

Ahmad Farhad Talebi

Position



- Assist. Prof. in Semnan University
- Ph.D. graduated (Agricultural Biotechnology)- FUM.
- Member of Biofuel Research Team (BRTeam) - ABRII.

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Web pages:

http://ah_ta364.student.um.ac.ir

<http://www.brteam.ir/people-by-position>

<http://scholar.google.com/citations?user=Eh0XcpIAAAAJ&hl=en>

Date of Birth

06.05.1985 in neyshabour, Iran

Academic Carrier

2014- 2015: Research visitor in Member of Research Institute of Petroleum Industry- RIPI

2014- present: Scientific Adviser: Ferdowsi University of Mashhad

2009-2014: Ph.D. (Agricultural Biotechnology)- Agronomy and Breeding Dept., Faculty of Agriculture, Ferdowsi University of Mashhad, Mashhad, Iran

2011-present: Researcher of Tissue culture and gene transformation Depart. and member of Biodiesel Research Team of ABRII.

2007-2009: M.Sc. in Agricultural Biotechnology, Agronomy and Breeding Dept., Faculty of Agriculture, Ferdowsi University of Mashhad, Mashhad, Iran

2003-2007: B.Sc. in plant breeding, Agronomy and Breeding Dept., Faculty of Agriculture, Ferdowsi University of Mashhad, Mashhad, Iran

Teaching Experience

Botanic category: Botany, Plant Physiology, Plant Systematic, Biochemistry, Farming, Medicinal Plants, Forage Crops, Thallophytes

Genetic category: Genetics (Pro/Eubacteria), Cytology, Plant Breeding, Biology

Biotechnology category: Genetic Engineering, Biotechnology, Bioinformatics, Plant Tissue Culture

Environment category: Ecology, Environment Biotechnology, Mine Biotechnology, Pollution Management

Research Area

- Plant genetic engineering
- Plant molecular biology
- Biofuels in particular Biodiesel production using advanced genetic technologies
- Synthetic Biology
- Environmental studies in particular climate change and global warming
- Wastewater management

Language

Farsi, English

Honors and Awards

- Ranked Top %1 in more than 500000 participants in Iran Nation Wide University Entrance Exam, 2003.
- Ranked 4th amongst more than 2000 participants in Iranian Graduate Students Admissions Exam, 2007.
- Ranked number 1 in the Nationwide academic Olympiad, 2007
- Top Student of Ferdowsi University in 2004 – 2007.
- Ferdowsi University's representative in Iran's Talented Students NGO.
- Member of the National Foundation of Elites of Iran.

Membership

- Member of the Biotechnology society of Iran
- Member of the Biosafety society of Iran
- Member of Iranian Biofuel society

Professional Committees

Reviewer for Journals

1. *Biofuel Research Journal*
2. *Hindawi journals*

Conference/Workshop organizer

- Collaborator in the Executive Committee in the Biotechnology and Genetic Engineering on Ornamental Plants Workshop, Karaj, Iran Feb, 2012.

Grants and Funding

(Collaborator)

- Genetic engineering of *Dunaliella salina* for increasing lipid production to improve yield of biodiesel production. 2011- ongoing.
- Production of Biodiesel as a Replacement for Fossil Fuels. 2012–2013. Fund approved and awarded by National Foundation of Elites of Iran: USD 4,000.
- Biodiesel production from microalgae. 2013. Fund approved and awarded by ministry of science of IR Iran: USD 12,000.
- Establishment of green-tech laboratory. 2016. Fund approved by Semnan University: USD 30,000.

Publications

Full papers in peer reviewed journals

Vahedi, F. Talebi, A. F. Ghorbani, E. Behroozikhah, A. M. Shahriari Ahmadi, F. and Mahmoudi, M. 2011. Isolation, cloning and expression of the *Brucella melitensis* Omp31 gene. *Iranian Journal of Veterinary Research*, 12: 156-162.

Ahmad Farhad Talebi, Seyed Kaveh Mohtashami, Meisam Tabatabaei, Masoud Tohidfar, Mehrshad Zeinalabedini, Hossein Hadavand, Abdolreza Bagheri, Shiva Bakhtiari. 2013. **Fatty Acids Profiling; a Selective Criterion for Screening Microalgae Strains for Biodiesel Production.** *J Algal Research*. 2: 258–267.

