

CURRICULUM VITAE



Kambiz Akbari Noghabi

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OTHER PERSONAL DATA

Employee ID: 1026826
Date of Birth: 21th March 1969
Place of Birth: Tehran, Iran
Citizenship: Iranian

EDUCATIONAL BACKGROUND

Doctor of philosophy (Ph. D) in Applied Microbiology-Biotechnology
2003- 2006, Gyeongsang National University (GNSU), South Korea
Average grade: A⁺

-Thesis: Production of a novel cold-induced biopolymer by *Pseudomonas fluorescens* BM07; its structural characterization & environmental applications.

I was eligible to receive an honorable scholarship from BK21 (Brain Korea 21 Program) which was one of the best supports available to eligible international students.

SUBJECT OF INTEREST

Environmental & Industrial Biotechnology, Different Aspects of Cellular & Molecular Biology of Microorganisms

RESEARCH ACTIVITIES

Multidisciplinary collaborative research in biological sciences including: microbial natural products, environmental microbiology, bio-nanotechnology, cellular and molecular microbiology

REFEERING WORK & ACTIVITIES

Enzyme & Microbial Technology (EMT) (Elsevier), **Journal of Hazardous Materials** (Elsevier), **Bioresource Technology** (Elsevier), **Journal of Basic Microbiology** (Wiley), **Journal of Biotechnology** (Elsevier), **Journal of the Taiwan Institute of Chemical Engineers (JTICE)** (Elsevier), **Journal of Bioscience and Bioengineering** (Elsevier), **Process Biochemistry** (Elsevier), **Polish Journal of Microbiology (PJM)**, **Biodegradation** (Springer), **Environmental Technology** (Francis & Taylor), **Colloids and Surfaces B** (Elsevier), **Environmental Engineering Science (EES)**, **Environmental Progress** (Wiley), **Journal of Preparative Biochemistry & Biotechnology** (Francis & Taylor), **Material Letters** (Elsevier), **Applied Biochemistry and Biotechnology** (Springer), **Biotechnology & Bioengineering** (Wiley), **PloS One**, **Applied Biochemistry & Biotechnology** (Springer), **Biotechnology & Bioengineering** (Wiley), **Desalination and Water Treatment**, **Scientific Reports** (Nature publishing group)

Editorial contributions:

1- Recent Patent on Chemical Engineering (International Journal publishes review articles by experts on recent patents in chemical engineering (Bentham Science publisher).

2- Iranian Journal of Biotechnology (IJB)

SKILLS

Micobiological techniques (Enrichment & Isolation, Biochemical and Molecular typing and taxonomical methods, Spectrophotometric methods, Protein and Sugar determination, Preparation of bacterial spheroplast, Antibacterial assay, Bacterial biofilms analysis, Phylogenetic analysis and Taxonomic identification, Bacterial bio-based materials (Extracellular & Intracellular) purification & structural characterization, GC, FT-IR, ATR/FTIR, DSC, GC & GC-Mass, PCR, Gene cloning, Real-time PCR, 1D & 2D Gels, Proteomics (MALDI-TOF).

ACADEMIC APPOINTMENTS

Position	Organization	Department	Period
Associate Professor	NIGEB	Energy & Environmental Biotechnology	2015-present
Member of the Supervisory Board	NIGEB		2015-present
Director	NIGEB	Industrial & Environmental Biotechnology	2020-present
Assistant Professor	NIGEB	Molecular Genetics	2007-2015
Director	NIGEB	Industrial & Environmental Biotechnology	2013-2014
Research Deputy	NIGEB		2010-2012
Director	NIGEB	Molecular Genetics	2007-2009
Member of the selected committee	NIGEB		2010-present
Research Associate	Tehran University	Institute of Biochemistry and Biophysics (IBB)	1997-1999

PUBLICATIONS

2022

- 1- Fatemeh Saadati, Shahab Shahryari, Naeema Mohseni Sani, Davoud Farajzadeh, Hossein Shahbani Zahiri, Hojatollah Vali, **Kambiz Akbari Noghabi** (2022). Effect of MA01 rhamnolipid on cell viability and expression of quorum-sensing (QS) genes involved in biofilm formation by methicillin-resistant *Staphylococcus aureus*. **Scientific Reports** (Nature publishing group), 12, 14833.
- 2- Rajabi, M., Nourisanami, F., Ghadikolaie, K.K. et al. Metagenomic psychrophilic xylanase from camel rumen investigated for bioethanol production from wheat bran using *Bacillus subtilis* AP. **Scientific Reports** (Nature publishing group), 12, 8152.
- 3- Aisan Azarivand, Nazanin Akbari Noghabi, Shahab Shahryari, Hojatollah Vali, Hossein Shahbani Zahiri, **Kambiz Akbari Noghabi** (2022). Comparison of growth performance, pigment synthesis, and esterase activity of *Synechococcus* sp. HS01 and *Limnothrix* sp. KO01 in response to cadmium toxicity. **Current Microbiology** (Springer), 79, Article number: 125.
- 4- Saeed Soleimani Asl, Ali Asghar Karkhane, Javad Zamani Amirzakaria, **Kambiz Akbari Noghabi**, Jaleh Ghashghaie (2022). Structure and activity of a novel robust peroxidase from *Alkanna frigida* cell culture. **Phytochemistry** (Elsevier), 194:11302.
- 5- Vali Chegini, Kamran Akbari Noghabi, Kian Pahlevan Afshari, Mojgan Ebadi, **Kambiz Akbari Noghabi** (2022). Biological synthesis of ZnO nanoparticles using ethanolic extract of *Satureja sahendica* Bornm: its characterization and antimicrobial features. **Biomass Conversion and Biorefinery** (Springer), Article in Press.

