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Faculty : Science

Departments : Biology

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Education

- ✓ B.Sc, Pure Chemistry, Sistan and Baluchestan University - 1997
- ✓ MS, Physical Chemistry, Sistan and Baluchestan University - 2001
- ✓ PhD, Biochemistry, Wollongong University - Australia - 2006

Courses

- | | |
|--|---|
| 1. Biochemistry of Lipids sugar. | 2. Biochemistry of proteins and nucleic acids |
| 3. Biochemical methods (theoretical and practical) | 4. Biochemical Physics |
| 5. Biochemistry | 6. Enzymology |

Journals Papers

2019

1. In-vitro and in-silico investigation of protective mechanisms of crocin against E46K alpha-synuclein amyloid formation

, Arezou Ghahghaei, Milad Lagzian

MOLECULAR BIOLOGY REPORTS Volume: (46) 4279 - 4292

2. Synthesis of new ultrasonic-assisted palladium oxide nanoparticles: an in vitro evaluation on cytotoxicity and DNA/BSA binding properties

Ziba Sorinezami, Hassan Mansouri Torshizi, Mohammad Aminzadeh, Arezou Ghahghaei, Nasimeh Jamgohari,

JOURNAL OF BIOMOLECULAR STRUCTURE and DYNAMICS Volume: (37) 4238 - 4250

2018

3. Investigation on the interaction of newly designed potential antibacterial Zn(II) complexes with CT-DNA and HSA

Hassan Mansouri Torshizi, , Arezou Ghahghaei, , Sare Zareian jahromi

JOURNAL OF BIOMOLECULAR STRUCTURE and DYNAMICS Volume: (36) 2713 - 2737

4. Hsp90 Structure and Function in Cancer

Nassim Faridi, Arezou Ghahghaei

Gene, Cell and Tissue Volume: (5) 1 - 9

5. The potential inhibitory effect of beta-casein on the aggregation and deposition of A beta1-42 fibrils in Alzheimer's disease: insight from in-vitro and in-silico studies

, Arezou Ghahghaei, Milad Lagzian

JOURNAL OF BIOMOLECULAR STRUCTURE and DYNAMICS Volume: (36) 2118 - 2130

6. The Potential Inhibitory Effect of -Casein on the Aggregation and Deposition of A1-42 Fibrils in Alzheimer's Disease: Insight from In-Vitro and In- Silico Studies

, Arezou Ghahghaei, Milad Lagzian

JOURNAL OF BIOMOLECULAR STRUCTURE and DYNAMICS Volume: (36) 2118 - 2130

7. The effect of green synthesis silver nanoparticles (AgNPs) from *Pulicaria undulata* on the amyloid formation in -lactalbumin and the chaperon action of -casein

, Arezou Ghahghaei

INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES Volume: (108) 1128 - 1139

8. Palladium(II) Complexes of Biorelevant Ligands. Synthesis Structures Cytotoxicity and Rich DNA/ HSA Interaction Studies

Hassan Mansouri Torshizi, Sare Zareian jahromi, Arezou Ghahghaei, , ,

JOURNAL OF BIOMOLECULAR STRUCTURE and DYNAMICS Volume: (36) 2787 - 2806

2017

9. Investigation the protective ability of *H. sabdariffa* aqueous extract on the aggregation of -lactalbumin

, Arezou Ghahghaei

Volume: (30) 445 - 453

2016

10. Inhibitory Effect of α -Casein on the Amyloid Fibril Formation of A β 1-40 Associated with Alzheimer's Disease

Arezou Ghahghaei, Sima Shahraki

International Journal of Peptide Research and Therapeutics Volume: (22) 23 - 29

11. Inhibitory Effect of Crocin(s) on Lens -Crystallin Glycation and Aggregation, Results in the Decrease of the Risk of Diabetic Cataract

