



CURRICULUM VITEA

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Degrees:

B.Sc. in Microbiology (2002-2008), *Department of Microbiology, School of Basic Sciences, Islamic Azad University (Tehran North Branch), Tehran, Iran.*

M.Sc. in Biophysics (2008-2009), *Department of Biophysics, School of Basic Sciences, Islamic Azad University (Science and Research Branch of Tehran), Tehran, Iran.*

Ph.D. in Applied Proteomics (2013-2018), *Department of Basic Sciences, Faculty of Paramedical Sciences, Shahid Beheshti University of Medical Sciences, Tehran, Iran.*

Teachings:

A, For B.Sc. Students:

- 1- Biophysics; from 2013 so far
- 2- Biophysical chemistry; from 2013, 2019
- 3- Biochemistry; 2015
- 4- Radiation biophysics; from 2013, 2019
- 5- Basics of biology; 2013

B, For M.Sc. Students:

- 1- Cellular biophysics; from 2015, 2019
- 2- Genetic engineering; 2019
- 3- Molecular Genetics; 2019
- 4- Basics of bioinformatics; 2021

C, For Ph.D Students:

- 1- Genomics and proteomics; 2019
- 2- Computational systems biology; from 2019 so far
- 3- Protein engineering; from 2020 so far
- 4- Research methods

Position Held:

- 1- Member of the Research Center for Molecular Medicine, Hamadan University of Medical Sciences, Hamadan, Iran (from 2021 so far).
- 2- Member of the Committee on Research in Education at EDC, Hamadan University of Medical Sciences, Hamadan, Iran (2019, 2021).
- 3- Member of the breast cancer council in Hamadan University of Medical Sciences, Hamadan, Iran (from 2019 so far).
- 4- Member of the diabetic disease council in Hamadan University of Medical Sciences, Hamadan, Iran (from 2019, 2021).
- 5- Member of the systems biology teaching group in Hamadan University of Medical Sciences, Hamadan, Iran (from 2019, 2021).
- 6- Member of the COVID-19 Committee in the Ministry of Health and Medical Education, Tehran, Iran (from 2021 so far).
- 7- Director of the bioinformatics school at the Research Center for Molecular Medicine, Hamadan University of Medical Sciences, Hamadan, Iran (from 2021 so far).

Referee/ Reviewer Consultancy

Renal Failure

Cell Journal

Archives of Academic Emergency Medicine

Gastroenterology and Hematology from Bed to Bench

Avicenna Journal of Clinical Microbiology and Infection

Avicenna Journal of Medical Biochemistry

Congress:

- 1- F Kamarehei, M Saidijam, and **A Taherkhani**. Z Bayat, F Ahmadi-Motamayel, M Salimi Parsa, **A Taherkhani***. Potential Biomarkers and Signaling Pathways Involved in the Helicobacter Pylori-Induced Gastric Cancer. International Conference on Human Genetics and Genomics, Yazd, Iran; 2021 [Poster].
- 2- Z Bayat, F Ahmadi-Motamayel, M Salimi Parsa, **A Taherkhani***. Potential Biomarkers and Signaling Pathways Associated with the Pathogenesis of Primary Salivary Gland Carcinoma: A Bioinformatics Study. International Conference on Human Genetics and Genomics, Yazd, Iran; 2021 [Poster].
- 3- A Arefi Oskouie, M Saeed Ahmadi, **A Taherkhani***. Identification of Prognostic Biomarkers in Papillary Thyroid Cancer and Developing Non-Invasive Diagnostic Models Through Integrated Bioinformatics Analysis. International Conference on Human Genetics and Genomics, Yazd, Iran; 2021 [Poster].

