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Major: Cell and Molecular Biology (Microbiology)

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EDUCATION

Ph.D. in Microbiology from School of Science, Shahed university, Tehran, I. R. Iran.

Presented Ph.D. thesis in Microbiology under supervision of Dr. Parviz Owlia, Dr. Mohammad Ali Amoozegar “**Diversity of culturable and unculturable halophilic and halotolerant prokaryotes in Urmia lake**”

M.Sc. in Cell and Molecular Biology (Microbiology) from School of Science, Al-Zahra University, Tehran, I. R. Iran.

Presented thesis in Microbiology under supervision of Dr. Jamshid Fooladi “**Screening of microorganisms bioconversion β -pinene to α -pinene**”

B.Sc. in Cell and Molecular Biology (Microbiology) from School of Science, Al-Zahra University, Tehran, I. R. Iran.

RESEARCH INTERESTS

- ✓ Nanobiotechnology
- ✓ Genomic Analysis
- ✓ Biomedical Sciences
- ✓ Biodiversity
- ✓ Bioconversion
- ✓ Metagenomics DNA extraction
- ✓ Metagenomics: Genomic Analysis of Microbial Communities
- ✓ Evaluation unculturable bacteria and archea of microbial community
- ✓ Screening metagenomic library
- ✓ Isolation of the essential oil and plant extracts
- ✓ Microbial Mutagenicity assay
- ✓ Bioremediation & Biodegradation
- ✓ Biotechnological Production of flavor and fragrance.
- ✓ Screening of industrially important microorganisms

PUBLICATIONS

Journal Papers

F. Jookar Kashi, J.Fooladi, M.Bayat. Application of Biotransformation in Flavor and fragrance Industry. *Pakistan Journal of Biological Science*. 2007, 10(10):1685-1690.

F. Jookar Kashi, J.Fooladi , M.Bayat . The use of Biotechnology for the production of flavor and fragrance. *Biotechnology*. 2008, 7(2): 194-199.

Sara Jelodarian, Abdolrasoul Haghir Ebrahimabadi, **Fereshteh Jookar Kashi**, Evaluation of antimicrobial activity of *Malus domestica* fruit extract from Kashan area, *Avicenna Journal of Phytomedicine*.2013., 3(1):1-6

Abdolrasoul H. Ebrahimabadi, Zahra Djafari-Bidgoli, Asma Mazoochi, **Fereshteh Jookar Kashi**, Hossein Batooli. Essential oils composition, antioxidant and antimicrobial activity of the leaves and flowers of *Chaerophyllum macropodum* Boiss. *Food Control*, Volume 21, Issue 8, August 2010, Pages 1173-1178

Abdolhamid Bamoniri, Abdolrasoul H. Ebrahimabadi, Asma Mazoochi, Mohsen Behpour, **Fereshteh Jookar Kashi**, Hossein Batooli . Antioxidant and antimicrobial activity evaluation and essential oil analysis of *Semenovia tragioides* Boiss from Iran. *Food Chemistry*, 2010

Abdolrasoul H. Ebrahimabadi, Asma Mazoochi, **Fereshteh Jookar Kashi**, Zahra Djafari-Bidgoli, Hossein Batooli. Essential oil composition and antioxidant and antimicrobial properties of the aerial parts of *Salvia eremophila* Boiss. from Iran. *Food and Chemical Toxicology*, Volume 48, Issue 5, May 2010, Pages 1371-1376.

Abdolrasoul H. Ebrahimabadi, Ebrahim H. Ebrahimabadi, Zahra Djafari-Bidgoli, **Fereshteh Jookar Kashi**, Asma Mazoochi, Hossein Batooli. Composition and antioxidant and antimicrobial activity of the essential



oil and extracts of *Stachys inflata Benth* from Iran. Food Chemistry, Volume 119, Issue 2, 15 March 2010, Pages 452-458.

Javad Safaei-Ghomi, Abdolrasul H. Ebrahimabadi, Zahra Djafari-Bidgoli, **Fereshteh Jookar Kashi** and Hossein Batooli. Bioactive Properties of Oil and Methanol Extracts of *Pimpinella Aurea* Dc. American-Eurasian Journal of Sustainable Agriculture, 2(3): 249-254, 2008 ISSN 1995-0748

Fereshteh Jookar Kashi, J.Fooladi, M.Bayat. Production natural essential oil by microorganisms isolated from *Galbanum Boiss.*Irania Biology Journal. April 1388.

