ZARRIN MINUCHEHR

Systems Biotechnology Department,

National Institute of Genetic Engineering and Biotechnology (NIGEB)

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EXPERIENCE SUMMARY

Associate Professor, National Institute of Genetic Engineering & Biotechnology (2003-present) ·
Founder of Bioinformatics Lab. In National Institute of Genetic Engineering & Biotechnology ·
Founder of Iranian Bioinformatics Society.
Director of research projects in bioinformatics.
Editor of Iranian Journal of Biotechnology, Journal of Science, Modern Genetics, Iranian Journal of Biology.
Editor of Applied Biology Alzahra University Tehran Iran
Editor of the Journal of Cell and Molecular Research JCMR Ferdowsi University of Mashhad, Iran

Teaching experience: Macromolecular Structure, Biophysics, Cellular Biophysics, Bioinformatics, Protein Engineering, Protein structure, Systems Biology.

EMPLOYMENT AND RESEARCH HISTORY

National Institute of Genetic Engineering and Biotechnology Faculty Member Systems

Biotechnology Department September 2003 – Present

Research Projects Director National Institute of Genetic Engineering and Biotechnology

· Propensity analysis for amino acids in loop regions connecting secondary structure in proteins. · Sequence analysis of the exon intron database for DNA hopping.
· Analyzing different proteins used in nanobiotechnology
· Comparison of amino acid preference in prions
· In silico analysis of N-MYC
· In silico analysis of dynein heavy chain family
· Prediction of the secondary structure of Proteins using doublets overlapping information on PDB structures.
· Study of a Biological Network between Endoplasmic Reticulum Stress and Inflammation in Retinal Degenerative Diseases
· Exploring Proteins With The Most Number Of Chameleon Sequences Chameleon In E. Coli · Prediction and Validation of Interactions between Host Proteins Deregulating the Multiple Signaling Cascades in Hepatitis B Virus Related Hepatocellular Carcinoma: Combined Strategies Involving Tools of Bioinformatics and In Vitro Cell Culture System

AWARDS, HONORS AND MEMBERSHIPS

The first Iranian woman to obtain a Ph.D. in Biophysics.

Many grants and fellowships for attending different conferences along with the ISMB/ECCB Best

Presentation Award by the committee of international conference for intelligent systems for molecular biology and the European conference on computational biology.

Vice President of Iranian Bioinformatics Society

Head of Nanotechnology Committee in National Institute of Genetic Engineering &

Biotechnology. Member of Bioethics Committee.

Member of Bioinformatics Department University of Tehran.

Member of Biotechnology Society.

Member of Nanobiotechnology Committee of Iran.

Member of Biophysical Society.

Member of Biochemical Society.

Member of New York Academy of Sciences.

Member of International Hyperthermia Society.

