



Curriculum Vitae
Mehran Habibi-Rezaei
Ph.D. in Biochemistry
Professor

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Positions

1. Faculty Member of School of Biology, College of Science-University of Tehran (since 2001).
2. Head of Biotechnology Department, College of Science -University of Tehran (2001-2005).
4. Member of Supreme Biotechnology Committee, University of Tehran (2003 -2006 and 2018-continuing)
4. Head of Nano-biotechnology research group, Nano-science & Nano-technology Research Center, University of Tehran (since 2008-2016).
5. Member of Basic Science Committee. Iran National Science Foundation (INSF) (2005-2011)
6. Head of Nano BioMedicine Center of Excellence, University of Tehran (since 2011-2016)
7. Head of Technology Incubator, Science and Technology Park, University of Tehran (2011- 2013).
8. Vice President of Technology Development, Science and Technology Park, University of Tehran (2012-2014).
9. Member of Research & Technology committee, National Research Center for Genetic Engineering and Biotechnology (NIGEB), (since 2013-2019).
10. Invited member of Chemistry Branch, Basic Science-Iran academy of Science (since 2018)
11. President of Federation of Iran Bioscience Societies (FIRBS) (since 2019-).

Education

- 2001, Ph.D. in Biochemistry, Institute of Biochemistry & Biophysics (IBB), University of Tehran, Tehran-Iran
- 1995, M.Sc. in Biochemistry, Institute of Biochemistry & Biophysics (IBB), University of Tehran, Tehran-Iran
- 1994, M.Sc. in Medical Anatomy (courses have passed), Faculty of Basic Sciences, Mashhad University of Medical Sciences, Mashhad- Iran
- 1993, B.Sc. in Biology, Dept. of Biology, Faculty of Sciences, Urmia University, Oromieh-Iran.

Awards

- 2000, Visiting Scientist, Biosensors and Nanobiotechnology, Environmental Sector, Biotechnology Research Institute (BRI), Montreal- Canada.
- 2001, Distinguished Graduated Ph.D Student in Research, University of Tehran, Tehran-Iran.

Research Interests

Representative topics related to on-going projects consist of: Insulin resistance related diseases, Protein fibrillation, Protein aggregation, Protein Glycation, Protein Engineering, Enzyme immobilization, Biosensors.

Indicative keywords:

Insulin resistance related diseases Diabetes, Amyloidosis, Neurodegenerative diseases (Alzheimer's disease), NAFLD, Protein glycation, Proteomics, Protein Biotechnology, Applied Enzymology, Protein Stabilization, Protein Immobilization, Nanobiotechnology, Biosensors.