Maryam Akhbari, Hossein Batooli & **Fereshteh Jookar Kashi**, Composition of essential oil and biological activity of extracts of *Viola odorata* L. from central Iran. Natural Product Research, Nat Prod Res. 2012; 26 (9):802-9

Javad Safaei Ghomi, Reihaneh Masoomi, **Fereshteh Jookar Kashi**, Hossein Batooli, In vitro bioactivity of essential oils and methanol extracts of *Salvia reuterana* from Iran. Nat Prod Commun. 2012 May; 7 (5):651-4.

Javad Safaei-G., Tayebeh Ahmadi, Hossein Batooli, **Fereshteh Jookar Kashi**. “Antioxidant and antimicrobial activity of *Artemisia fragrans* Willd essential oil and methanol extracts” *Chemija*, 2012, 23(2), 100 - 107.

Fereshteh Jookar Kashi, Parviz Owlia, Mohammad Ali Amoozegar, Bagher Yakhchali, Bahram Kazemi. Diversity Of Cultivable Microorganisms In The Eastern Part Of Urmia Salt Lake, Iran. J Microbiol Biotech Food Sci / Jookar Kashi et al. 2014: 4 (1) 36-43

Fereshteh Jookar Kashi, An Improved Procedure of the Metagenomic DNA Extraction from Saline Soil, Sediment and Salt. International

Letters of Natural Sciences Online: 2016-11-14 ISSN: 2300-9675, Vol. 60, pp 38-45

B. Maddah, **F. Jookar-Kashi**, M. Akbari. Facile precipitation synthesis of pure $\text{Fe}_3\text{O}_4/\text{CoWO}_4$ nanocomposites and investigation of their photocatalyst and antimicrobial activity. Journal of Materials Science: Materials in Electronics. 2018.

Mahdi Ashrafi, Masood Hamadani, Ahmad Reza Ghasemi, **Fereshteh Jookar Kashi**. Improvement mechanical and antibacterial properties of epoxy by polyethylene glycol and Ag/CuO nanoparticles. Polymer composites. 2019.

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Zeinab sadat Seyedi, **F Jookar Kashi**, Zohreh Zahraei. Isolation, characterization, and decolorization of Disperse Blue 60 by newly isolated bacterial strains from Kashan textile wastewater. Water Environment Research 92 (6), 873-879.

Fereshteh Jookar Kashi, Zeynab Sadat Seyedi, Zohreh Zahraei. Decolorization of Reactive Black 5 and Reactive Red 152 Azo Dyes by New Haloalkaliphilic Bacteria Isolated from the Textile Wastewater. Current Microbiology. 2020

Goodarzi M, Rafiee-Pour H.A. **Fereshteh Jookar Kashi**. Reduction of BOD and COD of the Effluent by Native Bacteria Isolated from Herbal Distillation Industry Modares Journal of Biotechnology. 2020.



Akram Rahimi Moghadam, Morteza Yazdani, **Fereshteh Jookar Kashi**. Evaluation of antioxidant and antimicrobial activity of methanolic extract of *Mentha Spicata* leaves Journal of Molecular and Cellular Research. 2019

Zahra DahtiZadeh, Morteza Yazdani, **Fereshteh Jookar Kashi**. 2020. Evaluation of Antimicrobial and Antioxidant Activity of Essential Oil of *Mentha piperita* L. Iranian Journal of Medical Microbiology 13 (3), 210-219

Fereshteh Jookar Kashi, Seyedi Z.S., Zahraei Z.2018. Decolorization of Reactive Red 152 Dye by Native Bacteria Isolated from Kashan Textile Wastewater. Modares Journal of Biotechnology 10 (1), 77-83

Fereshteh Jookar Kashi, Owlia, Mohammad Ali Amoozgar. P. 2018. Evaluation of Prokaryotic Diversity in Hypersaline Environment by Culture-independent Method. Modares Journal of Biotechnology 9 (1), 137-144

Morteza Yazdani, **Fereshteh Jookar Kashi**, Bioactivity of Methanolic Leaves & Stem Extracts of *Adiantum capillus-veneris* L. From Southeast of Marivan. Journal of Plant Productions. 2020

Morteza Yazdani, **Fereshteh kashi Jookar**. Comparative Evaluation of Essential Oil Bioactivities of *Mentha longifolia* L. from Marivan and Qaza An. Journal of Sabzevar University of Medical Sciences. 2020.

