

Najaf Allahyari Fard



1. PERSONAL INFORMATION

Name: Najaf Allahyari Fard

Date of birth: 11/07/1973

Marital Status: Married, Three children

Present Position: Faculty Member of NIGEB, Systems Biotechnology Department

Address: National Institute of Genetic Engineering and Biotechnology (NIGEB), Shahrak-e- Pajooresh, 15th Km, Tehran–Karaj Highway, Tehran, Iran.

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2. EDUCATION

Ph. D. in Biology - Molecular Genetics, NIGEB, IRAN

3. ACTIVE RESEARCH PROJECTS

1. *In silico* Allergenicity Assessment of Recombinant Proteins.
2. Comparative Study of Allergen Databases for *In Silico* Analysis Allergenicity Potential of Recombinant Proteins.
3. Design an Iranian Database for Bioinformatics Allergenicity Assessment of Novel Proteins Derived from Genetically Modified Organisms (IRALLER).
4. Identification of IgE Suppressive Motif (ISM) in Probiotics Bacteria (Lactobacillus and Bifidiobacter) for Strain Development of Antiallergic Probiotics.
5. Investigation of Various Aspects of L-Asparaginase-2 Allergenicity and Propose Methods for Reduction of Allergenicity.

4. MEMBERSHIPS

1. Member of Iranian Biotechnology Society(IBS), from 2005
2. Member of Iranian Genetic Society(IGS), from 2007
3. Member of Iranian Society of Biology, from 2009
4. Member of Iranian Society of Bioinformatic, from 2012
5. Member of Iranian Society for Immunology and Allergy, from 2012

6. Member of Iranian Society for Technology Management, from 2013
7. Member of Iranian Society for Probiotics, from 2013

5. WORKSHOPS

1. Genome analysis tools: genome workbench and seqVISTA, NIGEB, 2005
2. Commercialization of research in biotechnology, NIGEB, 2006
3. Citation management, NIGEB, 2006
4. Zotero: research tool for collect, manage, cite, and share research sources, NIGEB, 2009
5. Real time-PCR, Pasteur institute of IRAN, 2010
6. Phylogenetic Tree, NIGEB, 2010
7. Molecular determination of secondary metabolites in medicinal plant, NIGEB, 2010
8. Introduction to Cytogenetic Techniques, Molecular Cytogenetic and their applications, NIGEB, 2011
9. Application of TET induced systems for Control of Gene Expression, NIGEB, 2011
10. Paper Writing in English and Persian, NIGEB, 2011
11. Molecular Cloning and Transformation of Bacteria, S. B. U., 2011
12. DNASIS MAX, Pasteur institute of IRAN, 2011
13. Expression and Optimization of Recombinant Protein in Prokaryotic System, Pasteur institute of IRAN, 2011
14. Optimization and Purification of Recombinant Protein, Pasteur institute of IRAN, 2011
15. Passive Defence, NIGEB, 2011
16. FPLC and its Application in Biology, Baqiatallah University of Medical Science, 2011
17. First International Workshop on Bioethics and Ethical Aspect of Biosafety, NIGEB, 2011
18. Problem Formulation: A Strategic Approach to Risk Assessment of GMOs, Trieste, Italy, 2012
19. Bioinformatics, Pasteur institute of IRAN, 2013
20. Linux, AutoDock 4 and AutoDock Vina, Tarbiat Modarres University, 2013
21. Docking, Doilab Centre and Biopharma Group, 2015
22. Molecular Dynamic, Doilab Centre and Biopharma Group, 2015
23. Focus on Peer Review, Nature Masterclasses online course, 2018

6. PUBLICATIONS

1. Allahyari Fard N. Minuchehr Z. Mousavi A. *In Silico* Analysis for Allergenicity Assessment of Novel Proteins of GMOs. Genetic in Three Millennium. 2012
2. Allahyari Fard N. Minuchehr Z. Mousavi A. Allergenicity Study of Genetically Modified Herbicide Resistant Crops (Bioinformatics Assessment). Bulletin of Environment, Pharmacology and Life Sciences. 2012
3. Allahyari Fard N. Study of Islamic Views about Consumption of GMO Products. Journal of Medical Ethics and History of Medicine. 2013
4. Allahyari Fard N. Minuchehr Z. Rahgozar M. Novel GM Foods and Allergenicity Assessment of Them, Case Study: Iranian GM Rice. Current Nutrition and Food Science. 2015