, Z. Bataei, , Arezou Ghahghaei

MOLECULES Volume: (21) 1 - 12

2015

12. Inhibitory Effect of α -Casein on the amyloid fibril formation of A β 1-40 associated with Alzheimer disease

Arezou Ghahghaei

International Journal of Peptide Research and Therapeutics Volume: () 237 - 382

13. Platinum(II) and Palladium(II) complexes with 1,10-phenanthroline and pyrrolidine dithiocarbamate ligands: synthesis, DNA-binding and anti-tumor activity in leukemia K562 cell lines

, , , Arezou Ghahghaei,

Iranian Journal of Science and Technology Transaction A-Science Volume: (39) 187 - 197

14. Investigating the chaperone activity of β -casein in preventing amyloid formation in the presence of dextran

Arezou Ghahghaei, Majid Mohammadi

JOURNAL OF PHARMACEUTICAL INVESTIGATION Volume: (45) 407 - 413

2014

15. The Effect of Arg on the Structure Perturbation and Chaperone Activity of β -Crystallin in the Presence of the Crowding Agent Dextran

Arezou Ghahghaei

applied biochemistry and biotechnology Volume: (174) 739 - 750

16. Evaluation of chaperone ability of *S. rosmarinus* against protein aggregation

Arezou Ghahghaei

Journal of Pharmaceutical Investigation Volume: (44) 423 - 430

17. The effect of the intracerebroventricular injection of Ghrelin agonist on diabetes type 2 disease in male wistar rats

Arezou Ghahghaei

International Journal of Diabetes in Developing Countries Volume: (34) 130 - 133

18. Platinum(II)/palladium(II) complexes with n-propyldithiocarbamate and 2,2'-bipyridine synthesis characterization biological activity and interaction with calf thymus DNA

Arezou Ghahghaei

Complex Metals Volume: (1) 23 - 31

19. Synthesis Cytotoxicity and DNA Binding of Novel Binuclear Antitumor Complexes Formed by Linking Two 2,2'-Bipyridine Palladium (II) Moieties Via Alkylene Bisdithiocarbamates

Hassan Mansouri Torshizi, Arezou Ghahghaei, ,

Asian Journal of Pharmaceutical Technology Innivation Volume: (2) 78 - 86

20. Chaperone Potential of *Pulicaria undulata* Extract in Preventing Aggregation of Stressed Proteins

Arezou Ghahghaei

AAPS PHARMSCITECH Volume: (15) 658 - 664

21. Platinum(II)/palladium(II) complexes with n-propyldithiocarbamate and 2,2'-bipyridine synthesis characterization biological activity and interaction with calf thymus DNA

Hassan Mansouri Torshizi, Arezou Ghahghaei, ,

Complex Metals Volume: (1) 23 - 31

22. The Effect of Arg on the Structure Perturbation and Chaperone Activity of α -Crystallin in the Presence

Arezou Ghahghaei, Somaye Mohamadian

APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY Volume: () 739 - 750

23. The Effect of Arg on the Structure Perturbation and chaperone activity of α -crystallin in the presence of crowding agent, dextran

Arezou Ghahghaei

APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY Volume: () -

24. The protective effect of crocin on the amyloid fibril formation AB42 peptide in vitro

Arezou Ghahghaei,

CELLULAR and MOLECULAR BIOLOGY LETTERS Volume: (18) 328 - 339

25. The effect of Arg and Gly on the chaperone propensity of bovine milk B-casein in preventing protein aggregation

Arezou Ghahghaei

Dairy science and technology Volume: (93) 177 - 190

26. Comparison of the chaperone activity of glycerol and α-casein on amyloid formation of κ-casein in the presence of Gly and Arg

Arezou Ghahghaei

BIOLOGIA Volume: (68) 779 - 787

27. THE PROTECTIVE EFFECT OF CROCIN ON THE AMYLOID FIBRIL FORMATION OF AB1-42 PEPTIDE IN VITRO

Arezou Ghahghaei

CELLULAR and MOLECULAR BIOLOGY LETTERS Volume: () 328 - 339

28. Comparison of the chaperon activity of glycerol and β-casein

Arezou Ghahghaei

BIOLOGIA Volume: () 779 - 787

29. The effect of the intracerebroventricular injection of Ghrelin

Arezou Ghahghaei

International Journal of Diabetes in Developing Countries Volume: () 130 - 133

30. The effect of Arg and Gly on the chaperone propensity of bovine milk protein, β-casein, in preventing protein aggregation of protein