Publications

1. Nooshi-Nedamani, S., **M. Habibi-Rezaei**, A. Farzadfard, and A. A. Moosavi-Movahedi. "Intensification of serum albumin amyloidogenesis by a glycation-peroxidation loop (GPL)." *Archives of biochemistry and biophysics* 668 (2019): 54-60.
2. Ghazanfari-Sarabi, Sh., **Habibi-Rezaei, M.**, Eshraghi-Naeeni, R., Moosavi-Movahedi, A. A. Prevention of haemoglobin glycation by Acetylsalicylic acid (ASA): A new view on old mechanism. *PLoS One* 14(4) (2019) e0214725.
3. Mirzaie, Z., Ansari, M., Salahshour Kordestani, S., **Habibi-Rezaei, M.**, Mozafari, M. Preparation and Characterization of Curcumin-Loaded Polymeric Nanomicelles to Interference with Amyloidogenesis through Glycation Method. *Biotechnology and Applied Biochemistry* (First published: 16 April 2019).
4. Fathali, Z., Rezaei, S., Faramarzi, M.A. and **Habibi-Rezaei, M.**, Catalytic phenol removal using entrapped cross-linked laccase aggregates. *International Journal of Biological Macromolecules*, 122, (2019) 359-366.
5. Amini, N., Gholivand, M.B., Shamsipur, M., Movahedi, A.A.M., Farahi, S., **Habibi-Rezaei, M.**, Maleki, A., Rezaee, R. and Naderi, K., Fabrication of a glycation induced amyloid nanofibril and polyalizarin yellow R nanobiocomposite: Application for electrocatalytic determination of hydrogen peroxide. *International journal of biological macromolecules*, 123 (2019)1297-1304.
6. Kashanian F., **Habibi-Rezaei M.**, Moosavi- Movahedi A.A., Bagherpour A.R., Vatani M. The ambivalent effect of Fe₃O₄ nanoparticles on the urea-induced unfolding and dilution-based refolding of lysozyme, *Biomedical Materials*.13(2018) 045014. doi: 10.1088/1748-605X/aab8d7.
7. Kashanian F., **Habibi-Rezaei M.**, Moosavi- Movahedi A.A., Bagherpour A.R., Vatani M. Ameliorative effects of L-Arginine modified magnetic nanoparticles (RMNPs) on lysozyme: an applicable approach in urea-induced unfolding and refolding, *Biomedical Materials*, 2018. [Epub]].
8. Seraj Z, Seyedarabi A, Saboury AA, **Habibi-Rezaei M**, Ahmadian S, Ghasemi A. Unraveling the novel effects of aroma from small molecules in preventing hen egg white lysozyme amyloid fibril formation. *PLoS One*. 13(2018) e0189754.
9. Vahdat-Ahar E., Moosavi-Movahedi A.A., Taghavi F., **Habibi-Rezaei M.**, Sheibani N., Lag phase alteration in the modified bovine serum albumin under the inducing and inhibitory effect of vitamin C. *Journal of the Iranian Chemical Society* 15(2018)1337-1346.
10. Bagherpour A, Kashanian F, Seyed Ebrahimi S A, **Habibi Rezaei M**. L-Arginine modified magnetic nanoparticles: Green synthesis and characterization. *Nanotechnology* 29(. 2018) 075706
11. Kashanian F., Masoudi M. M., Shamloo A., **Habibi-Rezaei M.**, Moosavi-Movahedi A.A., Modelling, simulation and employing dilution-dialysis microfluidic chip (DDMC) for heightening proteins refolding efficiency. *Bioprocess and Biosystems Engineering*. 41(2018)707-714.
12. Kashanian, F., **Habibi-Rezaei, M.**, Bagherpour, A.R., Seyedarabi, A., Moosavi-Movahedi, A.A. Magnetic nanoparticles as double-edged swords: concentration-dependent ordering or disordering effects on lysozyme. *RSC advances*, 7 (2017) 54813.
13. Amirshaghghi, Z., Rezaei, K, **Habibi-Rezaei, M**. Characterization and functional properties of protein isolates from wild almond. *Journal of Food Measurement and Characterization* 11 (2017)1725-1733
14. Rezaei Arjomand, M., Ahmadian,G.R. , **Habibi-Rezaei, M.**, Hassanzadeh, M., Karkhane, A.A., Moosavi-Movahedi, A.A., Amanlou, M. The importance of the non-active site and non-periodical structurelocated histidine residue respect to the structure and function of exo-inulinase. *International Journal of Biological Macromolecules* 98 (2017) 542–549.