5. Allahyari Fard N. Minucmehr Z. Bioethics Principles and Genetically Modified Organisms. Journal of Environmental Science and Technology (JEST). submitted.
6. Allahyari Fard N. Minucmehr Z. Owrang A. Fazilati M. Allergen Sequence Databases and Determination of Suitable Databases for Bioinformatics Allergenicity Assessment of Recombinant Proteins.
7. Allahyari Fard N. Minucmehr Z. Rahgozar M., IRALLER: An Integrated Allergen Sequence Database for Allergenicity Assessment of Recombinant Proteins. Nucleic Acid Research (NAR), Database Issue, Submitted.
8. Allahyari Fard N. Minucmehr Z. Rahgozar M., Comparative Study of Allergen Sequence Databases, Genomics and Computational Biology Special Issue, Submitted.
9. Rahmani N. Allahyari Fard N. Ebrahimi M. Minucmehr Z. Niazi A., Mansour Ebrahimi, Unravelling Over-Represented Amino Acids in Protein Structure of Allergen Proteins; a Large-Scale Study, Journal of Cell and Molecular Research, 2016.
10. Rahmani N. Allahyari Fard N. Ebrahimi M. Minucmehr Z. Niazi A., Classification of plant allergens, Submitted.
11. Allahyari Fard N. Ehghaghi A. Zamani MR. Minucmehr Z., Investigation of Plant Aeroallergens Cross Reactivity; 92% of Plant Aeroallergens have Cross Reactivity with Other Known Allergens, Submitted.

7. PROCEEDINGS/ABSTRACTS

1. Nahid Javanshir, Najaf Allahyari Fard, Sepideh Razani, Gholamreza Ahmadian, Behnam Nazari, Sepideh Razani, Genome wide screening of lactobacillus spp. and comparative study on sortase dependent proteins, 6th Asian Federation of Societies for Lactic Acid Bacteria International Symposium (AFSLAB), Iran, 2018.
2. Sepideh Razani, Gholamreza Ahmadian, Najaf Allahyari Fard, Behnam Nazari, Nahid Javanshir, Genome-wide screening of sortase in lactobacillus strains, 6th Asian Federation of Societies for Lactic Acid Bacteria International Symposium (AFSLAB), Iran, 2018.
3. Behnam Mortazavi, Najaf Allahyari Fard, Farid Heidari, Evaluating and designing contraceptive vaccine and recombinant fusion protein based on IZUMO, SPRASA and PH-20 epitopes, 8th International Congress on Biology, Iran, 2018.
4. Esmail Ebrahimie, Ali Niazi, Zarrin Minucmehr, Bijan Bambai , Najaf Allahyari Fard, Nassim rahmani, Investigation and Suggestion of Allergenicity Reduction from Osmotin/thaumatococcus-like superfamily, ICIA, 2018, Iran.
5. Najmeh Ghasemi, Najaf Allahyari Fard, Docking of Developing Tubulin Inhibitors Drugs, 12th International Breast Cancer Congress, SBU, Iran, 2018.

