

**Name:** Farzaneh

**Surname:** Azizmohseni

Biotechnology Department,

Iranian Research Organization for Science and Technology (IROST),

**Telephone / Fax No.:** +98(228) 227-5510

**E-Mail:** [mohseni@irost.ir](mailto:mohseni@irost.ir), [f.azizmohseni@gmail.com](mailto:f.azizmohseni@gmail.com)



## **Education**

1989-1995      DCLS, Doctorate degree in Medical Laboratory Science  
Shahid Beheshti University of Medical Sciences, Tehran, Iran.

1983- 1986      Medical Laboratory Science  
Isfahan University of Medical Sciences, Isfahan, Iran.

## **Employment History**

1998-present    Director of Persian Type Culture Collection (PTCCi, WDCM 124)

2002-2020      Microbiology consultant of Shafa-e Sari pharmaceutical company

## **Professional Membership**

1996-present    Faculty member of Biotechnology Department, IROST

1995-present    Member of Iranian Medical Council

## **Executive positions:**

1- Head of the Persian Type Culture Collection, 1997 to present

2- Member of the Board of Biotechnology Faculty; Iranian Organization for Science and Technology, 2005 to present

3- Member of the Kharazmi International Award, biotechnology Jury committee, 2003 to present

4- Member of the IVD Jury committee, office of Health Technology Development, Ministry of Health, Treatment and Medical Education, 2014 to 2019

5- Member of the Genetic and Biological Resources Working Group, The Vice Presidency for science and technology, 2010 to 2021

## Research Involvement

- Biodiversity of lactic acid bacteria in food related ecosystems
- The diversity of sourdough starter microbiomes
- Isolation and identification of potent biosurfactant producing bacterial strains from oil contaminated soils in Masjed soleyman oil field
- Isolation and identification of saprophyte yeasts for biocontrol of aflatoxin
- Screening of Lovastatin producer fungi
- Study of antibacterial activity of newly designed recombinant proteins

## Publications:

- 1- Yasaman Ahmadbeigi, Neda Soleimani, **Farzaneh Azizmohseni**, Zahra Amini-Bayat. ZAM-CS, a novel chimeric endolysin with enhanced stability and rapid action against methicillin-resistant *Staphylococcus aureus*. BMC Microbiol **25**, 357 (2025). <https://doi.org/10.1186/s12866-025-04074-5>
- 2- Yasaman Ahmadbeigi, Neda Soleimani, **Farzaneh Azizmohseni**, Zahra Amini-Bayat. Biofilm formation and eradication of *Staphylococcus aureus*: a study of culture conditions and endolysin ZAM-CS effect. Iran J Microbiol 2025 Aug;17(4):586-592. doi: 10.18502/ijm.v17i4.19247.
- 3- A Noori, Z Amini-Bayat, S Mirdamadi, **F Azizmohseni**, S Borhani. A Safer Lytic Alternative: Multi-omics and Immunoinformatics Reveal Reduced Inflammatory Impact of a Chimeric Endolysin Against Antibiotic-induced Immune Dysregulation. Iranian Journal of Allergy Asthma and Immunology 2025: 1-12.
- 4- Maliheh Safavi, Mahroo Seyed Jafari Olia, **Farzaneh Azizmohseni\***, Soheila Shokrollahzadeh, Somayeh Keypour. Evaluation of anticancer and antibacterial activities of different strains of *Ganoderma* isolated from Caspian Hyrcanian forests. New Zealand Journal of Botany, February 2025. <https://doi.org/10.1080/0028825X.2024.2439480>
- 5- Momen, S., Soleimani, N., **Azizmohseni, F. et al.** Characterization and bioinformatic analysis of a new chimeric endolysin against MRSA with great stability. *AMB Expr* **14**, 143 (2024). <https://doi.org/10.1186/s13568-024-01812-2>
- 6- Sara Torkaman, Seyed Heydar Mahmoudi Najafi, Alireza Ashori, **Farzaneh Aziz Mohseni**. 2024 Chemoselective modification of chitosan with arginine and hydroxyproline: Development of antibacterial composite films for wound healing applications. *Int J Biol Macromol* Dec;282 (Pt 3): 137081
- 7- Sanaz Momen, Neda Soleimani, **Farzaneh Azizmohseni**, Yasaman Ahmadbeigi, Seddigheh Borhani, Zahra Amini-Bayat. 2024. Characterization and bioinformatic analysis of a new chimeric endolysin against MRSA with great stability. *AMB Express* Dec 26;14(1):143
- 8- Shokrollahzadeh S., Tayar Sh., **Azizmohseni F.**, Safavi M., Keypour S. 2023. Fungal decolorization of toxic Triphenylmethane dye by newly isolated *Ganoderma* fungi: Growth, enzyme activity, kinetics. *Bioresour. Technol. Rep.* 24: 101654

