. *J Fasa University Med Sci*. 2018 May 10;8(1):618-27.
- Żemojtel-Piotrowska M, Piotrowski JP, Ciecuch J, Adams BG, Osin EN, Ardi R, Bălăţescu S, Bhomi AL, Clinton A, De Clunie GT, Esteves C, **Seyedhosseini-Ghaheh H**, et al. Measurement invariance of Personal Well-being Index (PWI-8) across 26 countries. *Journal of Happiness Studies*. 2017 Dec 1;18(6):1697-711.
- Sholehvar F, Asadzadeh A, **Seyedhosseini-Ghaheh H**. Molecular Docking Studies of Some Hydroxy Nitrodiphenyl Ether Analogues as Tyrosinase Inhibitors. *J Fasa University Med Sci*. 2017; 6 (4):548-555.
- **Seyedhosseini-Ghaheh H**, Mousavi M, Araghi M, Rasoolzadeh R, Hosseini Z. Nanobiological studies on drug design using molecular mechanic method. *Advanced biomedical research*. 2015; 4.
- **Seyedhosseini-Ghaheh H**, Feizi A, Mousavi M, Sohrabi D, Mesghari L, Hosseini Z. Risk factors of placental abruption. *Journal of research in medical sciences* 2013 May; 18(5):422.
- Haghjooy Javanmard SH, Mirmohammad Sadeghi M, Hashemi Jazi SM, **Seyedhosseini-Ghaheh H**, Mosayebi A. Correlation of C-Reactive Protein (CRP) in Blood and the Atherosclerotic Plaque and its Severity in Patients with Diabetes Mellitus Undergoing Coronary Artery Bypass Graft Surgery. *Journal of Isfahan Medical School*. 2013
- **Seyedhosseini-Ghaheh H**, Sohrabi D, Mousavi M, Gorgani MG, Sarshar S, Mazoumzadeh S, Hosseini Z. Effects of Lithium on Levels of Testosterone, Pituitary Gonadotropins, and Testis Tissue in Adult Male Rats. *Journal of Isfahan Medical School*. 2013 May 1; 31.(227)
- Monajjemi M, Tari ES, Mollaamin F, Movahedi M, **Seyedhosseini-Ghaheh H**. Studies of molecular modeling on drug design of *Listeria monocytogenes* internalin B β -sheet. *African Journal of Biotechnology*. 2012; 11(10):2406-16

- **Seyedhosseini-Ghaheh H**, Rasoolzadeh R, Shahanipour K. Nanostudy and simulation of carbon nanotube binding to amino acids using by molecular mechanics method. *Research in Pharmaceutical Sciences*. 2012 Aug 30; 7(5):221
- Monajjemi M, Hooshm N, **Seyedhosseini-Ghaheh H**, Mollaamin F. NMR Shielding and thermodynamic density functional theory (DFT) studies of solvent effect on B10N11H7 (Ala) 2 Nano Cone. *African Journal of Microbiology Research*. 2012 May 30; 6(20):4247-55.
- Monajjemi M, Ardalan T, **Seyedhosseini-Ghaheh H**, Mollaamin F. Density functional theory (DFT) study of C7 Si5 Ge3 cluster as a novel material for vitamin C nano carrier. *African Journal of Microbiology Research*. 2011 Oct 23; 5(23):3870-9.

INTERNATIONAL CONFERENCES

- **Seyedhosseini-Ghaheh H**, Ganjalikhany MR, Barzegari E, Mir Mohammad Sadeghi H. Investigation of the effect of net charge on the fibrin-binding affinity of Reteplase. The 3rd International & 11th National Biotechnology Congress of Islamic Republic of Iran. Tehran (Iran), 1-3 sept. 2019 (Poster)
- **Seyedhosseini-Ghaheh H**, Mir Mohammad Sadeghi H, Ganjalikhani MR, Yaghmaei P, Pourfarzam M. Enhancing the Stability and Solubility of therapeutic Reteplase Protein using in Silico Design. International Congress of Pharmaceutical Biotechnology. Tehran (Iran), 29-31 Aug. 2017 (Speech)
- Seyedhosseini-Ghaheh H, shahanipour K, Rasoolzadeh R. Bio-nano modeling of carbon nanotube binding to amino acids using by computational method. International Nanotechnology Congress. Nigde (Turkey), 9-11 July 2012 (Speech)
- Mahdizadeh F, Rasoolzadeh R. **Seyedhosseini-Ghaheh H**. Nano theoretical investigation of semi-empirical and molecular mechanics methods of Alzheimer's disease myeloid beta-peptide. International Nanotechnology Congress. Belarus, 2012 (Poster)
- Sadathosseini A, Younesi J, **Seyedhosseini-Ghaheh H**, Aryanpur H. The association between forgiveness and marital satisfaction. International Congress of Psychology. Cape Town (South Africa) 2012 (Speech)
- **Seyedhosseini-Ghaheh H**, Rasoolzadeh R, Shahanipour K. Nanostudy and simulation of carbon nanotube binding to amino acids using by molecular mechanics method. 13th Iranian Pharmaceutical Science Congress. Isfahan (Iran), 3-6 Sept. 2012 (Poster)

