



Reza Khodarahmi

Full Prof.

PhD of Biochemistry

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Kermanshah, IRAN

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Personal Records

Name: Reza Khodarahmi

Date of Birth: August 4, 1974

Nationality: Iranian

Gender: Male

Place of Birth: Nahavand, Iran

Marital Status: Married, 2 Children

Appointment: PhD in Biochemistry

Address: Faculty of Pharmacy, Kermanshah

University of Medical Sciences,
Kermanshah, Iran

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rkhodarahmi@mbrc.ac.ir

Languages:

I know Farsi (native) and English (semi-fluently).

Present Position: Associate Prof. of
Biochemistry

Educational Record

B.Sc:

From: University of Razi, Kermanshah, Iran (1997)

Major: Biology

M.Sc:

From: Faculty of Sciences, University of Tarbiat-Modarres, Tehran, Iran (2000)

Major: Pure Biochemistry

Thesis: Development of a new affinity gel for purification of glycoproteins.

Ph.D:

From: Institute of Biochemistry and Biophysics, University of Tehran, Tehran, Iran (2001-2006)

Major: Applied Biotechnology

Thesis: The effects of new chemical chaperones on the extent of aggregation of recombinant proteins during refolding processes.

Courses Taught

A. Undergraduate

1. General Biochemistry
2. Metabolism

2001-2008 Biochemistry (Metabolism) for B.S. students at Azad and Razi University

2005-2008 Biochemistry (Metabolism) at Faculty of Pharmacy and Veterinary

Medicine

B. Graduate (M. Sc., Ph.D)

1. Enzymology and Enzyme Kinetics
2. Translation and control of gene expression
3. Bioinformatics
4. Metabolic Disorders
5. Vitamins

Activity in Scientific Journals

Chairman: Journal of Reports in Pharmaceutical Sciences

Academic Editor: PLOS ONE

Editorial Membership: Several Journals by Bentham publications

Reviewer: PLOS ONE, International journal of Biological Macromolecules, Archives of Biochemistry and Biophysics, Medicinal Chemistry Research, Cytotechnology, Pharmaceutical Biology, Journal of Iranian Chemical Society, Spectrochimica Acta A Molecular and Biomolecular Spectroscopy, Cell biochemistry and Biophysics, Biotechnology Progress, ERMS, JKUMS, . .

Researches and Interests

- 1999-2000 Study on hemoglobin as a ligand for affinity chromatography under supervision of Dr. Hamid Rahi, Kermanshah University of medical Sciences, Kermanshah, Iran
- 2000-2001 National Project of "Expression and Purification of recombinant human interferon $\alpha 2b$ " in Pasteur Institute, under supervision of Dr. Mehr-aeen, Tehran, Iran.
- 2003-2005 Study on refolding strategies (Downstream of Biotechnology) under supervision of Dr. Yazdanparast, University of Tehran, Tehran, Iran
- 1- Protein aggregation, Amyloidosis and its inhibition
- 2- Protein-Ligand (Drug) interaction
- 3- Enzyme Kinetics and Inhibition

Honors and Awards

1. Top B.Sc student of Biology Department, Razi University, 1997.
2. Top M.Sc student of Biochemistry Department, Faculty of Sciences, Tarbiat Modarres University, 2000.
3. Distinguished as young scientist in 8th Iranian congress of Biochemistry and First international congress of Biochemistry and molecular Biology, September 11-15, 2005.
4. Distinguished researcher in University of Tehran, 2006.
5. Distinguished teacher in Kermanshah University of Medical Sciences.

6. Distinguished researcher in Kermanshah University of Medical Sciences (2009-2014).

Membership of Scientific Societies

- Member of Iranian Society of Biophysical Chemistry (ISOBC).
- Member of Iranian Society of Biochemistry.
- Member of Iranian Peptide Society.
- Member of Iranian Biology Society.