- 9- Mousavian Z., Safavi M., Salehirad A. **Azizmohseni F.**, Hadizadeh M., Mirdamadi S. 2023. Improving biomass and carbohydrate production of microalgae in the rotating cultivation system on natural carriers. *AMB Expr* 13: 39
- 10- Mousavian, Z., Safavi, M., **Azizmohseni, F.**, Hadizadeh M., Mirdamadi S. 2022. Coupling Non-Linear Regression Analysis with a Predictive Model Using Spectrophotometric Data to Estimate Microalgae Concentration. *Microbio. Metab. Biotechnol.* 5: 42-55
- 11- Mousavian, Z., Safavi, M., **Azizmohseni, F. et al.** 2022. Characterization, antioxidant and anticoagulant properties of exopolysaccharide from marine microalgae. *AMB Expr* 12 (1): 27
- 12- Poorasadollah D., Bagheri L. T., Heydarinasab A., Yaghmaei S., **Azizmohseni F.** 2021. Biological activated carbon process for biotransformation of azo dye Carmoisine by *Klebsiella* spp. *Environ. Technol.* 5: 1-17.
- 13- Rahmani H., Mahmoudi Najafi S. H., Ashori A., Arab Fashapoyeha M., **Azizmohseni F.**, Torkamana S. 2020. Preparation of chitosan-based composites with urethane cross linkage and evaluation of their properties for using as wound healing dressing. *Carbohydr. Polym.* 230 (15): 115606
- 14- Erfanmanesh A., Beikzadeh B, **Azizmohseni F.**, Nikaein D., Mohajerfar T. 2019. Ulcerative dermatitis in barramundi due to coinfection with *Streptococcus iniae* and *Shewanella algae*. *Dis. Aquat. Org* 134: 89–97.
- 15- Faezi M., Javanbakht S., Azizmohseni F., Alikhani F. E. 2018. Isolation and characterization of bacterial strains from shoreline waters of Caspian Sea with novel antibacterial activity. *Int. J. Mol. Clin. Microbiol.* 8 (2): 982-992
- 16- Mohammadipanah F., Parvizi L., Hamed J., **Azizmohseni F.** 2017. Protective effects of cryoprotectants and lyoprotectants on survival of persipeptide producing *Streptomyces zagrosensis* UTMC 1154. *Biopreservation and Biobanking* 15: (5) 451-456.
- 17- Shokrollahzadeh S., **Azizmohseni F.**, Golmohammad F. 2015. Characterization and kinetic study of PAH-degrading *Sphingopyxis ummariensis* bacteria isolated from a petrochemical wastewater treatment plant. *Advances in Environmental Science and Technology* 1: 1-9.
- 18- N. Samadi, N. Abadianian, R. Ahmadkhaniha, F. Amini, D. Dalili, N. Rastkar, E. Safaripour, **F. Azizmohseni.** 2012. Structural characterization and surface activities of biogenic rhamnolipid surfactants from pseudomonas aeruginosa isolate MN1 and synergistic effects against methicilin-resistant *Staphylococcus aureus*. *Folia Microbiol* 57: 501-508.
- 19- H. Ghosvandi, F. Vahabzadeh and **F. Azizmohseni.** 2011. A halotolerant, thermotolerant, and facultative biosurfactant producer: Identification and molecular characterization of a bacterium and evolution of emulsifier stability of lipopeptide biosurfactant. *Biotechnology and Bioprocess Engineering* 16: 72-80.
- 20- Fazeli M, Tabatabaei Yazdi M, Adrangi S, Jami K, Tasharrofi N, **Azizmohseni F.** 2009. Optimization of cultural conditions for production of chitinase by a soil isolate of *Massilia timonae*. *Biotechnology*, 8:93-99
- 21- Golkaran D, Eslamifar A, Jamalifar H, Fazeli MR, **Azizmohseni F.** 2009. Intra/extra synthesis of silver nanoparticles by an autochthonous strain of *Proteus mirabilis* isolated from photographic waste. *Journal of biomedical nanotechnology*, 5: 247-263
- 22- Mirdamadi S., Atashgahi S., Rajabi F., **Azizmohseni F.**, Roayaei M., Hamed J. 2008. Cell entrapment of *Lactobacillus casei* subsp. *Casei* ATCC 39392 for lactic acid production. *Iranian Journal of Biotechnology*, 6: 16-21

