



Milad Lagzian

Associate Professor

Faculty : Science

Departments : Biology

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Education

- ✓ B.Sc, Biology, Ferdowsi University of Mashhad - 2007
- ✓ MS, Biology - Biochemistry, Ferdowsi University of Mashhad - 2009
- ✓ PhD, Biology, Ferdowsi University of Mashhad - 2014

Courses

- | | |
|--------------------------------------|--|
| 1. Genetic Engineering | 2. Biochemistry of proteins and nucleic acids |
| 3. Biostatistics | 4. Molecular and Cell Biology Professional English Texts |
| 5. Biostatistics Workshop | 6. Application of Biotechnology in Plants |
| 7. Biotechnology | 8. Bioinformatics |
| 9. Principles of Genetic Engineering | 10. Plant Biotechnology |

Master Thesis

1. Thermostabilization of Acetyl Esterase Enzyme via Computational Biology Methods

[Milad Lagzian, Malihe Mohammadi, Qasemi Ali, Mehdi Ghanbarifardi]

نیمسال اول سال تحصیلی 00-01

2. Investigating the effect of local and global features in protein-protein prediction with deep neural networks

[Amin Rahati, Milad Lagzian]

نیمسال دوم سال تحصیلی 99-00

3. clinical characteristics and prevalence of islet cell autoantibody (ICA0 in adult with type 2 diabetes mellitus

[Malihe Mohammadi, Milad Lagzian]

نیمسال اول سال تحصیلی 98-99

4. Clinical characteristics and prevalence of glutamic acid decarboxylase (GAD) and insulinoma associated antigen (IA-2) autoantibody in adults with 2 Diabetes Mellitus

[Malihe Mohammadi, Milad Lagzian]

نیمسال اول سال تحصیلی 98-99

5. Identification of Potential Angiotensin Converting Enzyme Inhibitory Peptide by Combining pharmacophore Modeling.High Throughput Virtual Screening and Molecular Dynamic Simulation

[Milad Lagzian, Arezou Ghahghaei]

نیمسال اول سال تحصیلی 98-99

6. Identification of Potential Angiotensin Converting Enzyme Inhibitory Peptide by Combining pharmacophore Modeling.High Throughput Virtual Screening and Molecular Dynamic Simulation

[Milad Lagzian, Arezou Ghahghaei]

نیمسال اول سال تحصیلی 98-99

7. Cloning, expression, purification and biophysica - chemical characterization of protein - disulfide isomerase from bacillus subtilis DR8806

[Ali Shahraki, Milad Lagzian,]

نیمسال اول سال تحصیلی 95-94

Journals Papers

2024

1. Designing novel peptides for detecting the Omicron variant, specifying SARS-CoV-2, and simultaneously screening coronavirus infections

Zahra Yazdani, Alireza Rafiei, Mahdi Momenizadeh, Saeid Abediankenari, mohammad reza yazdani, Milad

JOURNAL OF BIOMOLECULAR STRUCTURE and DYNAMICS Volume: (42) 4759 - 4768

2. Differential Abundance Analysis of Gut Microbiome between Healthy Controls and Colorectal Cancer Patients

Hosseinali Abdi, Dor Mohammad Kordi Tamandani, Milad Lagzian, علیرضا بخشی پور

Journal of Epigenetics Volume: (5) 25 - 31

3. Effect of Ethanolic Extract of Ferula assa-foetida on Modulating SMAD4 Tumor Suppressor Gene Expression in Caco-2 Cell Line Derived from Human Colorectal Adenocarcinoma

Ali Abolhasanzadehparizi, Milad Lagzian

Journal of Epigenetics Volume: (5) 41 - 49

4. Immunomodulatory Effects of Ferula assa-foetida Extract on NF-kB and STAT1 Signaling Pathways in GM-CSF-Differentiated Human Macrophages