EDUCATION

Ph. D. Biophysics

University of Tehran- 2003

M. Sc. in Biophysics

University of Tehran- 1994

B. Sc. in Microbiology

University of Isfahan -1989

PUBLICATIONS

1. Taghvaei, S., Sabouni, F., & **Minuchehr, Z.** (2022). Identification of Natural Products as SENP2 Inhibitors for Targeted Therapy in Heart Failure. Front Pharmacol, 13, 817990. doi:10.3389/fphar.2022.817990
2. Taghvaei, S., **Minuchehr, Z.**, & Sabouni, F. (2022). Computational drug repurposing of bethanidine for SENP1 inhibition in cardiovascular diseases treatment. Life Sci, 292, 120122. doi:10.1016/j.lfs.2021.120122
3. Asghari Alashti, F., Goliaei, B., & **Minuchehr, Z.** (2022). Analyzing large scale gene expression data in colorectal cancer reveals important clues; CLCA1 and SELENBP1 downregulated in CRC not in normal and not in adenoma. Am J Cancer Res, 12(1), 371-380
4. Taghvaei, S., Sabouni, F., **Minuchehr, Z.**, & Taghvaei, A. (2021). Identification of novel anti-cancer agents, applying in silico method for SENP1 protease inhibition. J Biomol Struct Dyn, 1-15. doi:10.1080/07391102.2021.1880480
5. Taghvaei, S., Sabouni, F., & **Minuchehr, Z.** (2021). Evidence of Omics, Immune Infiltration, and Pharmacogenomic for SENP1 in the Pan-Cancer Cohort. Front Pharmacol, 12, 700454. doi:10.3389/fphar.2021.700454
6. Moradifard, S., **Minuchehr, Z.**, & Ganji, S. M. (2021). An investigation on the c-MYC, AXIN1, and COL11A1 gene expression in colorectal cancer. Biotechnol Appl Biochem. doi:10.1002/bab.2229
7. Bahadori, Z., Shabani, A. A., & **Minuchehr, Z.**
8. (2021). Rational design of hyper-glycosylated human follicle-stimulating hormone analogs (a bioinformatics approach). J Biomol Struct Dyn, 1-12. doi:10.1080/07391102.2021.1924268

9. Ahmadi, H., Nayeri, Z., **Minuchehr, Z.**, Sabouni, F., & Mohammadi, M. (2020). Betanin purification from red beetroots and evaluation of its anti-oxidant and anti-inflammatory activity on LPS-activated microglial cells. PLoS One, 15(5), e0233088. doi:10.1371/journal.pone.0233088
10. Afzali, F., **Minuchehr, Z.**, Jahangiri, S., & Ranjbar, M. M. (2020). Immunopeptidome screening to design An immunogenic construct against PRAME positive breast cancer; An in silico study. Comput Biol Chem, 85, 107231. doi:10.1016/j.compbiolchem.2020.107231
11. Shafaghi, M., Shabani, A. A., & **Minuchehr, Z.** (2019). Rational design of hyper-glycosylated human luteinizing hormone analogs (a bioinformatics approach). Comput Biol Chem, 79, 16-23. doi:10.1016/j.compbiolchem.2019.01.002
12. Mehmankhah, M., Bhat, R., Anvar, M. S., Ali, S., Alam, A., Farooqui, A. . . . & **Minuchehr, Z.,** Kazim, S. N. (2019). Structure-Guided Approach to Identify Potential Inhibitors of Large Envelope Protein to Prevent Hepatitis B Virus Infection. Oxid Med Cell Longev, 2019, 1297484. doi:10.1155/2019/1297484
13. Lari, N., Jalal, R., **Minuchehr, Z.**, & Rajabian Noghondar, M. (2019). Identifying miltefosine-resistant key genes in protein-protein interactions network and experimental verification in Iranian Leishmania major. Mol Biol Rep, 46(5), 5371-5388. doi:10.1007/s11033-019-04992-4