Publications

(Books in Persian)

1- Biochemistry and Biophysics of Metabolism, Noor-e-Danesh Publication, Tehran, Iran, 2003 (Second edition, 2008) Reza Khodarahmi and Nooshin Bahrami Ghane (www.noordanesh-pub.com)

2- From wheat grains to bread loaves, “Biochemistry of wheat” Chapter, First international congress of wheat, Tehran, Iran, 2002, Boards of Authors

(Published Full Journal Papers) – **H-index: 33 (2025)**

<https://scholar.google.com/citations?user=RckTe2wAAAAJ&hl=en&oi=ao>

https://www.researchgate.net/profile/Reza_Khodarahmi/reputation

[Design and evaluation of curcumin-derived aldopentose compounds: Unlocking their antidiabetic potential through integrative in vitro, in vivo, and in silico studies on ...](#) 2025

P Routabi, M Mehrabi, H Adibi, M Mehrabi, R Khodarahmi

The Journal of Nutritional Biochemistry 141, 109897

[Enhancing cryo-enzymatic efficiency in cold-adapted lipase from Psychrobacter sp. C18 via site-directed mutagenesis](#) 2025

F Balaei, K Pouraghajan, S Mohammadi, S Ghobadi, R Khodarahmi

Archives of Biochemistry and Biophysics 768, 110388

[Advances, strategies, and application of immobilized lipase for aroma compound synthesis: Focus on benzyl acetate, isoamyl acetate, and ethyl valerate](#) 2025

F Balaei, R Khodarahmi, S Mohammadi, S Ghobadi

- International Journal of Biological Macromolecules, 144281
- [Bilayer electrospun nanofibrous membrane: a matrix for lipase immobilization with high stability and reusability and its application on the synthesis of benzyl acetate](#) 2025
- F Balaei, S Ghobadi, R Khodarahmi, S Mohammadi
- International journal of biological macromolecules, 143893
- [Effect of Aflatoxin B1 on the Nervous System: A Systematic Review and Network Analysis Highlighting Alzheimer's Disease](#) 2025
- S Ranjbar, P Mohammadi, S Pashaei, M Sadeghi, M Mehrabi, S Shabani, ...
- Biology 14 (4), 436
- [The mutual impacts of stem cells and sleep: opportunities for improved stem cell therapy](#) 2025
- S Moradi, M Nouri, MT Moradi, R Khodarahmi, M Zarrabi, H Khazaie
- Stem Cell Research & Therapy 16 (1), 157
- [The Prominent Role of Serines 302/307 in the Activity and Stability of Human Caspase9: Appraisal of the S302D and S307D Variants](#) 2025
- M Mahmoudian, S Mohammadi, R Shakeri, K Pouraghajan, ...
- Biochemical Genetics, 1-30
- [Discovery of Sulfanilamide-diazo Derivatives Incorporating Benzoic Acid Moieties as Novel Inhibitors of Human Carbonic Anhydrase II Activity](#) 2025
- F Belani, M Mehrabi, H Adibi, M Mehrabi, R Khodarahmi
- Current Protein & Peptide Science 26 (3), 226-240
- [Differential Expression of Neurodegeneration-Related Genes in SH-SY5Y Neuroblastoma Cells Under the Influence of Cyclophilin A: Could the Enzyme be a Likely Trigger and ...](#) 2025
- S Pashaei, S Shabani, S Mohammadi, LA Morozova-Roche, N Salari, ...
- Neurochemical Research 50 (1), 1-28
- [Comparative Investigation of Antioxidant Effects in Different Binary Systems: Does Quercetin Stabilize Ascorbic Acid/Resveratrol in Their Binary Mixtures?](#) 2025
- Z Aghelan, N Bakhtiari, F Karami, A Ebrahimi, R Khodarahmi
- Journal of Reports in Pharmaceutical Sciences 13 (13)