15. Mahmoodi-Khaledi, E., Lozano-Sánchez, J., Bakhouché, A., **Habibi-Rezaei, M.**, Sadeghian, I., Segura-Carretero, A. Physicochemical properties and biological activities of honeys from different geographical and botanical origins in Iran. *European Food Research and Technology* 243 (2017) 1019–1030.
16. Taghavi, F., **Habibi-Rezaei M.**, Amanie M., Saboury A.A., Moosavi-Movahedi A.A., The status of glycation in protein aggregation. *International Journal of Biological Macromolecules*, 100 (2017) 67–74.
17. Valipour, M., Maghami, P., **Habibi-Rezaei, M.**, Sadeghpour, M., Khademian, M. A., Mosavi, Kh. , Ahmad, F., Moosavi-Movahedi A.A. "Counteraction of the deleterious effects of reactive oxygen species on hemoglobin structure and function by ellagic acid" *Journal of Luminescence* (2017).
18. Taghavi F., **Habibi-Rezaei M.**, Bohlooli M., Saboury A.A., Moosavi-Movahedi A.A. The comparative study of potassium sorbate and sodium benzoate upon treated with human serum albumin concerning Maillard reaction and amyloid formation. *Journal of the International Society of Antioxidants*. 2 (2017).
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20. Rezaei Arjomand M., **Habibi-Rezaei M.**, Ahmadian G.R., Hassanzadeh M., Karkhane A.A., Asadifar M., Amanlou M. Deletion of loop fragment adjacent to active site diminishes the stability and activity of exo-inulinase. *International Journal of Biological Macromolecules* 92 (2016) 1234–1241.
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23. Zare H., Moosavi-Movahedi A.A., Salami M., Sheibani N., Khajeh K., **Habibi-Rezaei M.**, Autolysis control and structural changes of purified ficin from Iranian fig latex with synthetic inhibitors. *International Journal of Biological Macromolecules* 84 (2016) 464–471
24. Fotouhi L., Moosavi-Movahedi A.A., Yousefinejad S., Shourian M., Sheibani N., **Habibi-Rezaei M.**, Saboury A.A. Hydrophobic behavior, ROS production, and heme degradation of hemoglobin upon interaction with n-alkyl sulfates . *Journal of the Iranian Chemical Society*. 13(2016) 2103–2111
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34. Valipour, M., Maghami, P., **Habibi-Rezaei, M.**, Sadeghpour, M., Khademian, M.A., Mosavi, K., Sheibani, N., Moosavi Movahhedi, A.A. Interaction of insulin with methyl tert-butyl ether promotes molten globule-like state and production of reactive oxygen species. *International Journal of Biological Macromolecules* 80 (2015) 610–614.
35. Ansari, M., **Habibi-Rezaei, M.**, Salahshour-Kordestani, S., Movahedi, A.A., Poursasan, N. Prevention of Serum Albumin Glycation/Fibrillation by Functionalized Magnetic Nanoparticles, *Protein & Peptide Letters*, 22 (2015) 594-600.
36. Norouzy A., Qujeq D., **Habibi-Rezaei M.** Evaluation and Characterization of Free and Immobilized Acetylcholinesterase with Fluorescent Probe, Differential Scanning Calorimetry and Docking. *Int. Biol. Biomed. J.* 1(2015) 103-111.
37. Mahmoodi-Khaledi, E., Kashef, N., **Habibi-Rezaei, M.**, Moosavi-Movahedi, A.A., *In vitro* characterization of antibacterial potential of Iranian honey samples against wound bacteria. *European Food Research and Technology*. *European Food Research and Technology* 241(2015) 329-339.
38. Ansari, M., **Habibi-Rezaei, M.**, Salahshour-Kordestani, S., Ferdousi, M., Moosavi Movahedi. A. A. An investigation on the effect of β -CD modified Fe₃O₄ magnetic nanoparticles on aggregation of amyloid peptide. *Materials Technology: Advanced Performance Materials*. 54 (2015) 71-80.
39. Mazaheri, M., Moosavi-Movahedi, A.A., Saboury, A.A., **Habibi-Rezaei, M.**, Shourian, M., Farhadi, M., Sheibani, N. Curcumin Mitigates the Fibrillation of Human Serum Albumin and Diminishes the Formation of Reactive Oxygen Species *Protein & Peptide Letters*, , 22 (2015) 348-353.
40. Omid, M., Amoabediny, Gh., Yazdian, F., **Habibi-Rezaei, M.** “Protein Based Localized Surface Plasmon Resonance Gas Sensing” *CHIN. PHYS. LETT.* 32 (2015) 018701.
41. Bohlooli, M., Moosavi-Movahedi, A. A., Taghavi, F., Shockravi, A., Moosavi-Movahedi, Z., Farhadi, M., Saboury, A.A., Khajeh, M., Poursasan, N., Goodarzi, M., Farivar, F., Valipour, M., Amanlou, M., Sheibani, N., **Habibi-Rezaei, M.** Thermal reversibility and disaggregation of human serum albumin upon incubation with 3- β hydroxybutyrate A proposed mechanism for thiol reaction. *J Therm Anal Calorim* 120 (2015) 403–409.
42. Sabokdast, M., **Habibi-Rezaei, M.**, Poursasan, N., Sabouni, F., Maryam Ferdousi, M., Azimzadeh-Irani E., Moosavi-Movahedi, A.A. Insulin glycation coupled with liposomal lipid peroxidation and microglial cell death. *The Royal Society of Chemistry-Advance.*, 5(2015) 33114–33122