14. Saberi anvar, M., **Minuchehr, Z.**, Shahlaei, M., & Kheitan, S. (2018). Gastric cancer biomarkers; A systems biology approach. Biochemistry and biophysics reports, 13, 141-146.
15. Moradifard, S., Hoseinbeyki, M., Ganji, S. M., & **Minuchehr, Z.** (2018). Analysis of microRNA and Gene Expression Profiles in Alzheimer's Disease: A Meta-Analysis Approach. Sci Rep, 8(1), 4767. doi:10.1038/s41598-018-20959-0
16. Samoudi, M., **Minuchehr, Z.**, Harcum, S. W., Tabandeh, F., Omid Yeganeh, N., & Khodabandeh, M. (2017). Rational design of glycoengineered interferon-beta analogs with improved aggregation state: experimental validation. Protein Eng Des Sel, 30(1), 23-30. doi:10.1093/protein/gzw058
17. Kheitan, S., **Minuchehr, Z.**, & Soheili, Z. S. (2017). Exploring the cross talk between ER stress and inflammation in age-related macular degeneration. PLoS One, 12(7), e0181667. doi:10.1371/journal.pone.0181667
18. Bahramali, G., Goliaei, B., **Minuchehr, Z.**, & Marashi, S. A. (2017). A network biology approach to understanding the importance of chameleon proteins in human physiology and pathology. Amino Acids, 49(2), 303-315. doi:10.1007/s00726-016-2361-6
19. Samoudi, M., **Minuchehr, Z.**, Harcum, S., Tabandeh, F., Omid Yeganeh, N., & Khodabandeh, M. (2016). Rational design of glycoengineered interferon-β analogs with improved aggregation state: experimental validation. Protein Engineering, Design and Selection, 30(1), 23-30.
20. Bahramali, G., Goliaei, B., **Minuchehr, Z.**, & Salari, A. (2016). Chameleon sequences in neurodegenerative diseases. Biochem Biophys Res Commun, 472(1), 209-216. doi:10.1016/j.bbrc.2016.01.187
21. Samoudi, M., Tabandeh, F., **Minuchehr, Z.**, Ahangari Cohan, R., Nouri Inanlou, D., Khodabandeh, M., & Sabery Anvar, M. (2015). Rational design of hyper-glycosylated interferon beta analogs: a computational strategy for glycoengineering. J Mol Graph Model, 56, 31-42. doi:10.1016/j.jmgm.2014.12.001
22. Kheitan, S., Soheili, Z., & **Minuchehr, Z.** (2015). Construction and Validation of a Biological Network for GRP78 Protein and Inflammatory Factors. Genetics in the Third Millennium, 12(4), 3744-3753.
23. Jelokhani-Niaraki, S., Tahmoorespur, M., **Minuchehr, Z.**, & Nassiri, M. (2015). An Ontology-Based GIS for Genomic Data Management of Rumen Microbes. Genomics Inform, 13(1), 7-14. doi:10.5808/GI.2015.13.1.7
24. Allahyari-Fard, N., **Minuchehr, Z.**, & Rahgozar, M. (2015). Novel genetically modified foods and allergenicity assessment of them, case study: Tarom GM rice. Current Nutrition & Food Science, 11(1), 11-15.
25. Zare, M., Hadi, F., **Minuchehr, Z.**, Amani, J., & Salmanian, A. (2014). Effects of missense R84Q mutation on human Pyrroline-5-carboxylate synthase enzyme properties, an in-silico analysis. Journal of Applied Biotechnology Reports, 1(1), 11-16.
26. Shahnazari, P., Sayehmiri, K., **Minuchehr, Z.**, Parhizkar, A., Poustchi, H., Montazeri, G., & Mohamadkhani, A. (2014). The Increased Level of Serum p53 in Hepatitis B-Associated Liver Cirrhosis. Iran J Med Sci, 39(5), 446-451.

