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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, Antimutagenecity, 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.**

- 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:

- Hanieh Banaeyoun, Shamsozoha Abolmaali, **Shakiba Darvish Alipour Astaneh**; Heterologous expression of *Pseudomonas aeruginosa* Exotoxin A and evaluation of its functional activity;2026. Biologia; 81(7);171.

- Aryan Nouhi, Shamsozoha Abolmaali, **Shakiba Darvish Alipour Astaneh**, XcpQ from *Pseudomonas aeruginosa*: A potential vaccine candidate with immunogenic properties in zebrafish; Vaccine, 2026

- Aryan Nouhi, **Shakiba Darvish Alipour**; Convergence of AI and Biotechnology: A New Perspective on the Transformation of the Life Sciences; Nāme-ye-Oloom-e Pāye;2026;15.

- Ali Rahnama,Shamsozoha Abolmaali, **Shakiba Darvish Alipour Astaneh**, Identification of Probiotic Strains from *Adesmia Cancellata* Microbiomes for Vitamin B6 Production: A New Approach to Developing Functional Foods; Int. J. Adv. Biol. Biomed. Res. 2026, 14(2):200-214.

- Farnoosh Majlesain, Ashkan Abbasifard Semnani, Shamsozoha Abolmaali, Mehdi Sadeghi,**Shakiba Darvish Alipour Astaneh,** Isolation and Characterization of A Novel Pbunavirus with promising antibiofilm activity against *Pseudomonas aeruginosa*, Current Microbiology (2025) 82:507.

- 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.

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- Farnoosh Majlesain**, Shakiba Darvish Alipour Astaneh**, Shamsozoha, bolmaali,Nooshin Bijari, Introducing the characteristics of Endolysin as an alternative to antibiotics,2023,25(4), 407-419.

- 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**, Raziyeh 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.

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- 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

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- Elaheh Bechari, Poormohammadi, Mahdi Behzad, Zeinab Abbasi, Shakiba Darvish Alipour Astaneh, Copper complexes of pyrazolone-based Schiff base ligands: Synthesis, crystal structures and antibacterial properties, Journal of Molecular Structure Volume 1205, 5 April 2020, 127603

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- 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 Bazmara1,Iraj Rasooli1, 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

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- **Shakiba Darvish Alipour Astaneh,** Iraj Rasooli, Seyed Latif Mousavi Gargari; Filamentous hemagglutinin adhesin FhaB limits *A.baumannii* biofilm formation, Frontiers In Bioscience, Elite, 9, 2017: 266-275.

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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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- Mehdi Dadashpour1, Iraj Rasooli, Fatemeh Sefidkon, Massoud Taghizadeh, **Shakiba Darvish Alipour Astaneh**; Antimicrobial, antioxidant and cytotoxic properties of *Anethum graveolens* essential oil, Iranian Journal of Medical and Aromatic Plants,2013,29(1).

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PAPER TRANSLATED

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