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45. Omidi, M., Amoabediny, Gh., Yazdian, F., **Habibi-Rezaei, M.** “Hydrogen Sulfide detection using a gold nanoparticle/ metalloprotein -Based Probe” *CHIN. PHYS. LETT.* 31, (2014) 088701.
46. Karimi M., **Habibi-Rezaei M.**, Safari M., Moosavi-Movahedi A.A., Sayyah M., Sadeghi R., Kokini J., Immobilization of endo-inulinase on Poly-DLlysine coated CaCO₃ micro-particles. *Food Research International*. 66 (2014) 485–492
47. Arasteh A., Farahi S., **Habibi-Rezaei M.** and Moosavi-Movahedi A.A. Glycated albumin: an overview of the In Vitro models of an In Vivo potential disease marker. *Journal of Diabetes & Metabolic Disorders* 13(2014) 49.
48. Farahi S., **Habibi-Rezaei M.**, Ebrahim-Habibi A., Arasteh A., Sheibani N., Moosavi-Movahedi A.A. (2014) Stabilization of glucose oxidase on glycation induced nanofibrils: New insight in enzyme immobilization. *ChemXpress*. 5(2014) 32-40.
49. Zamani A., Rezaei M., Madani R., **Habibi Rezaei M.**, Trypsin Enzyme from Viscera of Common Kilka (*Clupeonella cultriventris caspia*): Purification, Characterization and Its Compatibility with Oxidants and Surfactants. *Journal of Aquatic Food Product Technology Journal of Aquatic Food Product Technology*. 23, (2014) 237-252.
50. Bohlooli M., Moosavi-Movahedi A. A., Taghavi F., Saboury A. A., Maghami P., Seyedarabi A., Moosavi-Movahedi F., Ahmad F., Shokravi A. and **Habibi-Rezaei M.**. Inhibition of fluorescent advanced glycation end products (AGEs) of human serum albumin upon incubation with 3-β- hydroxybutyrate. *Molecular Biology Reports* 41(2014) 3705-13.
51. Karimi M., Chaudhury I., Jianjun C., Safari M., Sadeghi R., **Habibi-Rezaei M.**, Kokini J., Immobilization of endo-inulinase on non-porous amino functionalized silica nanoparticles. *Journal of Molecular Catalysis B: Enzymatic. Journal of Molecular Catalysis B: Enzymatic*, 104, (2014) 48-55.
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59. Sh. Ariaeenejad, A. A. Moosavi-Movahedi, K. Kavousi, M. R. Dayer, Jun Hong, R.Yousefi, N. Sheibani, **M. Habibi-Rezaei** " The species and heme pocket properties of Sturgeon hemoglobins upon interaction with n-dodecyl trimethylammonium bromide" *Protein & Peptide Letters* 21(2014)171-178.
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63. Masoume Karami; Seyede Zahra Bathaie; Taqi Tiraihi; **Mehran Habibi-Rezaei**; Jalil Arab- Kheradmand; Soghra Faghihzadeh “The Effect of Crocin and its Mechanism of Action on Chronic Pain Induced by Spinal Cord Contusion in a Rat Model”. *Modares Journal of Medical Sciences: Pathology*. 16, (2013) 63-73.
64. Abbas Zamani, Masoud Rezaei, Rasool Madani, **Mehran Habibi Rezaei** . Trypsin Enzyme from Viscera of Common Kilka (*Clupeonella Cultriventris Caspia*): Purification, Characterization, and Its Compatibility with Oxidants and Surfactants, *Journal of Aquatic Food Product Technology*. Published online: 31 (2013)
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84. Ali Taheri, Abdolmohammad Abedian Kenari, Ali Motamedzadegan and **Mehran Habibi Rezaei**. The Relationship between different Protein Hydrolysate Diets by Growth, Digestive Enzymes and Resistance to an *Aeromonas salmonicida* Bacterial Challenge in Rainbow Trout (*Oncorhynchus mykiss*) Alevine *World Journal of Fish and Marine Sciences* 2 (2010) 4.

