

Curriculum Vitae

Azadeh Ebrahim-Habibi

Present position and professional address:

Associate Professor

Molecular Modeling Group

Endocrinology and Metabolism Research Institute

Tehran University of Medical Sciences (TUMS)

Shariati Hospital, North Kargar Avenue

Tehran , 1411413137,Iran

Tel. 009821-88220037

e-mail: aehabibi@sina.tums.ac.ir, azadehabibi@yahoo.fr

Education:

1990 : Diploma in Experimental (Natural) Sciences

Tehran, Iran

1997: Doctor of Pharmacy (Pharm.D.)

School of Pharmacy of the Azad University , Tehran, Iran

G.P.A. of 16.81/20

Thesis title: Isolation of L-asparaginase from *Erwinia carotovora* , supervisor: Dr. Nasrin Moazami , accepted with “Excellent” grade.

2004: Doctor of Philosophy (Ph.D. in biochemistry)

Institute of Biochemistry and Biophysics (IBB), University of Tehran

G.P.A. of 17.41/20

Thesis title: Chemical modification and its effect on enzymes from the alpha-amylase family, supervisor: Prof. Mohsen Nemat-Gorgani, accepted with “Excellent” grade.

2006-2007 : Post-doctoral project

Molecular modeling (homology modeling of a glucosidase enzyme), with Professor Hans-Dieter Hoeltje, Institut für Pharmazeutische und Medizinische Chemie, Pharmacy School of the Heinrich-Heine University, Duesseldorf, Germany.

Participation in workshops and trainings:

- Research Methodology and Research in Pharmaceutical Sciences Workshops, Endocrinology and Metabolism Research Center, Shaheed Beheshti University of Medical Sciences, Tehran, Iran, January 30-February 5, 1999
- Drug Discovery Technology Europe- IBC Life Sciences , London, UK, March 15-16, 2005.

- GMP and Quality Assurance (1) : presented by WHO expert, SOHA2 Pharmaceutical Factory, MPO (Red Crescent Society), Iran, , April 25-May 2, 2005
- GMP and Quality Assurance (2) : presented by WHO expert, SOHA2 Pharmaceutical Factory, MPO (Red Crescent Society), Iran,), December 17-22, 2005
- Application of nanotechnology in drug delivery, Science School of Geneva University and Iran Polymer & Petrochemical Institute, Iran, September 11-12, 2005
- Summer School on Drug Design , Department of Medicinal Chemistry, University of Vienna , Austria, September 16-21, 2007
- IPM-NUS workshop on analysis and application of protein interactions networks, IPM (Institute for Research in Fundamental Sciences), Tehran, Iran, November 17-18, 2008
- Chemical Computing Group MOE workshop, University of Strasbourg, France, April 27-29, 2009
- Applied statistics in Medical Research and the usage of SPSS software, Endocrinology and Metabolism Research Center, TUMS, Tehran, Iran, June 3rd&11, 2009
- Chemometrics principles and applications in pharmaceuticals analysis, Pharmacy School of Tehran University of Medical Sciences, Tehran, Iran, May5-July23 (60 hours), 2009
- Electronic Learning in Medical Education, Tehran University of Medical Sciences, Tehran, Iran, May 9, 2012
- 3rd Strasbourg Summer School on Chemoinformatics- Strasbourg, France, 25-29 June 2012

Honors and Awards:

- Ranked second between fellow students of the Pharm.D. program (1992 class)
- Ranked first Biochemistry Ph.D. candidate of IBB in 2004

Membership in societies:

- Iran Society of Biophysical Chemistry
- Iran Endocrine Society

Editorial Membership:

- Section Editor in the Journal of Diabetes and Metabolic Disorders (JDMD)

Languages:

- Persian (native)
- French (close to native)
- English (written, read, spoken)
- German [Zertifikat Deutsch, grade: 1 (very good)]

Teaching Experience:

Enzymology, Enzymes Mechanism of Action, Introduction to Medicinal Chemistry, Special Topics in Biochemistry as courses for the M.Sc. and Ph.D. of Biochemistry programs of the Science and Research Branch of the Azad University.