- [LI-FRAUMENI SYNDROME IN A PATIENT WITH FAMILIALHYPERLIPIDEMIA FROM WESTERN IRAN, A CASE REPORT](#) 2024
M Sadeghi, M Payandeh, R Khodarahmi, E Sadeghi
Advances in Cancer Research & Therapy (ACRT)(ISSN 2394-9511) 12 (1)
- [The induction of tau aggregation is restricted by sulfamethoxazole and provides new information regarding the use of the drug](#) 2024
V Akbari, S Bahramikia, AR Jalalvand, M Mehrabi, M Ezati, R Khodarahmi
Journal of Biomolecular Structure and Dynamics 42 (23), 12761-12775
- [Purification of \$\alpha\$ -lactalbumin and \$\beta\$ -lactoglobulin from cow milk](#) 2024
K Ahadi-Amandi, SA Ghadami, N Sayari, R Khodarahmi
Protein Expression and Purification 223, 106555
- [Flavonoid compounds and their synergistic effects: Promising approaches for the prevention and treatment of psoriasis with emphasis on keratinocytes–A systematic and ...](#) 2024
A Ebrahimi, M Mehrabi, SS Miraghaee, P Mohammadi, FF Kafash, ...
International Immunopharmacology 138, 112561
- [Increased peripheral NLRP1 gene expression is associated with increased lateral ventricles mean diffusivity in chronic insomnia disorder](#) 2024
Z Aghelan, MR Poya, SH Abtahi, H Khazaie, R Khodarahmi
JOURNAL OF SLEEP RESEARCH 33
- [Natural resistance to cancer: A window of hope \(vol 154, pg 1131, 2024\)](#) 2024
M Masoudi, P Torabi, RL Judson-Torres, R Khodarahmi, S Moradi
INTERNATIONAL JOURNAL OF CANCER 155 (5), E4-E4
- [Therapeutic potential of the ketogenic diet: A metabolic switch with implications for neurological disorders, the gut-brain axis, and cardiovascular diseases](#) 2024
S Shahpasand, SH Khatami, S Ehtiati, P Alehossein, F Salmani, ...
The Journal of Nutritional Biochemistry, 109693
- [Comparison of phloretin and trilobatin effect for inhibition of butyrylcholinesterase activity: In vitro study and molecular docking simulation](#) 2024
M Zakariazadeh, R Haji Hosseini, R Khodarahmi, S Soltani

Experimental animal Biology 12 (4), 1-15

[“Cyclophilin A” Enzymatic Effect on the Aggregation Behavior of 1N4R Tau Protein: An Overlooked Crucial Determinant that should be Re-considered in Alzheimer's Disease Pathogenesis](#)

2024

S Ranjbar, M Mehrabi, V Akbari, S Pashaei, R Khodarahmi

Current Alzheimer Research 21 (4), 242-257

[Natural resistance to cancer: A window of hope](#)

2024

M Masoudi, P Torabi, RL Judson-Torres, R Khodarahmi, S Moradi

International Journal of Cancer 154 (7), 1131-1142

[Synthesis of 4-sulfamoyl phenyl diazocarboxylic acid derivatives as novel non-classical inhibitors of human carbonic anhydrase II activity: an *in vitro* study](#)

2024

N Fatahian Bavandpour, M Mehrabi, H Adibi, M Mehrabi, R Khodarahmi

Journal of Biomolecular Structure and Dynamics, 1-15

[Inhibitory effects of quercetin and resveratrol and their sulfonamide derivatives on the carbonic anhydrase activity: spectroscopic studies of the binding process](#)

2024

S Khateri, M Mehrabi, R Khodarahmi

Chemical Papers 78 (1), 151-163

[Synthesis, *in silico*, *in vitro* and *in vivo* studies of novel natural-based arylidenes curcumin as potential glycohydrolase digestive enzymes inhibitors](#)

2023

M Ezati, F Ghavamipour, MM Hassan Yazdi, K Sadrjavadi, R H. Sajedi, ...