6. Najmeh Ghasemi, Najaf Allahyari fard, Screening of the Interaction Tubulin and Tubulin Ligands and Determination of the Best Anticarcinoma Medicinal Candidate, 12th International Breast Cancer Congress, SBU, Iran, 2018.
7. Homayoun pourhoseyni, Najaf Allahyari Fard, Negar Balmeh, Investigation and Allergenicity Reduction of Profilin and PR-10 Panallergens Based on Molecular and Structural Docking, 2nd international and 10th national biotech. cong., Iran, 2017.
8. Ali Dehghanian, Najaf Allahyari Fard, Mohammad Reza Zamani, Investigation of protein-protein interaction for alpha-glucosidase and study of its inhibitors for finding diabetes type2 treatment, 2nd international and 10th national biotech. cong., Iran, 2017.
9. Najaf Allahyari Fard, Atefeh Ehghaghi, Mohammad Reza Zamani, Investigation and Design a Comprehensive Secondary Database of Plant Aeroallergens, International Conference on Intelligent Biology and Medicine (ICIBM 2016), Houston, TX, USA.
10. Nassim Rahman, Najaf Allahyari Fard, Bijan Bambai, Zarrin Minuchehr, Esmaeil Ebrahimie, Ali Niazi, The most important plant allergen is classified into 10 superfamilies, International Conference on Intelligent Biology and Medicine (ICIBM 2016), Houston, TX, USA.
11. Nassim rahmani, Najaf Allahyari Fard, Bijan Bambai, Zarrin Minuchehr, Esmaeil Ebrahimie, Ali Niazi, Reduction of allergenicity from Bet v 1, great plant allergen superfamily through bioinformatics, The 6th Conference on Bioinformatics, Iran, 2016.
12. Nassim rahmani, Najaf Allahyari Fard, Bijan Bambai, Zarrin Minuchehr, Esmaeil Ebrahimie, Ali Niazi, Study and Design of the Secondary Database of Plant Allergens, The 6th Conference on Bioinformatics, Iran, 2016.
13. Ameneh rezvani sharif, Zarrin minuchehr, Najaf Allahyari Fard, Genome wide CpG analysis of Lactococcus and Bifidobacteria species, The 6th Conference on Bioinformatics, Iran, 2016.
14. Rahmani N. Allahyari Fard N. Ebrahimi M. Minuchehr Z. Niazi A., Classification of plant allergens, 2nd International & 14th Iranian Genetics Congress, Iran, 2016.
15. Ehghaghi A. Allahyari Fard N. Zamani MR. Minuchehr Z., Investigation of Cross Reactivity of Plant Aeroallergens, snccs, Iran, 2016.
16. Allahyari Fard N. Ehghaghi A. Zamani MR. Minuchehr Z., Design a Comprehensive Database of Aeroallergens, the 16th ICI, Melbourne, Australia, 2016.
17. Allahyari Fard N. Rahmani N. Ebrahimi M. Minuchehr Z. Niazi A., Classification of plant allergens, the 16th ICI, Melbourne, Australia, 2016.
18. Allahyari Fard N. Ehghaghi A. Zamani MR. Minuchehr Z., Investigation of Plant Aeroallergens Cross Reactivity; 92% of Plant Aeroallergens have Cross Reactivity with Other Known Allergens, the 16th ICI, Melbourne, Australia, 2016.
19. Allahyari Fard N. Ehghaghi A. Zamani MR. Minuchehr Z., Investigation and Design a Comprehensive Secondary Database of Aeroallergens, 13th International Congress of Immunology and Allergy of Iran, 2016.
20. Allahyari Fard N. Cross reactivity of Microbial Allergens Using Allergen Sequence Databases, ISM, Iran, 2015.

21. Rezvani A. Allahyari Fard N. Minucmehr Z., Study of Immunosuppressive Motifs Against Allergy in Probiotic Bacteria, ISM, Iran, 2015.
22. Shafiei. M. Minucmehr Z. Khaniki Gh. Allahyari Fard N. AP24 Introduced into Rice (*Oriza sativa*) is Allergen; Using Bioinformatics Analysis. APICENS Japan, 2015.
23. Allahyari Fard N. Minucmehr Z. Rahgozar M., IRALLER: a Comprehensive Web Server for Bioinformatics Allergenicity Assessment of Novel Proteins. IWBBIO, Spain, 2015.
24. Allahyari Fard N. The Necessity for Improvement of the Algorithms Used for In Silico Allergenicity Assessment of Novel Proteins. IWBBIO, Spain, 2014.
25. Allahyari Fard N. Minucmehr Z. Allergenicity evaluation of 8 genes most introduced into crop plants; a bioinformatics approach, 12th International Congress of Immunology and Allergy of Iran, 2014.
26. Allahyari Fard N. Minucmehr Z. Neuroinformatics Databases, Medical University of Ahwaz, Iran, 2014.
27. Shafiei M. Minucmehr Z. Khaniki Gh. Allahyari Fard N., Bioinformatics Allergenicity assessment of hygromycin phosphotransferase (hpt). Bskonf, Iran, 2014.
28. Allahyari Fard N. Minucmehr Z. Mousavi A. *In Silico* Allergenicity Assessment of Novel Proteins Derived form GMHR Crops. IWBBIO, Spain, 2013.
29. Allahyari Fard N, Mohammadi J, Mahdavian H. The Role of Scientific NGOs in Development and Progress in Iran. Iran, 2013.
30. Allahyari Fard N. Minucmehr Z. Mousavi A. Evaluation of Transgenic Rice; A Bioinformatics Based Approach. 2nd Biotechnology World Congress. UAE, 2013.
31. Allahyari Fard N. The Role of Bioinformatics in Allergenicity Assessment of Recombinant Proteins. 15th International Congress of Immunology – ICI. Italy. 2013
32. Allahyari Fard N. Minucmehr Z. Plant Food Allergens in Allergen Databases. 21st National Congress of Food Science and Technology. Shiraz University, Iran, 2013.
33. Allahyari Fard N. Tarom Genetically Modified Rice is Non Allergenic. 7th International Rice Genetics Symposium (RG7). Manila, Philippines, 2013.
34. Allahyari Fard N. Minucmehr Z. Study of Allergen Protein Families of Plant Food in Allergen Sequence Databases. International Conference on Life Science & Biological Engineering. Osaka, Japan, 2013.
35. Allahyari Fard N. Minucmehr Z. Mousavi A. Comparison of Allergen Databases for *In Silico* Allergenicity Assessment. IWBBIO, Spain, 2013.
36. Allahyari Fard N. Environmental Risk Assessment of Transgenic Rapeseed Having Mutated EPSPS for Resistant to Glyphosate, The 3rd International Conference on Environmental Planning and Management, 2013.
37. Allahyari Fard N. Study of Transgenic Plants Application in Bioremediation, Sharif University of Technology, 2013.
38. Allahyari Fard N. Design of DNA Chips for Detection of Unidentified Genetically Modified Organisms; an Integrated Bioinformatics and Microarray Approach, 2013.
39. Allahyari Fard N. Bioethical Aspects of Brain Death and Coma. 7th neurogenetics congress. Iran, 2013.