Supervision and advisory works for MS.c. and Ph.D. theses :

Supervision:

Ph.D.

- Investigation of the effect of several natural compounds on the activity of alpha amylase and level of blood sugar in diabetic rats. **Biochemistry, Ph.D. Thesis.(co-supervisor)**2010
- Immobilization of glucose oxidase on bovine serum albumin amyloid nanofibrils. **Biochemistry, Ph.D. Thesis.(co-supervisor)**2012
- Molecular modeling study on the interaction of non peptidic inhibitors of alpha-amylase with this enzyme. **Biochemistry, Ph.D. Thesis.(co-supervisor)**2012

M.Sc.

- Study on the inhibitory effect of polyphenolic compounds on alpha-amylase enzymes from *Aspergillus oryzae*, *Sus scrofa* and *human saliva*. **Biochemistry, M.Sc. Thesis.** 2008
- Molecular modeling studies on bacterial acetate kinase: studying the active site and design of inhibitors. **Biochemistry, M.Sc. Thesis.** 2009
- Chemical modification of the lysine residue of bovine insulin and studying modified protein structure and aggregation *in vitro*. **Biochemistry, M.Sc. Thesis.** 2009
- Study on the effect of natural compounds on amyloid formation of insulin. **Biotechnology, M.Sc. Thesis. (co-supervisor).** 2010
- Structural studies on amyloid formation of polygalacturonase and human albumin. **Biochemistry, M.Sc. Thesis** 2010
- Comparative study of organic solvents effect on insulin aggregation. **Biochemistry, M.Sc. Thesis.** 2010
- Study on the effects of some phenol and purine compounds on alpha-amylase activity using a direct kinetic assay. **Biochemistry, M.Sc. Thesis.**2011
- Molecular modeling and *in vitro* study on proposed lipase inhibitors. **Biochemistry, M.Sc. Thesis.**2011
- Molecular modeling and *in vitro* studies on proposed inhibitor of bacterial alpha-amylase. **Biochemistry, M.Sc. Thesis.**2012
- Effect of precursors of melatonin hormone on the Alloxan induced diabetic rats. **Physiology, M.Sc. Thesis.** 2012 (co-supervisor)

- Effect of some indole derivatives in polycystic ovary syndrome induced in Wistar rats. *Physiology, M.Sc. Thesis*. 2012 (co-supervisor)

Advisor_Ph.D. theses:

- Induction of amyloid aggregation of bovine alpha-chymotrypsin and biochemical and biophysical characterization of its intermediate structures. *Biochemistry, Ph.D. Thesis*. 2007
- Induction and characterization of intermediate structures in glutamate dehydrogenase leading to its aggregation. *Biochemistry, Ph.D. Thesis*. 2008
- A comparative study on amyloid fibril formation in apo and holo bovine carbonic anhydrase II. *Biochemistry, Ph.D. Thesis*. 2012
- Molecular mechanic simulation and immobilization of herceptin as therapeutic antibody on carbon nanotubes. *Biochemistry, Ph.D. Thesis*. 2012

Advisor for 20 M.Sc. theses (Biochemistry, Biophysics, Physiology) between 2008-2012.

Publications:

Articles:

33- Neohesperidin dihydrochalcone: presentation of a small molecule activator of mammalian alpha- amylase as an allosteric effector. **Kashani-Amin E, Larijani B, Ebrahim-Habibi A***. FEBS Letters. (In Press) <http://dx.doi.org/10.1016/j.febslet.2013.01.022> (corresponding Author)

32- Estrogen receptor mutation in a girl with primary amenorrhea. **Asadi M, Ghafouri-Fard S, Zare-Abdollahi D, Ebrahim-Habibi A, Matin N**. Clinical Genetics. (In Press) 22. doi: 10.1111/cge.12083

31- Reflection on design and testing of pancreatic alpha-amylase inhibitors: an in silico comparison between rat and rabbit enzyme models. **Khalil-Moghaddam S, Ebrahim-Habibi A, Pasalar P, Yaghmaei P, Hayati-Roodbari N**. DARU Journal of Pharmaceutical Sciences 2012, 20:77 doi:10.1186/2008-2231-20-77.