2021

- 6- Shahab Shahryari, Parvin Mohammadnejad, **Kambiz Akbari Noghabi** (2021). Screening of anti-*Acinetobacter baumannii* phytochemicals, based on the potential inhibitory effect on OmpA and OmpW functions. **Royal Society Open Science** (Royal Society of Chemistry), 8: 201652.
- 7- Fatemeh Maleki, Mohammad Changizian, Narges Zolfaghari, Sarah Rajaei, **Kambiz Akbari Noghabi**, Hossein Shahbani Zahiri (2021). Consolidated bioprocessing for bioethanol production by metabolically engineered *Bacillus subtilis* strains. **Scientific Reports** (Nature publishing group), 11, 13731.
- 8- Sima Modiri, Rouha Kasra Kermanshahi, Mohammad Reza Soudi, Navid Dad, Mozghan Ebadi, Hossein Shahbani Zahiri, **Kambiz Akbari Noghabi** (2021). Growth optimization of *Lactobacillus acidophilus* for the production of antimicrobial peptide Acidocin 4356: Scale up from flask to lab-scale fermenter. **Iranian Journal of Biotechnology**, Article in Press.

9- Mojgan Ebadi, Mohammad Reza Zolfaghari, Seyyed Soheil Aghaei, Mohsen Zargar, **Kambiz Akbari Noghabi** (2021). *Desertifilum* sp. EAZ03 cell extract as a novel natural source for the biosynthesis of zinc oxide nanoparticles: its antibacterial, anticancer, and antibiofilm characteristics of synthesized zinc oxide nanoparticles. **Journal of Applied Microbiology** (Wiley), Article in Press.

10- Shahab Shahryari, Mahbubeh Talaei, Kamahldin Haghbeen, Lorenz Adrian, Hojatollah Vali, Hossein Shahbani Zahiri, **Kambiz Akbari Noghabi** (2021). New provisional function of OmpA from *Acinetobacter* sp. strain SA01 based on environmental challenges. **mSystems** (American Society for Microbiology), 6, e01175-20.

11- Mona Pourbaferani, Sima Modiri, Amir Norouzy, Hadi Maleki, Mohadeseh Heidari, Leila Alidoust, Venus Derakhshan, Hossein Shahbani Zahiri, **Kambiz Akbari Noghabi** (2021). A newly characterized potentially probiotic strain, *Lactobacillus brevis* MK05, and the toxicity effects of its secretory proteins against MCF-7 breast cancer cells. **Probiotics and Antimicrobial Proteins** (Springer), <https://doi.org/10.1007/s12602-021-09766-8>.

2020

12- Zeinab Piervandi, Ahmad Khodadadi Darban, Seyed M Mousavi, Mahmoud Abdollahi, Gholamreza Asadollahfardi, **Kambiz Akbari Noghabi** (2020). A proposed biochemical protocol to isolate and characterize acidophilic bacteria from Tailings soil. **Journal of Mining and Environment**, 4, 1157-1171.

13- Mahdi Zafari, Mahsa Adibi, Mohsen Chiani, Negin Bolourchi, Seyed Mahmoud Barzi, Mohammad Sadegh Shams Nosrati, Zeinab Bahari, Parisa Shirvani, **Kambiz Akbari Noghabi**, Mojgan Ebadi (2020). Effects of cefazolin-containing niosome nanoparticles against methicillin-resistant *Staphylococcus aureus* biofilm formed on chronic wounds. **Biomedical Materials** (IOP Publishing), 16, 035001.

14- Sara Kadkhodaei, Farideh Siavoshi, **Kambiz Akbari Noghabi** (2020). Mucoid and coccoid *Helicobacter pylori* with fast growth and antibiotic resistance. **Helicobacter** (Wiley), 25, e12678.

15- Sima Modiri, Rouha Kasra Kermanshahi, Mohammad Reza Soufi, Seyed Shahriar Arab, Anahita Khammari, Benoit Cousineau, Hojatollah Vali, Hossein Shahbani Zahiri, **Kambiz Akbari Noghabi** (2020). Multifunctional Acidocin 4356 peptide combats *Pseudomonas aeruginosa* through membrane perturbation and virulence attenuation: Experimental results confirmed molecular dynamic simulation. **Applied and Environmental Microbiology (AEM)** (American Society for Microbiology), 86 (10), e00367-20.

16- Omid Haghighi, Soheila Davaeifar, Hossein Shahbani Zahiri, Hadi Maleki, **Kambiz Akbari Noghabi** (2020). Homology Modeling and molecular docking studies of glutamate dehydrogenase (GDH) from *Cyanobacterium Synechocystis* sp. PCC 6803. **International Journal of Peptide Research and Therapeutics**, 26, 783-793.

2019

17- Sima Modiri, Hossein Shahbani Zahiri, **Kambiz Akbari Noghabi** (2019). Evaluation of bacterial lipid production: Quantitative and qualitative measurements: Tips and Guidelines. **Methods in Molecular Biology**, (Book Chapter, Springer), 395-403.

18- Rasoul Khademolhosseini, Arezou Jafari, Seyyed Mohammad Mousavi, Hamidreza Hajfarajollah, **Kambiz Akbari Noghabi**, Mehrdad Manteghian (2019). Physicochemical

characterization and optimization of glycolipid biosurfactant production by a native strain of *Pseudomonas aeruginosa* HAK01 and its performance evaluation for the MEOR process. **RSC Advances** (Royal Society of Chemistry), 9, 7932-7947.

19- Mohammad Ali Amoozegar, Atefeh Safarpour, **Kambiz Akbari Noghabi**, Tala Bakhtiary, Antonio Ventosa (2019). Halophiles and their vast potential in biofuel production. **Frontiers in Microbiology**, 10 (art. 1895), 1-17.

