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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 Haghiri 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

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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.

Javad Safaei Ghomi, Reihaneh Masoomi, **Fereshteh Jookar Kashi**, Hossein Batooli . Bioactivity of the Essential Oil and Methanol Extracts of Flowers and Leaves of *Salvia sclarea* L. from Central Iran. *Journal of Essential Oil Bearing Plants*. 2016. 885-896

Yazdani, Morteza, **Fereshteh Jookar Kashi**, Akram Rahimi-Moghaddam, Comparative evaluation of essential oil bioactivities of *Mentha longifolia* from Marivan and Qaza An. *Journal of Sabzevar University of Medical Sciences*. 2019.

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

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

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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.

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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.

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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

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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

حسین بتولی، عبدالرسول حقیر ابراهیم آبادی، جواد صفایی قمی، فرشته جوکار کاشی، اسماء مازوچی. بررسی ترکیبهای شیمیایی اسانس گل‌های سه گونه از جنس اکالیپتوس *Eucalyptus L,Her* کاشته شده در منطقه کاشان. فصلنامه پژوهش های علوم گیاهی، دانشگاه آزاد اسلامی واحد گرگان، ۱۳۹۲

فرشته جوکار کاشی، جمشید فولادی، منصور بیات، جداسازی میکرو ارگانیزم های تبدیل کننده پینن B به a - پینن از گیاه باریجه و صمغ آن. مجله زیست شناسی ایران، سال، ۱۳۸۸ بیست و دوم، شماره ۱، صفحه ۱۹۲

فرشته جوکار کاشی، پرویز اولیاء، محمدعلی آموزگار، باقر یخچالی. تنوع زیستی پروکاریوت های نمک دوست قابل کشت دریاچه ارومیه، مجله ژنتیک نوین، دوره تهم، شماره ۳، پائیز ۹۳، ۳۱۳-۳۲۸

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فرشته جوکار کاشی، پرویز اولیاء، محمد علی آموزگار. بررسی تنوع پروکاریوت های اکوسیستم شور به روش غیر قابل کشت. دو فصلنامه زیست فن آوری دانشگاه تربیت مدرس. تابستان ۱۳۹۷

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Conference Papers



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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



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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- Agust- 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).

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Seyede 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.

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Seyede 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.

Seyede 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.

فرشته جوکار کاشی ، عبدالرسول حقیر ابراهیم آبادی، حسین بتولی بررسی اثرات ضد میکروبی عصاره های قطبی و غیر قطبی. *Artemisia vulgaris* همایش ملی فیتوشیمی. دانشگاه آزاد قم. ۱۴-۱۵ اسفند ۱۳۸۸

فرشته جوکار کاشی، پرویز اولیاء، محمد علی آموزگار جداسازی و شناسایی فیلوژنتیک باکتری های نمک دوست شرق دریاچه ارومیه، اولین کنگره ملی ذخائر ژنتیک و زیستی ایران، 3-4 اسفند ۱۳۹۰

فاطمه قاضیان ، فرشته جوکار کاشی ،سید مهدی سیدی، محسن بهپور ، بررسی فعالیت آنتی اکسیدانی حاصل از لیمو *Citrus aurantifolia* و پرتقال و آویشن شیرازی *Zataria multiflora* و مقایسه آنتی اکسیدانی BHT ، همایش فیتوشیمی آزاد قم ۱۴-۱۵ اسفند ۱۳۸۸، دانشگاه آزاد قم

فرشته جوکار کاشی ، عبدالرسول حقیر ابراهیم آبادی، حسین بتولی. بررسی خاصیت ضد میکروبی گیاه *Artemisia Vulgaris* ، همایش ملی فیتوشیمی دانشگاه آزاد قم. ۱۴-۱۵ اسفند ۱۳۸۸

سارا جلوداریان، عبدالرسول حقیر ابراهیم آبادی، فرشته جوکار کاشی. حسین بتولی. ارزیابی فعالیت ضد اکسیدانی و ضد میکروبی عصاره سیب گلاب بوکی منطقه کاشان. همایش ملی گیاهان دارویی ۱۱ الی ۱۲ اسفند ساری

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

سابقه تدریس: از سال ۱۳۹۰ تا کنون

✓ میکروبیولوژی ۱ دانشگاه کاشان

✓ میکروبیولوژی ۲ دانشگاه کاشان

✓ آزمایشگاه میکروبیولوژی ۲ دانشگاه کاشان

✓ آزمایشگاه میکروبیولوژی ۱ دانشگاه کاشان

✓ بیوتکنولوژی میکروبی دانشگاه کاشان

✓ ویروس شناسی دانشگاه کاشان

✓ آزمایشگاه ایمنولوژی دانشگاه کاشان

✓ ایمنولوژی

✓ ژنتیک میکروارگانیسم ها

✓ فرایندهای تولید در مقیاس وسیع

کارگاه های تدریس شده

✓ ارزیابی اثرات زیست محیطی EIA در پروژه های معدنی، تابستان ۱۴۰۱

✓ کنترل کیفی مواد غذایی، آرایشی و بهداشتی، تابستان ۱۴۰۱