27. Reiisi, S., Sanati, M., Tabatabaiefar, M., PourJafari, H., **Minuchehr, Z.**, Shavarzi, A., . . . Hashemzadeh-Chaleshtori, M. (2014). Study of the association of DFNB3 locus with autosomal recessive non-syndromic hearing loss in iranian deaf population using genetic linkage analysis. Journal of Isfahan Medical School, 32(285), 669-677.
28. Mansouri, S., Monajjemi, M., Aghaee, H., Zare, K., & **Minuchehr, Z.** (2013). Molecular dynamic study of human prion protein upon D178N mutation: new perspective to H-bonds, salt bridges and the critical amino acids. Protein Pept Lett, 20(7), 775-780. doi:10.2174/0929866511320070007
29. Asghari Alashti, F., & **Minuchehr, Z.** (2013). MiRNAs which target CD3 subunits could be potential biomarkers for cancers. PLoS One, 8(11), e78790. doi:10.1371/journal.pone.0078790
30. Allahyari-Fard, N., **Minuchehr, Z.**, & Mousawi, A. (2013). Allergenicity study of genetically modified herbicide resistant crops (Bioinformatics Assessment). Bull. Env. Pharmacol. Life Sci, 2(3), 24-32.
31. Akbarzadeh-Sharbaf, S., Yakhchali, B., **Minuchehr, Z.**, Shokrgozar, M. A., & Zeinali, S. (2013). Expression Enhancement in Trastuzumab Therapeutic Monoclonal Antibody Production using Genomic Amplification with Methotrexate. Avicenna J Med Biotechnol, 5(2), 87-95.
32. Shokrgozar, Z., Tayebi, S., **Minucheher, Z.**, & Mohamadkhani, A. (2012). Hepatitis B Virus Genome Asymmetry in Hepatocellular Carcinoma. Middle East Journal of Digestive Diseases, 4(3), 150.
33. Allahyari-Fard, N., **Minuchehr, Z.**, & Mousavi, A. (2012). In Silico Analysis for Allergenicity Assessment of Novel Proteins of Genetically Modified Organisms. Genetics in the 3rd millennium, 10(3), 2846.
34. Akbarzadeh-Sharbaf, S., Yakhchali, B., **Minuchehr, Z.**, Shokrgozar, M. A., & Zeinali, S. (2012). In silico design, construction and cloning of Trastuzumab humanized monoclonal antibody: A possible biosimilar for Herceptin. Adv Biomed Res, 1, 21. doi:10.4103/2277-9175.98122
35. Mohamadkhani, A., Shahnazari, P., **Minuchehr, Z.**, Madadkar-Sobhani, A., Tehrani, M. J., Jazii, F. R., & Poustchi, H. (2011). Protein-x of hepatitis B virus in interaction with CCAAT/enhancer-binding protein alpha (C/EBPalpha)--an in silico analysis approach. Theor Biol Med Model, 8, 41. doi:10.1186/1742-4682-8-41
36. Farazmand, A., Yakhchali, B., Shariati, P., **Minuchehr, Z.**, & Ofoghi, H. (2011). In silico genome-wide screening for TnrA-regulated genes of Bacillus clausii. Iran J Biotechnol.
37. Eskandari, V., Yakhchali, B., & **Minuchehr, Z.** (2010). In-silico prediction of permissive sites of CstH subunit of E. coli CS3 pili for insertion of foreign peptides. Iranian Journal of Biology.
38. Mohammadkhani, A., **Minuchehr, Z.**, Madadkar-Sobhani, A., Sotoudeh, M., Jazii, F., & Malekzadeh, R. (2009). W1803 3D Structure of Protein-X of Hepatitis B Virus. Gastroenterology, 136(5), A-865.
39. Haji-Mohammadi, H., **Minuchehr, Z.**, & Madadkar-Sobhani, A. (2009). In silico assessment shows that Iranian Bt rice is not allergenic. Journal of Biosafety, 1(2), 17-26.
40. Mohamadkhani, A., **Minuchehr, Z.**, Sobhani, A., Sotoudeh, M., Poustchi, H., & Jazii, F. (2008). PP-010 3D structural and dynamic features of Protein-x of hepatitis B virus. International Journal of Infectious Diseases, 12, S58.
41. Mahdevar, G., Rahimi, A., & **Minuchehr, Z.** (2008). Predictionof location and type of B-turns of a protein using self organizing neural network. Journal of Science (University of Tehran, 34(3), 55.
42. Soheili, Z., **Minuchehr, Z.**, Samiei, S., Ataei, Z., Kavari, M., & Talebian, A. (2006). The investigation of phosphatidylinositol 3-kinase (PI3K) isoforms which express by human prostate cancer cell lines, PC3 and DU145. Feyz Journals of Kashan University of Medical Sciences, 10(3).
43. Soheili, Z., & **Minuchehr, Z.** (2005). Molecular Motors. Modern Genetics, Winter (1), 9-25.
44. **Minuchehr, Z.**, & Goliaei, B. (2005). Propensity of amino acids in loop regions connecting beta-strands. Protein Pept Lett, 12(4), 379. doi:10.2174/0929866053765617
45. Soheili, Z., & **Minuchehr, Z.** (2004). Bioinformatics and the Genome Project. Shargh(127), 15.
46. **Minuchehr, Z.**, & Goliaei, B. (2004). Protein Databases. Iranian Journal of Pharmacology & Therapeutics (IJPT), 3(1), 1-11.
47. **Minuchehr, Z.**, & Goliaei, B. (2003). High tendency for amino acid neighbors in alpha helices. Journal of the Iranian medical sciences. Autumn (35), 469.
48. **Minuchehr, Z.**, & Goliaee, B. (2003). THE STUDY OF TENDENCY FOR AMINO ACID NEIGHBORS IN ALPHA HELICES. Razi Journal of Medical Sciences, 10(35), 469-475.