Jawad J Mohammed J Al Zuhairi, **Fereshteh Jookar Kashi**, Akram Rahimi-Moghaddam, Morteza Yazdani. Antioxidant, Cytotoxic and Antibacterial Activity of *Rosmarinus officinalis* L. Essential Oil against Bacteria Isolated from Urinary Tract Infection. European Journal of Integrative Medicine. 2020.

MORTEZA Yazdani, **Fereshteh Jookar Kashi**. Bioactivity of Methanolic Leaves and Stem Extracts of *Adiantum capillus-veneris* L. From Southeast of Marivan. Journal of Plant Productions (Agronomy, Breeding and Horticulture). 2020.

Negin Nazari, **Fereshteh Jookar Kashi**. A novel microbial synthesis of silver nanoparticles: Its bioactivity, Ag/ Ca-Alg beads as an effective catalyst for decolorization Disperse Blue 183 from textile industry effluent. Separation and Purification Technology. 2020.

Morteza Yazdani, **Fereshteh Jookar Kashi**, Akram Rahimi-Moghaddam. Evaluation of antioxidant and antimicrobial activity of methanolic extract of *Mentha Spicata* leaves. Journal of Cellular and Molecular Research (Iranian Journal of Biology). 2020.

Zahra Dashtizadeh, **Fereshteh Jookar Kashi**, Mahdi Ashrafi .Phytosynthesis of copper nanoparticles using *Prunus mahaleb* L. and its biological activity. Materials Today Communications. 2021.

Fereshteh Jookar Kashi, Parviz Owlia, Mohammad Ali Amoozegar, Bahram Kazemi. Halophilic Prokaryotes in Urmia Salt Lake, a Hypersaline Environment in Iran. Current Microbiology. 2021

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Narges Rakhshan, Mohammadreza Mansournia, **Fereshteh Jookar Kashi**. Plant extract-strategy using Teucrium Polium stems to green synthesize Ag/AgCl bionanocomposite imprinted on Fe₃O₄/kaolinite and potentials in catalytic and chemosensor applications. Arabian Journal of Chemistry. 2022.

Samira Eshghi, **Fereshteh Jookar Kashi**. Bacterial synthesis of magnetic Fe₃O₄ nanoparticles: decolorization Acid Red 88 using FeNPs/Ca-Alg beads. *Arabian Journal of Chemistry*. 2022.

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M Mehrzad, M Behpour, **FJ Kashi**. Novel environmental method for enhanced biodegradation of contaminated wastewater via immobilizing nanoparticles on a new bacterial strain isolated industrial textile. *Journal of Environmental Management*. 2023. 325, 116528

H Kordzangeneh, **F Jookar Kashi**. A new *Bacillus Paralicheniformis* sp. Tmas-01 as bioreactor for Synthesis of Ag/AgCl composite– different effects of biological and Rodamin B dye decolorization, anticancer, genotoxic activity. *Archives of Microbiology*, 2023, 204 (12), 706

N Rakhshan, M Mansournia, **FJ Kashi**. A Magnetic Four Component Nanocomposite: Biosynthesis Using *Melissa officinalis* Leaves Extract, Application in High-Performance Naked-Eye Sensing of Mercury (II) and Efficient ...
Journal of Cluster Science, 2022. 1-15

Morteza Yazdani, **Fereshteh Jookar Kashi**, Elahe Seyed Hosseini. An environmentally safe approach for the facile synthesis of anti-mutagenic

fluorescent quantum dots: property investigation and the development of novel antimicrobial applications. *Arabian Journal of Chemistry*. 2023

J J Mohammed J Al Zuhairi, **Fereshteh Jookar Kashi**, F Koosanjian. *Melissa officinalis* extract as an antimicrobial agent against clinical bacterial strains isolated from urinary tract infections in Najaf, Iraq. 2024, *Journal of Kerman University of Medical Sciences* 31 (3), 119-125

N Arian, A Benvidi, M Behpour, **Fereshteh Jookar Kashi**, M Azimzadeh, HR Zare. Investigation of Copper/Sodium Alendronate Drug Doped TiO₂ Nanoparticle Array on Ti as a Hybrid Material for Implant Application. 2024, *Journal of Nanostructures* 14 (2), 437-451