Journal of Biomolecular Structure and Dynamics 41 (22), 12686-12702

[The imbalance of circulating pro-inflammatory cytokines interleukin-12 and interferon gamma and anti-inflammatory cytokine interleukin-1ra in chronic insomnia disorder](#)

2023

Z Aghelan, S Karima, SH Abtahi, H Khazaie, Y Salimi, R Khodarahmi

Sleep Medicine 112, 194-196

[Synthesis of 4-hydroxy-L-proline derivatives as new non-classical inhibitors of human carbonic anhydrase II activity: an *in vitro* study](#)

2023

L Moghoufei, M Mehrabi, H Adibi, R Khodarahmi

Journal of Biomolecular Structure and Dynamics 41 (16), 7975-7985

- [Natural immunosuppressants as a treatment for chronic insomnia targeting the inflammatory response induced by NLRP3/caspase-1/IL-1 \$\beta\$ axis activation: a scooping review](#) 2023
Z Aghelan, S Pashaei, SH Abtahi, S Karima, H Khazaie, M Ezati, ...
Journal of Neuroimmune Pharmacology 18 (3), 294-309
- [Effective Reduction of Tau Amyloid Aggregates in the Presence of Cyclophilin from *Platanus orientalis* Pollens; An Alternative Mechanism of Action of the Allergen](#) 2023
M Mehrabi, N Bijari, V Akbari, S Ranjbar, S Karima, M Sankian, S Ojaghi, ...
Current Protein and Peptide Science 24 (6), 518-532
- [Mesalazine inhibits amyloid formation and destabilizes pre-formed amyloid fibrils in the human insulin](#) 2023
F Bardineshin, S Bahramikia, R Khodarahmi, F Hadi
Journal of fluorescence 33 (4), 1317-1324
- [Role of serine 310 in the activity and temperature profile of human caspase-9.](#) 2023
R Shakeri, M Mahmoudian, R Khodarahmi, S Mohammadi
- [Synthesis of benzylidene-indandione derivatives as quantification of amyloid fibrils](#) 2023
SA Ghadami, K Ahadi-Amandi, R Khodarahmi, S Ghanbari, H Adibi
Biophysical chemistry 296, 106982
- [Neuroprotective effect of Bis \(Indolyl\) phenylmethane in Alzheimer's disease rat model through inhibition of hen Lysozyme amyloid fibril-induced neurotoxicity](#) 2023
H Fazelinejad, E Zahedi, S Nazarian, Z Kaffash Siuki, S Nasri, ...
Journal of the Iranian Chemical Society 20 (3), 551-562
- [Design, synthesis, spectroscopic characterizations, antidiabetic, in silico and kinetic evaluation of novel curcumin-fused aldohexoses](#) 2023
M Ezati, F Ghavamipour, H Adibi, K Pouraghajan, SS Arab, RH Sajedi, ...
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 285, 121806
- [Synthesis, in silico, inÂ vitro and inÂ vivo studies of novel natural-based arylidenes curcumin as potential glycohydrolase digestive enzymes inhibitors.](#) 2023
M Ezati, F Ghavamipour, K Hassan Yazdi, H Sajedi, H Adibi, ...
Journal of biomolecular structure & dynamics, 1-17

