europass

Fatemeh Khosravitabar

Nationality: Iranian **Date of birth:** 22/09/1986 **Gender:** Female

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Work: Department of Biological & Environmental Science University of Gothenburg

Carl Skottsbergs gata 22B, 40530 Gothenburg (Sweden)

WORK EXPERIENCE

Post-doc researcher

Department of Biological & Environmental Science University of Gothenburg [20/10/2022 – Current]

City: Gothenburg
Country: Sweden

In project: H2 Photo-production using green microalgae

Post-doc researcher

Molecular Biomimetics, Department of Chemistry, Ångström Laboratory, Uppsala University [15/10/2020 – 15/10/2022]

City: Uppala
Country: Sweden

In project: Photosynthetic Hydrogen production
Under supervision of Professor Fikret Mamedov

Sabbatical visitor

Plant Biochemistry and Biotechnology, Westfälische Wilhelms-Universität Münster [07/2017 – 07/2018]

City: Münster
Country: Germany

Including performing the main part of PhD project during which we established a new approach for microalgal H2 production based on safe and fast O2 consumption.

Research assistant

Industrial Microbial Biotechnology Department; Academic Center for Education, Culture and Research [06/2013 – 09/2013]

City: Mashhad
Country: Iran

In project:
Industrial applications and pharmaceutical effects of *Monascus purpureus.*

Research assistant

Industrial Fungal Biothecnology Department, Academic Center for Education, Culture and Research [10/2013 – 12/2014]

City: Mashhad
Country: Iran

in project:
Research in anticancer effects of *Agaricus* fuingi.

EDUCATION AND TRAINING

Ph.D in Plant physiology
Ferdowsi University of Mashhad (FUM) [10/2014 – 11/2019]

Address: Azadi Squre, Mashhad (Iran)
Website: http://um.ac.ir/

PhD project: Developing a new approach for microalgal biohydrogen photoproduction , as an alternative for sulfur deficiency method, based on safe and fast oxygen consumption.
(A common project between Ferdowsi University of Mashhad & Muenster University of Germany).

Master of Science in plant physiology
Ferdowsi University of Mashhad [09/2009 – 09/2012]

City: Mashhad
Country: Iran

Plant physiology
Master thesis: Determination of the best method for extraction of phenolics and flavonoids from tow *Achillea* species and assesment of their *in vitro* human skin wound healing efficacy.
Grade of Thesis: A

Bachelor in plant biology
Ferdowsi Universityof Mashhad [09/2005 – 07/2009]

City: Mashhad

Parental leave for my first kid (Amirali)
[09/2012 – 03/2013]

Parental leave for my second kid (Amirabbbas)
[11/2019 – 10/2020]

LANGUAGE SKILLS

Mother tongue(s): **Persian**

Other language(s): **English**

PUBLICATIONS

Publications

Khosravitabar F, Mamedov F, Partial inhibition of the inter-photosystem electron transfer at cytochrome b6f complex promotes periodic surges of hydrogen evolution in Chlamydomonas reinhardtii, International Journal of Hydrogen Energy, https://doi.org/10.1016/j.ijhydene.2023.06.050

Lari Z., Khosravitabar F. (2020). *Different Trophic Modes for Algae Cultivation and Their Influences on Biomass and Lipid Production*. Journal of Systematic Bioscience & Engineering. 1(1): 16-26.

Khosravitabar F. (2020) *Microalgal biohydrogen photoproduction: scaling up challenges and the ways forward.* Journal of Applied Phycology, 32, pages277–289.

Khosravitaqbar F., Hippler M. (2019). *A new approach for improving microalgalbiohydrogen photoproduction based on safe &fast oxygen consumption.* International Journal of Hydrogen Energy, 44 (33): 17835-17844.

Khosravitabar F., Bahrami A. R., Abrishamchi P., Matin M. M., Ejtehadi H. and Varaste Kojourian M. (2017). *Enhanced Cutaneous Wound Healing by the Leaf Extract of Achillea eriophora D.C. Using the In Vitro Scratch Assay,* Journal of Sciences, 28(4): 305 - 312.

Varaste Kojourian M., Abrishamchi P., Matin M. M., Asili J., Ejtehadi H. and Khosravitabar F. (2017). *Antioxidant, cytotoxic and DNA protective properties of Achillea eriophora DC. and Achillea biebersteinii Afan. extracts: A comparative study.*, Avicenna Journal of Phytomedicine, 7(2): 157-168.

CONFERENCES AND SEMINARS

Conferences

Fatemeh Khosravitabar, Cornelia Spetea, Microalagae Immobilization for H2 Production: Evaluating Technical Parameters and Identifying Optimal Conditions, The 16 Nordic Photosynthesis Congress and The 5 Nordic Algae Symposium, Umeå, Sweden 19-21 Jun 2023 (poster presentation).

Fatemeh Khosravitabar, Fikret Mamedov; Promoting sustainable H2 production in Chlamydomonas reinhardtii through the partial inhibition of photosynthetic electron transport by DBMIB. Nordic Photosynthesis Conference. Gutenberg, Sweden, 5-8 Oct. 2021 (Oral presentation).