N Nazari, **Fereshteh Jookar Kashi**, N Nazari. Improved application of immobilized *Enterobacter cloacae* into a bio-based polymer for Reactive Blue 19 removal, an eco-friendly advancement in potential ...2024. *Water Environment Research* 96 (1), e10968

Zahra Dashtizadeh, **Fereshteh Jookar Kashi**. Comparison of anti-biofilm and cytotoxic activity of Ag/AgO, Ag/Ag₂O, and Ag/AgCl nanocomposites synthesized using stem, leaf, and fruit pericarp of *Prunus mahaleb* L. 2025, *Scientific Reports* 15 (1), 26450

Samira Eshghi, **Fereshteh Jookar Kashi**. Acid Red 88 biodegradation by Cu nanoparticles stabilized on *Marinospirillum alkaliphilum* strain N. 2025, *Scientific Reports* 15 (1), 18903

Conference Papers

F. Jookar Kashi, J.Fooladi, M.Bayat. Isolation of microorganisms capable of transforming β -pinene. 2nd FEMS congress of European Microbiologists.2006, Spain, Madrid, July 4-8.

F. Jookar Kashi, J.Fooladi , M.Bayat . Bioconversion β -pinene to α -pinene by microorganisms isolated from galbanum gum . 6th European



symposium on Biochemical Engineering Science –ESBES 6 , 27-30 August 2006 in Salzburg/Austria.

F. Jookar Kashi, J.Fooladi, M.Bayat. European BioPerspectives congress .DECHEMA, Germany, Koln, 30 May- 1 Jun 2007.

F. Jookar Kashi, J.Fooladi , M.Bayat . Biotransformation β -pinene to α -pinene by Biocatalysis. Protein Design and Evolution for Biocatalysis , Germany , Frankfurt, Greifswald University , 26 may – 1 July 2006.

F. Jookar Kashi, J.Fooladi, M.Bayat .Natural production of α -pinene. Annual Conference of the Association for General and Applied Microbiology, April 1-4, 2007, Germany, Osnabruck, Niedersachsen.

F. Jookar Kashi, Parviz Owlia, Mohammad Ali Amoozegar., Microbial diversity of culturable halophilic and halotolerant bacteria from Urmia Salt Lake. 3rd International Student Biotechnology Congress (3ISBC 2013). 6th to 8th May 2013 Tehran, Iran.

F. Jookar Kashi, J.Fooladi, M.Bayat .Optimization of Nitrogen Source for essential oil transforming microorganism. The 8th National Congress of Microbiology, 23-25 May 2006-Esfahan –Iran.

F. Jookar Kashi, J.Fooladi, M.Bayat .Applicatin of biotechnology in production of natural α -pinene. The 1th National Iranian Conference of Applied Microbiology, Alzahra University-Iran- July 2007.

F. Jookar Kashi, J.Fooladi, M.Bayat .Galbanum gum as source for biotransformation reaction.The 3th congress of Medicin plant , Shahed University, Tehran , Iran ,24-25 Oct. 2007.

F. Jookar Kashi, J.Fooladi, M.Bayat. Isolation of microorganisms for biotransformation essential oil from galbanum boiss. The 1th congress student Iranian Biotechnology. 15-17 Nov. 2005. Tehran University ,Iran.

F. Jookar Kashi, J.Fooladi, M.Bayat. Biotransformation β -pinene by biocatalysis. The 4th congress of Iranian Biotechnology, 15-17 Agust 2005, Mahan, Kerman, Iran.

F. Jookar Kashi, J.Fooladi, M.Bayat. Select Carbon Source for Increased Biomass as biocatalysis for bioconversion β -pinene to α -pinene. The 14th International congress Biology , 29- August- 1 Sep. 2006 , Modares University, Tehran, Iran.

F. Jookar Kashi, J.Fooladi, M.Bayat .Screening of microorganisms production α -pinene from galbanum boiss. The 9th congress of Iranian Microbiology, 4-6 March 2008, Medicin Kerman University,Iran.

F. Jookar Kashi, J.Fooladi, M.Bayat .Select of Iranian Naturan Flora Microorganisms as Industrial biocatalysis.The 1Th Microbiology and their effect congress, 4 Dec. 2005, Azad University , Tehran , Iran.