85. Amir Norouzy, **Mehran Habibi-Rezaei**, Durdi Qujeq, Maryam Vatani and Alireza Badieli. Adsorptive immobilization of Acetylcholine Esterase on Octadecyl substituted porous silica: Optical Bio-analysis of Carbaryl. *Bulletin of the Korean Chemical Society*. 31(2010) 157.
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- 2) **Habibi-Rezaei M.**, Mahmoodi-Khaledi E., Moosavi-Movahedi A.A. Honey as Nutraceutical. *Science Cultivation*. 5 (2015) 26-34.
- 3) Fazeli M.; Amoozegar M.A.; **Habibi-Rezaei M.** and Siroosi M., Production of an extracellular halophilic Pullulanase by *Halorubrum* sp. Strain Ha25 Isolated From Aran- Bidgol Lake. *Journal of Cellular and Molecular Researches (Iranian Journal of Biology)*, 27 (2015), 533-545.
- 4) M. Siroosi, M.A. Amoozegar, M. Habibi Rezaei, Mostafa Fazeli. Purification and characterization of an extracellular halophilic and organic solvent-tolerant amylopullulanase from a haloarchaeon, *Halorubrum* sp. strain Ha25. *Biological Journal of Microorganism (BJM)*. 2(2013),1-14.
- 5) Taheri, A. Abedian Kenari, A. Motamedzadegan and **Habibi Rezaie, M.** Optimization of Antioxidant activity using Surface Response Methodology. *Food Science and Technology Research Journal*. 8, (2012) 262-270.
- 6) Taheri, A., Abedian Kenari , A. M. , Motamedzadegan, A., **Habibi Rezaie, M.** Process optimization of Poultry By-products hydrolysate production by RSM. *JFST*. 9(2012) 65-75.

- 7) Taheri, A., Abedian Kenari, R., Hallaj, A. M., , **Habibi Rezaei, M.** Motamedzadegan, A., A. Ojifard. Effect of Different Hydrolyzed Protein Levels on Protease Enzymes in Rainbow Trouts (*Oncorhynchus mykiss*) Alevin. *Journal of Comparative Pathology*. 35(2011) 665-674.
- 8) **M. Habibi -Rezaei**, Y. Siahmansouri. The Substantiation of Entrepreneurship Universities through Activities of University Incubators. *Science Cultivation*. 3 (2013) 43-49.
- 9) Balvardi, M., Safari, M., , **Habibi Rezaei, M.**, Hosseini, S. M. H., Rezaei, K., Moosavi Movahedi, A. A. Kombucha production using extracted inulin from Jerusalem artichoke tuber. *Journal of Food Science and Technology (JFST)*. 8 (2011) 89-100.
- 10) Fakhr, E. Habibi-Rezaei, M., Motamed, N. Honey and Wound Healing, *Razi Journal*, 23 (2012), 21-36.
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- 12) Fakhr E, Motamed N, **Habibi Rezaei M.** Microarray Technology. *Genetics in the 3rd Millennium*. 9 (2011) 2481-2488.
- 13) Jafarian, Azari-Takami, Kamali, Salani, **Habibi-Rezaei**, (2008) Application of enriched probiotic *Bacillus* by *Artemia Urmiana*. *J. Gorgan Agricultural Sciences and Natural Resources*, 14(2008) 77-86.
- 14) Ghadamyari, M., Talebi Jahromi, Kh., Bandani, A.R., **Habibi-Rezaei, M.**, Rasouljan, Gh.R. Resistance mechanism of green peach potato aphid (*Homoptera aphididea*) to primicarb and oxydemeton methyl. *Iranian Journal of Agricultural Sciences*, 38 (2007) 181-189.
- 15) Ziaeinejad, S., Azari-Takami, G., Mirvaghefi, A.R., **Habibi-Rezaei, M.**, Shakouri, M. (2006) Application of *Bacillus* spp. bacteria as a probiotic for enhancement of growth and production parameters in Indian white shrimp (*Fenneropenaeus indicus*) ponds. *Iranian Journal of natural resources*. 58 (2006) 28-34.
- 16) Ataei, G., Zonozi, F., Divsalar, A., Moosavi-Movahedi, A.A., Saboury, A.A., Safarian, S., **Habibi- Rezaei, M.**, Kachkar, L., and Mardanian, S. (2005) Kinetic and thermodynamic comparison of Adenosine deaminase from intestine and spleen. *Pajouhandeh*, 44 (2005) 65-72.
- 17) H. Jafarian, G. Azari Takami, A. Kamali, M. Soltani, **M. Habibi-Rezaei**. The use of probiotic *Bacillus* bioencapsulated with *Artemia urmiana* nauplii for the growth and survival in *Acipenser persicus* larvae. *J. Agric. Sci. Natur. Resour.*, 14 (2007) 77-86.
- 18) Nemati, Sh. Valadbeighi, T, T., Habibi-Rezaei, M., Drug Resistance. *Razi Journal*. 9 (2005) 20-31.
- 19) **Habibi-Rezaei, M.**, Biotechnology Education in Iran, *Rahyaft*, 44,(2003) 1-15
- 20) **Habibi-Rezaei, M.**, Nanobiotechnology, *Rahyaft*, 30 (2003) 98-107.
- 21) Hosseinipannah, S.M., Barbarestani, M., Fazel, **Habibi-Rezaei, M.**, Hosseini, M. The Role of acetylation on galactose and glucose in follicle development, *Semnan Medical School Science Journal Komesh*, 4(2003) 53.
- 22) Barbarestani, M., Hosseinipannah, S.M. Fazel, A.R., **Habibi-Rezaei, M.**, Akbari, M., Aboulhasani, F., Mirabdolvahabi, M.A. Evaluation of sugar residues in *Zona Pellucida* during ovarian cycle (2003) *Hamadan, Medical School Science Journal*, 10(2003) 55.
- 23) **Habibi-Rezaei, M.** and Moosavi-Movahedi, A. A., Proteomics, *Razi Journal*, 154,(2002) 36-44.

