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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 Hamed.

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 *Cuminum*, *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
- ✚ Mehديه 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:

- ✚ Farnoosh Majlesain, **Shakiba Darvish Alipour Astaneh**, Shamsozoha, bolmaali, Nooshin Bijari, Introducing the characteristics of Endolysin as an alternative to antibiotics (In-press)
- ✚ 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
- ✚ Mahdiah 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**

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- ✚ **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 sorbicilin-producing fungi from Darband cave and evaluating the sorbicilin 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.
- ✚ Iraj Rasooli Raziye Abdolhamidi, Abolfazl Jahangiri, **Shakiba Darvish Alipour Astaneh** Outer membrane protein, Oma87 prevents *Acinetobacter baumannii* infection, 9 March 2020,1-8
- ✚ 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
- ✚ 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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- Hadise Bazmara¹, Iraj Rasooli¹, Abolfazl Jahangiri, Fatemeh Sefid, **Shakiba Darvish Alipour Aastaneh**, 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 Aastaneh**, The Study of bacteriocins produced by *Escherichia coli* and *Bacillus subtilis* against *Klebsiella pneumoniae*, *Journal of microbial world Iran*, 11 (23500336), 2018, 143-154
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- Hassan Heydari Farsani, Iraj Rasooli, Seyed Latif Mousavi Gargari, Shahram Nazarian, **Shakiba Darvish Alipour Aastaneh**; Recombinant outer membrane protein F-B subunit of LT protein as a prophylactic measure against *Pseudomonas aeruginosa* burn infection in mice: *World Journal of Methodology*; 5(4); 2015: 230-7.
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- ✚ **Shakiba Darvish Alipoor 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.
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- ✚ Kobra Ahmadi Zanoos, Iraj Rasooli, Abolfazl Jahangiri, Mohammad Reza Rahbar, **Shakiba Darvish Alipoor Astaneh**; Unveiling a Specific Immunogen Protein in *Acinetobacter baumannii*; Modares Journal of Medical Sciences: Pathobiology; Vol (17); No.1 ; 2014;1 -1 6.
- ✚ 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.
- ✚ Marziyeh Jalali, Iraj Rasooli, Kobra Ahmadi Zanoos, Abolfazl, Jahangiri, Mohammadreza Jalali Nadooshan, **Shakiba Darvish Alipoor Astaneh**; Immunogenicity of Amino Acid Region 7601 -8140 in biofilm Associated Protein of *Acinetobacter baumannii*; Modares Journal of Medical Sciences: Pathobiology; Vol(16); No.4;2014;15-27.
- ✚ Hoda Toobak, Iraj Rasooli, Daryush Talei, Abolfazl Jahangiri, Parviz Owlia, **Shakiba Darvish Alipoor Astaneh**; Immuneresponse variations to *Salmonella entericaserovar Typhi* recombinant porin proteins in ice; Biologicals; Vol (41); NO.4;2013; 224-230.
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Danensis Essential Oil with Commercial Thyme Oil and Thymol; The journal of Zanjan University of Medical Science; 2012,19(77);41-52.

- ✚ Hossein Mohammadpour, Eskandar Moghimipour, Iraj Rasooli, Mohammad Hadi Fakoor, **Shakiba Alipoor Astaneh**, Sara Shehni Moosaie, Zeynab Jalili; Chemical Composition and Antifungal Activity of *Cuminum cyminum* L. Essential Oil From Alborz Mountain Against *Aspergillus* species; Jundishapur Journal of Natural Pharmaceutical Products; Vol 7; NO.2,2012,50-55.
- ✚ Mehdi Dadashpour¹, Iraj Rasooli, Fatemeh Sefidkon, Massoud Taghizadeh, **Shakiba Darvish Alipoor 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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- ✚ Mehdi Dadashpour , Iraj Rasooli , Rahim Sorouri Zanjani , Fatemeh Sefidkon , Massoud Taghizadeh , **Shakiba Darvish Alipoor Astaneh**; Antimicrobial, nitric oxide radical scavenging and cytotoxic properties of *Thymus daenensis* essential oil. Journal of Medical Science: Pathobiology. 2011(Issue 1);37-48.
- ✚ Dadashpour M, Rasooli I, Sefidkon F, Bagher Rezaei M, **Darvish Ali pour Astaneh Sh**; Lipid peroxidation Inhibition, Super Oxide Anion and Nitric Oxide Radical Scavenging Properties of *Thymus daenensis* and *Anethum graveolens* Essential Oils. Journal of medicinal plants. Vol(10), No 37, 2011
- ✚ Tolou Allahghadri, Iraj Rasooli, Parviz Owlia, Mohammadreza Jalali Nadooshan, Tooba Ghazanfari, Massoud Taghizadeh, **Shakiba Darvish Alipoor Astaneh**; Antimicrobial Property, Antioxidant Capacity, and Cytotoxicity of Essential Oil from Cumin Produced in Iran. Journal of food science, Vol (75):No.2:2010; H54–H61
- ✚ Seyedeh Maryam Sharafi, Iraj Rasooli , Ali Dehghan Kashani, Parviz Owlia , Mohammad Bagher Rezaei , **Shakiba Darvish Alipoor Astaneh**; Cytobiochemical Potentials of *Rosa damascena* Mill. Extract; Iranian Journal of Pathology; Vol (5); No.4; 2010;184-193.
- ✚ Seyedeh Maryam Sharafi, Iraj Rasooli, Parviz Owlia, Massoud Taghizadeh, **Shakiba Darvish Alipoor Astaneh**; Protective effects of bioactive phytochemicals from *Mentha piperita* with multiple health potentials; Pharmacognocny magazine; Vol(6); Issue : 23; 2010; 147-153.

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- ✚ Latif Gachkar, Davood Yadegarnia, Mohammad Bager Rezaei, **Shakiba Alipoor Astaneh**, Iraj Rasooli; Chemical and biological characteristics of *Cuminum cyminum* 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.
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PAPER TRANSLATED

- ✚ THE COVID LAB-LEAK HYPOTHESIS: WHAT SCIENTISTS DO AND DON'T KNOW, Translated by **Darvishalipoor Sh**. Nameye Oloom Paye, 1(2), 204-209.
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