49. Goliaei, B., & **Minuchehr, Z.** (2003). Exceptional pairs of amino acid neighbors in alpha-helices. FEBS Lett, 537(1-3), 121-127. doi:10.1016/s0014-5793(03)00105-4
50. **Minuchehr, Z.**, & Goliaei, B. (2000). Local propensity for different locations of an alpha-helix. BIOCHEMICAL SOCIETY TRANSACTIONS, 28(5), A147-A147.
51. Goliaei, B., & **Minuchehr, Z.** (1999). Inhibition and recovery of GM-CSF production in the lung after hyperthermia. Int J Hyperthermia, 15(6), 541-547.

CONFERENCE PRESENTATIONS

· Kheitan S, Minuchehr Z. Prokaryotic ancestors of Dynein Heavy Chain Family, First International and 9th National Biotechnology Congress. 2015. Tehran, Iran.

· Saberi Anvar M, Minuchehr Z. Identification of Effective Target Proteins in Gastric Cancer, First International and 9th National Biotechnology Congress. 2015. Tehran, Iran.

· AllahyariFard N., Minuchehr Z., Mousavi A.,The Role of Bioinformatics in Allergenicity Assessment of Recombinant Proteins, 15thInternational Congress of Immunology. 2013. Milan, Italy.

· AllahyariFard N., Minuchehr Z., Mousavi A.,Comparison of Allergen Databases for In SilicoAllergenicity Assessment, International Work-Conference on Bioinformatics and Biomedical Engineering (IWBBIO). 2013. Granada, Spain.

· AllahyariFard N., Minuchehr Z., Mousavi A.,In SilicoAllergenicity Assessment of Novel Proteins Derived from GMHR Crops, International Work-Conference on Bioinformatics and Biomedical Engineering (IWBBIO). 2013. Granada, Spain.

· AllahyariFard N., Minuchehr Z., Mousavi A., Bioinformatics Analysis for Allergenisity Assessment of Cry1Ab Proteins in Iranian Genetically Modified Rice, 11th International Congress of Immunology & Allergy. 2012. Tehran, Iran.

· AllahyariFard N., Minuchehr Z., Insilico Analysis for Allergenicity Assessment of Novel Proteins of GMOs. First National Conference on Computational Science. 2012. Damghan. Iran.

· AllahyariFard N., Minuchehr Z., Mousavi A.,In silico Analysis for Allergenicity Assessment of Mutated epsps Proteins in Canola Resistant Against Glyphosate. 17th National & 5th International Iranian Biology Conference. 2012. Kerman. Iran.

· AkbarzadehSharbaf S., Yakhchali B., Minuchehr Z., Shokrgozar M. A., Zeinali S. Practical Guidelines on Increasing the Gene Copy Number and Obtain Producer Stable Cell Lines in Trastuzumab Therapeutic Monoclonal Antibody Production.7th National Biotechnology Congress of Iran. 2011. Tehran, Iran.

· AkbarzadehSharbaf S., Yakhchali B., Minuchehr Z., Shokrgozar M. A., Zeinali S. The Expression Level of HER2 Receptor in Breast Tumor Cells .7th National Biotechnology Congress of Iran. 2011. Tehran, Iran.