40. Allahyari Fard N. Relation between Biosafety, GMOs and Bioethics, 1th National Genetic Resources Congress, Iran, 2012.
41. Allahyari Fard N. Minucmehr Z. Mousavi A. Bioinformatic Analysis for Allergenicity Assessment of Cry1Ab Protein in Iranian Genetically Modified Rice, 11th International Congress of Immunology and Allergy of Iran, Iran, 2012.
42. Allahyari Fard N. Minucmehr Z. Mousavi A. Bioinformatic Analysis for Allergenicity Assessment of CP4 EPSPS Proteins in Glyphosate Resistant Crops, 11th International Congress of Immunology and Allergy of Iran, Iran, 2012.
43. Allahyari Fard N. Allergen Databases for Allergenicity Assessment of GMO Novel Proteins, 11th International Congress of Immunology and Allergy of Iran, , Iran, 2012.
44. Allahyari Fard N. Challenges and Strategies for Commercialization of Genetics and Biotechnology, 12th Iranian Genetics Congress, Iran, 2012
45. Allahyari Fard N. Minucmehr Z. Mousavi A. Identification and Classification of GMPs Online Databases. 4th Bioinformatic National Conference. Iran, 2012
46. Allahyari Fard N. Minucmehr Z. Mousavi A. Study of Most Important Databases for *In Silico* Allergenicity Assessment of GMOs. 4th Bioinformatic National Conference. Iran, 2012.
47. Allahyari Fard N. Acceptance of Genetically Modified Organism in Islam. 1st Biotechnology World Congress. Dubai, U.A.E. 2012.
48. Allahyari Fard N. Minucmehr Z. Mousavi A. *In silico* Analysis for Allergenicity Assessment of Mutated epsps Proteins in Glyphosate Resistant Canola, Case Study: Genetically Modified Canola in NIGEB. The 17th National & International Iranian Biology Congress. Kerman, Iran. 2012
49. Allahyari Fard N. Bioethical Aspect of Genetically Modified Organisms. 3rd Iranian Agricultural Biotechnology Congress. Ferdowsi U.M., 2012.
50. Allahyari Fard N. Risk Assessment of GMOs via Problem Formulation Approach. 3rd Iranian Agricultural Biotechnology Congress. Ferdowsi U.M., 2012
51. Allahyari Fard N. Study of Status about World GMPs Production. 3rd Iranian Agricultural Biotechnology Congress. Ferdowsi U.M., 2012.
52. Allahyari Fard N. Production of GMPs and Environment Protection. 3rd Iranian Agricultural Biotechnology Congress. F.U.M, 2012.
53. Allahyari Fard N. Minucmehr Z. *In Silico* Analysis for Allergenicity Assessment of Novel Proteins of GMOs. First National Conference on Computational Science. Damghan University, 2012.
54. Allahyari Fard N. Minucmehr Z. Study & Design of an Allergen Database for *In Silico* Analysis of Allergenicity Assessment of Novel Proteins. First National Conference on Computational Science. Damghan University, 2012.
55. Allahyari Fard N, Mohammadi J, Abbasi R. Balanced Development of Science and Technology and Study Iranian Scientific Comprehensive Map. Iramot Conference, Iran, 2012.
56. Allahyari Fard N. Study and Propose Principles for Sustainable Biotechnology. 2nd National Biology Congress. Iran, 2012.