30- Heme binding site in apomyoglobin may be effectively targeted with small molecules to control aggregation. **Azami-Movahed M, shariatizi S, Sabbaghian M, Ghasemi A, Ebrahim-Habibi A***, Nemat-Gorgani M*. The International Journal of Biochemistry & Cell Biology. 2013. 45: 299– 307 (co-corresponding author).

29- Xanthine derivatives as activators of alpha-amylase: hypothesis on a link with the hyperglycemia induced by caffeine. **Kashani-Amin E, Yaghmaei P, Larijani B, Ebrahim-Habibi A*** Obesity Research & Clinical Practice. (In Press) (corresponding author).

28-Maternal zinc intake of Wistar rats has a protective effect in the alloxan-induced diabetic offspring. **Yaghmaei P*, Esfahani-Nejad H, Ahmadi R, Hayati-Roodbari N, Ebrahim-Habibi A***. Journal of Physiology and Biochemistry. 2013. 69(1):35-43 (co-corresponding author).

27- Response surface methodology for optimizing the bovine serum albumin fibrillation. **Arasteh A, Habibi-Rezaei M, Ebrahim-Habibi A, Moosavi-Movahedi AA**. The Protein Journal. 2012. 31(6):457-65

26-Thermal disaggregation of type B yeast hexokinase by indole derivatives: A mechanistic study. **Ramshini H, Ebrahim-Habibi A**. International Journal of Biological Macromolecules. 2012. 50(5):1260-1266.

25- Detection of KCNJ11 Gene Mutations in a Family with Neonatal Diabetes: Implications for Therapeutic Management of Family Members with Long-Standing Disease. **Abbasi F., Saba S., Ebrahim-Habibi A*, Sayahpour FA, Amiri P., Larijani B., Amoli MM***. Molecular Diagnosis & Therapy. 2012. 16(2):109-14 (co-corresponding author).

24- Amyloid fibrillation in native and chemically-modified forms of carbonic anhydrase II: Role of surface hydrophobicity. **Es-haghi A., Shariatizi S., Ebrahim-Habibi A., Nemat-Gorgani M**. Biochimica et Biophysica Acta. 2012. 1824(3):468-477.

23- Benzofuranone derivatives as effective small molecules related to insulin amyloid fibrillation: a structure-function study. **Rabiee A, Ebrahim-Habibi A*, Navidpour L, Morshedi D, Ghasemi A, Sabbaghian M, Nemat-Lay M, Nemat-Gorgani M***. Chemical Biology and Drug Design. 2011. 78(4):659-66 (co-corresponding author).

22-Prevention of thermal aggregation of an allosteric protein by small molecules: Some mechanistic insights. **Sabbaghian M, Ebrahim-Habibi A, Hosseinkhani S, Ghasemi A, Nemat-Gorgani M**. International Journal of Biological Macromolecules. 2011. 49(4):806-13.

21-Effects of Sucrose and Trehalose on Stability, Kinetic Properties, and Thermal Aggregation of Firefly Luciferase. **Rasouli S, Hosseinkhani S, Yaghmaei P, Ebrahim-Habibi A**. Applied Biochemistry and Biotechnology. 2011. 165(2):572-82.

20-A new frameshift MEN1 gene mutation associated with familial malignant insulinomas. **Hasani-Ranjbar S, Amoli MM, Ebrahim-Habibi A, Gozashti MH, Khalili N, Sayyahpour FA, Hafeziyeh J, Soltani A, Larijani B**. Familial Cancer. 2011. 10:343-348.

19-Novel mutations of wolframin: a report with a look at the protein structure. **Alimadadi A, Ebrahim-Habibi A*, Abbasi F*, Amoli M, Sayahpour FA, Larijani B.** Clinical Genetics. 2011.79:96-99. (co-corresponding author)

18-*Trans*-chalcone: a novel small molecule inhibitor of mammalian alpha-amylase. **Najafian M, Ebrahim-Habibi A*, Hezareh N, Yaghmaei P, Parivar K, Larijani B.** Molecular Biology Reports, 2011. 38:1617-1620. (corresponding author)

17-Core structure of flavonoids precursor as an antihyperglycemic and antihyperlipidemic agent: an *in vivo* study in rats . **Najafian M, Ebrahim-Habibi A., Yaghmaei P, Parivar K, Larijani B.** Acta Biochimica Polonica 2010.57:553-560.

