

CURRICULUM VITAE

Personal Information

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Department of Biotechnology, Faculty of Chemistry, University of
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Education and Qualifications

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

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

Ph.D in Microbiology from Department of Biology, Shahed University, Tehran, Iran

Employment to Date

Control and Quality management in food industry. Amirkabir Industry Society , Gol peikar
Company , Kashan , I. R. Iran .

Research Activities and Experiences

1) Dissertations

M.Sc Thesis: Screening of Microorganisms capable of biotransformig β -pinene to α -pinene
from Galbanum boiss Plant .

Ph.D Thesis: Diversity of culturable and unculturable halophilic and halotolerant prokaryotes in Urmia lake.

2) Research Activities

-Isolation of Iranian Natural Flora of Microorganisms of *Ferula galbanum* plant , galbanum gum , *Ferula galbanum* Essential oil and surrounding terpene soaked soils.

-Bioconversion β -pinene to α -pinene by microorganisms isolated from galbanum gum .

- Optimization of growth condition for essential oil transforming of microorganism.

-Biotechnological Production of flavor and fragrance.

- Metagenomics: Genomic Analysis of Microbial Communities

- Metagenomics for studying unculturable microorganisms.

-Biodiversity of moderately halophilic bacteria in hypersaline habitats

-16S rRNA gene sequence analysis of halophilic and halotolerant bacteria isolated from hypersaline lakes.

-Analysis Of Microbial Diversity

-Metagenomics extraction from soil, sediment, salt and water

Laboratory Skills

Antimicrobial Screening of essentials oil and palnt extracts.

Synergistic and antagonistic interactions Screening of essential oils and plant extracts with Synthesis drug

Biotechnological Production of essential oils

Bioconversion essential oil by microorganisms isolated from Iranian palnt and and surrounding terpene soaked soils.

Diversity of unculturable extreme halophil bacteria

Diversity of unculturable archea

Method : Fluorescence in situ hybridization(FISH) analysis

Method: Denaturing Gradient Gel Electrophoresis (DGGE) Fingerprint Analysis

Bioinformatic

Clone library method and Sequencing and sequence analysis

Metagenomics extraction from soil,sediment,salt and water

PCR,nested-PCR, RT-PCR

Areas of Interest

Antimicrobial screening of essential oil and plant extract.

Biotechnological Production of flavor and fragrance .

Bioconversion essential oil by microorganisms isolated from Iranian palnt and and surrounding terpene soaked soils.

Metagenomics: Genomic Analysis of Microbial Communities

Metagenomics for studying unculturable microorganisms.

Biodiversity of moderately halophilic bacteria in hypersaline habitats

Evaluation Unculturable bacteria and archea of microbial community

Screening metagenomic library

Diversity of unculturable extreme halophil bacteria

Diversity of unculturable halophil archea

Understanding microbial community diversity derived from metagenomes

Bioremediation of wast water

Biotechnological production of enzymes

Publications

- 1- 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 .
- 2- F. Jookar Kashi , J.Fooladi , M.Bayat . The use of Biotechnology for the production of flavor and fragrance . *Biotechnology* . 2008 , 7(2) : 194-199.
- 3- F. Jookar Kashi , J.Fooladi , M.Bayat . Isolation of microorganisms capable of transforming β -pinene . 2nd FEMS congress of European Microbiologists.2006 , Spain , Mdrid , July 4-8 .
- 4- 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.
- 5- F. Jookar Kashi , J.Fooladi , M.Bayat . European BioPerspectives congress .DECHEMA , Germany , Koln, 30 May- 1 Jun 2007 .
- 6- F. Jookar Kashi , J.Fooladi , M.Bayat . Biotransformation β -pinene to α -pinene by Biocatalysis.Protein Design and Evolution for Biocatalysis , Germany , Frankfurt, Greifsward University , 26 may – 1 July 2006.
- 7- 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.
- 8- -Sara Jelodarian , Abdolrasoul Haghir Ebrahimabadi b , Fereshteh Jookar Kashi, Evaluation of antimicrobial activity of *Malus domestica* fruit extract from Kashan area,Avicenna Journal of Phytomedicine.2013.,3(1):1-6
- 9- Fereshteh 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.
- 10- 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.
- 11- 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.