- 23- Shokrollahzadeh S., **Azizmohseni F.**, Golmohammad F., Shokouhi H., Khademhaghighat F. 2008. Biodegradation potential and bacterial diversity of a petrochemical wastewater treatment plant in Iran. *Bioresources Technology*, 99:6127-6133
- 24- Tabatabaei Yazdi M., Zarrini G., Mohit E., Faramarzi M. A., Setayesh N., Sedighi N., **Azizmohseni F.** 2006. *Mucor heimalis*: A new source of uricase production. *World Journal of Microbiology and Biotechnology*, 22: 330-335.
- 25- Mirdamadi S., Rajabi A., Khalilzadeh P., Akbarzadeh A., **Azizmohseni F.** 2005. Isolation of bacteria able to metabolize high concentration of formaldehyde. *World Journal of Microbiology and Biotechnology*, 21: 1299-1301.
- 26- Tabatabaei Yazdi M., Faramarzi M. A., Ghasemi Y., Amini M., Shokravi Sh., **Azizmohseni F.** 2004. Biotransformation of hydrocortisone by a natural isolate of *Nostoc moscorum*. *Phytochemistry*, 65: 2205-2209.
- 27- Faramarzi M. A., Tabatabaei Yazdi M., Amini M., **Azizmohseni F.**, Zarrini G., Amini A., Shafiee A. 2004. Microbial production of testosterone and testololactone in the culture of *Aspergillus terreus*. *World Journal of Microbiology and Biotechnology*, 20: 657-660.
- 28- Bakhtiari M. R., Moazami N., Fallahpour M., Mirdamadi S., Tabatabaei M., Norouzian D., **Azizmohseni F.** 2003. Production and purification of cyclosporine A from fermentation broth of *Tolypocladium infatum*. *Scientia Iranica*, 10: 367-371.
- 29- Samiee S. M., Moazami N., Haghighi S., **Azizmohseni F.**, Mirdamadi S., Bakhtiari M. R. 2003. Screening of Lovastatin production by filamentous fungi. *Iranian Biomedical Journal*, 7: 29-33.
- 30- Mirdamadi S., Sadeghi H., Sharifi N., Fallahpour M., **Azizmohseni F.**, Bakhtiari M. R. 2002. Comparison of lactic acid isomers produced by fungal and bacterial strains. *Iranian Biomedical Journal*, 6: 69-75.
- 31- Mirdamadi S., Khalilzadeh P., Rajabi A., **Azizmohseni F.** 2003. Isolation and adaptation of microorganisms for hexamine biodegradation. *Journal of Science*, 29: 233-245 (Persian Article)
- 32- Hassannia MR. **Azizmohseni F.**, Yeganeh V., Ghanjvar S. 2006. Study on members of Vibrionaceae family potentially used as probiotic in shrimp aquaculture. *Iranian Scientific Fisheries Journal*, 4: 21-31 (Persian Article)
- 33- Mirdamadi S., **Azizmohseni F.**, Rajabi A. 2007. Lactic acid production by *Lactobacillus* strains isolated from different ecosystems. *Iranian Journal of Nutrition Sciences and Food Technology*, 3: 21-31. (Persian Article)
- 34- Taghizadeh T., Zare D., Mortazavi, S., **Azizmohseni F.**, Azin M., Heydarin M. (2009). Improving the quality and flavor of tofu by using Taguchi experimental design. *Iranian Journal of Nutrition Sciences and Food Technology*, 4: 57-64. (Persian Article)