16- Protein-protein interactions leading to aggregation: perspectives on mechanism, significance and control. **Ebrahim-Habibi A., Morshedi D., Rezaei-Ghaleh N., Sabbaghian M., Nemat-Gorgani M.** Journal of the Iranian Chemical Society.2010. 7: 521-544. (Review)

15-Fibrillation of alpha-lactalbumin: effect of crocin and safranal, two natural small molecules from *Crocus sativus*. **Ebrahim-Habibi M-B., Amininasab M., Ebrahim-Habibi A., Sabbaghian M., Nemat-Gorgani M.** Biopolymers. 2010 .93:854-865.

14-Chemical modification of lysine residues in lysozyme may dramatically influence its amyloid fibrillation. **Morshedi D., Ebrahim-Habibi A., Moosavi-Movahedi A., Nemat-Gorgani M.** Biochimica et Biophysica Acta. 2010.1804:714-722

13-Immobilization of acetylcholinesterase in nanofibrous PVA/BSA membranes by electrospinning. **Moradzadegan A., Ranaei-Siadat S-O., Ebrahim-Habibi A., Barshan-Tashnizi M., Jalili R., Torabi S-F, Khajeh K.** Engineering in Life Sciences.2010.10:57-64.

12-Mutation screening of VHL gene in a family with malignant bilateral pheochromocytoma: from isolated familial pheochromocytoma to von Hippel-Lindau disease. **Hasani-Ranjbar S, Amoli MM, Ebrahim-Habibi A, Haghpanah V, Hejazi M, Soltani A, Larijani B.** Familial Cancer. 2009. 8:465-471.

11-Thermal aggregation of a model allosteric protein in different conformational states. **Sabbaghian M., Ebrahim-Habibi A., Nemat-Gorgani M.** International Journal of Biological Macromolecules. 2009. 44: 156-162.

10- Amyloidogenic potential of alpha-chymotrypsin in different conformational states. **Rezaei-Ghaleh N., Zweckstetter M. ,Morshedi D., Ebrahim-Habibi A., Nemat-Gorgani M.** Biopolymers. 2009.91:28-36.

9- Thermally induced changes in the structure and activity of yeast hexokinase B. **Ramshini H., Rezaei-Ghaleh N., Ebrahim-Habibi A., Saboury AA, Nemat-Gorgani M.** Biophysical Chemistry. 2008 .137:88-94.

8-Thermal aggregation of α -chymotrypsin: Role of hydrophobic and electrostatic interactions. **Rezaei-Ghaleh N., Ramshini H., Ebrahim-Habibi A., Moosavi-Movahedi AA. , Nemat-Gorgani M.** Biophysical Chemistry. 2008. 132: 23-32

7- Inhibition of amyloid fibrillation of lysozyme by indole derivatives : possible mechanism of action. **Morshedi D., Rezaei-Ghaleh N., Ebrahim-Habibi A., Ahmadian S., Nemat-Gorgani M.** FEBS Journal .2007. 274: 6415–6425

6- Effect of polyamines on the structure, thermal stability and 2,2,2-trifluoroethanol-induced aggregation of α -chymotrypsin. **Rezaei-Ghaleh N., Ebrahim-Habibi A., Moosavi-Movahedi AA., Nemat-Gorgani M.** International Journal of Biological Macromolecules. 2007.41: 597-604

5-Role of electrostatic interactions in 2,2,2-trifluoroethanol-induced structural changes and aggregation of α -chymotrypsin. **Rezaei-Ghaleh N., Ebrahim-Habibi A., Moosavi-Movahedi AA., Nemat-Gorgani M.** Archives of Biochemistry and Biophysics .2007. 457: 160-169

4-Thermostabilization of Bacillus amyloliquefaciens alpha-amylase by chemical crosslinking. **Ebrahim-Habibi A., Khajeh K., Naderi-Manesh H., Ranjbar B., Nemat-Gorgani M.** Journal of Biotechnology. 2006. 123: 434-442.