- [Synthesis and potential antidiabetic properties of curcumin-based derivatives: an in vitro and in silico study of \$\alpha\$ -glucosidase and \$\alpha\$ -amylase inhibition](#) 2023
M Ezati, F Ghavamipour, N Khosravi, RH Sajedi, M Chalabi, A Farokhi, ...
Medicinal Chemistry 19 (1), 99-117
- [Interleukin-1 \$\alpha\$ and tumor necrosis factor \$\alpha\$ as an inducer for reactive-oxygen-species-mediated NOD-like receptor protein 1/NOD-like receptor protein 3 inflammasome activation in ...](#) 2022
Z Aghelan, S Karima, H Khazaie, SH Abtahi, AR Farokhi, M Rostampour, ...
European journal of neurology 29 (12), 3647-3657
- [Investigation of the role of prolines 232/233 in RTPPK motif in tau protein aggregation: An in vitro study](#) 2022
V Akbari, S Mohammadi, M Mehrabi, S Ghobadi, A Farrokhi, ...
International journal of biological macromolecules 219, 1100-1111
- [May phytophenolics alleviate aflatoxins-induced health challenges? A holistic insight on current landscape and future prospects](#) 2022
H Rasouli, FD Nayeri, R Khodarahmi
Frontiers in nutrition 9, 981984
- [A turn off fluorescence probe based on carbon dots for highly sensitive detection of BRCA1 gene in real samples and cellular imaging](#) 2022
M Pirsaeheb, S Mohammadi, R Khodarahmi, Z Hoseinkhani, K Mansouri, ...
Journal of fluorescence 32 (5), 1733-1741
- [Is curcumin an active suicidal antioxidant only in the aqueous environments?](#) 2022
M Mehrabi, F Karami, M Siah, S Esmaeili, R Khodarahmi
Journal of the Iranian Chemical Society 19 (8), 3441-3450
- [New insights into the biosensing of Parkinson's disease biomarkers: a concise review](#) 2022
ES Hosseini, S Mohammadi, R Khodarahmi, MH Fouani, O Tavallaei, ...
Current Medicinal Chemistry 29 (22), 3945-3972
- [Green technology for production of potent antioxidants and alkyl glucosides by *Aspergillus niger* \$\beta\$ -glucosidase: prospects for broad application in the food industry](#) 2022
F Karami, M Ghorbani, A Sadeghi Mahoonak, D Shackebaei, ...

- Journal of Food Measurement and Characterization 16 (3), 1834-1846
- [LRH-1 \(liver receptor homolog-1\) derived affinity peptide ligand to inhibit interactions between \$\beta\$ -catenin and LRH-1 in pancreatic cancer cells: from computational design to ...](#) 2022
- K Pouraghajan, H Mahdiuni, S Ghobadi, R Khodarahmi
- Journal of Biomolecular Structure and Dynamics 40 (7), 3082-3097
- [Immobilization of IMP-1 metallo-beta-lactamase on \$\text{Fe}_3\text{O}_4@\text{SiO}_2\$ as nanobiocatalyst for degradation of beta-lactam antibiotics in wastewater](#) 2022
- M Shokoohizadeh, A Almasi, F Karami, SA Mousavi, R Khodarahmi
- Water Science and Technology 85 (7), 2189-2207
- [Demographics, clinical characteristics, and outcomes of 27,256 hospitalized COVID-19 patients in Kermanshah Province, Iran: a retrospective one-year cohort study](#) 2022
- E Hesni, B Sayad, F Khosravi Shadmani, F Najafi, R Khodarahmi, ...
- BMC infectious diseases 22 (1), 319
- [Immobilization of IMP-1 metallo-beta-lactamase: The promising approach for the removal of beta-lactam antibiotics](#) 2022
- MJ Shokoohizadeh, F Karami, SA Mousavi, R Khodarahmi, A Almasi
- Desalination and Water Treatment 253, 248-255
- [Phenylalanine gold nanoclusters as sensing platform for \$\pi\$ - \$\pi\$ interfering molecules: a case study of iodide](#) 2022
- A Amiri-Sadeghan, A Dinari, S Mohammadi, T Zohrabi, R Khodarahmi, ...
- Scientific reports 12 (1), 2235
- [IgLON5 autoimmunity tested positive in patients with isolated chronic insomnia disease](#) 2022
- Z Aghelan, S Karima, MR Ghadami, H Khazaie, F Bahrehmand, ...
- Clinical and experimental immunology 207 (2), 237-240
- [Effect of jujube and lemon balm extracts on lead toxicity in testes of balb-c mice.](#) 2022
- M Alimoradi, R Khodarahmi, Z Alimoradi, K Mansouri
- [A Cu \(I\) complex groove binder with a high affinity towards DNA denaturation](#) 2022
- N Shahabadi, F Shiri, R Khodarahmi

Journal of Molecular Liquids 345, 117904

[Povećanje antioksidacijske aktivnosti ekstrakata dobivenih iz otpada od hrane pomoću \$\beta\$ -glukozidaze](#) 2022

F Karami, M Ghorbani, A Sadeghi Mahoonak, A Pourhossein, A Bagheri, ...