- **Seyedhosseini-Ghaheh H**, sadathosseini A. Investigation of educational methods used in learning of students of biochemistry. International Congress of Medical Education. Kish (Iran) 20 (Speech)

NATIONAL CONFERENCES

- **Seyedhosseini-Ghaheh H**, Barzegari E, Ganjalikhany MR, Mir mohammad sadeghi H. Design of a Novel Engineered Reteplase with Favorable Fibrin-Binding Affinity. The 16th Iranian Conference of pharmaceutical sciences. Kermanshah, 6-8 Nov. 2019 (Poster)
- **Seyedhosseini-Ghaheh H**, Mir Mohammad Sadeghi H, Ganjalikhani MR, Yaghmaei P, Pourfarzam M. *In silico* investigation of effective mutations on solubility and stability of recombinant therapeutic Protein: Reteplase. Iranian pharmaceutical Sciences Conference. Hamedan 2017 (Poster)
- Kasaei M, **Seyedhosseini-Ghaheh H**. Effect of Trigonella Foenum Graecum L. on Diabetic Rat Memory. 4th National congress on medicinal plants. Isfahan. 12- 13 May 2016 (Poster)
- Mousavi M, Araghi M, **Seyedhosseini-Ghaheh H**, Rasoolzadeh R. Assessment of helicobacter infection in children and its relation to infection of their parents. The first scientific gathering of talented graduates. Kashan 2012 (Speech)
- **Seyedhosseini-Ghaheh H**, Rasoolzadeh R. Modeling of carbon Nano-tube binding to amino acids using computational method. The first scientific gathering of talented graduates. Kashan 2012 (Poster)
- **Seyedhosseini-Ghaheh H**. Nanotechnology in food security. National Conference on Promoting the Sustainable Life of Food, Beverage, Cosmetics with Emphasis on Reducing Conservative Consumption. Isfahan, 2011 (Poster)
- **Seyedhosseini-Ghaheh H**. Factors affecting the quality of dairy products. National Conference on Promoting the Sustainable Life of Food, Beverage, Cosmetics with Emphasis on Reducing Conservative Consumption. Isfahan, 2011 (Poster)
- Housepian S, Amini M, Pournaghshband Z, Amini P, **Seyedhosseini-Ghaheh H**. Relationship between γ - glutamyltransferase and glucose intolerance in first degree relatives of type 2 diabetics patients in Isfahan-Iran. International Congress of Endocrinology and Metabolism, Isfahan University of Medical Sciences. Isfahan, 2010 (Poster)

- Esteki R, **Seyedhosseini-Ghaheh H**. A case report of a rare orthopedic disease (osteopetrosis) in Isabn-e-Maryam Hospital in Isfahan. New approaches to care and treatment education. Isfahan 2010 (Poster)
- **Seyedhosseini-Ghaheh H**.The effect of economic and cultural factors on the remarriage of the elderly. Isfahan 2008 (Poster)
- **Seyedhosseini-Ghaheh H** .Health in Islam. Research week .Isfahan 2007 (Speech)
- **Seyedhosseini-Ghaheh H** .The importance of mental health from the perspective of the Holy Quran. Rafsanjan 2006 (Poster)

RESEARCH PROJECTS

2021-2022 Design and production of a new generation of Aptamer with more specificity to HER2 connected to Gene structure encoded apoptotic protein and investigating its cellular effect.

2020-2021 Optimization of the production of a new generation of Reteplase with higher solubility and stability in *E. coli* using a bioreactor in Isfahan University of Medical Sciences.

2020-2021 Isolation and Purification of spider venom.

2020-2021 Citrus based molecules in anti-aging cosmetic products in Isfahan University of Medical Sciences.

2019-2020 Linkazma platform in Isfahan University of medical sciences.

2019-2020 Psychological impact of Covid-19 on Health Care Workers: a Multicenter Cross Sectional Study in Isfahan University of Medical Sciences.