3-Chemical modification of lysine residues in Bacillus licheniformis alpha-amylase: conversion of an endo- to an exo-type enzyme. **Ebrahim-Habibi A., Khajeh K., Nemat-Gorgani M.** Journal of Biochemistry and Molecular Biology. 2004. 37:642-647

2-Interaction of an intermediate structure of Bacillus subtilis alpha-amylase with alkyl-substituted sepharose 4B: a model of membrane translocation. **Karbalaei-Heidari HR., Ebrahim Habibi A., Khajeh K., Ranjbar B., Nemat-Gorgani M.** Applied Biochemistry and Biotechnology. 2004.117:123-32.

1-Chemical modification of bacterial alpha-amylases: changes in tertiary structures and the effect of additional calcium. **Khajeh K., Ranjbar B., Naderi-Manesh H., Ebrahim Habibi A., Nemat-Gorgani M.** Biochimica et Biophysica Acta. 2001.1548:229-37.

Articles published in non-ISI Journals:

1- Citral as a potential antihyperlipidemic medicine in diabetes: a study on streptozotocin-induced diabetic rats. **Najafian M, Ebrahim-Habibi A.*, Yaghmaei P, Parivar K, Larijani B.** Journal of Diabetes and Metabolic Disorders 2011.10:3 (corresponding author).

2- Tyrosine Phosphorylation Pattern in Sperm Proteins Isolated from Normospermic and Teratospermic Men. **Jabbari S, Sadeghi MR, Akhondi MM, Ebrahim Habibi A, Amirjanati N., Lakpour N., Asgharpour L., Ardekani AM.** J Reprod Infertil. 2009.10(3):185-91

3-SLC34A3 Intronic Deletion in a New Kindred with Hereditary Hypophosphatemic Rickets with Hypercalciuria. **Hasani Ranjbar S, Amoli MM, Ebrahim Habibi A, Dehghan E, Soltani A, Amiri P, Larijani B.** *J Clin Res Pediatr Endocrinol.* 2012.4(2):87-91. doi: 10.4274/jcrpe.601.

Book Chapter:

- Familial Catecholamine-Secreting Tumors - Three Distinct Families with Hereditary Pheochromocytoma *Shirin Hasani-Ranjbar, Azadeh Ebrahim-Habibi and Bagher Larijani.* Chapter 11 in: **Pheochromocytoma –A New View of the Old Problem** Edited By: Jose Fernando Martin. ISBN 978-953-307-822-9, Publisher: InTech, Publication date: December 2011

Abstracts

44- Molecular dynamic simulation study on native and glycosylated forms of myoglobin. **Alizadeh J., Ebrahim-Habibi A., Shayesteh A.** *Proceedings of the 15th Physical Chemistry Conference, University of Tehran, Tehran, September 3-6, 2012*

43. Non carbohydrate-based small molecule inhibitors of mammalian alpha-amylase: toward rational design of novel compounds. **Ebrahim-Habibi A., Navidpour L., Hezareh N., Najafian M., Kashani-Amin E., Larijani B.** *Proceedings of the 3rd Strasbourg Summer School on Chemoinformatics– Strasbourg, France, 25–29 June 2012*

42. Flavonoids as human alpha-amylase inhibitors: QSAR analysis. **Navidpour L., Ebrahim-Habibi A.** *Proceedings of the 3rd Strasbourg Summer School on Chemoinformatics– Strasbourg, France, 25–29 June 2012*

41. Molecular Modeling of Pathological Mutations in Proteins: an Application of Structural Bioinformatics in Endocrine Diseases. **Ebrahim-Habibi A, Amoli MM, Abbasi F, Larijani B.** *Journal of the Iranian Chemical Society, 2012, 9, Suppl. 1, A68-A69*