20- Mojgan Ebadi, Hossein Shahbani Zahiri, **Kambiz Akbari Noghabi** (2019). A bio-inspired strategy for the synthesis of zinc oxide nanoparticle (ZnO) using the cell extract of cyanobacterium *Nostoc* sp. EA03: From biological function to toxicity evaluation. **RSC Advances** (Royal Society of Chemistry), 9 (41), 23508-23525.

21- Mahdieh Safaei, Hadi Maleki, Hamidreza Soleimanpour, Amir Norouzy, Hossein Shahbani Zahiri, Hojatollah Vali & **Kambiz Akbari Noghabi** (2019). Development of a novel method for the purification of C-phycoerythrin pigment from a local cyanobacterial strain *Limnospira* sp. NS01 and evaluation of its anticancer properties. **Scientific Reports** (Nature publishing group). 9, 9474.

22- Kamran Khalili Ghadikolaei, Elham Dasi Sangachini, Vasimeh Vahdatirad, **Kambiz Akbari Noghabi**, Hossein Shahbani Zahiri (2019). An extreme halophilic xylanase from camel rumen metagenome with elevated catalytic activity in high salt concentrations. **AMB Express** (Springer), 9:86.

23- Soheila Davaeifar, Hossein Shahbani Zahiri, Mohammad Hossein Modarresi, Morvarid Shafiei, **Kambiz Akbari Noghabi** (2019). Synthesizing, characterizing, and cytotoxicity evaluating of functionalized phycoerythrin-ZnO nanorods: A back to nature approach. **Colloids and Surfaces B** (Elsevier), 175, 221-230.

24- Leila Alidoust, Hossein Shahbani Zahiri, Hadi Maleki, Neda Soltani, Hojatollah Vali, **Kambiz Akbari Noghabi** (2019). *Nostoc entophyllum* cell response to cadmium exposure: A possible role of chaperon proteins GroEl and HtpG in cadmium-induced stress. **Ecotoxicology and Environmental Safety** (Elsevier), 169: 40-49.

25- Somayeh Ebrahimi, Hasan Jalili, Khosro Khajeh, **Kambiz Akbari Noghabi**, Abdeltif Amrane (2019). Production and characterization of biosurfactants using bacteria isolated from acidic hot springs. **Applied Food Biotechnology**, 6: 127-138.

26- Hamidreza Hajfarajollah, Babak Mokhtarani, Azadeh Tohidi, Shayesteh Bazsefidpar, **Kambiz Akbari Noghabi** (2019). Overproduction of lipopeptide biosurfactant by *Aneurinibacillus thermoaerophilus* HAK01 in various fed-batch modes under thermophilic conditions. **RSC Advances** (Royal Society of Chemistry), 9, 30419-30427.

2018

27- Shahab Shahryari, Hossein Shahbani Zahiri, Kahmaledeen Haghbeen, Lorenz Adrian, **Kambiz Akbari Noghabi** (2018). High phenol degradation capacity of a newly characterized *Acinetobacter* sp. SA01: Bacterial cell viability and membrane impairment in respect to the phenol toxicity. **Ecotoxicology and Environmental Safety** (Elsevier), 164: 455-466.

28- Sima Modiri, Hossein Shahbani Zahiri, Hojatollah Vali, **Kambiz Akbari Noghabi** (2018). Evaluation of transcription profile of acetyl-CoA carboxylase (ACCase) and acyl-ACP synthetase (AAS) to reveal their roles in induced lipid accumulation of *Synechococcus* sp. HS01. **Renewable Energy** (Elsevier), 129: 347-356.

29- Hamidreza Hajfarajollah, Parisa Eslami, Babak Mokhtarani, **Kambiz Akbari Noghabi** (2018). Biosurfactants from probiotic bacteria: A review. *Biotechnology and Applied Biochemistry* (Wiley), 65: 768-783.

30- Kamran Khalili Ghadikolaei, Javad Gharechahi, Kahmaledeen Haghbeen, Golamreza Hosseini Salekdeh, **Kambiz Akbari Noghabi**, Hossein Shahbani Zahiri (2018). A cold-adapted endoglucanase from camel rumen with high catalytic activity at moderate and low temperatures: an anomaly of truly cold-adapted evolution in a mesophilic environment. *Extremophiles* (Springer), 22: 315-326.

31- Neda Sajedinejad, Mojgan Paknejad, Behzad Houshmand, Hakimeh Sharafi, Reza Jelodar, Hossein Shahbani Zahiri, **Kambiz Akbari Noghabi** (2018). *Lactobacillus salivarius* NK02: a potent probiotic for clinical application in mouthwash. *Probiotics and Antimicrobial Proteins* (Springer), 10(3): 485-495.

2017

32- Kamran Khalili Ghadikolaei, **Kambiz Akbari Noghabi**, Hossein Shahbani Zahiri, (2017). Development of a bifunctional xylanase-cellulase chimera with enhanced activity on rice and barley straws using a modular xylanase and an endoglucanase procured from camel rumen metagenome. *Applied Microbiology and Biotechnology (AMB)* (Springer), 101: 6929-6939.

33- Morvarid Shafiei, Ahya Abdi-Ali, Fereshteh Shahcheraghi, Hojatollah Vali, Hossein Shahbani Zahiri, **Kambiz Akbari Noghabi** (2017). Analysis of *Pseudomonas aeruginosa* PAO1 planktonic and biofilm protein profiles after exposure to *n*-butanolic *Cyclamen coum* extract alone and in combination with ciprofloxacin. *Applied Biochemistry & Biotechnology* (Springer), 182: 1444-1457.