· Rahimi R., MahdevarGh.,Minuchehr Z.,Madadkar-Sobhani A. Selection of Appropriate Scoring Matrix for Finding Templates in Homology Modeling. 3rd Iranian Conference on Bioinformatics. 2010. Tehran, Iran

· Ahangari Cohan R. , Madadkar-Sobhani A. , Norouzian D. , Khanahmad H. , Roohvand F. , Aghasadeghi M. R. , Minuchehr Z. Rational Site Selection for Cysteine Specific PEGylation Using Bioinformatics: Erythropoietin as a Case Study. 3rd Iranian Conference on Bioinformatics. 2010. Tehran, Iran

· Taghizadeh M. , Minuchehr Z. , Madadkar-Sobhani A. , Goliaei B.Creating an Exact Model of 3D Protein Strucutre for in Silico Site Directed Mutation.3rd Iranian Conference on Bioinformatics. 2010. Tehran, Iran

· Kheitan S. , Minuchehr Z. , Madadkar-Sobhani A. , Darvishalipoor S., Steipe B.Pattern Matching of Dynein Heavy Chain Family. 3rd Iranian Conference on Bioinformatics. 2010. Tehran, Iran

· Farazmand A.,Yakhchali B. , Minuchehr Z. , Shariati P.Genome-Wide Screening for TnrA Regulated Genes of Bacillus Clausii Associated with a TnrA Box. 3rd Iranian Conference on Bioinformatics. 2010. Tehran, Iran

· Nouri A., Minuchehr Z.,Madadkar-Sobhani A., BambaeiB.AlcanivoraxBorkumensis Whole Genome

Analyis for P450 Like Proteins. 3rd Iranian Conference on Bioinformatics. 2010. Tehran, Iran

· AkbarzadehSharbaf S., Zeinali S., Minuchehr Z., Shokrgozar M A, Yakhchali B. Structural Studies of Therapeutic Monoclonal Antibodies Using IMGT/3D Structure; Tools and Database. 3rd Iranian Conference on Bioinformatics. 2010. Tehran, Iran

· Afzalifar R, Madadkar-Sobhani A., Minuchehr Z, Goliaei B.TITAN Protein Secondary Structure Assignment by Emphasis on Tight Turns. 3rd Iranian Conference on Bioinformatics. 2010. Tehran, Iran

· Lashkarian H. E., Raheb J, Shahzamani K, Minuchehr Z. , Bardania H. Cholesterol Oxidase Gene Analysis Derived from a Native Rhodococcus sp. Strain 501. 3rd Iranian Conference on Bioinformatics. 2010. Tehran, Iran

· Shamila D. Alipoor, Zarrin Minuchehr, Armin Madadkar-Sobhani, MehranMiroliaei. Analysis of Core structure in AlcoholDehydrogenases. 52nd Annual Meeting of theCanadian Society for Biochemistry, Molecular and Cellular Biology Protein Folding: Principles and Diseases. 2009. Ontario, Canada.

· Ghanbari L., Didehvar F., Minuchehr Z., Madadkar-Sobhani A. Elongation Vecotr as a Parameter to determine the hydrophobicity degree of proteins. 6th National Biotechnology Congress of Iran. 2009. Tehran. Iran.

· MostafaAfshari, Zarrin Minuchehr, Armin MadadkarSobhani, Ali HaghNazari, Ahmad Parsian and BahramGoliaei.Comparison for the Three Protein Representative Selection Methods: PDB REPRDB, ASTRAL and PISCES, 16th Annual International Conference on Intelligent Systems for Molecular Biology. 2008. Toronto, Canada.

· ForoughmandArabi M. H., Minouchehr Z., Goliaei B. Which characteristic forces a protein to choose the folded shape?2nd Iranian Conference on Bioinformatics. 2008. Tehran, Iran

· Sarial. S., Minuchehr. Z.,Kheitan. S. A Bioinformatics Study on Brca2 Protein; Trying to Find a Relation between Gene Mutation and the Mo. 2nd International Stududent Conference of Biotechnology.2008. Tehran. Iran.