### **Congress presentations:**

- 1- Organizing a Consortium of Iranian Biobanks: providing a framework for coordination and quality improvement. Farzaneh Azizmohseni (Lecture). The 23<sup>rd</sup> National and 11<sup>th</sup> International Iranian congress of Biology. (September 9-11, University of Tehran)

- 2- An engineered endolysin with binding ability to *Acinetobacter Baumannii* outer membrane. Noura H., Bakhtiari N., **Azizmohseni F.**, Amini-Bayat Z. The 1th International Conference on Science and Technology. (February 25-26, 2024, Iranian Research Organization for Science and Technology, Iran)
- 3- Evaluation of the CHAPK -SH3b endolysin effect on different strains of Staphylococcus by plate lysis assay. Ahmadbeigi Y., Soleimani N., **Azizmohseni F.**, Amini-Bayat Z. The 24th Iran's International Congress of Microbiology. (September 18-20, 2023, Iranian Research Organization for Science and Technology, Tehran, Iran)
- 4- Microalgae Polysaccharide: A Promising Natural Food Supplement Source. Mousavian Z. Safavi M., **Azizmohseni F.**, Hadizadeh M. Mirdamadi S. The 4th international and 29th National Iranian Food Science and Technology Congress. (May 2-3, 2023, Iranian Research Organization for Science and Technology, Iran)
- 5- New endolysin against *Acinetobacter baumannii*: antibacterial effect. Noura H., Bakhtiari N., Azizmohseni F., Amini Bayat Z. The 23rd Iran's International Congress of Microbiology. (August 30-September 1, 2022, Tehran University of Medical Sciences, Tehran, Iran)
- 6- Evaluation of 3 antibacterial peptides cytotoxicity on MCF-7 cell line. Bakhtiari N., Hadizadeh M. **Azizmohseni F.** The 22<sup>th</sup> National and 10<sup>th</sup> International Congress on Biology. (August 31-September 2, 2022, Shahrekord University, Shahrekord, Iran)
- 7- Optimization of ammonium sulfate precipitation of a chimeric peptidoglycan hydrolyzing Enzyme. Ahmadbeigi Y., Soleimani N., Azizmohseni F., Amini-bayat Z. Iran's 22<sup>nd</sup> International virtual congress of Microbiology (August 28, 2021, Tehran University of Medical Sciences)
- 8- Treatment of Drug-Resistant *Staphylococcus aureus* by Double Acting Peptidoglycan Hydrolyzing Enzyme. Amini-bayat Z., Noori A., Mirdamadi S., **Azizmohseni F.**, Arab S. Sh. The 1<sup>st</sup> International Hybrid Mode Conference. (August 11-12, 2021, Kohat University of Science and Technology (KUST), Kohat, Pakistan)
- 9- Design & expression of a newartilysin against antibiotic resistant *A. baumannii*. Bakhtiari N., **Azizmohseni F.** The 12<sup>th</sup> National and 4<sup>th</sup> International Biotechnology Congress of Islamic Republic of Iran. (August 22-24, 2021, Tehran, Iran)
- 10- Different effects of bacterial host strains and inducers on expressing of two recombinant antibacterial protein. Homa Noura, Nahid Bakhtiari1, **Azizmohseni F.**, Zahra Amini-Bayat. The 21th National and 9<sup>th</sup> International Congress on Biology. (February 16-18, 2021, Semnan University, Iran)
- 11- Biosafety assessment of probiotics. **Azizmohseni F.** Oral presentation; The 21<sup>th</sup> International Congress of Microbiology of Iran (November 16, 2020, Tehran, Iran)
- 12- Screening of Iranian strains of *Gonoderma lucidum* in removing malachite green dye in solid culture medium. Taiar S., Shokrolahzadeh S., Khandan N., Asghari Z., **Azizmohseni F.** Safavi M., Keypur S. The 3<sup>rd</sup> International and 11<sup>th</sup> National Biotechnology Congress of Islamic Republic of Iran (September 1-3, 2019, Razi Conference Center, Tehran, Iran).
- 13- Evaluation of antibacterial activity of three different extracts of *G. appalanatum* and *G. adspersum* collected from North of Iran. The 8<sup>th</sup> National Congress on Medicinal Plants (April 24-25, 2019, Tarbiat Modares University, Tehran, Iran)
- 14- Removal of malachite green dye from aqueous medium by a native Iranian strain of *Ganoderma lucidum*. Taiar S., Shokrolahzadeh S., Khandan N., Asghari Z., **Azizmohseni F.** Safavi M., Keypur S. The 3<sup>rd</sup>

