

# ***SHAKIBA DARVISH ALIPOUR ASTANEH***

Department of Biotechnology, Faculty of New Sciences and Technologies,  
Semnan University,  
Central Administration of Semnan University, Campus 1, Semnan,  
I. R. of Iran Semnan, IRAN  
P.O.Box Semnan 35131 -19111, Iran, Tel. +98(23)31532288  
**E.mail:** [Darvishalipour@semnan.ac.ir](mailto:Darvishalipour@semnan.ac.ir), [shakibad@gmail.com](mailto:shakibad@gmail.com)

## ***EDUCATION:***

**B. Sc.** Microbiology, Tehran University, Tehran 1997

**Thesis title:** Screening and identification a halotolerant bacterial strain

**Supervisor:** Dr. Sokhan-Sanj, **Consolator:** Dr.Javad Hamedi.

**M.Sc.** Microbiology, Azzahra University, Tehran 2001

**Thesis title:** Screening of dehydrogenase producing bacterial strains,  
effective in biooxidation of Aromatic compounds

**Supervisor:** Dr. .Shayesteh Sepehr, **Consolator:** Dr. Mohamad Reza Soudi.

**Ph. D.** Microbiology, Shahed University, Tehran2009

**Thesis title:** Identification of FHA-like protein in *Acinetobacter baumannii*, its role in  
pathogenicity and evaluation of its immunogenicity,

**Supervisor:** Dr. Iraj Rasooli, Dr. Sayed Latif Mousavi Gargari.

## ***ACADEMIC QUALIFICATION:***

- Research Assistant, Shahed university,Tehran,Iran,2004-2014
- Member of scientific board of Semnan Uni. Semnan, Iran, since Apr. 2015

## ***WORK EXPERIENCE:***

### ***Researcher***

■ Screening of bacterial strains for bacteriocin from Semnan, Semnan University, Oct 2017

■ Identification of the production potential of endolysin of soil Semnan Bacteria for control  
of pathogenic bacteria and cloning it, Iran National Science Foundation

### ***Research assistant:***

- Antioxidant, Cytotoxicity, Mutagenicity, Antimutagenicity, and antimicrobial properties of the essential oils of Thymus, Satureja and Dill. Shahed University.
- Antimicrobial efficacy of essential oils from *Cyminum*, *Rosemary* and *Lavandula* against *E.coli*, *S.aureus* and *Listeria monocytogenes*. Shahed University
- In-vivo evaluation of antimicrobial and antioxidative properties, and identification of chemical composition of essential oils from *Myrtus communis*, *Ammi visnaga* and *Mentha pippertia*. Shahed University

- ⊕ Isolation of an amylase overproducing thermophilic bacterium from soil. Shahed University
- ⊕ Characterization of an amylase thermophilic bacterium isolated from soil. Shahed University

#### **RECENT POSTGRADUATE THESES GUIDED Ph.D**

- ⊕ Maryam Mobarak Qamsari, Immunization against zinc uptake outer membrane protein (ZnuD1) and its immunogenic regions in *Acinetobacter baumannii*, Supervisor: Iraj Rasooli, Shakiba Darvish Alipour, 2020

#### **RECENT POSTGRADUATE THESES GUIDED M.Sc.**

- ⊕ Yaser Solhi, Cloning and heterologous expression of S-type pyocin from *Pseudomonas aeruginosa* and the study of its toxicity effects, 2024.
- ⊕ Hanieh Banayon, Cloning and heterologous expression of Exotoxin A from *Pseudomonas aeruginosa* and the study of their toxicity effects, 2024.
- ⊕ Seyedeh Hoda Mansouri ,Cloning and heterologous expression of Hcp protein of Secretion System type VI from *E.coli*, 2024.
- ⊕ Fatemeh Golami, Investigating the effects of probiotic strain *Lactobacillus brevis* IBRC-M10790 in activation of autophagy process in non-alcoholic steatohepatitis induced in HepG2 cell line, Semnan University, Supervisor: Shakiba Darvish Alipour, Abbas Yadegar, 2023.
- ⊕ Elham Shamsaie, Isolation and identification probiotic bacteria in breast milk, Semnan University, Supervisor: Shakiba Darvish Alipour, 2023.
- ⊕ Mohammad Estiri, Identification of vaccine candidate from SARS-CoV-2 proteome by reverse vaccinology, Semnan University, Supervisor: Shakiba Darvish Alipour, Shamsozoha Abolmaali, 2023.
- ⊕ Pegah Abdolahi, Screening of phages against *Proteus vulgaris* from environmental samples in Dasht Desert, Semnan University, Supervisor: Shakiba Darvish Alipour, Shamsozoha Abolmaali, 2023.
- ⊕ Ali Rahnama, Evaluation of the potential of a metabolic product from the native probiotic strains, Semnan University, Supervisor: Shakiba Darvish Alipour, Shamsozoha Abolmaali, 2023.
- ⊕ Farnoosh Majlesain, Cloning of phage lysine from Dasht Desert with impacts on Gram negative bacteria and its effects on treatment of Covid-19, Semnan University, Supervisor: Shakiba Darvish Alipour, Shamsozoha Abolmaali, 2023.
- ⊕ Mobina Shojaie Shahabad, Isolation of lytic bacteriophage and antibacterial compound-producing Bacteria from *Tenebrionidae* beetles microbiome from Dasht Desert, Semnan University, Supervisor: Shakiba Darvish Alipour, Mehdi Golestaninasab,2023.