34- Omid Haghighi, Shahab Shahryari, Mojgan Ebadi, Sima Modiri, Hossein Shahbani Zahiri, Hadi Maleki, **Kambiz Akbari Noghabi** (2017). *Limnothrix* sp. KO05: A newly characterized cyanobacterial biosorbent for cadmium removal: its enzymatic and non-enzymatic antioxidant reactions to metal toxicity. *Journal of Environmental Toxicology & Pharmacology* (Elsevier), 51: 142-155.

35- Jamshid Raheb, Seyed Abolghassem Mohammadi Bondarkhilli, Mehdi Mohammadi, **Kambiz Akbari Noghabi**, Hossein Shahbani, Arefeh Alipour (2017). Cloning and expression of rhl AB operon under the control of tac promoter in *E. coli*. *International Journal of Molecular and Clinical Microbiology*, 7: 855-868.

2016

36- Navvabeh Salarizadeh, Sadegh Hasannia, Reza Hassan Sajedi, Navid Lamei, Afshin Mohsenifar, **Kambiz Akbari Noghabi** (2016). Comprehensive study of serratia peptidase immobilization from *Serratia* sp. ZF03 onto chitosan nanogels. *Turkish Journal of Biochemistry* 41: 377-383.

37- Jalila Ben Salah-Abbès, Rania Jebali, Hakimeh Sharafi, **Kambiz Akbari Noghabi**, Ridha Oueslati, Samir Abbès (2016). Immuno-physiological alterations from AFB₁ in rats counteracted by treatments with *Lactobacillus paracasei* BEJ01 and montmorillonite clay mixture. *Journal of Immunotoxicology* (Taylor & Francis), 13: 628- 637.

38- Fatemeh Masoumi, Leila Alidoust, Zahra Mansourinejad, Shahab Shahryari, Mahdieh Safaei, Amir Mousavi, Ali-Hatef Salmanian, Hossein Shahbani Zahiri, Hojatollah Vali, **Kambiz Akbari Noghabi** (2016). Nickel and lead biosorption by *Curtobacterium* sp. FM01, an indigenous bacterium isolated from farmland soils of northeast Iran. *Journal*

of Environmental Chemical Engineering (Elsevier), 4: 950-957.

39- Leila Alidoust, Neda Soltani, Sima Modiri, Omid Haghghi, Aisan Azarivand, Khosro Khajeh, Hossein Shahbani Zahiri, Hojatollah Vali, **Kambiz Akbari Noghabi** (2016). Cadmium uptake capacity of an indigenous cyanobacterial strain, *Nostoc entophyllum* ISC32: new insight into metal uptake in microgravity-simulating conditions. **Microbiology** (SGM), 162: 246-255.

40- Kamran Khalili Ghadikolaee, Maral Shojaei, Armin Ghaderi, **Kambiz Akbari Noghabi**, Hossein Shahbani Zahiri (2016). Biochemical properties of Glu-SH3 as a family 13 glycoside hydrolase with remarkable substrate specificity for trehalose: Implications to sequence-based classification of CAZymes. **Archives of Biochemistry and Biophysics** (Elsevier), 603: 1-9.

2015

41- Sanam Anvari, Hamidreza Hajfarajollah, Babak Mokhtarani, **Kambiz Akbari Noghabi** (2015). Physicochemical and thermodynamic characterization of lipopeptide biosurfactant secreted by *Bacillus tequilensis* HK01. **RSC Advances** (Royal Society of Chemistry), 5: 91836-91845.

42- Sara Rajaei, **Kambiz Akbari Noghabi**, Majid Sadeghizadeh, Hossein Shahbani Zahiri (2015). Characterization of a pH and detergent tolerant, cold adapted type I pullulanase from *Exiguobacterium* sp. SH3. **Extremophiles** (Springer), 19: 1145-1155.

43- Javad Gharechahi, Hossein Shahbani Zahiri, **Kambiz Akbari Noghabi**, Ghasem Hosseini Salekdeh (2015). In-depth diversity analysis of the bacterial community resident in the camel rumen. **Systematic and Applied Microbiology** (Elsevier), 38: 67-76.

44- Hamidreza Hajfarajollah, Saeid Mehvari, Mahmoud Habibian, Babak Mokhtarania, **Kambiz Akbari Noghabi** (2015). Rhamnolipid biosurfactant adsorption on a plasma-treated polypropylene surface to induce antimicrobial and antiadhesive properties. **RSC Advances** (Royal Society of Chemistry), 5:33089- 33097.

45- Sima Modiri, Leila Alidoust, Hamidreza Hajfarajollah, Omid Haghghi, Aisan Azarivand, Hossein Shahbani Zahiri, Hojatollah Vali, **Kambiz Akbari Noghabi** (2015). Lipid production and mixotrophic growth features of cyanobacterial strains isolated from various aquatic sites. **Microbiology** (SGM), 61:662-673.

46- Ali Vahabi, Ali Akbar Ramezani-pour, **Kambiz Akbari Noghabi** (2015). A preliminary insight into the revolutionary new line in improving concrete properties using an indigenous bacterial strain *Bacillus licheniformis* AK01, as a healing agent. **European Journal of Environmental and Civil Engineering** (Taylor & Francis), 19:614-627.

47- Mahsa Emampour, **Kambiz Akbari Noghabi**, Hossein Shahbani Zahiri (2015). Molecular cloning and biochemical characterization of a novel cold-adapted alpha-amylase with multiple extremozyme characteristics. **Journal of Molecular Catalysis B: Enzymatic** (Elsevier), 111: 79-86.