International and 11<sup>th</sup> National Biotechnology Congress of Islamic Republic of Iran (September 1-3, 2019, Razi Conference Center, Tehran, Iran).

15- Distribution and deposit of biological resources in BRCs. **F. Azizmohseni**, 19<sup>th</sup> International Congress of Microbiology, School of Medicine, Tehran University of Medical Sciences, Iran, 4-6 Sep. 2018

16- The study of antibacterial activity of laccate *Ganoderma* collected from Hyrcanian forests. S. Keypour, **F. Azizmohseni**, M. Safavi, S. Mahmoodnia, S. Shokrollahzadeh. 1<sup>st</sup> International Congress and 2<sup>nd</sup> National Conference on Biotechnology of Medicinal Plants and Mushrooms, University of Zanjan, 27-28 Aug 2018, Iran

17- The role of BRCs in providing infrastructure for biotechnology and microbial research. **Azizmohseni F.**, New approaches and concepts in Microbiology, Lahijan University, Iran, 24-25 Feb. 2016 (Oral presentation)

18- The Role of BRCs in providing biological validated materials for medical diagnosis. **Azizmohseni F.**, The 7<sup>th</sup> International & 12<sup>th</sup> National Congress on Quality improvement in Clinical laboratory. 17-20 April 2014, Tehran, Iran (Oral presentation)

19- Challenges ahead of the biological resources centers. **Azizmohseni F.**, The National congress on genetic and biological resources, Royan Institute, Tehran, Iran 22-23 Feb. 2011 (Oral presentation)

20- Study of antimicrobial effect of nisin, encapsulated nisin in liposomes and *Lactococcus lactis* as a nisin producer on food borne pathogens. Mirdamadi Saeed, Agha Ghazvini Shadi, Fallahpour Masoud, **Azizmohseni Farzaneh**, International Conference on Food Innovation. 25-29 October 2010, Valencia, Spain. (Abstract)

21- Case study on *Aspergillus flavus* and *A. parasiticus*. **Azizmohseni F.**, Microbial Commons Workshop. 25-26 February 2009, Brussels, Belgium.