Food Technology and Biotechnology 60 (4), 458-468

[Study on the effects of various incubation conditions on aggregation of SOD1 variants: disulfide bond reduction and demetallation synergistically promote generation of non ...](#) 2022

S Famil Samavati, M Nikkhah, A Eidi, R Khodarahmi

Journal of the Iranian Chemical Society, 1-17

[Mechanism of interaction between curcumin and porcine pancreatic \$\alpha\$ -amylase revealed by fluorescence quenching and molecular docking](#) 2022

M Ezati, H Adibi, R Nemati, V Akbari, R Khodarahmi, RH Sajedi

February

[Increased peripheral NLRP3 gene expression is associated with the reduced duration of rapid eye movements sleep and sleep continuity in chronic insomnia patients](#) 2022

Z Aghelan, SH Abtahi, H Khazaie, F Bahrehmand, R Khodarahmi

Scandinavia Journal of Sleep Medicine 1 (2)

[Increasing Antioxidant Activity in Food Waste Extracts by \$\beta\$ -Glucosidase](#) 2022

F Karami, M Ghorbani, A Sadeghi Mahoonak, A Pourhossein, A Bagheri, ...

Food Technology and Biotechnology 60 (4), 458-468

[Synthesis and spectroscopic characterization of new sulfanilamide-functionalized magnetic nanoparticles, and the usability for carbonic anhydrase purification: is there ...](#) 2021

N Bijari, M Falsafi, K Pouraghajan, R Khodarahmi

Journal of Biomolecular Structure and Dynamics 39 (18), 7093-7106

[Immunomodulatory; anti-inflammatory/antioxidant effects of polyphenols: A comparative review on the parental compounds and their metabolites](#) 2021

M Sobhani, MH Farzaei, S Kiani, R Khodarahmi

Food Reviews International 37 (8), 759-811

- [Resolving interactions of miglitol with normal and glycated human serum albumin by multivariate methods](#) 2021
P Bazdar, AR Jalalvand, V Akbari, R Khodarahmi, HC Goicoechea
Analytical biochemistry 630, 114339
- [Possible potentials of curcumin for pregnancies complicated by intra-uterine growth restriction: role of inflammation, angiogenesis, and oxidative stress](#) 2021
M Naemi, Z Farahani, AH Norooznezhad, R Khodarahmi, ...
Heliyon 7 (9)
- [Curcumin-based antioxidant and glycohydrolase inhibitor compounds: Synthesis and in vitro appraisal of the dual activity against diabetes](#) 2021
S Esmaeili, N Ghobadi, D Nazari, A Pourhossein, H Rasouli, H Adibi, ...
Medicinal Chemistry 17 (7), 677-698
- [Efficacy and safety of sofosbuvir/velpatasvir versus the standard of care in adults hospitalized with COVID-19: a single-centre, randomized controlled trial](#) 2021
B Sayad, R Khodarahmi, F Najafi, R Miladi, Z Mohseni Afshar, F Mansouri, ...
Journal of Antimicrobial Chemotherapy 76 (8), 2158-2167
- [Electrochemical-spectroscopic-chemometric investigation of binding and inhibition of myeloperoxidase by bivalirudin: application to determination of myeloperoxidase as a ...](#) 2021
C Jalili, V Akbari, R Khodarahmi, HC Goicoechea, AR Jalalvand
Microchemical Journal 166, 106212
- [Clinical Effectiveness and Safety of Sofosbuvir–Velpatasvir as Add-on Treatment for COVID-19 Patients: Study Protocol and Preliminary Data for the Randomized Controlled Trial](#) 2021
B Sayad, M Mehrabi, R Khodarahmi, F Najafi, R Miladi, ZM Afshar, ...
Journal of Reports in Pharmaceutical Sciences 10 (2), 294-316
- [Chemometric modeling of the electrochemical data to investigate proline cis/trans isomerization effect on aggregation of Tau protein](#) 2021
R Khodarahmi, V Akbari, S Mohammadi, T Farshadnia, MM Rahimabadi, ...
Protein expression and purification 182, 105858