57. Allahyari Fard N. Jurisprudential Views of Consumption of GMO Products, Second International Congress of Bioethics, Iran, 2011.
58. Allahyari Fard N. Introduction to Sustainable Biotechnology, 7th National biotechnology Congress of Iran, 2011.
59. Allahyari Fard N. Bioethical Principles in Biotechnological Researches, 7th National biotechnology Congress of Iran, 2011.
60. Allahyari Fard N. Situation of Biotechnology in Comprehensive Scientific of Iran, 7th National biotechnology Congress of Iran, 2011.
61. Allahyari Fard N. Review of Comprehensive Scientific of Iran, 1st International Conference on Management of Technology, Iramot Conference, Iran, 2011.
62. Allahyari Fard N. Necessity of Developing New and Strategic Technologies in Upstream Legal Documents, 1st International Conference on Management of Technology, Iramot Conference, Iran, 2011.
63. Allahyari Fard N. Suitable Organizational Structure for Knowledge Based Companies, 1st International Conference on Management of Technology, Iramot Conference, Iran, 2011.
64. Allahyari Fard N. Bioethical Aspects of Production of GMOs and Right to Life of Other Organisms, The National of Biotechnology Application in Food Industries, GUMS , Iran, 2011
65. Allahyari Fard N. GMO Databases, The National of Biotechnology Application in Food Industries , GUMS , Iran, 2011.
66. Allahyari Fard N. Meta-Analysis of Production and Consumption of GMO Products, Views of the Producers, Researchers and Consumers, The National of Biotechnology Application in Food Industries, GUMS , Iran, 2011.
67. Allahyari Fard N. Knowledge Based Economy and Global biotechnology Economy. 1th National MBA-biotechnology congress, TUMS, Iran, 2011.
68. Allahyari Fard N. Total Analysis of Production Process in Iran Biotechnology, with Emphasis on Human Resource, 1th National MBA-biotechnology congress, TUMS, Iran, 2011.
69. Allahyari Fard N. Challenges and Requirements of Biotechnology Holding, 1th National Holding Organizations Congress, Iranrd, Iran, 2011.
70. Allahyari Fard N. Cyber-Commercialization, Approach Strategy toward Sustainable Development of Biotechnology in I.R.Iran, National Exigen Park congress of Iran, 2010.
71. Allahyari Fard N. Commercialization of Probiotic Products, First National Probiotic and Functional Foods Congress, 21-22 April2010.
72. Allahyari Fard N. Competitive law and Market of Biotechnology, National congress on law and ethics in biotechnology, Iran, 2010.
73. Allahyari Fard N. SWOT Analysis of National Development Genetics, 11th Iranian Genetics Congress, 2010.
74. Allahyari Fard N. Modification of the New Law and the Patent System According to New Approach to Ideas, Resources and Processes in Genetics and Biotech, Avicenna Institute of Iran, 2010.

75. Allahyari Fard N. Purpose a Model for National Development of Biotechnology Via International Assessment of Patents and Innovations, 9th National Congress of R&D Organizations, Iran, 2010.
76. Allahyari Fard N. Biotech-market, Commercialization Strategy of Biotechnology in Iran, 6th National biotechnology congress of Iran, 2009.
77. Allahyari Fard N. Knowledge Based Biotechnology Commercial Cooperation, 6th National biotechnology Congress of Iran, 2009.
78. Allahyari Fard N. Science and Technology Assessment in Iran, International Conference on Problem Solving Strategies & Techniques, PSST, Iran, 2006.

8. PATENT

- The process of allergenicity assessment of recombinant proteins, Iran, 2016.

9. RESEARCH INTERESTS

- Systems Biotechnology
- Bioinformatics