40. Molecular modeling and *in vitro* studies on proposed inhibitor of bacterial alpha-amylase. **Malek MR, Yaghmaei P., Larijani B., Ebrahim-Habibi A.** *Journal of the Iranian Chemical Society, 2012, 9, Suppl. 1, A19*

39. Use of BSA Amyloid Fibrils as a Nanomaterial for Enzyme Immobilization. **Arasteh A., Habibi-Rezaei M., Ebrahim-Habibi A., Moosavi-Movahedi AA.** *Journal of the Iranian Chemical Society, 2012, 9, Suppl. 1, A57*

38. Comparison of molecular dynamic simulation of full length and truncated insulin aggregation. **Chinisaz M., Larijani B., Ebrahim-Habibi A.** *Journal of the Iranian Chemical Society, 2012, 9, Suppl. 1, A22*

37. Amyloid-like aggregate formation in apo-carbonic anhydrase using different alcohols. **Eshaghi A., Sabbaghiyan M., Ebrahim-Habibi A., Nemat-Gorgani M.** *Journal of the Iranian Chemical Society, 2012, 9, Suppl. 1, A104*

36. Neohesperidin Dihydrochalcone, activator of alpha-amylase: a mechanistic study. *Kashani-Amin E., Larijani B., Ebrahim-Habibi A. Journal of the Iranian Chemical Society, 2012, 9, Suppl. 1, A11*

35. Neohesperidine dihydro chalcone is an activator of mammalian alpha-amylase. *Kashani-Amin E., Ebrahim Habibi A., Yaghmaei P., Larijani B. Clinical Biochemistry, 2011 44(Issue 13,Supplement), S22.* (Oral presentation)

34. Organic solvents induce amyloid fibril formation of endopolygalacturonase II, *Chinisaz M.,Fazeli E., Ghasemi A., Larijani B., Ebrahim-Habibi A., Clinical Biochemistry, 2011 44(Issue 13,Supplement), S242*

33- Molecular modeling and in vitro study on proposed lipase inhibitors. *Khalili S., Madadkar-Sobhani A., Larijani B., Ebrahim-Habibi A. Proceedings of The 9th International Congress of Endocrine Disorders (2011, Tehran, Iran) (Oral presentation)*

32- Thioflavin as a potential antidiabetic lead compound. *Najafian M., Yaghmaei P., Parivar K., Larijani B., Ebrahim-Habibi A. Journal of the Iranian Chemical Society, 2011, 8, Suppl. 2, A20*

31-A Molecular Modeling Study on Palmitate Binding Site in Echovirus Coat Protein: Proposing an Antiviral Target. *Ebrahim-Habibi A., Larijani B. Proceedings of the 6th International Symposium on Health Informatics and Bioinformatics, (6th HIBIT_2011), Izmir, Turkey.*

30- Proposal Of Novel Nad⁺-Dependent 15-Hydroxyprostaglandin Dehydrogenase Inhibitors Based On A Molecular Modeling Study. *Ebrahim-Habibi A., Navidpour L., Larijani B. Drugs of the Future. 2010 ,35 (Suppl.A), p 236*

29- Molecular modeling studies on cholesterol esterase inhibitors: proposition of new ligands , and insight into possible additional effects. *Ebrahim-Habibi A., Mohammadi B., Haghpanah V., Larijani B. Proceedings of the 3rd Iranian Conference on Bioinformatics, January 5-6, 2010*

28-Design of new alpha-glucosidase inhibitors based on molecular modeling studies. *Ebrahim-Habibi A., Höltje M., Schmitz B., Höltje H.-D, Journal of the Iranian Chemical Society, 2009, 6, Suppl 1, O-10-423-1 (page:S90) (Oral Presentation)*

27-Targeting acetate kinase: Inhibitors as potential bacteriostatics. *Asgari S., Ebrahim Habibi A., Shariati P. Journal of the Iranian Chemical Society, 2009,6, Suppl.1, S87*

26-Investigation on the interaction between two different drugs (lomefloxacin and colchicines) and human serum albumin: A spectroscopic description. *Homayoni M, Habibi A., Chamani J. Journal of the Iranian Chemical Society, 2009,6, Suppl.1, S88*