- [Antioxidant and glycohydrolase inhibitory behavior of curcumin-based compounds: Synthesis and evaluation of anti-diabetic properties in vitro](#) 2021
M Mehrabi, S Esmaili, M Ezati, M Abassi, H Rasouli, D Nazari, H Adibi, ...
Bioorganic chemistry 110, 104720
- [The ACE2 as a “rescue protein” or “suspect enzyme” in COVID-19: possible application of the “engineered inactive hrsACE2” as a safer therapeutic agent in the treatment of SARS ...](#) 2021
R Khodarahmi, B Sayad, M Sobhani
Journal of the Iranian Chemical Society 18, 495-502
- [Two-and three-way chemometric analyses for investigation of interactions of acarbose with normal and glycated human serum albumin: Developing a novel biosensing system](#) 2021
M Nazari, S Kashanian, K Omidfar, S Ghobadi, HC Goicoechea, HW Gu, ...
Microchemical Journal 160, 105675
- [Anti-diabetic properties of novel curcumin-polyhydroxy derivatives: Synthesis, molecular docking, and their inhibitory effects on \$\alpha\$ -glucosidase activity](#) 2021
M Ezati, H Adibi, R Nemati, R Khodarahmi, RH Sajedi
12th National and 4th International Biotechnology Congress of the Islamic ...
- [Resolving interactions of miglitol with normal and glycated human serum albumin by multivariate methods](#) 2021
CI Esparsa, AR Jalalvand, V Akbari, R Khodarahmi, HC Goicoechea
Academic Press Inc Elsevier Science
- [Sunset yellow degradation product, as an efficient water-soluble inducer, accelerates 1N4R Tau amyloid oligomerization: In vitro preliminary evidence against the food colorant ...](#) 2020
S Ojaghi, S Mohammadi, M Amani, S Ghobadi, N Bijari, S Esmaili, ...
Bioorganic chemistry 103, 104123
- [Factors influencing mitochondrial function as a key mediator of glucose-induced insulin release: highlighting nicotinamide nucleotide transhydrogenase](#) 2020
Z Aghelan, S Kiani, A Nasiri, M Sadeghi, A Farrokhi, R Khodarahmi
International Journal of Molecular and Cellular Medicine 9 (2), 107