Ali Abolhasanzadehparizi, Milad Lagzian

Journal of Epigenetics Volume: (5) 41 - 52

2023

5. Tracing molecular adaptation of mudskippers from water to land transition: Insight from the molecular dynamics simulation of collagen type-I

Milad Lagzian, Mehdi Ghanbarifardi

Iranian Journal of Fisheries Sciences Volume: (22) 472 - 486

6. Antibacterial and antibiofilm activities of novel antimicrobial peptides against Pseudomonas aeruginosa isolates from bovine mastitis

F. Aflakian, M. Rad, Gh. Hashemitabar, Milad Lagzian, M. Ramezani

BULGARIAN JOURNAL OF VETERINARY MEDICINE Volume: (26) 351 - 360

7. Prevalence and Metabolic Characteristics of Patients with Latent Autoimmune Diabetes in Adults: A Cross-Sectional Study

Mahdieh Mehranpoor, Malihe Mohammadi, Milad Lagzian

Clinical Diabetology Volume: (12) 362 - 369

8. Cancer and COVID-19: A Double Burden on the Healthcare System

Qasemi Ali, Milad Lagzian, Zeynab Bayat

Iranian Red Crescent Medical Journal Volume: (25) e2662-1 - e2662-9

2022

9. Enhancing thermostabilization of a newly discovered alpha-amylase from *Bacillus cereus* GL96 by combining computer-aided directed evolution and site-directed mutagenesis

Soroush Pouyan, Milad Lagzian, Mohammad Hossein Sangtarash

INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES Volume: (197) 12 - 22

10. Design and assessment of novel synthetic peptides to inhibit quorum sensing-dependent biofilm formation in *Pseudomonas aeruginosa*

Fatemeh Aflakian, Mehrnaz Rad, Gholamreza Hashemitabar, Milad Lagzian, Mohammad Ramezani

BIOFOULING Volume: (38) 131 - 146

11. Microbiome Analysis in Patients with Colorectal Cancer by 16S Ribosomal RNA Sequencing in the Southeast of Iran

Hosseinali Abdi, Dor Mohammad Kordi Tamandani, Milad Lagzian, Alireza Bakhshipour

Jundishapur Journal of Microbiology Volume: (15) 1 - 11

12. Archaeome in Colorectal Cancer: High Abundance of Methanogenic Archaea in Colorectal Cancer Patients

Hosseinali Abdi, Dor Mohammad Kordi Tamandani, Milad Lagzian, Alireza Bakhshipour

International Journal of Cancer Management Volume: (15) 1 - 10

13. Prevalence of Islet Cell Autoantibodies in Adult Patients Followed for Type 2 Diabetes Mellitus: A Cross-sectional Study

Rahime Narooi, Mahdieh Mehranpoor, Malihe Mohammadi, Milad Lagzian

International Journal of Basic Science in Medicine Volume: (7) 41 - 46

2021

14. Identification of New Potential Cyclooxygenase-2 Inhibitors: Insight from High Throughput Virtual Screening of 18 Million Compounds Combined with Molecular Dynamic Simulation and Quantum Mechanics

Leily Heidarpour saremi, Ali Ebrahimi, Milad Lagzian

JOURNAL OF BIOMOLECULAR STRUCTURE and DYNAMICS Volume: (39) 1717 - 1734

15. Multi-stage screening to predict the specific anticancer activity of Ni(II) mixed-ligand complex on gastric cancer cells; biological activity, FTIR spectrum, DNA binding behavior and simulation studies

Leily Heidarpour saremi, Karim Dadashi Noshahr, Ali Ebrahimi, Ali Khalegian, Khatereh Abdi, Milad La

SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY Volume: (251) 119377-1 - 119377-10

16. Prediction and interpretation of rare missense variant in OTOG associated with hearing loss

Masomeh Askari, Zahra Moradi, Mahsa Mohammadi, Milad Lagzian, Samira Asgharzade

GENOMICS Volume: (113) 2793 - 2799

17. Impact of Synthesized AuNPs from Crocin Against Aggregation and Conformational Change in alpha-Lactalbumin

Haniye Noori, Arezou Ghahghaei, Milad Lagzian

International Journal of Peptide Research and Therapeutics Volume: (27) 2275 - 2289