25-Synchronize fluorescence study of interaction between human lactoferrin as a carrier and lomefloxacin. *Tafrishi N, Habibi A., Chamani J. Journal of the Iranian Chemical Society, 2009,6, Suppl.1, S88-S89*

- 24- Thioflavin T may influence fibrillation of proteins of different structural properties. *Meratan A., Eshaghi A., Morshedi D., Ebrahim-Habibi A., Nemat-Gorgani M.* **FEBS Journal (2009),276 (Suppl. 1), p155**
- 23-Curcumin inhibits mammalian alpha-amylase : in silico study of the binding mode ***Ebrahim-Habibi A., Hezareh N.*** **Proceedings of VIII European Symposium of The Protein Society 2009**
- 22-Molecular modelling studies on alpha-glucosidase interaction with inhibitors ***Ebrahim-Habibi A., Hölftje M., Schmitz B., Hölftje H.-D.*** **Proceedings of the 2nd Iranian Conference on Bioinformatics, October 8-9, 2008**
- 21-Flavonoids as potential antihyperglycemics: an *in silico* study of their alpha-amylase inhibitory mode. ***Ebrahim-Habibi A.*** ***Drugs of the Future.2008,33(Suppl.A), pp.306-307***
- 20- Inhibitors of insulin amyloid formation: an *in silico* study. ***Ebrahim-Habibi A.*** ***FEBS Journal. 2008.275 (Suppl.1), p.165***
- 19- Thermal aggregation of *Bacillus amyloliquefaciens* alpha-amylase: effect of amino acids. *Ebrahim-Habibi M.-B., Ebrahim-Habibi A., Amininasab M., Nemat-Gorgani M.* ***FEBS Journal. 2008.275 (Suppl.1),p .189***
- 18- Formation of small soluble aggregates may be responsible for irreversible thermal denaturation of yeast hexokinase B. *Ramshini H., Rezaei-Ghaleh N., Ebrahim-Habibi A., Sabbaghian M., Ghasemi A., Saboury AA, Nemat-Gorgani M.* ***FEBS Journal.2008.275(Suppl.1),p.195***
- 17- Dramatic Enhancement of Lysozyme Fibrillogenesis by ATP . *Morshedi D., Nemat-Gorgani M., Ebrahim-Habibi A., Ghasemi A., Sabbaghian M.* ***Protein Science.2008.17(Suppl.1).***
- 16-Investigation of Conformational Change of Glutamate Dehydrogenase in the Presence of TFE. *Sabbaghian M., Nemat-Gorgani M., Ebrahim-Habibi A., Morshedi D., Ghasemi A., Ramshini H.* ***Protein Science.2008.17(Suppl.1).***
- 15-Modification of alpha-Chymotrypsin with Citraconic Anhydride: Changes in Structure and Stability . *Ghasemi A., Nemat-Gorgani M., Morshedi D., Sabbaghian M., Ebrahim-Habibi A., Evini M., Ramshini H.* ***Protein Science.2008.17(Suppl.1).***
- 14-An *in silico* study on the inhibitor selectivity of Cathepsin G. ***Ebrahim-Habibi A.*** ***Archives of Iranian Medicine, Volume 10, Number 4 (Suppl 1), October 2007,p428 (S143-144)***
- 13-Homology modelling of human Maltase enzyme and in silico characterization of its active site. ***Ebrahim-Habibi A., Hölftje M., Brandt B., Hölftje H.-D.*** ***Archives of Iranian Medicine, Volume 10, Number 4 (Suppl 1), October 2007,p420 (S141)***
- 12-Prevention of thermal aggregation of alpha-chymotrypsin by acetylation of its lysine residues. *Ghasemi A., Sabbaghian M., Rezaei-Ghaleh N., Morshedi D., Ebrahim-Habibi A., Nemat-Gorgani M.* ***Archives of Iranian Medicine, Volume 10, Number 4 (Suppl 1), October 2007,p150 (S61).***