- [Reduced thermodynamic stability as prerequisite for aggregation of SOD1 mutants: a path through the reduction in intramolecular disulfide bonds](#) 2020
S Famil Samavati, M Nikkhah, A Eidi, R Khodarahmi
Journal of the Iranian Chemical Society 17, 2053-2071
- [Sofosbuvir as repurposed antiviral drug against COVID-19: why were we convinced to evaluate the drug in a registered/approved clinical trial?](#) 2020
B Sayad, M Sobhani, R Khodarahmi
Archives of medical research 51 (6), 577-581
- [Physiological changes in the albumin-bound non-esterified free fatty acids critically influence heme/bilirubin binding properties of the protein: A comparative, in vitro ...](#) 2020
M Amoorahim, MR Ashrafi-Kooshk, S Esmaeili, M Shahlaei, S Moradi, ...
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 235, 118298
- [Study of glycation process of human carbonic anhydrase II as well as investigation concerning inhibitory influence of 3-beta-hydroxybutyrate on it](#) 2020
R Gharib, A Khatibi, R Khodarahmi, M Haidari, S Husseinazadeh
International journal of biological macromolecules 149, 443-449
- [Is the “respiratory stimulant, Acetazolamide” add-on therapy suitable to relieve mild respiratory insufficiency in stable COVID-19 out/inpatients?](#) 2020
R Khodarahmi, M Sobhani
OSF
- [Emerging regulatory roles of mitochondrial sirtuins on pyruvate dehydrogenase complex and the related metabolic diseases](#) 2020
A Nasiri, M Sadeghi, A Vaisi-Raygani, S Kiani, Z Aghelan, R Khodarahmi
Biomedical Research and Therapy 7 (2), 3645-3658
- [Synthesis and characterization of 2-benzylidene-1, 3-indandione derivatives as in vitro quantification of amyloid fibrils](#) 2020
H Adibi, M Mehrabi, K Amiri, S Balalaie, R Khodarahmi
Journal of the Iranian Chemical Society 17, 423-432
- [The antidepressant drug; trazodone inhibits Tau amyloidogenesis: prospects for prophylaxis and treatment of AD](#) 2020
V Akbari, S Ghobadi, S Mohammadi, R Khodarahmi

Archives of biochemistry and biophysics 679, 108218

[Pyridine-2, 3-dicarboxylate, quinolinic acid, induces 1N4R Tau amyloid aggregation in vitro: Another evidence for the detrimental effect of the inescapable endogenous neurotoxin](#) 2020

S Esmaili, N Ghobadi, V Akbari, S Moradi, M Shahlaie, S Ghobadi, ...

Chemico-biological interactions 315, 108884

[TSGA10 over expression decreases Metastatic and metabolic activity by inhibiting HIF-1 in breast Cancer cells](#) 2020

M Jahani, M Shahlaei, F Norooznezhad, SS Miraghaee, L Hosseinzadeh, ...

Archives of medical research 51 (1), 41-53

[Fast, inexpensive purification of \$\beta\$ -glucosidase from *Aspergillus niger* and improved catalytic/physicochemical properties upon the enzyme immobilization: Possible broad ...](#) 2020

AS Mahoonak, F Karami, M Ghorbani, R Khodarahmi

[The active-site engineered “inactive hrsACE2” could be considered as a safer therapeutic agent in the treatment of COVID-19: An Opinion](#) 2020

R Khodarahmi, A Jalali, M Sobhani

OSF

[Fast, inexpensive purification of \$\beta\$ -glucosidase from *Aspergillus niger* and improved catalytic/physicochemical properties upon the enzyme immobilization: Possible broad ...](#) 2020

F Karami, M Ghorbani, AS Mahoonak, R Khodarahmi

Lwt 118, 108770

[Molecular cloning, expression, and functional characterization of 70-kDa heat shock protein, DnaK, from *Bacillus halodurans*](#) 2019

F Vahdani, H Ghafouri, S Sarikhan, R Khodarahmi

International journal of biological macromolecules 137, 151-159

[Chemometrical-electrochemical investigation for comparing inhibitory effects of quercetin and its sulfonamide derivative on human carbonic anhydrase II: theoretical and ...](#) 2019

R Khodarahmi, S Khateri, H Adibi, V Nasirian, M Hedayati, E Faramarzi, ...

International Journal of Biological Macromolecules 136, 377-385

- [Dipyridamole inhibits \$\alpha\$ -amylase/ \$\alpha\$ -glucosidase at sub-micromolar concentrations; in-vitro, in-vivo and theoretical studies](#) 2019
S Esmaeili, S Azizian, B Shahmoradi, S Moradi, M Shahlaei, ...
Bioorganic chemistry 88, 102972
- [Detection/quantification of amyloid aggregation in solution using the novel fluorescent benzofuranone-derivative compounds as amyloid fluorescent probes: synthesis and in vitro ...](#) 2019
S Abbasbeigi, H Adibi, S Moradi, SA Ghadami, R Khodarahmi
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