2020

18. Identification of RNA-Associating Viruses with Yellow Cucurbits in South Eastern Iran and Genetic Diversity of the Prevalent Virus

Zahra Sadeghi, Nasrollanejad Saeed, Milad Lagzian, Razavi Seyed Esmaeil, Majid Jafari

Volume: (8) 14 - 27

19. بررسی بیوانفورماتیکی پروتئین همولوگ شوک حرارتی جدایه های ایرانی ویروس زردی کلروتیک (Cucurbit chlorotic yellows virus) کدوئیان در افزایش تفاوت ژنتیکی

zahra sadeghi, Saeed Nasrollanejad, Milad Lagzian, Esmaeil Razavi, Majid Jafari

Volume: (15) 41 - 47

2019

20. Substituent effects on direct and indirect tautomerism of pyrimidin-2(1H)-one/pyrimidin-2-ol

Leily Heidarpour saremi, Ali Ebrahimi, Milad Lagzian

MOLECULAR SIMULATION Volume: (45) 58 - 67

21. Identification of new promising plant-based lead compounds for inhibition of prokaryotic replicative DNA polymerases: combination of in silico and in vitro studies

Milad Lagzian, Qasemi Ali, Pegah Kaviani, Malihe Mohammadi

JOURNAL OF BIOMOLECULAR STRUCTURE and DYNAMICS Volume: (37) 4222 - 4237

22. Novel Point Mutations in cyp51A and cyp51B Genes Associated with Itraconazole and Posaconazole Resistance in Aspergillus clavatus Isolates

Mahdi Abastabar, Tahereh Hosseini, Reza Valadan, Milad Lagzian, Iman Haghani, Narges Aslani, Hamid B

Microbial Drug Resistance Volume: (25) 652 - 662

23. 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

24. Molecular Phylogeny of Gobies (Teleostei, Gobiidae) from Iranian Water Bodies with a New Record

Mehdi Ghanbarifardi, Milad Lagzian

Russian Journal of Marine Biology Volume: (45) 385 - 392

25. Molecular detection of Cucumber vein yellowing virus and Cucurbit yellow stunting disorder virus in southeastern Iran and the genetic analysis of isolates from CVYV

Zahra Sadeghi, Saeed Nasrollanejad, Milad Lagzian, Seyyed Esmaeil Razavi, Majid Jafari

Volume: (9) 29 - 40

2018

26. Molecular Modeling and Structural Stability of Wild-Type and Mutant CYP51 from *Leishmania major*: In Vitro and In Silico Analysis of a Laboratory Strain

, saeed emami, Milad Lagzian, , ,

MOLECULES Volume: (23) 696 - 711

27. The potential inhibitory effect of beta-casein on the aggregation and deposition of A β 1-42 fibrils in Alzheimers disease: insight from in-vitro and in-silico studies

, Arezou Ghahghaei, Milad Lagzian

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

28. The Potential Inhibitory Effect of κ -Casein on the Aggregation and Deposition of A β 1-42 Fibrils in Alzheimers Disease: Insight from In-Vitro and In- Silico Studies

, Arezou Ghahghaei, Milad Lagzian

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

29. A Thermostable Alkaliphilic Protein-Disulfide Isomerase from *Bacillus subtilis* DR8806 Cloning Expression Biochemical Characterization and Molecular Dynamics Simulation

Milad Lagzian, Ali Shahraki, ,

INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES Volume: (107) 703 - 712

2016

30. In vitro responses of chicken macrophage-like monocytes following exposure to pathogenic and non-pathogenic *E. coli* ghosts loaded with a rational design of conserved genetic materials of influenza and Newcastle disease viruses