Books (in Persian)

1. **Habibi-Rezaei, M.** “Enzymes in Industry and Medicine”(1993) Jahad Press- Oromieh, Iran.
2. Yosefi, R., **Habibi-Rezaei, M.** and Moosavi- Movahedi, A.A. (2000) “Biochemistry of Kombocha”(2000), Amir-Kabir Press- Tehran, Iran.
3. Azari, F. **Habibi-Rezaei, M.** and .. (2004) Applied Enzymology, Basic Concepts, Tehran University Press, Tehran, IRAN.
4. **Habibi-Rezaei** , et al. (2007), Plant physiology by Taiz and Zeiger, Khaneh Zistshenasi Press (Translation).
5. Miroliaei, **M. Habibi-Rezaei, M.** and .. (2014) Applied Enzymology, advance topics.

Patents

Revised Inulin production process 2008.

Anti-bacterial nano-catalyzers, 2012.

Pummonary surfactant formulation and production, 2013.

A membrane type immunosensor to detection Witches’ Broom Disease of Lime, 2015.

Dilution-dialysis microfluidic chip (DDMC), 2017

National & International Symposiums

About **200 conferences** participation.

Invited Speaker

Some of them are listed as follow:

1. *International Strategy on Nanoscience and Nanotechnology*, (2005), National Nanobiotechnology Conference, Alzahra University.
 2. *Cell based impedometric sensors*, (2005) Royan Institute.
 3. *New generation of cell based sensors* (2006) Ardabil University.
 4. *Protein microarray*, (2011) University of Tehran.
 5. *Third Generation Universities 2012*, Knowledge Management Conference-Shahid-Beheshti University.
 6. *Proteomics in Medical Research*. Alborz Medical Science University, Oct. 2013, Karaj-Iran.
 7. *International and Regional Diabetes Organizations: a foresighting view on Type 2 diabetes & Sporadic Alzheimer’s Disease*. 2015 ISOBC Symposium, Institute of Biochemistry and Biophysics, University of Tehran.
 8. *Expansion of entrepreneurial and 3rd generation Universities: a Cultural point of view*. (2017) National Medical Education Congress (18th).
 9. *Type 2 to type 3 diabetes: causes and interventions*, (2018) 15th CBC Conference on Biophysical Chemistry, Gorgan, Iran.
 10. *Electricity and Movement in Living Organisms: a Bio-inspiration & Biomimetics approaches* (2018) Faculty of New Sciences and Technologies, University of Tehran.
- Etc..