F. Jookar Kashi, J.Fooladi, M.Bayat. Bioproduction of flavor and fragrance, Congress of Biotechnology and effect on Industry, Oct. 2007, Sharif University, Tehran, Iran.

Javad Safaei-Ghomi, Zahra Djafari-Bidgoli , **Fereshteh Jookar Kashi** , Hossein Batooli. Atimicrobial activity of *Eucaliptus torquata* methanolic extracts and essential oils cultivated in Iran.The 11th Iranian Pharmaceutical Science Conference(IPSC2008).

Fereshteh Jookar Kashi, Abdolrasul H. Ebrahimabadi, Hossein Batooli.The invitro antimicrobial activities of the methanol extract of *papaver dubium*. The 11th Iranian Pharmaceutical Science Conference (IPSC2008).

Fereshteh Jookar Kashi, Abdolrasul H. Ebrahimabadi, Hossein Batooli.Antimicrobial properties of *Glacium elegans*. The 11th Iranian Pharmaceutical Science Conference (IPSC2008).

Fereshteh Jookar Kashi, Abdolrasul H. Ebrahimabadi, Hossein Batooli .Antimicrobial activity of polar and non-polar subfractions of Leaf *Glacium elegans*.1th national congress of plant Biology, Pyamenor University , Talesh , 23-25 Agust 2008.

Fereshteh Jookar Kashi, Abdolrasul H. Ebrahimabadi, Hossein Batooli. Antimicrobial activity of polar and non-polar extract of *Salvia eremophila*. The first National congress on Processing of Medicinal plants and Industrial products. 4-5 March 2009.

Maryam Akhbari, **Fereshteh Jookar Kashi**, Hossein Batooli. Antimicrobial activity of methanol extract of *Hypericum Perforatum*. The first National congress on Processing of Medicinal plants and Industrial products. 4-5 March 2009.

Fereshteh Jookar Kashi, Abdolrasul H. Ebrahimabadi, Hossein Batooli. Antimicrobial activity of polar and non-polar extract of *Artemisia vulgar*. National phytochemical congress. Qom Azad university. 14-15, 1388.

Fatemeh Ghazian, **Fereshteh Jookar Kashi**, Sayyed Mehdi Sayyedi, Mohsen Behpour, Antioxidant activity essential oil of *Citrus aurantifolia*, *Citrus sinensis*, *Ataria multiflora*. Qom Azad university. 14-15, 1388

Maryam Akhbari, **Fereshteh Jookar Kashi**, Hossein Batooli. Antimicrobial activity of methanol extract of *Hypericum Perforatum*. The first National congress on Processing of Medicinal plants and Industrial products. 4-5 March 2009.

Fereshteh Jookar Kashi, Mohammad Ali Amoozegar, Parviz Owlia, Bagher Yakhchali. Unculturable Diversity of halophilic prokaryotes in Urmia Salt Lake, the largest Hypersaline in Iran. 13th International Conference on Culture Collections (ICCC13), September 23-27, 2013, Beijing, China.

Seyedeh Azam Fazel Chaharmahali, Zohreh Zahraei, **Fereshteh Jookar Kashi**. Decolorization of Reactive Red 195 by F14 bacterial strain. 4th International Conference on Recent Innovations chemistry and chemical engineering. July 2017, Tehran, Iran.



Somayeh Nikouharf Fakher, **Fereshteh Jookar Kashi**. Extracellular Synthesis of Silver Nanoparticles by Gram-positive bacterial strain. 4th International Conference on Recent Innovations chemistry and chemical engineering. July 2017, Tehran, Iran.

Somayeh Nikouharf Fakher, **Fereshteh Jookar Kashi**, Microbial Synthesis of Copper Nanoparticles. 2nd International and 10th National Biotechnology Congress of Islamic Republic of Iran. August 29-31, 2017. Seed and Plant Improvement Institute Karaj, Iran.

Somayeh Nikouharf Fakher, **Fereshteh Jookar Kashi**, Bacterial synthesis of silver nanoparticle. 2nd International and 10th National Biotechnology Congress of Islamic Republic of Iran. August 29-31, 2017. Seed and Plant Improvement Institute Karaj, Iran.

Fereshteh Jookar Kashi, Saeedeh Salehi, Arezo Akhavan Hejazia, Green synthesis antimicrobial silver nanoparticle, International conference workshop on “Nanotechnology and Nanomedicine” 2-3 May 2017.