22- Isolation and identification of bacteriocin producer Lactobacilli. Mirdamadi S., Tangestani M., **Azizmohseni F.**, Amirmozafari N., The first National Functional Food, Tarbiat Modares University, Tehran, Iran 14-15 Mar., 2008

23- An activated sludge process to reduce the pollution load of a petrochemical wastewater, Shokrollahzadeh S., Golmohammad F., **Azizmohseni F.**, Shokouhi H., The 18<sup>th</sup> International Congress of Chemical and Process Engineering, 27-31 August 2008, Praha, Czech Republic. (Abstract)

24- Screening of lactobacillus strains for bio-preservative production and probiotic activities from Iranian yogurt. S. mirdamadi, F. Azizmohseni, M. fallahpour, M. Tangestani, 10<sup>th</sup> European Nutrition Conference, July 10-13, 2007, Paris, France. (Poster)

25- The Potential of a Yeast, *Pseudozyma fusiformata* Strain Y76 to Control *Aspergillus flavus* for Reducing Aflatoxin in Pistachio, **Azizmohseni F.**, Afsahhejri L., Azar M., The 11<sup>th</sup> International Conference of Culture Collections, 7-12 October, 2007 Goslar, Germany. (Oral Presentation, Full paper)

26- Preliminary study to use saprophytic yeasts as biocontrol agents against *Aspergillus flavus* in pistachio, Afshahjri L., Azar M., **Azizmohseni F.**, International Conference on Innovations in Food and Bioprocess Technologies, 12-14 December, 2006 Bangkok, Thailand. (Oral presentation, Full paper)

27- Optimization of lactic acid production by immobilized cells of *Lactobacillus casei* *supsp. casei*, Mirdamadi S., Atashgahi S., Roayayi M., Rajabi A., **Azizmohseni F.**, Hamedi J., The 8<sup>th</sup> National Congress of Microbiology, 23-25 May 2006, Isfahan, Iran. (Abstract)

- 28-Pilot plant production of lactic acid in media containing ruptured *Saccharomyces cerevisiae* by STR, Mirdamadi S., Rajabi A., **Azizmohseni F.**, Atashgahi S., The 8<sup>th</sup> National Congress of Microbiology, 23-25 May 2006, Isfahan, Iran.
- 29- Screening of saprophytic yeasts as biocontrol agents against *Aspergillus flavus* in pistachio. Afsahhejri L., Azar M., **Azizmohseni F.**, The 16<sup>th</sup> Congress of Food Industry, 12-13 April 2006, Gorgan, Iran. (Oral presentation)
- 30- Recovery of L (+)-lactic acid by precipitation and anion exchange chromatography, Mirdamadi S., Beikmohamadi L., Rajabi A., **Azizmohseni F.**, The 4<sup>th</sup> National Biotechnology Congress, , 15-17 August, 2005 Kerman, Iran.
- 31- Fed batch production of L(+) *lactic acid* by *Lactobacillus casei ssp. casei* in stirred tank reactor(STR), Mirdamadi S., Rajabi A., **Azizmohseni F.**, The 4<sup>th</sup> National Biotechnology Congress, , 15-17 August, 2005 Kerman, Iran. (Abstract)
- 32- Utilization of molasses for economical L(+) lactic acid production by fed- batch fermentation of *lactic acid* by *Lactobacillus casei ssp. casei* PTCC 1608, Mirdamadi S., Beikmohamadi L., Rajabi A., **Azizmohseni F.**, The 4<sup>th</sup> National Biotechnology Congress, 15-17 August, 2005 Kerman, Iran. (Abstract)
- 33- Self-sterification of lactic acid and effect of CO<sub>2</sub> and H<sup>+</sup>, Mirdamadi S., Rajabi A., **Azizmohseni F.**, The 4<sup>th</sup> National Biotechnology Congress, 15-17 August, 2005 Kerman, Iran. (Abstract)
- 34- Stability of *Aspergillus ficuum* phytase in different preservation methods and its formulation with bran for adding to poultry diet, Hosseyni pajoo K., Sharifi N., Mirdamadi S., **Azizmohseni F.**, The 4<sup>th</sup> National Biotechnology Congress, 15-17 August, 2005 Kerman, Iran. (Abstract)
- 35- Continuous degradation of Formaldehyde by Immobilized isolated bacteria, Mirdamadi S., Rajabi A., Azizmohseni F., Akbarzadeh A., Khalilzadeh P., Vaez J., 1<sup>st</sup> International Conference on Environmental, Industrial, and Applied Microbiology (BioMicroWorld 2005) March 15-18<sup>th</sup> 2005, Badajoz, Spain. (Abstract)
- 36- Screening of Hexamine degrading bacteria, Mirdamadi S., Rajabi A., **Azizmohseni F.**, Akbarzadeh A., Khalilzadeh P., Farahmand B., 1<sup>st</sup> International Conference on Environmental, Industrial, and Applied Microbiology (BioMicroWorld 2005) March 15-18<sup>th</sup> 2005, Badajoz, Spain. (Abstract)
- 37- Batch and fed batch production of L (+) Lactic acid by stirred Tank Reactor, Mirdamadi S., Rajabi A., **Azizmohseni F.**, Farzi M., Sharifi N., The 2<sup>nd</sup> Congress on Applied Biology (international approach), 29-30 sep., 2004 Mashhad, Iran.
- 38- Evaluation of optimized conditions of lactic acid production using taguchi method by *Lactobacillus casei* subsp. *casei*, Mirdamadi S., Beikmohamadi L., Rajabi A., **Azizmohseni F.**, Farzi M., The 2<sup>nd</sup> Congress on Applied Biology (international approach), 29-30 sep., 2004 Mashhad, Iran.
- 39- Lactic acid production by immobilized *Lactobacillus casei* subsp. *casei*, Mirdamadi S., Farzi M., Rajabi A., **Azizmohseni F.**, Sharifi N., The 2<sup>nd</sup> congress on applied biology (international approach), 29-30 sep., 2004 Mashhad, Iran.
- 40- Optimization of phytase production by *Aspergillus ficcium*, Sharifi N., Hosseynipajoo Kh., Mirdamadi S., **Azizmohseni F.**, The 2<sup>nd</sup> congress on applied biology (international approach), 29-30 sep., 2004 Mashhad, Iran.
- 41- Comparison of lactic acid production by free and immobilized *lactobacillus casei*, Mirdamadi S., Farzi M., Rajabi A., **Azizmohseni F.**, Sharifi N., 12<sup>th</sup> Iranian Biology Conference, 31 Aug -2 sep, 2004 Hamadan University.