48- Hakimeh Sharafi, Venos Derakhshan, Mojgan Paknejad, Leila Alidoust, Azadeh Tohidi, Majid Pornour, Hamidreza Hajfarajollah, Hossein Shahbani Zahiri, **Kambiz Akbari Noghabi** (2015). *Lactobacillus crustorum* KH: Novel prospective probiotic strain isolated from Iranian traditional dairy products. **Applied Biochemistry and Biotechnology** (Springer), 175(4):2178-2194.

49- Ali Vahabi, Ali Akbar Ramezani-pour, Hakimeh Sharafi, Hossein Shahbani Zahiri,

Hojatollah Vali, **Kambiz Akbari Noghabi** (2015). Calcium carbonate precipitation by strain *Bacillus licheniformis* AK01: A promising alternative for sealing cement-based materials. **Journal of Basic Microbiology** (Wiley), 55: 105-111.

50- Sadaf Mahboudi, Mohamad Pezeshki-Modaress & **Kambiz Akbari Noghabi** (2015). The study of fibroblast cell growth on the porous scaffold of gelatin–starch blend using the salt-leaching and lyophilization method. **International Journal of Polymeric Materials** (Taylor & Francis), 64:653-659.

2014

51- Navvabeh Salarizadeh, Sadegh Hasannia, **Kambiz Akbari Noghabi**, Reza Hassan Sajedi (2014). Purification and characterization of 50 kDa extracellular metalloprotease from *Serratia* sp. ZF03. **Iranian Journal of Biotechnology** (IJB). 12: 18-27.

52- Nesa Jafari, Reza Behroozi, Davoud Farajzadeh, Mohammad Farsi, **Kambiz Akbari Noghabi** (2014). Antibacterial activity of *Pseudonocardia* sp. JB05, a rare salty soil Actinomycete against *Staphylococcus aureus*. **BioMed Research International** (Article ID 182945).

53- Hamidreza Hajfarajollah, Babak Mokhtarani, **Kambiz Akbari Noghabi** (2015). Newly antibacterial and antiadhesive lipopeptide biosurfactant secreted by a probiotic strain, *Propionibacterium freudenreichii*. **Applied Biochemistry and Biotechnology** (Springer). 174: 2725-2740.

54- Hamidreza Hajfarajollah, Babak Mokhtarani, **Kambiz Akbari Noghabi** (2014). Antibacterial and antiadhesive properties of butyl-methylimidazolium ionic liquids toward pathogenic bacteria. **RSC Advances** (Royal Society of Chemistry). 8: 42751-42757.

55- Elnaz Khadivinia, Hakimeh Sharafi, Faranak Hadi, Hossein Shahbani Zahiria, Shahab Faghihi, Amir Mousavi, Ali Hatef Salmanian, **Kambiz Akbari Noghabi** (2014). Cadmium biosorption by a glyphosate-degrading bacterium, *Ochrobactrum* sp. GDOS, a novel biosorbent isolated from pesticide-contaminated soils. **Journal of Industrial and Engineering Chemistry** (Elsevier), 20: 4304-4310.

56- Morvarid Shafiei, Ahya Abdi Ali, Fereshteh Shahcheraghi, Azra Saboora, **Kambiz Akbari Noghabi** (2014). Eradication of *Pseudomonas aeruginosa* biofilms using the combination of n-butanolic *Cyclamen coum* extract and ciprofloxacin. **Jundishapur Journal of Microbiology** 7(2): e14358.

57- Nasrin Masoudzadeh, Sima Modiri, Hamidreza Hajfarajollah, Hakimeh Sharafi, Hossein Shahbani Zahiri, Hojatollah Vali, **Kambiz Akbari Noghabi** (2014). Distinctive protein expression patterns of the strain *Brevundimonas* sp. ZF12 isolated from the aqueous zone containing high levels of radiation to cadmium-induced stress. **Journal of Biotechnology** (Elsevier), 186: 49-57.

58- Fatemeh Gashtasbi, Gholamreza Ahmadian, **Kambiz Akbari Noghabi** (2014). New insights into the effectiveness of alpha-amylase enzyme presentation on the *Bacillus subtilis* spore surface by adsorption and covalent immobilization. **Enzyme & Microbial Technology** (Elsevier). 64-65: 17-23.

59- Hadi Maleki, Ali Misaghi, Abbas Saidi, **Kambiz Akbari Noghabi** (2014). Rational evaluation of antimicrobial properties of lactobacilli isolates against *E. coli* O157:H7, *L. monocytogenes*, *A. parasiticus* and *C. parapsilosis*; suggesting a new method in comparing the indicator microorganism's susceptibility. **Iranian Journal of Veterinary Medicine (IJVM)**. 7: 243-252.

60- Hakimeh Sharafi, Mahya Abdoli, Hamidreza Hajfarajollah, Nima Samie, Leila Alidoust, Habib Abbasi, Jamshid Fooladi, Hossein Shahbani Zahiri, **Kambiz Akbari Noghabi** (2014). First report of a lipopeptide biosurfactant from thermophilic bacterium *Aneurinibacillus thermoaerophilus* MK01 newly isolated from municipal landfill site. **Applied Biochemistry and Biotechnology** (Springer), 173: 1236-1249.

61- Leila Mojalali, Hossein Shahbani Zahiri, Sarah Rajaei, **Kambiz Akbari Noghabi**, Kamahldin Haghbeen (2014). A novel, ~34 kDa α -amylase from psychrotroph *Exiguobacterium* sp. SH3: production, purification and characterization. **Biotechnology and Applied Biochemistry** (Wiley), 61: 118-125.

62- Garshasb Rigi, Samira Ghaed Mohammadi, Maryam Rezaei Arjomand, Gholamreza Ahmadian, **Kambiz Akbari Noghabi** (2014). Optimization of extracellular truncated Staphylococcal Protein A (SpA) expression in *Escherichia coli* BL21 (DE3). **Biotechnology and Applied Biochemistry** (Wiley), 61: 217-25.