- ⊕ Sepideh Yazdianpour, Transgenic Expression of *Bacillus* phage SPP1 peptidoglycan hydrolase in *E.coli* and functional analysis, Semnan University, Supervisor: Shakiba Darvish Alipour, Shamsozoha Abolmaali, 2022.
- ⊕ Mohammad Hossein Karimi Gourag, Extraction of antibacterial peptides from mealworm and a native beetle in Semnan and evaluation of its antibacterial activity, Semnan University, Supervisor: Shakiba Darvish Alipour, Mehdi Golestaninasab, 2022
- ⊕ Sarah Kamil Al-Mohiyee, Prediction of genes encoding antibacterial compounds in *Bacillus subtilis* genome *in-Silico*, Semnan University, Supervisor: Shakiba Darvish Alipour, 2022
- ⊕ Ashkan Abbasifard Semnani, Evaluation of phage effects against *Pseudomonas aeruginosa*, Semnan University, Supervisor: Shakiba Darvish Alipour, 2021
- ⊕ Milad Abdolahi, Isolation of *lactobacillus* with probiotic potentiality in milk and dairy product, Semnan University, Supervisor: Shakiba Darvish Alipour, 2020
- ⊕ Ghasem Ghodrati, Production of DNA fragments with different sizes, Semnan University, Supervisor: Shamsozoha Abolmaali, Shakiba Darvish Alipour, 2020
- ⊕ Fereshteh Rahmani, Analyses of the effects of cytotoxicity of endolysin and bacteriocin antimicrobial compounds produced by bacteria from Semnan, Semnan University, Supervisor: Shakiba Darvish Alipour, Shamsozoha Abolmaali, 2020
- ⊕ Morteza Miri, Cloning, expression, study of gene encoding from *Bacillus* phage, Semnan University, Supervisor: Shakiba Darvish Alipour, Shamsozoha Abolmaali, 2019
- ⊕ Mehdieh Pazoki, Immunogenic role of loop of an effector T6SS recombinant protein, VgrG, against *A.baumannii*, Supervisor: Iraj Rasooli, Shakiba Darvish Alipour, Shahed University, 2019
- ⊕ Saeid Alipouri, Immunogenic role of VgrG recombinant protein against *A. baumannii*, Shahed University, Supervisor: Iraj Rasooli, Shakiba Darvish Alipour, 2019
- ⊕ Nasrin Mizani, Optimization of producing Taxans in the yew endophytic fungus *Trichoderma* sp., Semnan University, Supervisor: Shamsozoha Abolmaali, Shakiba Darvish Alipour, 2019
- ⊕ Elaheh Abiri, Production of ComL recombinant and its functional role in antibiotic resistance, Shahed University, Supervisor: Iraj Rasooli, Shakiba Darvish Alipour, 2018
- ⊕ Razieh Abdolhamidi, Distribution of genes involved in virulence of pathogenic strains of *A.baumannii* and the role in the pathogenesis. Shahed University, Supervisor: Iraj Rasooli, Shakiba Darvish Alipour, 2018

- ⊕ Fatemeh Zareshahi, Screening of Fungi isolates from Semnan province against biomolecules, Semnan University, Supervisor: Shamsozoha Abolmaali, Shakiba Darvish Alipour, 2017.
- ⊕ Hossein Noormohammdi, Identification and cloning an Endolysin produced by *Bacillus* sp. isolated from the soil Semnan, Semnan University, Supervisor: Shakiba Darvish Alipour, Shamsozoha Abolmaali, 2016.
- ⊕ Mohammad Reza Sarjoughian, Identification and cloning of a bacteriocin produced by *Bacillus* sp. isolated from Semnan soil, Semnan University, Supervisor: Shakiba Darvish Alipour, Shamsozoha Abolmaali, 2016.