- Ahmad Farhad Talebi**, Masoud Tohidfar, Meisam Tabatabaei, Abdolreza Bagheri, Motahharez Mohsenpor, Seyed Kaveh Mohtashami. 2013. **Genetic manipulation, a feasible tool to enhance unique characteristic of *Chlorella vulgaris* as a feedstock for biodiesel production.** Molecular Biology Reports. 1-8. DOI 10.1007/s11033-013-2532-4.
- Ahmad Farhad Talebi**, Masoud Tohidfar, Meisam Tabatabaei, Abdolreza Bagheri, Motahharez Mohsenpor, Seyed Kaveh Mohtashami. 2013. **Comparative Salt Stress Study On Intracellular Ion Concentration In Microalgae.** *Not Sci Biol*, 5(3):309-315.
- Fatemeh Khakdan, , Khosro Piri, and **Ahmad Farhad Talebi**. 2013. **Antiproliferative activity of aqueous extract from *Arictum lappa L.* root in human erythroleukemia cell line (k562) and lymphocyte cell.** Life Science Journal 10.6s, 656-661.
- Ahmad Farhad Talebi**, Meisam Tabatabaei, Mahsa Mosavi, Masoud Tohidfar, Alawi Sulaiman, Azhari Samsu Baharuddin, Meisam Tabatabaei. 2015. **Biochemical Modulation of Lipid Pathway in Microalgae *Dunaliella sp.* for Biodiesel Production.** BioMed Research International.
- Ahmad Farhad Talebi**, Meisam Tabatabaei, Yosuf Chisti. 2014. **BiodieselAnalyzer: a user-friendly bioprospecting software for prediction of biodiesel properties.** Biofuel Research Journal, 2: 55-57.
- , Masoud Tohidfar, Meisam Tabatabaei, Abdolreza Bagheri. 2104. **Manipulation of carbon flux into fatty acid biosynthesis pathway in *Dunaliella salina* using AccD and ME genes to enhance lipid content and to improve produced biodiesel quality.** Biofuel Research Journal, 2: 91-97.
- Ahmad Farhad Talebi**, Tohidfar, M., Mousavi Derazmahalleh, S. M., Sulaiman, A., Baharuddin, A. S., & Tabatabaei, M. (2015). **Biochemical Modulation of Lipid Pathway in Microalgae *Dunaliella sp.* for Biodiesel Production.** BioMed Research International.

Full papers in local journals

- Ahmad Farhad Talebi**, Masoud Tohidfar, Meisam Tabatabaei. 2010. **Biosafety aspects of genetically modified microalgae as a new tool in modern agriculture.** Journal of biosafety, 3.
- Ebrhim Sharafi, **Ahmad Farhad Talebi**. 2013. **An investigation in new genetic approaches to increase crop cold tolerance.** Sabzineh mag, 76: 17-21.
- Ebrhim Sharafi, **Ahmad Farhad Talebi**, Majid Ghorbani Javid. 2013. **Chilling and freezing consequences on crop and its prevention methods.** Agri. Eng, J.

National Conference Proceedings and Oral Presentations:

- Ahmad Farhad Talebi**, Fatemeh Vahedi, Behroozikhah Ali Mohammad, Farajollah Shahriari Ahmadi. **Polymorphism analysis of *Brucella melitensis* Omp31 gene isolated from Khorasan province.** ([1rd general Brocellisis Congress, Zanjan University, 4- 5, Murch, 2009](#))
- Ahmad Farhad Talebi**, Fatemeh Vahedi, Elnaz Ghorbani, Behroozikhah Ali Mohammad, Farajollah Shahriari Ahmadi. : **Isolation, cloning and expression of the *Brucella melitensis* Omp31 Gene, as an introduction to produce vaccine against Brocellosis.** ([3rd Brocellisis Congress, Shahid Beheshti University 23- 25, June, 2009](#))

Elnaz Ghorbani, Fatemeh Vahedi, **Ahmad Farhad Talebi**, Behroozikhah Ali Mohammad, Farajollah Shahriari Ahmadi. : **Design of expressional vector coding an outer membrane antigen of *Brucella melitensis* to produce DNA vaccine against Broccellosis.** ([3rd Brocellis Congress, Shahid Beheshti University 23- 25, June, 2009](#))

Ahmad Farhad Talebi, Masoud Tohidfar, Meisam Tabatabaei. **Biosafety aspects of genetically modified microalgae as a new tool in modern agriculture.** ([3rd Biosafety and Genetic Engineering Congress, 13-15 June 2011, Islamic Azad University, Science & Research Branch, Tehran, Iran](#))

Ahmad Farhad Talebi, Masoud Tohidfar, reza Bagheri. **An investigation into the potential of using an inverted repeat region “trnA-trnI” as a general flanking region in chloroplast genomes of different plants.** ([7rd Biotechnology Congress, 13-15 June 2011, Islamic Azad University, Science & Research Branch, Tehran, Iran](#))

Ahmad Farhad Talebi, Masoud Tohidfar, Meisam Tabatabaei. **Phylogenetic reconstruction of green algae based on different chloroplastic sequences and the Acc nuclear gene.** ([1st National Conference of Phycology of Iran, Shahid Beheshti University 14 -16, September, 2011](#))

Ahmad Farhad Talebi, Hdis Kord, Masoud Tohidfar, Meisam Tabatabaei, Mehrshad Zeinalabedini. **Functional phylogenetic study of Viridipalantae based on acetyl coenzyme A carboxylase and identification of four conserved domains.** ([12th Iranian Genetic Congress, Shahid Beheshti University 22-24 May, 2012](#))