Milad Lagzian, ,

VETERINARY IMMUNOLOGY AND IMMUNOPATHOLOGY Volume: (176) 5 - 17

31. Functional and Key Gene Expression Analyses of Chicken Monocyte-derived Dendritic Cells with Recombinant Interleukin 4

, , Milad Lagzian,

Iranian Journal of Allergy, Asthma and Immunology Volume: (15) 508 - 514

2015

32. Purification, biochemical characterization and structural modeling of a potential htrA-like serine protease from *Bacillus subtilis* DR8806

, , Milad Lagzian

JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC Volume: (115) 51 - 58

2014

33. An ice nucleation protein from *Fusarium acuminatum*: Cloning, expression, biochemical characterization and computational modeling

Milad Lagzian, , ,

BIOTECHNOLOGY LETTERS Volume: (36) 2043 - 2051

34. Potential angiotensin I converting enzyme inhibitory peptides from gluten hydrolysate: Biochemical characterization and molecular docking study

, , , , , Milad Lagzian

JOURNAL OF CEREAL SCIENCE Volume: (61) 92 - 98

2012

35. An extremely thermotolerant, alkaliphilic subtilisin-like protease from hyperthermophilic *Bacillus* sp. MLA64

Milad Lagzian,

INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES Volume: (51) 960 - 967

36. Purification and characterization of a new glucoamylomannanase from thermotolerant alkaliphilic *Bacillus subtilis* DR8806 of a hot mineral spring

, Milad Lagzian

PROCESS BIOCHEMISTRY Volume: (7) 806 - 815

2010

37. A novel thermostable, acidophilic α -amylase from a new thermophilic "*Bacillus* sp. Ferdowsicus" isolated from Ferdows hot mineral spring in Iran: Purification and biochemical characterization

, , Milad Lagzian

INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES Volume: (46) 289 - 297

2022

1. Evaluation of the Prevalence of ZnT8 and IAA Autoantibodies in Patients with Type 2 Diabetes Mellitus

1st National Conference of Modern Researches in Biological Science

Fatemeh Sargazi, Malihe Mohammadi, Milad Lagzian

2. Latent Autoimmune Diabetes in Adults: Epidemiology and Comparison of its Clinical Manifestations with Type 1 and Type 2 Diabetes Mellitus

1st National Conference of Modern Researches in Biological Science

Fatemeh Sargazi, Malihe Mohammadi, Mahdiah Mehranpoor, Milad Lagzian

2021

3. Frequency of glutamic acid decarboxylase autoantibody and protein tyrosine phosphatase (IA-2) in type 2 diabetic patients

2nd National Conference on New Biological Findings

Mahdiah Mehranpoor, Rahime Narooi, Malihe Mohammadi, Milad Lagzian

4. The relationship between the presence of autoantibodies against islet cells and the need for insulin therapy in patients with latent autoimmune diabetes in adults

2nd National Conference on New Biological Findings

2020

5. Identification of xylanase-producing bacteria from the natural flora of Lake Lipar, Sistan and Baluchestan

First National Conference on Science, Marine Industries and Sustainable Development of the Makoran Coast

Yaser Tariz, Malihe Mohammadi, Milad Lagzian

6. Identification of xylanase-producing bacteria from natural flora of Makoran Sea coast, Tis fishing dock, Sistan and Baluchistan

First National Conference on Science, Marine Industries and Sustainable Development of the Makoran Coast

Zahra Khajepour, Malihe Mohammadi, Milad Lagzian

7. Identification of xylanase producing microorganism from Gever hot spring, Kerman

Third National Conference on Biotechnology Innovation and Technology, Iranian Chemistry

Seyede Solmaz Moosavi, Mortaze Slajgha, Malihe Mohammadi, Milad Lagzian

8. Epigenetics changes affecting L-asparaginase therapy in human leukemia: a mini review

Third National Conference on Biotechnology Innovation and Technology, Iranian Chemistry