#### **PROFESSIONAL EXPERIENCE:**

- Proteomics, Genomics
- Cell culture (Cell line)
- Immunological methods

#### **PUBLICATIONS:**

- ⊕ Elham Shamsaie, Shamsozoha Abolmaali, **Shakiba Darvish Alipour Astaneh**, Assessment of the probiotic isolates features found in breast milk, Microbiology, Metabolites and Biotechnology, 7 (2024)1-12
- ⊕ Farnoosh Majlesain, **Shakiba Darvish Alipour Astaneh**, Shamsozoha, Abolmaali, Nooshin Bijari, Introducing the characteristics of Endolysin as an alternative to antibiotics(In-press)
- ⊕ Maryam Robati, Eskandar Kolvari, Shakiba Darvish Alipour Astaneh, Hierarchically assembled palladium catalysts: preparation of heterogeneous biocatalysts via a facial route for the Heck coupling reaction, Transition Metal Chemistry, 2025, 50,207-17.
- ⊕ Mohammad Hossein Karimi Gouraji; **Shakiba Darvish Alipour**; Mehdi Golestaninasab, A bioinformatics study of antibacterial peptide Attacin1a from *Tenebrio molitor*, Journal of Microbial World, 2022,5(3).
- ⊕ Fatemeh Ramezanalizadeh, Iraj Rasooli, Parviz Owlia, **Shakiba Darvish Alipour Astaneh**, Raziye Abdolhamidi, Vaccination with a combination of planktonic and biofilm virulence factors confers protection against carbapenem-resistant *Acinetobacter baumannii* strains, Scientific Reports, 2022,12(1),1-12.
- ⊕ **Sh Darvishalipour**, Four Epidemics: Cholera, Monkey Poxvirus, Congo Fever and Polio An Overview of the Controversy of the Return of Infectious Diseases, Nāme-ye-Oloom-e Pāye (Quarterly Review of Basic Sciences),2022,5(1),142.
- ⊕ Saeed Alipouri, Iraj Rasooli, Mohammad Hossein Ghaini, Abolfazl Jahangiri, **Shakiba Darvish Alipour Astaneh**, Fatemeh Ramezanalizadeh, Immunity induced by valine-glycine repeat protein G imparts histoprotection of vital body organs against *Acinetobacter baumannii*, Journal of Genetic Engineering and Biotechnology,20(1).
- ⊕ Morteza Miri, Sepideh Yazdianpour, Shamsozoha Abolmaali, **Shakiba Darvish Alipour Astaneh**, Exogenous Production of N-acetylmuramyl-L Alanine Amidase (LysM2) from Siphoviridae Phage Affecting Anti-Gram-Negative Bacteria: Evaluation of Its Structure and Function, Avicenna Journal of Medical Biotechnology, 2022, 14(1),46-53.