- 12- 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.
- 13- 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.
- 14- 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 .
- 15- F. Jookar Kashi , J.Fooladi , M.Bayat . Select Carbon Source for Increased Biomass as biocatalysis for biocaonversion β -pinene to α -pinene. The 14th International congress Biology , 29- Agust- 1 Sep. 2006 , Modares University, Tehran, Iran.
- 16- 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.
- 17- 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.
- 18- 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.
- 19- 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
- 20- 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, In Press, Corrected Proof, Available online 6 March 2010
- 21-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.
- 22-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.

- 23- 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
- 24- Javad Safaei-Ghomi, Zahra Djafari-Bidgoli, Fereshteh Jookar Kashi, Hossein Batooli. Antimicrobial activity of *Eucalyptus torquata* methanolic extracts and essential oils cultivated in Iran. The 11th Iranian Pharmaceutical Science Conference(IPSC2008).
- 25- 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).
- 26- Fereshteh Jookar Kashi, Abdolrasul H. Ebrahimabadi, Hossein Batooli. Antimicrobial properties of *Glacium elegans*. The 11th Iranian Pharmaceutical Science Conference(IPSC2008).
- 27- 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 August 2008.
- 28- Fereshteh Jookar Kashi, J.Fooladi, M.Bayat. production natural essential oil by microorganisms isolated from *Galbanum boiss*. Irania Biology Journal. April 1388.
- 29- 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.
- 30 –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.
- 31- Fereshteh Jookar Kashi, Abdolrasul H. Ebrahimabadi, Hossein Batooli. Antimicrobial activity of polar and non-polar extract of *Artemisia vulgar*. National phytochemical congress. Qhom Azad university. 14-15, 1388.
- 32- Fatemeh Ghazian, Fereshteh Jookar Kashi, Sayyed Mehdi Sayyedi, Mohsen Behpour. Antioxidant activity essential oil of *Citrus aurantifolia*, Citrus sinensis, Citrus multiflora. Qhom Azad university. 14-15, 1388
- 33 –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.

- 34-Maryam Akhbari a , Hossein Batooli b & 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
- 35-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 .
- 36-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.
- 37-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.
- 38- 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
- ۳۹- 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
- ۴۰- 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، ۳-۴ اسفند ۱۳۹۰
- ۴۱- حسین بتولی، عبدالرسول حقیر ابراهیم آبادی، جواد صفایی قمی ، فرشته جوکار کاشی ، اسماء مازوجی . 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
- ۴۲- بررسی فعالیت آنتی اکسیدانی حاصل از لیمو *Citrus aurantifolia* و پرتقال و آویشن شیرازی *Zataria multiflora* و مقایسه آنتی اکسیدانی BHT، فاطمه قاضیان ، فرشته جوکار کاشی ، سید مهدی

سیدی، محسن بهپور ، همایش فیتوشیمی آزاد قم ۱۵-۱۴ اسفند ۱۳۸۸، دانشگاه آزاد قم

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

۴۴- 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

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

۴۶- حسین بتولی، عبدالرسول حقیر ابراهیم آبادی، جواد صفائی قمی ، فرشته جوکار کاشی ، اسماء مازوچی ، بررسی ترکیبهای شیمیائی اسانس گل های سه گونه از جنس اکالیپتوس کاشته شده در منطقه کاشان، علوم گیاهی، شماره پیاپی ۳۰ ، سال هشتم، شماره ۲، تابستان ۱۳۹۲

Society Membership

1) Member of "Society of microbiology of Islamic Republic of Iran" (2003-present).

2) Member of Comittee ISIRI/TC54 2.Iranian Standard & Industrial Insititue.2009-2011

شرکت در کارگاه آموزشی:

عضو کمیته اجرایی. کارگاه آموزشی اسانس و ترکیبات طبیعی گیاهی در مرکز پژوهشی اسانس های طبیعی دانشگاه کاشان و با همکاری شرکت باریج اسانس ۱۳۸۷/۲/۳۰ لغایت ۱۳۸۷/۲/۳۱.

سابقه تدریس:

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

طرح تحقیقاتی

عنوان طرح: بررسی خواص آنتی اکسیدانی لاواند، رزماری، نعناء و پرتقال و مقایسه آن با خواص آنتی اکسیدانی اسکورویک اسید، گالیک اسید و BHT با همکاری پژوهشکده اسانس های طبیعی دانشگاه کاشان و شرکت داروسازی باریج اسانس