Khosravitabar F., Hippler M., Abrishamchi P. A step towards commercialization of biohydrogen photoproduction by green microalgae. International Conference of Biofuel & Bioenergy, Dubai, UAE, 19-20 Feb. 2020 (Oral presentation as keynote speaker)

Khosravitabar F. Hippler M. A new approach for microalgal biohydrogen photoproduction based on fast and safe oxygen consumption. 2 Iranian Conference on Phycology. Tehran, Iran 20-22 Sep. 2019 (Oral presentation).

Khosravitabar F., Bahrami A. R., Abrishamchi P., Matin M. M., Ejtehadi H. and Varaste Kojourian M. Investigating the effects of the methanolic extract from the leaves of Achillea eriophora D. C. on human cutaneous wound healing in an in vitro cellular model. International conference in science and

technology. Kuala Lumpur, Malaysia 14-16 Dec. 2015 (Oral presentation).

Saberi M., Rafe A., Khosravitabar F. Investigating Anticancer Properties of the Nanocarriers Loaded with Garlic Essential Oil, and Monascus Purpureus Extract on Breast Cancer Cell Line, In Vitro. 1st International Nastaran Cancer Symposium-2015. Mashhad, Iran 11-13 Sept. 2015 (poster presentation).

Khosravitabar F., Bahrami A. R., Abrishamchi P., Matin M. M., Ejtehadi H. and Varaste Kojourian M.Extraction of flavonoids from Achillea eriophorea and evaluation of their cytotoxicity on human fibroblast cells. The 17th national & 5th International Biology Conference. Kerman, Iran. 4-6 Sept. 2012 (poster presentation).

Varasteh Kojourian M., Abrishamchi P., Matin M. M., Asili J., Ejtehadi H., Khosravitabar F. In vitro evaluation of antioxidant activities of phenolic compounds from Achillea biebersteni. The 17th national & 5th International Biology Conference. Kerman, Iran. 4-6 Sept. 2012 (poster presentation).

Khosravitabar F., Bahrami A. R., Abrishamchi P., Matin M. M., Ejtehadi H. and Varaste Kojourian M. Methanolic extract from Achillea eriophora L. leaves induces cell migration and proliferation in human fibroblast. National congress of medicinal plants. kish, Iran, 20-22 May. 2012 (Oral presentation).

Varaste Kojourian M., Abrishamchi P., Matin M. M., Asili J., Ejtehadi H. and Khosravitabar F. Extracion of phenolic compounds from Achillea eriophora and evaluation of their antioxidant activities in vitro. National congress of medicinal plants. kish, Iran, 20-22 May. 2012 (poster presentation).

RECOMMENDATIONS

Prof. Cornelia Spetea Wiklund
professor in
Department of Biological and Environmental Science
Gothenburg University
40530, Gothenburg, Sweden
cornelia.spetea.wiklund@bioenv.gu.se

Prof. Fikret Mamedov
Professor in
Molecular Biomimetics
Department of Chemistry –
Ångström Laboratory, Box 523
Uppsala University
751 20, Uppsala, Sweden
Email: fikret.mamedov@kemi.uu.se

Prof. Michael Hippler
The chair of plant biochemistry and biotechnology,
Westfälische Wilhelms-Universität Münster (WWU Münster).
Email: mhippler@uni-muenster.de

Prof. Ahmad Reza Bahrami (Professor in molecular biotechnology)
Head of the Institute
Institute of Biothechnology, Faculty of Sciences, Ferdowsi University of Mashhad, Mashhad, Iran
E-mail: ar-bahrami@um.ac.ir
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Prof. Hamid Ejtehadi (Professor in plant ecology)
Educational Assistant at Faculty of Sciences, Ferdowsi University of Mashhad, Mashhad, Iran.
Email: hejtehadi @um.ac.ir

Prof. Maryam Moghaddam-Matin (Professor in molecular biotechnology)
Department of Biology and Institute of Biotechnology, Faculty of Sciences, Ferdowsi University of Mashhad, Mashhad, Iran
E-mail: matin@um.ac.ir

HONOURS AND AWARDS

Scholarship for Post-doc project in Gothenburg University
Olle Engkvist Foundation [10/2022]

Scholarship for postdoc researcher in Uppsala University
Carl Tryggers Foundation [10/2020]

Science travel grant
Liljewalchs foundation, Sweden [2020]

Fellowship for sabbatical visit during PhD project
Iran's National Elites Foundation [2017]

PROFESSIONAL SKILLS

Experimental skills
Microorganism cultivation and growth evaluation

Microalgae cultivation and its optimization

Cell immobilization techniques

In vitro & in vivo methods of hydrogen production studies

Physiological & biochemical analyses of cell cultures such as, antioxidant tests, starch assessment, EPR, thermoluminance and fluorescence analysis.

Biotechnological and molecular studies like DNA & RNA extraction, PCR & RT-PCR,

immunoblotting analysis.

Research and job-related skills
Generating research questions through literature overview

Planning laboratory studies and designing experiments to address research challenges

Seeing the big picture goal, maintaining the records and following through the plan

Data analysis and results dissemination

Writing research papers and edit/proofread

Public scientific presentation

Good ability of problem solving

Critical thinking and flexibility

Having good teamwork skills and working well individually

PERSONAL STATEMENT

A dedicated and motivated research fellow in the field of bioprocess and biotechnology
with more focusing on industrial applications of microalgae in particular microalgal hydrogen production.