- ✚ Aleme Naghipour Erami, Iraj Rasooli, Abolfazl Jahangiri, **Shakiba Darvish Alipour Astaneh**, Anti-Omp34 antibodies protect against *Acinetobacter baumannii* in a murine sepsis model, *Microbial pathogenesis*, 2021, 105291
- ✚ Ashkan Abbasifard Semnani, Shamsozoha Abolmaali, Mehdi Sadeghi, **Shakiba Darvish Alipour Astaneh**, Immunoinformatics study of encoded lysines in bacteriophages effective on Pseudomonas genus bacteria, *Journal of Molecular and Cellular Research*, 2021(Accept)
- ✚ Ramin Hatefi Oskuei, **Shakiba Darvish Alipour Astaneh**, Iraj Rasooli, A conserved region of *Acinetobacter* trimeric autotransporter adhesion, Ata, provokes suppression of *Acinetobacter baumannii* virulence, Publication date 2021, 1-11
- ✚ Mahdieh Pazoki, **Shakiba Darvish Alipour Astaneh**, Fatemeh Ramezanalizadeh, Abolfazl Jahangiri, Iraj Rasooli, Immunoprotectivity of Valine–glycine repeat protein G, a potent mediator of pathogenicity, against *Acinetobacter baumannii*, 135, 276-284
- ✚ Mohammad Reza Sarjoughian, Fereshte Rahmani, Shamsozoha Abolmaali, **Shakiba Darvish Alipour Astaneh**, Bacillus phage endolysin, lys46, bactericidal properties against Gram-negative bacteria, *Iranian journal of microbiology*, 12(6), 607-615
- ✚ **Darvish Alipour S.** The importance of vaccination in the control of the emerging viral diseases outbreaks, *Iranian Journal of Biology*, 2020, 3(6), 73-88.
- ✚ Saeideh Masoumkhani, **Shakiba Darvish Alipour Astaneh**, Abolfazl Jahangiri, Iraj Rasooli. Virulence-associated chromosome locus J, VacJ, an outer membrane lipoprotein elicits protective immunity against *Acinetobacter baumannii* infection in mice, *Trends in medicine*, 2020, 20, 1-6, doi: 10.15761/TiM.1000236.
- ✚ Maryam Mobarak Qamsari, Iraj Rasooli, **Shakiba Darvish Alipour Astaneh**. Data retrieved from in silico evaluation of vaccine potential of ZnuD protein in *Acinetobacter baumannii*, *Data in Brief*, 2020, 31, August 2020, 105892.
- ✚ Zainab Mahmoudi, Iraj Rasooli, Abolfazl Jahangiri, **Shakiba Darvish Alipour Astaneh**, Protectivity of a conserved immunogenic fimbrial protein against *Acinetobacter baumannii*, *APMIS*, 2020, 128: 476–483
- ✚ Zareshahi F, Abolmaali SH, **Darvish Alipour Astaneh SH**, Asghari A, Isolating sorbicillin-producing fungi from Darband cave and evaluating the sorbicillin biomedical applications, *Studies in Fungi*, 2020, Volume 5.
- ✚ Elham Darzi Eslam, **Shakiba Darvish Alipour Astaneh**, Iraj Rasooli, Shahram Nazarian, Abolfazl Jahangiri, Passive immunization with chitosan-loaded Biofilm-associated protein against *Acinetobacter baumannii* murine infection model, *Gene Reports*, Volume 20, September 2020, 100708
- ✚ Maryam Mobarak Qamsari, Iraj Rasooli, **Shakiba Darvish Alipour Astaneh**, Identification and immunogenic properties of recombinant ZnuD protein loops of *Acinetobacter baumannii*, *Informatics in Medicine Unlocked*, Volume 19, 2020, 100342
- ✚ Mohammad Reza Sarjoughian, Shamsozoha Abolmaali, **Shakiba Darvish Alipour Astaneh**, Bio-activity of bacteriocin- like Bac70 produced by *Bacillus atrophaeus* strain DDBCC70, 12 (3), 186-193.