Organized Workshops and Conferences

1. Two-Dimensional electrophoresis and Proteomics. (7-10 Mar 2004) Department of Biology, Faculty of Science, University of Tehran, Tehran, IRAN.
2. Proteomics and Clinical Trials, Satellite Workshop of the 8th Iranian Congress of Biochemistry and The 1st International Congress of Biochemistry & Molecular Biology. Sept11-15, Tehran, Iran. Sept 10, 2005. Tehran, Iran.

3. International Workshop on Protein Characterization, March, 4-8, 2006. Institute of Biochemistry and Biophysics (IBB) University of Tehran, Tehran, IRAN.
4. First Iranian Proteomics Congress. 21 February, 2007. University of Tehran, Tehran, IRAN.
5. Proteomics symposium (2010) 16 Esfand IBB-UT.
6. The First National Symposium on Honey and Bio-Molecular Sciences. December 20, 2017. University of Tehran. Tehran-Iran.

Projects

- Biotechnology Potentials in Iran. (Research Council, University of Tehran (1995-1997).
- Present Status of Biotechnology Islamic Republic of Iran National Research Council of I.R. Iran. Conducted by N. Zargham, (Colleague). (1998-2000)
- Effect of Porous Silica Alkylation on the Adsorptive Interactions with Apical Portion of Intestinal Enterocytes Research Council, University of Tehran, (2001-2004)
- Phytoremediation of the contaminated soils with nitroaromatics (2005-2006)
- Microglial cell proteomics under treatment by amyloid like structures. (2005-2008) Inulinase Domain Engineering (2010-2013)
- Designing and manufacturing of the integrated sensing system and removing of diabetic toxic amyloid intermediates toward screening and prevention of diabetic complications. (2016) NIMAD.
- Designing of quality diagnostic kit for honey (2017)

M.Sc. & Ph.D. Supervisions

More than 40 M.Sc. and 7 Ph.D. theses have been supervised and about 40 M.Sc. and Ph.D. theses have been co-supervised.

Selected Thesis supervised (subjective)

Rajaei, M. Izoenzyme distribution.
 Khazaei, M.R. Protein Glycation and effects on microbial apoptosis.
 Balazadeh, B. Immobilization of Intestinal Glucohydrolysis
 Yadranji, Y Lithium effect on microglial cells
 Mohammadian, A. Microbial Nano particle production
 Valadbeighi, T. Intestinal Lactase phlorizin hydrolases
 Shekari, F. Proteomic analysis of microglial s under treatment by glycated proteins
 Bakhti, M. Hemoglobin Glycation (Heme degradation)
 Nohzadeh, S. Proteomics analysis of Rice plasma membrane
 Nemati, F. Inhibitory effects of Acetyl Salicylate derivative effect on protein glycation
 Ebrahimzadeh, Z. Low moisture solvent effect on Enzyme structure and function
 Norouzi, A. Acetylcholine esters: immobilization and sensor development
 Fallahi, S. Phyto-remediation of Nitroaromatics: proteomics
 Farahmand, A.R. Proteome analysis of Scorpion venom
 Torabizadeh, H. Semi-rational engineering of Inulinase
 Rezaei, F. Heme degradation in Human, Camel and bovine
 Amiri, M. Nano-proteoliposomes and lactase phlorizine hydrolases
 Balverdi, H. Inulin and Kambocha syrup
 Vatani, M. Inulinase: a microbial survey
 Akbari, H. Sorbitol dehydrogenase immobilization
 Barzanoni, M. Stress: molecular mechanism Proteins and enzymes involvement
 Ahmadzadeh, A.R. Opium interference on protein glycation
 Rahimi, M. Saffron extracts on Prostaglandin Synthase
 Salari, A. Sorbitol dehydrogenase: glycation
 Sadeghian, E. Honey: protein analysis
 Hadidi, L. Enzyme Immobilization as CLE on nano-porous silica
 Farahi, S. Peroxidase immobilization on protein Nanofibrils
 Arasteh, A. Glucose Oxidase immobilization on Proteon nanofibers
 Borjian, F. Glucoamylase production
 Roshanpour, R. Phytoremediation of Heavy metals in industrial zones
 Fazeli, M. Pullulanase Production
 Asadifar, M. Recombinant Inulinase: expression & production
 Nabati, F. Urease Biosensor
 Maleki, H. Liposomal Peroxidation and Protein glycation
 Sepahi, M.M. Pulmonary surfactant: formulation and production
 Ansari, M. PCL modification toward GA capturing
 Sabokdast, M. Effect of beta hydroxyl butyric acid on Insulin glycation.