· Minuchehr.Z.,Farzami.B., Sobhani.A.M, Jahanshahi.M and Goliaei.B. A genome wide analysis of guanines defining the best sequence for DNA hopping in Nanotechnology and its applications. 2007. Sharjah, United Arab Emirates.

· Jahanshahi M., Sanati.M.H., Minuchehr.Z., Hajizadeh S., Babaei Z. Controlled fabrication of gelatin nanoparticles as drug carriers. inNanotechnology and its applications. 2007. Sharjah, United Arab Emirates. full paper, page 228-232

· Minuchehr.Z.,Goliaei.B. Four helix design using amino acid doublets the 3-rd Moscow conference on computational molecular biology. inthe 3-rd Moscow conference on computational molecular biology. 2007. Moscow, Russia.

· Shahsavandi.S.,Minuchehr.Z., Ebrahimi.M.M., Ghorashi.S.A., The genome sequence analysis of H5N1 influenza virus isolated from swan outbreak in Iran, in 15th World Veterinary Poultry Congress. 2007: Beijing China.

· Minuchehr.Z.,Farzami.B., Sobhani.A.M., Jahanshahi.M.,Goliaei.B. DNA as a Nano Electronic Device. inFirst Nano Technology in Environments. 2007. Isfahan Iran, full paper, page1051-1057

· Shahsavandi S., Minuchehr.Z.,EbrahimiM.M. Molecular characterization of H5N1 influenza virus isolated from Iran. inFourth Iranian Congress of Virology. 2007. Pasteur Institute of Iran,Tehran, Iran.

· Latifi-Navid S., Minuchehr.Z.,Ghoreshi S.A. In silico characterization and modeling of Helicobacter Pylori FtsZ: A potential therapeutic target.in7th Helicobacter Pylori Seminar. . 2007. Tehran, Iran.

· Shahnazari.P.,Ahmadian.G., Minuchehr.Z., Sobhani A.M., Parivar.K., Ghandili.S., Khaytan.S. Characterization of a novel chitinase from B.Pumilus(Chis) using bioinformatics methods.in9th Iranian Congress of Biochemistry & the 2th International Congress of Biochemistry and Molecular Biology. 2007. Shiraz, Iran.

· Hamid M., Minuchehr.Z.,Akbari M.T. Phylogenetic and migration analysis of Iranian populations based on the Connexin-26 mutations.in9th Iranian Congress of Biochemistry & the 2th International Congress of Biochemistry and Molecular Biology. 2007. Shiraz, Iran.

· Ghamkhar M., Goliaei.B.,Minuchehr Z.Relative entropy calculation for different positions of amino acid in beta strands. inin 9th Iranian Congress of Biochemistry & the 2th International Congress of Biochemistry and Molecular Biology. 2007. Shiraz, Iran.

· Khaytan S., Minuchehr.Z., Sobhani A.M., Darvishalipur S., Sanaty M.H., Jahanshahi M. Phylogenetic analysis of dynein heavy chains on the basis of motor domain in mammals.in5th National Biotechnology Congress of Iran. 2007. meeting conference hall, Tehran, Iran, full paper

· Hajimohammadi H., Minuchehr.Z., Sobhani A.M., Taeb M., Goliaei B. Bioinformatic analysis of cry toxin sequences which known in 2006 in order to study safety and potential cross reactivity for human. in5th National Biotechnology Congress of Iran. 2007. Summit meeting conference hall, Tehran, Iran, full paper

· Babaei.Z.,Jahanshahi.M., Sanati M.H., Minuchehr.Z.Fabrication and optimization of Gelatin nanoparticles for delivering of anti-cancer drug in 5th National Biotechnology Congress of Iran. 2007. Summit meeting conference hall, Tehran, Iran, full paper

· Valaee S., Minuchehr.Z., Shojaei M., Sobhani A.M., Shahnazari P., Khaytan S. CPG island methylation ananlysis of N-MYC in Neuroblastomain 1st International congress on Health Genomics and Biotechnology. 2007. Summit meeting conference hall, Tehran, Iran.