Papers:

Full Papers (See all articles at the following address,
<https://scholar.google.com/citations?hl=en&user=JGJT1XoAAAAJ>)

Title	Journal	Publication Year	First author	Corresponding author
Evaluation of the physical characteristic of Cerrobend blocks used for radiation therapy	International Journal of Radiation Research	2010	*	
Fumonisin B1 Contamination of Cereals and Risk of Esophageal Cancer in a High Risk Area in Northeastern Iran	Asian Pacific journal of cancer prevention	2012		
Isolation and Molecular Typing of Wolbachia Pipientis from two Species of Phlebotomus caucasicus and Phlebotomus mongolensis Sandflies	Journal of Guilan University of Medical Sciences	2012		
Radiation dose distribution under the area protected using a Cerrobend block during external beam radiotherapy: a film study	Journal of Radiotherapy in Practice	2014		
Network analysis of membranous glomerulonephritis based on metabolomics data	Molecular Medicine Reports	2018	*	
Prediction of Molecular Signature, Potential Biomarkers, and Molecular Pathways Associated with Membranous Nephropathy Based on Protein-Protein Interactions	Clinical and Translational Investigation	2018	*	
Chronic kidney disease: a review of proteomic and metabolomic approaches to membranous glomerulonephritis, focal segmental glomerulosclerosis, and IgA nephropathy biomarkers	BMC Proteome Science	2019	*	
Metabolomic analysis of membranous glomerulonephritis: identification of a diagnostic panel and pathogenic pathways	Archives of Medical Research	2019	*	
Molecular docking study of flavonoid compounds for possible matrix metalloproteinase-13 inhibition	Journal of Basic and Clinical Physiology and Pharmacology	2020	*	
Identifying Potential Biomarkers in Colorectal Cancer and Developing Non-invasive Diagnostic Models Using Bioinformatics Approaches	Avicenna Journal of Medical Biochemistry	2020		*
Investigation on Chemical Constituents of Foeniculum vulgare Essential Oil and the Molecular Docking Studies of its Components for Possible Matrix Metalloproteinase-13 Inhibition	Avicenna Journal of Pharmaceutical Research	2020	*	

Bioinformatics prediction of potential inhibitors for the SARS-CoV-2 NTPase/Helicase using molecular docking and dynamics simulation from organic phenolic compounds	Journal of Cellular & Molecular Anesthesia	2021		*
Molecular Docking Analysis of Flavonoid Compounds with Matrix Metalloproteinase-8 for the Identification of Potential Effective Inhibitors	Letters in Drug Design & Discovery	2021	*	
Identification of potential anti-tooth caries compounds from organic cinnamic acid derivatives by inhibiting matrix metalloproteinase-8: an in silico study	Avicenna Journal of Dental Research	2021	*	
Identification of Key Gene Targets for Sensitizing Colorectal Cancer to Chemoradiation: an Integrative Network Analysis on Multiple Transcriptomics Data	Journal of Gastrointestinal Cancer	2021		
In silico Study of Some Natural Anthraquinones on Matrix Metalloproteinase Inhibition	Research Journal of Pharmacognosy	2021	*	
Molecular Docking and Dynamics Simulation of Natural Phenolic Compounds with GSK-3 β : A Putative Target to Combat Mortality in Patients with COVID-19	Recent Advances in Inflammation & Allergy Drug Discovery	2021		*
Identification of potential biomarkers associated with poor prognosis in oral squamous cell carcinoma through integrated bioinformatics analysis: A pilot study	Gene Reports	2021		*
COVID-19: docking-based virtual screening and molecular dynamics study to identify potential SARS-CoV-2 spike protein inhibitors from plant-based phenolic compounds.	Acta Virologica	2021		*
Identification of Potential Glucosyltransferase Inhibitors from Cinnamic acid Derivatives Using Molecular Docking analysis: A Bioinformatics Study	Avicenna Journal of Clinical Microbiology and Infection	2021	*	
Screening of Altered Metabolites and Metabolic Pathways in Celiac Disease Using NMR Spectroscopy	BioMed Research International	2021		
Potential Biomarkers and Signaling Pathways Associated with the Pathogenesis of Primaty Salivary Gland Carcinima: A Bioinformatics Study	Genomics & Informatics	2021		*
Potential Biomarkers and Signaling Pathways Involved in Helicobacter Pylori-Induced Gastric Cancer: A Network-Biology Approach	International Journal of Genomics	2021		*