63- Sara Rajaei, Reza Heidari, Hossein Shahbani Zahiri, Sara Sharifzadeh, Ibrahim Torktaz, **Kambiz Akbari Noghabi** (2014). A novel cold-adapted pullulanase from *Exiguobacterium* sp. SH3: Production optimization, purification, and characterization. **Starch/Staerke** (Wiley), 66: 225-234.

2013

64- Majid Vahed, Ebrahim Motalebi, Garshasb Rigi, **Kambiz Akbari Noghabi**, Mohammad Reza Soudi, Mehdi Sadeghi, Gholamreza Ahmadian (2013). Improving chitinolytic activity of *Bacillus pumilus* SG2 by random mutagenesis. **Journal of Microbiology and Biotechnology** (Springer), 23: 1519-1528.

65- Samir Abbes, Jalila Ben Salah-Abbes, Hakimeh Sharafi, Ridha Oueslati, **Kambiz Akbari Noghabi**, (2013). *Lactobacillus paracasei* BEJ01 prevents immunotoxic effects during chronic zearalenone exposure in Balb/c mice. **Journal of Immunopharmacology and Immunotoxicology** (Taylor & Francis), 35: 341-348.

66- Habib Abbasi, Francisco J. Aranda, **Kambiz Akbari Noghabi**, Antonio Ortiz (2013). A bacterial monorhamnolipid alters the biophysical properties of phosphatidylethanolamine model membranes. **Biochimica et Biophysica Acta (BBA)-Biomembranes** (Elsevier), 1828: 2083-2090.

67- Atefe Bodagh, Hamid Khoshdast, Hakimeh Sharafi, Hossein Shahbani Zahiri, **Kambiz Akbari Noghabi** (2013). Removal of cadmium(II) from aqueous solution by ion flotation using rhamnolipid biosurfactant as an ion collector. **Industrial and Engineering Chemistry Research** (ACS publication) 52: 3910-3917.

68- Hakimeh Sharafi, Leila Alidoust, Majid Lababpour, Hossein Shahbani Zahiri,, Habib Abbasi, Hojatollah Vali, **Kambiz Akbari Noghabi** (2013). Antibacterial activity of probiotic *Lactobacillus plantarum* HK01: Effect of divalent metal cations and food additives on production efficiency of antibacterial compounds. **Probiotics and Antimicrobial Proteins** (Springer) 5: 121-130.

69- Habib Abbasi, **Kambiz Akbari Noghabi**, Mir Manochehr Hamedi, Hossein Shahbani Zahiri, Ali Akbar Moosavi-Movahedi, Massoud Amanlou, Antonio Ortiz (2013). Physicochemical characterization of a monorhamnolipid secreted by *Pseudomonas aeruginosa* MA01 in aqueous media. An experimental and molecular dynamics study. **Colloids and Surfaces B** (Elsevier) 101: 256-265.

70- Ibrahim Torktaz, Hossein Shahbani Zahiri, **Kambiz Akbari Noghabi** (2013). In silico modeling of the type 2 IDI enzymes of *Bacillus licheniformis*, *Pseudomonas stutzeri*, *Streptococcus pyogenes*, and *Staphylococcus aureus* for virtual screening of potential inhibitors of this therapeutic target. **Journal of Molecular Graphics and Modelling** (Elsevier) 39: 176-182.

71- Habib Abbasi, Hakimeh Sharafi, Leila Alidost, Atefe Bodagh, Hossein Shahbani Zahiri, **Kambiz Akbari Noghabi** (2013). Response surface optimization of biosurfactant produced by *Pseudomonas aeruginosa* MA01 isolated from spoiled apples. **Journal of Preparative Biochemistry and Biotechnology** (Taylor & Francis), 43: 398-414.

72- Hakimeh Sharafi, Hadi Maleki, Gholamreza Ahmadian, Hossein Shahbani Zahiri,, Behzad Houshmand, Hojatollah Vali, **Kambiz Akbari Noghabi** (2013). Antibacterial activity of probiotic *Lactobacillus plantarum* HKN01: A new insight into the morphological changes of HKN01 antibacterial compound-treated *E. coli* by electron microscopy. **Journal of Microbiology and Biotechnology** (Springer), 23: 225-236.

73- Samir Abbes, Jalila Ben Salah-Abbes, Hakimeh Sharafi, Rania Jebali, **Kambiz Akbari Noghabi**, Ridha Oueslati (2013). Ability of *Lactobacillus rhamnosus* GAF01 to remove AFM1 *in vitro* and to counteract AFM1 immunotoxicity *in vivo*. **Journal of Immunotoxicology** (Taylor & Francis), 10: 279-286.

2012

74- Habib Abbas, **Kambiz Akbari Noghabi**, Antonio Ortiz (2012). Interaction of a bacterial monorhamnolipid secreted by *Pseudomonas aeruginosa* MA01 with phosphatidylcholine model membranes. **Chemistry and Physics of Lipids** (Elsevier) 165: 745-752.

75- Faranak Hadi, Amir Mousavi, Ali Hatef Salmanian, Khosro Khajeh, Kambiz Akbari Noghabi (2012). New bacterial strain of the genus *Ochrobactrum* with glyphosate-degrading activity. **Journal of Environmental Science and Health, Part B**. (Taylor & Francis), 48: 208- 213.

76- Saeed Najavand, Abbas Sahebgadam Lotfi, Kambiz Akbari Noghabi, Afshin Mohsenifar, Majid Mohajer Milani, Ali Mota-Kalvanagh, Reza Behrouzi, Fatemeh Masoumi (2012). A high potential organophosphorus pesticide-degrading enzyme from a newly characterized, *Pseudomonas aeruginosa* NL01. **African Journal of Microbiology Research** 6: 4261- 4269.