Seyede Solmaz Moosavi, Malihe Mohammadi, Milad Lagzian

9. Identification and isolation of α -Amylase producing bacteria from Dashti Salt Dome, Bushehr Province

Third National Conference on Biotechnology Innovation and Technology, Iranian Chemistry

Lyla Ghobadi, Seyede Solmaz Moosavi, Malihe Mohammadi, Milad Lagzian

2018

10. Whole-Genome Based Molecular Phylogeny of Crimean-Congo Hemorrhagic Fever Virus for More Accurate Identification of the Virus Origin

The 7th Conference on Bioinformatics

Sepideh Eisazai, mohammad tohidlou, Milad Lagzian

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

International Conference on Medical Health Science - ICMHS 2018

Arezou Ghahghaei, Milad Lagzian,

12. Towards molecular phylogeny of Gobiidae from the Persian Gulf

The 6th Iranian Conference of Ichthyology

Mehdi Ghanbarifardi, Milad Lagzian

13. Investigation of some inhibitors of Alzheimer associated amyloid beta aggregation by quantum optimization and molecular docking simulation

21st ICS Physical Chemistry Conference

Ashraf Dorafshantabatabaei, Effat Dehghanian, Milad Lagzian

14. IDENTIFICATION OF A NEW SMALL MOLECULE FROM TAXUS BACCATA PLANT AS A POTENTIAL INHIBITOR OF VIRB8 OF BRUCELLA BACTERIA BY HIGH-THROUGHPUT VIRTUAL SCREENING ON TRADITIONAL CHINESE MEDICINE DATABASE

Irans 19th International Congress of Microbiology

Seyede Solmaz Moosavi, Milad Lagzian, Malihe Mohammadi

2017

15. Identification of new potential human aldose reductase inhibitors by high throughput virtual screening technique in databases of natural compounds

1st International Joint Conference on New Trends In Biotechnology

Leily Heidarpour saremi, Ali Ebrahimi, Milad Lagzian

16. Identification of new potential leads for cyclooxygenase 2 inhibition by high throughput virtual screening technique on UNPD database

1st International Joint Conference on New Trends In Biotechnology

Leily Heidarpour saremi, Ali Ebrahimi, Milad Lagzian

17. Invitro and Insilico identification of Fumaric acid as a antagonist for human TLR4

1st International Joint Conference on New Trends In Biotechnology

, , , Milad Lagzian,

18. The effect of different concentrations of ascorbic acid and salt NaCl on growth indices of unicellular green algae Danaliella salina

1st International Joint Conference on New Trends In Biotechnology

Samaneh Eskandarpor, Alireza Einali, Valizadeh Jafar, Milad Lagzian

19. Molecular Phylogeny of three gobies (Gobiidae) from the Persian Gulf

The Fifth Iranian Conference of Ichthyology

Mehdi Ghanbarifardi, Milad Lagzian

2016

20. Phylogenetic recunstruction of Blenniidae and Gobiidae based on nuclear gene RAG1

1st national conference on new findings in biology

Mehdi Ghanbarifardi, Milad Lagzian,

21. A Protein Disulfide Isomerase from Bacillus Subtilis DR8806: Gene Cloning, Expression, Purification and Biophysicochemical Characterization

1st national conference on new findings in biology

, Milad Lagzian, Ali Shahraki

22. High Throughput Virtual Screening of Chinese Medicinal Plant Database for Antagonist Discovery Against Human Toll-Like Receptor 4

1st national conference on new findings in biology

, , , Milad Lagzian,

Executive activities

رئیس اداره نشریات

from 1398/06/15 - to 1401/04/13

Research Project

2020

1. The effect of *Pulicaria undulata* extract in the prevention of Alzheimers disease by cell culture me

Milad Lagzian, Arezou Ghahghaei, Nasim Faridi - 2020

2. Gene identification, cloning, expression, biochemical-biophysical characterization and computational

Milad Lagzian -