42- Batch and fed batch production of L (+) lactic acid by *Lactobacillus casei* subsp *casei*., in stirred tank reactor, Mirdamadi S., Rajabi A., **Azizmohseni F.**, Farzi M., Sharifi N., 12<sup>th</sup> Iranian Biology Conference, 31 Aug -2 sep, 2004 Hamadan University.

43- Partial purification and catalytic characterization of phytase enzyme of *Aspergillus ficcum*., Hosseiny-pajoo Kh., Sharifi N., Mirdamadi S., **Azizmohseni F.**, 12<sup>th</sup> Iranian, Biology Conference, 31 Aug -2 sep, 2004, Hamadan University.

44- Production of L (+) Lactic acid from Sugarcane molasses by *Lactobacillus casei* ssp. *Casei* strain PTCC 1608, Mirdamadi S., Beikmohamadi L., **Azizmohseni F.**, 7<sup>th</sup> Iranian Microbiology Congress, Semnan University of Medical Sciences, Iran 2 -4 Feb., 2005.

## **Research projects**

### **Principal investigator:**

- 1- Isolation of Microorganisms involved in MEOR from Masjid Soleyman Reservoir (2007-2009)
- 2- Using Molecular techniques for authentication of microbial strains (2009-2011)
- 3- The biologic properties of different *Ganoderma* strains isolated from Hyrcanian Forest (2017- 2022)
- 4- Isolation and identification of sourdough microbiota. (2019-present)