Arezou Ghahghaei

Dairy Science and Technology Volume: (93) 177 - 190

2011

31. Glutamate transporters and excitotoxicity in nervous system

Ali Shahraki, Arezou Ghahghaei,

Volume: (13) 1 - 15

2010

32. The Effect of Molecular Crowding on the Amyloid Fibril Formation of β-Lactalbumin and the Chaperone Action

Arezou Ghahghaei

PROTEIN JOURNAL Volume: () -

33. Structural Study of k-casein During Amyloid Formation at Different Temperature

Arezou Ghahghaei

Australian Journal of Basic and Applied Sciences (MSRT BLACKLIST) Volume: (8) -

2009

34. Review Structure of amyloid fibril in diseases

Arezou Ghahghaei

Journal of Biomedical Science and Engineering Volume: () -

35. Structure/function studies of dogfish a-crystallin comparison with bovine a-crystallin

Arezou Ghahghaei

molecular vision Volume: (15) -

2008

36. The Effect of Molecular Chaperone Alpha-Crystallin on the Heat-Induced Aggregation of Beta-lactoglobulin

Arezou Ghahghaei

American Journal of Biochemistry and Biotechnology (MSRT BLACKLIST) Volume: (4) -

2007

37. The effect of dextran on subunit exchange of the molecular chaperone A-crystallin

Arezou Ghahghaei, Agata Rekas, William E.Price, John A.Carver

biochimica et biophysica acta-bioenergetics Volume: (1774) -

Conferences Papers

2021

1. The effect of γ -synuclein on the Parkinson disease

2nd National Conference on New Biological Findings

Marzeyeh Golestan fard, Malihe Mohammadi, Arezou Ghahghaei

2. A survey on the effect of arginine on the chaperon activity of glycerol in the prevention of amyloid fibrils formation of γ -casein in the presence of dextran

2nd National Conference on New Biological Findings, University of Sistan and Baluchestan, March 2021

, Arezou Ghahghaei, Ali Shahraki

2018

3. Potential Protective Mechanism of Crocin Against Amyloid Fibril Formation of E46K γ -Synuclein in Parkinson Disease

International Conference on Medical & Health Science - ICMHS 2018

Arezou Ghahghaei, Milad Lagzian,

4. Investigating the inhibitory effect of γ -casein on the amyloid fibril formation of A β 1-42 in Alzheimer's disease via In-Vitro and In-Silico studies

The 2nd International Congress and 23rd Iranian Congress of Physiology and Pharmacology

Arezou Ghahghaei

2017

5. "Protective effect of green synthesis gold nanoparticles (AuNPs) from *Pulicaria undulata* on the amyloid formation in γ -lactalbumin

2nd international congress n Biochemistry

Arezou Ghahghaei

2009

6. The effect of crowding agent on the rate of aggregation of denatured γ -lactalbumin

11th International Congress on Amino Acids Peptides and Proteins

Arezou Ghahghaei

2008

7. Comparition of Subunit Exchange of α A-Crystallin and its Chaperone Action in Crowded System.

33rd FEBS Congress 11th IUBMB Conference

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8. Comparison of subunit exchange of A-crystallin and its chaperone action in crowded system

33rd FEBS Congress 11th IUBMB Conference

Arezou Ghahghaei

9. The effect of a Crowding Agent on the Chaperone Action of Alpha-Crystallin

8th Iranian Congress of Biochemistry and First International Congress of Biochemistry Molecular Bi

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10. The Chaperone Action of A-Crystallin

The 9th Iranian Congress of Biochemistry the 2nd International Congress of Biochemistry and Molecu

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11. The effect of Molecular Chaperones on Amyloid Formation in Crowded Systems

The 9th Iranian Congress of Biochemistry the 2nd International Congress of Biochemistry and Molecu

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