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- Maryam Mobarak Qamsari, Iraj Rasooli, Somshukla Chaudhuri, **Darvish Alipour Astaneh S**, Anthony B. Hybrid Antigens Expressing Surface Loops of ZnuD From *Acinetobacter baumannii* Is Capable of Inducing Protection Against Infection, Frontier in Immunology, 11, 150
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- Hossein Noormohammadi, Shamsozoha Abolmaali, **Shakiba Darvish Alipour Astaneh**, Identification and characterization of an endolysin -Like from *Bacillus subtilis*; Microbial pathogenes, 119, 2018, 221-4.
- Fatemeh Shahrestani, **Shakiba Darvish Alipour Astaneh**, Shamsozoha Abolmaali, Investigation of secondary metabolites production from NRPS enzyme in heavy metal resistant halotolerant from Haj AliGholi, Journal of Molecular and Cellular Research, Journal of Molecular and Cellular Research, 32, 2019, 247-57.
- Maryam Afshar Payam, Iraj Rasooli, Parviz Owlia, Daryush Talei, **Shakiba Darvish Alipour Astaneh**, Shahram Nazarian; Correlation of Virulence Factors and Cell Adhesion of Clinical Isolates of *Acinetobacter baumannii*; Archives of clinical infectious diseases; In Press(In Press):e62841.
- Hadise Bazmara<sup>1</sup>, Iraj Rasooli<sup>1</sup>, Abolfazl Jahangiri, Fatemeh Sefid, **Shakiba Darvish Alipour Astaneh**, Zahra Payandeh. Antigenic Properties of Iron Regulated Proteins in *Acinetobacter baumannii*: An In Silico Approach, International Journal of Peptide Research and Therapeutics, March 2019, Volume 25, Issue 1, pp 205–213
- Mohammad Reza Sarjoughian, **Shakiba Darvish Alipour Astaneh**, The Study of bacteriocins produced by *Escherichia coli* and *Bacillus subtilis* against *Klebsiella pneumoniae*, Journal of microbial world Iran, 11 (23500336), 2018, 143-154
- M. Jalalvand, Shamsozoha Abolmaali, **S. DarvishAlipour A**, Nickel Resistant Bacteria from Haj Ali Khan salt lake and their potential for producing bio-active compound, Journal of Applied Biology, 31(1) 2018: 69-75.
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- Hassan Heydari Farsani, Iraj Rasooli, Seyed Latif Mousavi Gargari, Shahram Nazarian, **Shakiba Darvish Alipour Astaneh**; Recombinant outer membrane protein F-B subunit of LT protein as a prophylactic measure against *Pseudomonas aeruginosa* burn infection in mice: World Journal of Methology;5(4);2015:230-7.
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- Shakiba Darvish Alipour Astaneh**; Iraj Rasooli; Seyed Latif Mousavi Gargari; The role of filamentous hemagglutinin adhesin in adherence and biofilm formation in *Acinetobacter baumannii* ATCC19606; Microbial Pathogenesis; Vol(74); 2014; 42-49.
- Shakiba Darvish Alipour Astaneh**; Iraj Rasooli; Seyed Latif Mousavi Gargari; Role of Two-Partner Secretion System dependent FhaB1 and FhaB2 Proteins in Adhesion of *Acinetobacter baumannii* ATCC19606 to Human Epithelial Cells; Modares Journal of Medical Sciences: Pathobiology; Vol(17);No.1; 2014;51 -62.
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- Shahram Nazarian, Seyed Latif Mousavi Gargari, Iraj Rasooli, Masoome Alerasol,Samane Bagheri, **Shakiba Darvish Alipoor**; Prevalent Phenotypic and Genotypic Profile of Enterotoxigenic *Escherichia coli* among Iranian Children; Japanese journal of infectious diseases; Vol(67); NO.2;2014,78-85.
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- Hoda Toobak, Iraj Rasooli, Daryush Talei,, Abolfazl Jahangiri,Parviz Owlia, **Shakiba Darvish Alipour Astaneh**; Immuneresponse variations to *Salmonella entericaserovar Typhi* recombinant porin proteins in ice; Biologicals; Vol (41 ); NO.4;2013; 224-230.
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*Salmonella typhi* Outer Membrane Protein C; Korean Journal of Microbiology and Biotechnology;41(1);2013,128-134.

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- Mehdi Dadashpour , Iraj Rasooli , Mohammad Bagher Rezaei , Fatemeh Sefidkon , Massoud Taghizadeh and **Shakiba Darvish Alipour Astaneh**; Ferrous ion chelating, nitric oxide radical scavenging and cytotoxicity of *Satureja sahendica* Bornm. essential oil. Daneshvar Medicine; 2011, 18 (Issue 91);29-37.
- Mehdi Dadashpour , Iraj Rasooli , Rahim Sorouri Zanjani , Fatemeh Sefidkon , Massoud Taghizadeh , **Shakiba Darvish Alipour Astaneh**; Antimicrobial, nitric oxide radical scavenging and cytotoxic properties of *Thymus daenensis* essential oil. Journal of Medical Science: Pathobioligy. 2011(Issue 1);37-48.
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- Latif Gachkar, Davood Yadegarnia, Mohammad Bager Rezaei,**Shakiba Alipoor Astaneh**, Iraj Rasooli; Chemical and biological characteristics of *Cuminum cyminun* and *Romarinus officinalis* essential oils; Foodchemistry; Vol(102);Issue3;2007; 898-90.

- ⊕ Davood Yadegarnia, Latif Gachkar, Mohammad Bager Rezaei, Massod Taghizadeh, **Darvish Alipoor Astaneh shakiba**, Iraj Rasooli; Biochemical activities of Iranian *Mentha piperita* L. and *Myrtus comuni* L. essential oils; Phytochemistry; Vol(18);No.12;1249-55.
- ⊕ **Darvish Alipoor. Sh.**, Sepehr. Sh, and Soudi M.R; Aldehyde-Alcohol bioconversion by *Bacillus* spp L<sub>2</sub>; Iranian Journal of biology (IJB) (Scientific Research); Vol (18); No.2; Sum2005.

### **PAPER TRANSLATED**

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