77- Reza Heydari, Hossein Shahbaniz Zahiri, **Kambiz Akbari Noghabi** (2012). Optimization of α -amylase enzyme produced by an indigenous bacterial strain *Exiguobacterium* sp. **Starch-Stärke** (Wiley) 64: 955-963.

78- Faranak Hadi, Amir Mousavi, Ali Hatef Salmanian, **Kambiz Akbari Noghabi**, Khosro Khajeh (2012). Glyphosate Tolerance in Transgenic canola by a modified glyphosate oxidoreductase (gox) gene. **Progress in Biological Sciences** 2: 52-58.

79- Reza Assareh, Hossein Shahbani Zahiri, **Kambiz Akbari Noghabi**, Saeed Aminzadeh, Gholamreza Bakhshi khaniki (2012). Characterization of the newly isolated *Geobacillus* sp. T1, the efficient cellulase-producer on untreated barley and wheat straws. **Bioresource Technology** (Elsevier), 120: 99-105.

80- Faranak Hadi, Ali Hatef Salmanian, Elham Ghazizadeh, Jafar Amani, **Kambiz Akbari Noghabi**, Amir Mousavi (2012). Development of quantitative competitive PCR for determination of copy number and expression level of the synthetic glyphosate oxidoreductase gene in transgenic canola plants. **Electronic Journal of Biotechnology**

DOI: 10.2225/vol15-issue4-fulltext-5.

81- Farideh Zakeri, Majid Sadeghizadeh, Mohammad Reza Kardan, Hossein Shahbani Zahiri, Gholamreza Ahmadian, Fatemeh Masoumi, Hakimeh Sharafi, Garshasb Rigi, Hojatollah Vali, **Kambiz Akbari Noghabi** (2012). Differential proteome analysis of a selected bacterial strain isolated from a high background radiation area in response to radium stress. **Journal of Proteomics** (Elsevier) 75: 4820-4832.

82- Nima Samie, **Kambiz Akbari Noghabi**, Hossien Shahbani Zahiri, Habib Abbasi, Hakimeh Sharafi, Reza Behrozi, Hojatollah Vali (2012). A novel psychrophilic α -amylase producing bacterium, *Aeromonas veronii* NS07 isolated from farm soils. **Process Biochemistry** (Elsevier) 47: 1381-1387.

83- Samir Abbès, Jalila Ben Salah-Abbès, Hakimeh Sharafi, **Kambiz Akbari Noghabi**, Ridha Oueslati (2012). Interaction of *Lactobacillus plantarum* MON03 with Tunisian Montmorillonite clay and ability of the composite to immobilize Zearalenone in vitro and counteract immunotoxicity in vivo. **Journal of Immunopharmacology and Immunotoxicology** 34(6): 944-950.

84- Hamid Khoshdast, Habib Abbasi, Abbas Sam, **Kambiz Akbari Noghabi** (2012) Frothability and surface behavior of a rhamnolipid biosurfactant produced by *Pseudomonas aeruginosa* MA01. **Biochemical Engineering Journal** (Elsevier) 60: 127-134.

85- Habib Abbasi, Mir Manochehr Hamedi, Tayebe Bagheri Lotfabad, Hossein Shahbani Zahiri, Fatemeh Masoomi, Antonio Ortiz, Massoud Amanlou, **Kambiz Akbari Noghabi** (2012). Biosurfactant-producing bacterium, *Pseudomonas aeruginosa* MA01 isolated from spoiled apples: Physicochemical and structural characteristics of isolated biosurfactant. **Journal of Bioscience and Bioengineering** (Elsevier) 113: 211-219.

86- Sara Abolhasani Rad, Hossein Shahbani Zahiri, **Kambiz Akbari Noghabi**, Sara Rajaei, Reza Heidari, Leila Mojallali (2012). Type 2 IDI performs better than type 1 for improving lycopene production in metabolically engineered *E. coli* strains. **World Journal of Microbiology and Biotechnology** (Springer) 28: 313-321.

2011

87- Hamid Khoshdast, Abbas Sam, Hojatollah Vali, **Kambiz Akbari Noghabi** (2011). Effect of rhamnolipid biosurfactants on performance of coal and mineral flotation. **International Biodeterioration & Biodegradation** (Elsevier) 65: 1238-1243.

88- Nasrin Masoudzadeh, Fardideh Zakeri, Tayebe bagheri Lotfabad, Hakimeh Sharafi, Fatemeh Masoomi, Hosein Shahbani Zahiri, Gholamreza Ahmadian, **Kambiz Akbari Noghabi** (2011) Biosorption of cadmium by *Brevundimonas* sp. ZF12 strain, a novel biosorbent isolated from hot-spring waters in high background radiation areas. **Journal of Hazardous Materials** (Elsevier) 197: 190-197.

89- Mandana Zarei, Saeed Aminzadeh, Hossein Zolgharnein, Alireza Safahieh, Morteza Daliri, **Kambiz Akbari Noghabi**, Ahmad Ghoroghi, Abbasali Motallebi (2011). Characterization of a chitinase with antifungal activity from a native *Serratia marcescens* B4A. **Brazilian Journal of Microbiology** (Elsevier) 42: 1017-1029.

90- K. Haghbeen, S. Pourmolaei, M. J. Mareftjo, A. Mousavi, **Kambiz Akbari Noghabi**, F. Hosseini Shirazi, A. Meshkat (2011). Detailed investigations on the solid cell culture and antimicrobial activities of the Iranian *Arnebia euchroma*. **Journal of Biomedicine and Biotechnology**, 2011:165852.