Ahmad Farhad Talebi, Seyedkaveh Mohtashami, Meisam Tabatabaei, Foad Moradi. **The effect of different salinity on intracellular cation accumulation in halotolerant algae *Dunaliella* sp.** ([1st National Conference on plant abiotic stresses, Isfahan University, 25-26 Oct, 2012](#))

Ebrhim Sharafi, **Ahmad Farhad Talebi**, Majid Ghorbani Javid. **Introduction of new genetic potential to increase plants cold tolerance.** ([1st National Conference on plant abiotic stresses, Isfahan University, 25-26 Oct, 2012](#))

Ahmad Farhad Talebi, Seyed Kaveh Mohtashami, Leila Shafee, Meisam Tabatabaei, Masoud Tohidfar, Abdolreza Bagheri. **Establishment of a micro-particle bombardment system for stable transformation of the intact cells of *Chlorella vulgaris*** ([8rd Biotechnology Congress and 4rd Biosafety and Genetic Engineering Congress, 6-8 July 2013, Tehran, Iran](#))

Ahmad Farhad Talebi, Meisam Tabatabaei, Masoud Tohidfar, Abdolreza Bagheri, Saeid Malekzadeh Shafaroudi. **An investigation into Biodiesel production potential from microalgae: *Dunaliella salina*** ([8rd Biotechnology Congress and 4rd Biosafety and Genetic Engineering Congress, 6-8 July 2013, Tehran, Iran](#))

Ahmad Farhad Talebi. **Petroleum-produced wastewater treatment using microalgae cultivation.** ([1th science and environmental management of Iran Lakes, 7 May 2015, Ardabil, Iran](#))

Ahmad Farhad Talebi. **Biodiesel production from microalgae; a new tool to achieve a sustainable agriculture.**([The First Iranian National Congress On Modern Engineering Design, 8 Oct. 2015, Semnan, Iran](#))

Ahmad Farhad Talebi, Saeed Farzin. Bionic architecture based on plants shoot structure.
([The First Iranian National Congress On Modern Engineering Design, 8 Oct. 2015, Semnan, Iran](#))

International Conference Proceedings and Oral Presentations:

Ahmad Farhad Talebi, Seyedkeveh Mohtashami, , Masoud Tohidfar, Meisam Tabatabaei, Mehrshad Zeinalabedini, Abdolreza Bagheri. Salt tolerance in fresh water algae; could it be acquired? ([9th European Workshop "Biotechnology of Microalgae" 4-5 June, 2012, Nuthetal, Germany](#))

Ahmad Farhad Talebi, Seyedkeveh Mohtashami, , Masoud Tohidfar, Meisam Tabatabaei, Abdolreza Bagheri. The effect of different Iron source (Fe) on beta-carotene and intracellular cation accumulation in Dunaliella sp.. ([15th International Conference on the Cell and Molecular Biology of Chlamydomonas, 5-10 June, 2012, Potsdam, Germany](#))

Ahmad Farhad Talebi, Masoud Tohidfar, Meisam Tabatabaei, Abdolreza Bagheri. Biosafety aspects of genetically modified microalgae. ([15th International Conference on the Cell and Molecular Biology of Chlamydomonas, 5-10 June, 2012, Potsdam, Germany](#))

Ahmad Farhad Talebi, Seyedkeveh Mohtashami, , Masoud Tohidfar, Meisam Tabatabaei , Abdolreza Bagheri., An efficient and economic medium for large scale cultivation of Dunaliella sp. isolated from the Persian Gulf. ([Young Algaeneers Symposium, 14 - 16 June 2012, Wageningen, Netherlands](#))

Ahmad Farhad Talebi, Meisam Tabatabaei. Enhancement of lipid production using genetic engineering approaches in *Dunaliella salina* to improve biodiesel production. ([Middle East Molecular Biology Society, 13 - 15 September 2014, Dubai, The UAE](#))

Ahmad Farhad Talebi. Algal-based treatment for integrated biomass production and wastewater treatment petroleum produced water. ([Middle East Molecular Biology Society, 17 - 20 September 2015, Istanbul, Turkey](#))

Ahmad Farhad Talebi. Biofuel Research Team introduction. ([Middle East Molecular Biology Society, 17 - 20 September 2015, Istanbul, Turkey](#))

Ongoing Projects:

- Local microalgal strains isolation and their metabolic manipulation to enhance lipid production.
- Oil/bioremediation potential of Persian Gulf microalgae strain.

- **Oil/bioremediation potential of cyanobacteria isolated from Caspian Sea.**
- **Heavy metal absorption by different microalgae strains.**
- **Bioelectricity generation using self-control photobioelectrochemical system.**
- **Analyzing effect of culture media nutrients and extraction method on lipid profile of micro-algae strains dedicated for biodiesel production.**
- **Computer-based program development for Biodiesel properties prediction.**
- **Introduction of computer-based software in environmental studies.**