Mahmoodi, E. Antimicrobial activity of Honey samples.
Akabari-Borhani, H. Hemoglobin of *Artemia uromina*
Kashanain, F. Effect of nanoparticles on protein aggregation
Bagherpour, A.R. Novel coating on MNPs.
Faiiazi, R. Apramer based MNP mediated GA binding
Asadi, M. Insulin control release using Liposomal lipid peroxidation
etc.

Current Students

NAFLD/AD (Ph.D. Thesis)
Aptamer based GA Biosensor (Ph.D. Thesis)
Cis-tau/AD (Ph.D. Thesis)
Screening Iranian plants regarding their Antioxidant activity (M.Sc. thesis)
MNP-based Protein disaggregation (M.Sc. thesis)

Selected Thesis co-supervised (subjective)

Hosseini-panah, M. Lectin histochemistry: Ovarian cycle
Bagheri, A.A. Protein/Enzyme pattern change In plants
Banaei, A.M. B-chromosome: proteomics analysis
Ziaei, S. Probiotics in Shrimps
Sobhanian, H. Protein/enzyme pattern analysis in plant sample
Bordari, k. Microbial Nano particle production
Kohian, M. Pepsin Stability
Abedian A. Hydrodynamic analysis of Protein adsorption in fluidic matrices
Jafarian Probiotics in Khavari fishes
Yazdani, M. RHAU Protein anlysis: Identification of new mRNAs associated with *RHAU*
Ghadamyari, M. The resistance mechanism of green peach potato aphid.
Sitar-Ahmadi, N. Serum Albumin glycation and Alginate effect
Kabiri, M. Bacterial Proteome
Jafargolizadeh, N. Mitotroxan effect on Histon proteins
Ghasemi, M. Serum albumin glycation
Allahyari, M. Lectin histochemistry in of the Sunn pest *Eurygaster integriceps*
Ghodarzi, M. Heme degradation under diabetic condition
Abri-Mehraban, F. Glucose interference on interaction of Doxorubicin and Hemoglobin
Ariaeenejad, Sh. Structure and function of of two sturgeon hemoglobins
Salehi, N. Heme degradation under glycation
Taghavi, F. Serum albumin glycation: effect of food preservatives
Bohloli, M. ation: effect of by 3- beta-hydroxybutyrate
etc.....

National and International affiliations

- Board member of the European Association of Chemistry and Environment (2000-2005).
- Vice President, Iran Society of Biophysical Chemistry (ISOBC) (since 2006)
- Founders and Board Member of Iranian Proteomics Society (IPS) (since 2005)
- Founders, Board Member of Federation of Iran Bioscience Societies (FIrBS) (2015-2019)
- President of Federation of Iran Bioscience Societies (FIrBS) (2019-..)
- Founders, Board Member of Persian Peptide Society (PPS).

Teaching Experiences

Enzymology (M.Sc. & Ph.D.), Nanobiotechnology (M.Sc. & Ph.D.), Protein Engineering (M.Sc. & Ph.D.), Advance Biochemistry (M.Sc.), Cell Process: Neurodegenerative Diseases (Ph.D.), Molecular Biotechnology (Ph.D.), Applied Enzymology (PhD), Enzyme Biotechnology (Ph.D.), Advance Cell and molecular biology (M.Sc.), Protein Structure and Function (Ph.D.), Practical Biochemistry (B.Sc., M.D.), General Biochemistry (B. Sc. M.D.), Structural Biochemistry (B.Sc.), Metabolism (B.Sc.), Cell Biology (B.Sc.),