### **Co-Investigator:**

- 1- Study on production of lovastatin by *Aspergillus* strains isolated from different ecosystems (2003-2005)
- 2- Human calcitonin gene expression using patatin classI specific promoter and signal peptide in transgenic potato plants t. (2005-2007)
- 3- Design and development of a biofilter for hydrogen sulfate absorption (2006-2008)
- 4- Isolation and identification of microorganisms from Abadan petrochemical wastewater treatment plant (2006-2007)
- 5- Lab scale production of yoghurt starters (2009-2010)
- 6- Characterization of PAH-degrading microorganisms isolated from Abadan petrochemical wastewater treatment plant (2009-2010)
- 7- Study on Lactic acid bacteria in yogurt starter cultures. (2008-2010)
- 8- Study on microbial flora of Soroush and Nowruz oil fields in the Persian Gulf (2010-2012)
- 9- Production of chimeric endolysin against methicillin-resistant *Staphylococcus aureus* (2022-2025)



## Thesis Supervisor/ Consultant

- 1- Isolation and Identification of Kombucha Microorganisms, Azita Namazi, Master's thesis. Islamic Azad University, Science and Research Branch
- 2- Isolation of Hexamine Decomposing Microorganisms, Puneh Khalilzadeh, Master of Microbiology, Islamic Azad University, Qom Branch
- 3- Isolation of Formaldehyde Decomposing Microorganisms, Afsaneh Rajabi, Master of Microbiology, Islamic Azad University, Qom Branch
- 4- Determination of the Chemical Structure of Two New Antivirals, Maryam Farzan, Doctor of Pharmacy, Islamic Azad University, Tehran, Faculty of Pharmacy
- 5- Control of *Aspergillus flavus* Growth by Saprophytic Yeasts to Reduce Aflatoxin Levels in Pistachios, Lili Afseh Hejri, Master's thesis, Shahid Beheshti University of Medical Sciences
- 6- Detection of bacteriocins produced by *Lactobacilli* strains and their antibacterial activity. Mehrnoush Tangestani Gholami, MSc, Islamic Azad University, Lahijan Branch
- 7- The effects of cheese-fermenting microorganisms on the aroma and flavor of tofu. Tahmineh Taghizadeh, MSc, Food Science and Engineering, Islamic Azad University, Sabzevar
- 8- Isolation and identification of phenanthrene-degrading bacteria from oil-contaminated marine sediments. Master's thesis, Islamic Azad University
- 9- Investigation of phage contamination of *Lactobacilli* isolated from Iranian dairy samples, Mona Bassmechi, Master's thesis, Islamic Azad University, Pharmaceutical Sciences Faculty, Tehran
- 10- Presentation of a suitable method for maintaining a persimycine producing strain, Leila Parvizi. Master's thesis Faculty of Science, University of Tehran
- 11- Evaluation of the antibacterial activity of MSC, a phage-derived chimeric endolysin, against *Staphylococcus aureus*, Sanaz Momen, MSc in Microbiology, Shahid Beheshti University.
- 12- Extraction, characterization and investigation of the inhibitory effect of extracellular polysaccharides of *Chlorophyta* sp. isolated from the Persian Gulf on *Helicobacter pylori*. Zahra Mousavian, PhD in Microbiology, Institute of Biotechnology, Iranian Organization for Science and Technology
- 13- Production and activity evaluation of a new three-domain chimeric endolysin against methicillin-resistant *Staphylococcus aureus*, Atefeh Noori, PhD in Microbial Biotechnology, Institute of Biotechnology, Iranian Organization for Science and Technology
- 14- Production and evaluation of a new fusion protein based on endolysin plyF307 and calnin N against *Acinetobacter baumannii*, Hama Noura, PhD in Molecular Cell Biology, Institute of Biotechnology, Iranian Organization for Science and Technology

**Collaboration in the development of ISIRI standards:**

- 1- Aseptic processing of health care products - Part 2: Filtering, ISIRI No.: 9414-2
- 2- Aseptic processing of health care products - Part 3: Freeze drying, ISIRI No.: 9414-3
- 3- Aseptic processing of health care products - Part 5: In-situ sterilization, ISIRI No.: 9414-5
- 4- Probiotic microorganisms - Characteristics and in vitro test methods: ISIRI No.:19459