Morteza Yazdani, **Fereshteh Jookar Kashi**. Methanol Extract of Mentha Piperita As Antimicrobial Agent. 18th International Iranian Congress of Microbiology. 29-31 August 2017.

Morteza Yazdani, **Fereshteh Jookar Kashi**. Extract From Mentha Longifolia As Natural Antimicrobial. 18th International Iranian Congress of Microbiology. 29-31 August 2017.

Seyeade Azam Fazel, Zohre Zahraei, **Fereshteh Jookar Kashi**, Optimization of Reactive 195 Decolorization by F14 bacterial strain. . 1st International Conference on Modern Technologies in Science. 7th September 2017.

Seyeade Azam Fazel, **Fereshteh Jookar Kashi**, Zohre Zahraei. Decolorization of Reactive Yellow 145 by G1 bacterial strain. 1st International Conference on Modern Technologies in Science. 7th September 2017.



Hadis Kordzangeneh, **Fereshteh Jookar Kashi**. Isolation of bacteria from different areas dusts. International congress of the new aspects of applied biology. 2018/07/11

Hadis Kordzangeneh, **Fereshteh Jookar Kashi**. Synthesis of silver nanoparticle by a novel bacterial strain isolated from soil. International congress chemistry and nanotechnology from research to Technology. 2018/09/11

Negin Nazari, **Fereshteh Jookar Kashi**. Bacterial decolorization of Reactive Blue 21 in Textile Wastewater. International congress chemistry and nanotechnology from research to Technology. 2018/09/11

Negin Nazari, **Fereshteh Jookar Kashi**. Decolorization of Disperse Blue 183 by bacterial isolates. International congress chemistry and nanotechnology from research to Technology. 2018/09/11

Negin Nazari, **Fereshteh Jookar Kashi**. Biodecolorization of disperse blue 183 from textile effluents. International congress of the new aspects of applied biology. 2018/07/10

Mina Habibi, **Fereshteh Jookar Kashi**, Zohreh boroumand. Removal of heavy metals by novel bacterial strain isolated from Choghart iron mine. 39th National Congress and 4th International Congress of Earth Sciences. 2021.

Samira Eshghi, **Fereshteh Jookar Kashi**. Fungal decolorization of Disperse Acid yellow 121 dye. International Conference on application of advanced technologies: Biological Sciences. 2021.

Samira Eshghi, **Fereshteh Jookar Kashi**. Biodegradation of Acid Red 88 dye using new bacterial strain A2 isolated from textile wastewater. International Conference on application of advanced technologies: Biological Sciences. 2021.

Invited Reviewer For Journals

- ✓ Water Environment Research
- ✓ Journal of Genetic Resources
- ✓ Journal of Babol University of Medical Sciences
- ✓ Materials Research Express - IOPscience **Applied Soil Ecology**
- ✓ Iranian Journal of Microbiology
- ✓ Journal of Sabzevar University of Medical Sciences
- ✓ Nova Biologica Reperta
- ✓ 1st Congress of Chemical Biotechnology
- ✓ The International and Iranian Congress of Microbiology
- ✓ Applied Soil Ecology

SOCIETY MEMBERSHIP

- ✓ Member of "Society of microbiology of Islamic Republic of Iran" (2003-present).
- ✓ Member of Committee ISIRI/TC54 2. Iranian Standard & Industrial Insititue.2009-2011

Laboratory Skills

- ✓ Biosynthesis of nanoparticles
- ✓ Fluorescence in situ hybridization (FISH) analysis

- ✓ Denaturing Gradient Gel Electrophoresis (DGGE)
- ✓ Bioinformatics
- ✓ Clone library method and Sequencing and sequence analysis
- ✓ Metagenomics extraction from soil, sediment, salt and water
- ✓ PCR, nested-PCR, RT-PCR
- ✓ DNA extraction
- ✓ DNA gel electrophoresis
- ✓ Microbiological Skills

طرح با صنعت:

سنتز سبز نانوهیبرید فریت فلزی با استفاده از سویه باکتری جدا شده از معدن آهن چغارت، بهینه‌سازی و بکارگیری آن برای حذف سیانید از پساب

سازمان زمین‌شناسی و اکتشافات معدنی کشور