· Darvishalipoor S., MinuchehrZ., Miroliaei M., Sobhani A.M.Molecular phylogeny of alcohol dehydrogenase gene and protein in fungi in 1st International congress on Health Genomics and Biotechnology. 2007. Summit meeting conference hall, Tehran, Iran.

· Hajimohammadi.H.,Minuchehr.Z., Sobhani.A.M., Taeb M., Goliaei B. In silico analysis of amino acids tendency in food plant allergenes. In 1st International congress on Health Genomics and Biotechnology. 2007. Summit meeting conference hall, Tehran, Iran.

· Goliaei B., Minuchehr.Z.,Nikbakht H., Goudarzi M. Sequence analysis of the secondary structures of proteins.in8th Iranian Congress of Biochemistry. 2005.

· Ghamkhar M., Minuchehr.Z.,Goliaei B. Propensity calculation for amino acids in different positiions in beta strands.in8th Iranian Congress of Biochemistry. 2005.

· Minuchehr.Z.,Eefani.M., FatollahiRad.S., Mahdavi.T., Sadat sabet.F., Taghi.A., Goliaei.B. Global propensity of amino acids in prion proteins. in12th International Congress on Intelligent Systems for Molecular Biology & 3th European Conference on Computational Biology. 2004. Scottish Exhibition & Conference Center, Glasgow, Scotland, UK.

· Minuchehr.Z.,Goliaei.B. Entropy in loop regions connecting beta structures. inIPG'04 Integrative Post genomic a multidisplinary approach to living systems. 2004. Lyon, France

· Minuchehr.Z.,Rahmandad.T., Minuchehr.S. andGoliaei.B. Propensity of amino acids in loop regions connecting beta strands in 4th European biophysics congress. 2003. Alicante, Spain.

· Goliaei.B.,Minuchehr.Z.Relative Entropy: A more Accurate Measurement Compared to the Propensity Calculation for Amino Acids in Different Helical Positions. inMolecular And Cellular Proteomics, HUPO 2nd Annual and IUBMB XIX World Congress. 2003. Montreal, Canada.

· Nikbakht H., Minuchehr.Z.,Sobhani A.M., Goliaei B.Developing a software for isolating sequences with Helix secondary structure using DSSP. In First Iranian bioinformatics Conference Institute of Biochemsitry and Biophysics. 2003: University of Tehran, Iran.

· Minuchehr.Z.,Goliaei.B. Hinderance in amino acid neighboring in helical structures. in46th Biophysical society Annual Meeting 2002. San Francisco, California.

· Kazemzadeh.M.,Rahmandad.T., Minuchehr.Z.X-Pro and Pro-X Amino Acids Energy Calculation in different Helical Positions of a 14 Residue Poly Ala Helix. inExploring Modern Computaional Chemistry EMC2. 2002. University of Nottingham, UK.

· Minuchehr.Z.,Goliaei.B. Acid Propensity for short Loop Regions in Helix-Loop-Helix Structures in Biomics, Gene to Protien to structure to drug. 2001. Congress Centre Messe Frankfurt, Germany.

· Minuchehr.Z.,Goliaei.B. Local Propensity for different locations of an α-helix in 18th International Congress of Biochemistry and Molecular Biology. 2000. Birmingham, UK.

· Minuchehr Z., GoliaeiB. Comparison between local propensity of positions in alpha helices calculated via doublet and singlet frequencies of amino acids.inFirst Iranian Congress of Biochemistry and Biophysics 2000. University of Tehran, Iran.

· Minuchehr.Z.,Goliaei.B. The Relative Preference value for the two ends of alpha helices using a window of two amino acids. in6th International Symposium Protein Structure Function Relationship. 1999. Research Institute of Chemistry University of Karachi, Pakistan.

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