11-Aggregation of glutamate dehydrogenase: role of allosteric effectors. *Sabbaghian M., Ghasemi A., Ebrahim-Habibi A., Nemat-Gorgani M. Archives of Iranian Medicine, Volume 10, Number 4 (Suppl 1), October 2007, p221 (S79).*

10- Induction of amyloid fibril formation by alpha-chymotrypsin by two different methods. *Rezaei-Ghaleh N., Morshedi D., Ebrahim-Habibi A., Moosavi-Movahedi AA., Nemat-Gorgani M. Archives of Iranian Medicine, Volume 10, Number 4 (Suppl 1), October 2007, p754 (S243-244).*

9- Modification of lysine residues in lysozyme: Effects on amyloid fibrillation. *Morshedi D., Ebrahim-Habibi A., Ghasemi A., Evini M., Nemat-Gorgani M. Archives of Iranian Medicine, Volume 10, Number 4 (Suppl 1), October 2007, O839, (S271).*

8-The role of phosphate in thermal aggregation of yeast hexokinase II. *Ramshini H., Ebrahim-Habibi A., Saboury AA., Nemat-Gorgani M. Archives of Iranian Medicine, Volume 10, Number 4 (Suppl 1), October 2007, O841, (S271-272).*

7- Inhibition of amyloid fibrillation of lysozyme by indole derivatives. *Morshedi D., Rezaei-Ghaleh N., Ebrahim-Habibi A., Ghasemi A., Ahmadian S. and Nemat-Gorgani M. FEBS journal. Vol 274 Supplement 1, July 2007 –F1-43, p.275*

6-Chemical modification of Lys residues prevents TFE-induced aggregation of alpha-chymotrypsin. *Ghasemi A., Rezaei-Ghaleh N., Ebrahim-Habibi A. and Nemat-Gorgani M. FEBS Journal. Vol 274 Supplement 1, July 2007 –F1-49, p.277.*

5-Effect of amino acids on thermal aggregation of glutamate dehydrogenase. *Sabbaghian M., Ebrahim-Habibi A. and Nemat-Gorgani M. FEBS journal. Vol 274 Supplement 1, July 2007 –F1-50, p.277.*

4-Heat-induced aggregation of a-chymotrypsin: role of hydrophobic and electrostatic Interactions, *Rezaei-Ghaleh N., Ramshini H., Ghasemi A., Ebrahim-Habibi A., Moosavi-Movahedi A and Nemat-Gorgani M. FEBS journal. Vol 274 Supplement 1, July 2007 –F1-149, p.302*

3-TFE-induced aggregation of alpha-chymotrypsin: involvement of hydrophobic and electrostatic interactions. *Rezaei-ghaleh N., Sabbaghian M., Ebrahim-Habibi A., Ghasemi A., Nemat-Gorgani M. FEBS journal vol.273 Supplement 1, June 2006- Abstracts : PP-585.*

2-Prevention of thermal aggregation of glutamate dehydrogenase by polyamines. *Sabbaghian M., Rezaei-ghaleh N., Ebrahim-Habibi A., Ghasemi A., Nemat-Gorgani M. FEBS journal vol.273 Supplement 1, June 2006- Abstracts : PP-597.*

1- Acylation of LYS residues prevents thermal aggregation of glutamate dehydrogenase. *Ghasemi A., Sabbaghian M., Rezaei-Ghaleh N., Morshedi D., Ebrahim-Habibi A., Nemat-Gorgani M. FEBS journal vol.273 Supplement 1, June 2006- Abstracts : PP-600.*

Work and academic experiences:

- Researcher at the R&D section of MPO (Medical Procurement Organization of the Iranian Red Crescent Society) 1998-2006
- Research Associate at the Institute of Biochemistry and Biophysics, University of Tehran, Iran. 2004 –present.
- Assistant Professor (Biochemistry) at the Science and Research Branch of Azad University. 2006-2008
- Assistant Professor and in charge of the Molecular Modeling Group of the Endocrinology and Metabolism Research Institute of the Tehran University of Medical Sciences. 2008-2012.
- Associate Professor and in charge of the Molecular Modeling Group of the Endocrinology and Metabolism Research Institute of the Tehran University of Medical Sciences. 2012-