2010

91- Tayebe B. Lotfabad, Habib Abassi, Reza Ahmadkhaniha, Reza Roostaazad, Fatemeh Masoomi, Hossein S. Zahiri, Hojatollah Vali, **Kambiz Akbari Noghabi** (2010). Characterization of a Rhamnolipid-type Biosurfactant produced by *Pseudomonas aeruginosa* MR01: Enhancement of di-rhamnolipid magnitude using Gamma irradiation. **Colloids and Surfaces B** (Elsevier) 81: 397-405.

92- Krzysztof Hinc, Soheila Ghandili, Gholamreza Karbalaee, Abbas Shali, **Kambiz Akbari Noghabi**, Ezio Ricca, Gholamreza Ahmadian (2010). Efficient binding of nickel ions to recombinant *Bacillus subtilis* spores. **Research in Microbiology** (Elsevier) 161: 757-764.

93- Farideh Zakeri, **Kambiz Akbari Noghabi**, Majid Sadeghizadeh, Mohammadreza Kardan, Fatemeh Masoomi, Mohammadreza Farshidpour, Ali Atarilar (2010). *Serratia* sp. ZF03: An efficient radium biosorbent isolated from hot-spring waters in high background radiation areas. **Bioresource Technology** (Elsevier) 101: 9163-9170.

94- Monir Mollaei, Saeide Abdollahpour, Siavash Atashgahi, Habib Abbasi, Fatemeh Masoomi, Abbas Sahebghadam Lotfi, Hossein Shahbani Zahiri, Hojatollah Vali, **Kambiz Akbari Noghabi** (2010). Enhanced phenol degradation by *Pseudomonas* sp. SA01: Gaining insight into the application of novel single and hybrid immobilization methods. **Journal of Hazardous Materials** (Elsevier) 175: 284-292.

2009

95- Hossein Shahbani Zahiri, **Kambiz Akbari Noghabi**, Mojtaba Samoodi, Negar Omid Yeganeh, Sara Abolhassani Rad, Azam Safari, Fateme Hoseini, Reza Hajhosseini (2009). Effect of concomitant lycopene biosynthesis on CoQ10 accumulation in transformed *Escherichia coli* strains. **Iranian Journal of Biotechnology** (IJB) 7: 224-232.

96- Tayebe Bagheri Lotfabad, Mitra Shourian, Reza Roostaazad, Abdolhossein Rouholamini Najafabadi, Freshteh Shahgheraghi, **Kambiz Akbari Noghabi** (2009). *Pseudomonas aeruginosa* MR01; an efficient biosurfactant-producing bacterial strain isolated from petroleum excavation areas in tropical zone of south of Iran. **Colloids and Surfaces B** (Elsevier) 69: 183-193.

97- Mitra Shourian, **Kambiz Akbari Noghabi**, Hossein Shahbani Zahiri, Solmaz Ahadi, Gholamreza Karballaei, Monir Mollaei, Iman Rad (2009). Efficient Phenol-degradation by a newly characterized *Pseudomonas* sp. SA01 isolated from pharmaceutical wastewaters. **Desalination** (Elsevier). 248: 256-273.

2008

98- **Kambiz Akbari Noghabi**, Hossein Shahbani Zahiri, Abbas Sahebghadam Lotfi, Gholamreza Karballaei, Mitra Shourian, Solmaz Ahadi (2008). The effect of various carboxylic acids on the biosynthesis of Polyhydroxyalkanoate (PHA) in *Pseudomonas aeruginosa* PA01. **Iranian Journal of Pharmaceutical Sciences (IJPS)** 4(4): 271-276.

99- Shima Afshar, Tayebe Bagheri Lotfabad, Reza Roostaazad, Abdolhossein Roholamini Najafabadi, **Kambiz Akbari Noghabi**, (2008). Comparative approach for detection of biosurfactant-producing bacteria isolated from Ahvaz oil fields in south of Iran. **Annals of Microbiology** (Springer) 58 (3): 79-83.

2007

100- **Kambiz Akbari Noghabi**, Hossein Shahbani Zahiri, Abbas Sahebghadam Lotfi, Jamshid Raheb, Sima Nasri, Sung Chul Yoon (2007). Mercury absorption by *Pseudomonas fluorescens* BM07 grown at two different temperatures. **Polish Journal of Microbiology** (PJM) 56(2): 111-117.

101- **Kambiz Akbari Noghabi**, Hossein Shahbani Zahiri, Sung Chul Yoon (2007). The production of a cold-induced extracellular biopolymer by *Pseudomonas fluorescens* BM07 under various growth conditions and its role in heavy metals absorption. **Process Biochemistry** (Elsevier) 42: 847–855.

2006

102- Hossein Shahbani Zahiri, **Kambiz Akbari Noghabi**, Yong-Chul Shin (2006). Biochemical characterization of the decaprenyl diphosphate synthase of *Rhodobacter sphaeroides* for coenzyme Q10 production. **Applied Microbiology and Biotechnology** (AMB) (Springer), 73(4): 796-806.

103- H.J. Lee, J.K. Rho, **Kambiz Akbari Noghabi**, S.E. Lee, M.H. Choi, S.C. Yoon (2004). Channeling of intermediates derived from medium-chain fatty acids and de novo-synthesized fatty acids to polyhydroxyalkanoic acid by 2-bromooctanoic acid in *Pseudomonas fluorescens* BM07, **Journal of Microbiology and Biotechnology** (Springer) 14(6): 1256-1266.

1999

104- Ezzatollah Keyhani, Dariush Minaei-Tehrani, **Kambiz Akbari Noghabi** (1999). The study of respiratory chain in *Salmonella typhimurium* and its comparison with *Paracoccus denitrificans*, **Journal of Science**, University of Tehran (National edition) 25(1): 73-81.