

# CURRICULUM VITAE

## PERSONAL INFORMATION

**First name:** Seyed Mohammad  
**Surname:** Moshtaghioun  
**Date Of Birth:** 21 September 1970  
**Sex:** Male      **Status:** Married      **Nationality:** Iranian



Biology Department, Faculty of Sciences, Yazd University, Pajoohesh Ave.,  
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## EDUCATION

### GRADUATE

CSIC – Institute of Biocatalysis – Madrid/Spain

Directed evolution of enzymes

### **Sabbatical Research**

From October 2010 – April 2011

National Institute for Genetic Engineering & Biotechnology

**Major:** Biology (Molecular Genetics)

**Degree:** PhD. student

From January 2007

Tehran University

**Major:** Cell & Molecular Biology

**Degree:** M.S.Ph.

September 1996 – November 1999

### UNDERGRADUATE

Isfahan University

**Major:** Microbiology

**Degree:** B.Sc.

September 1992 – January 1996

Shahid Sadoughi University of Medical Sciences Yazd

**Major:** Laboratory Sciences

**Degree:** Technician

September 1989 – October 1991

## AWARDS

- First Student in B.Sc. Degree in Microbiology - Isfahan University – 1996
- Second Student in M.S.Ph. Degree in Cell & Molecular Biology - University of Tehran – 1999
- PhD scholarship - Ministry of Science, research and Technology of I.R.Iran - 2008
- Sabbatical Research scholarship - Ministry of Science, research and Technology of I.R.Iran - 2010

## WORK EXPERIENCE

- Yazd University – Biology Department  
From March 2014 to present date  
**Position:** Head of Biology Department  
From August 2001 to present date  
**Position:** Academic Member  
Lecturer of Genetics, Microbiology, Protozoology & General Biology Courses for Natural Resources Eng. & Biology Students.  
Responsible for Biology Department Establishment Project: Laboratories Setting & ...
- University of Science & Arts (Yazd branch)  
From August 2010  
**Position:** Invited Academic Member  
Lecturer of Genetics, Genome Organization & Genetics of Prokaryotes.
- Islamic Azad University (Ashkezar branch)  
From August 2011  
**Position:** Invited Academic Member  
Lecturer of Genetic Engineering & Genetics of Cancer.
- Payame Noor University (Meybod, Yazd & Taft branches)  
From August 2004  
**Position:** Invited Academic Member  
Lecturer of Genetics, Microbiology, General Biology, Protozoology, Cell & molecular biology, Recombinant DNA Technology, Biophysics of Life Origin & Evolution.
- Yazd Science & Technology Park  
From March 2004 to July 2004  
**Position:** Advisor of Enterprises Affairs  
From October 2002 to March 2004

**Position:** Manager of Enterprises Affairs  
From November 2001 to October 2002

**Position:** Secretary of Executive Board

- Iranian Association of Biotechnology  
From November 2004  
**Position:** Associate Member
- Institute of Research for Engineering Services (Associated to Yazd University)  
From April 2002 to present date  
**Position:** Research Biologist
- Research & Clinical Centre for Infertility, Yazd  
From March 2001  
**Position:** Research Biologist
- Shahid Seyed Mustafa Khomeini Hospital, Khorasan – Tabas  
From November 1991 to June 1992  
**Position:** Laboratory Technician
- Tehran University – Biology Department  
Workshop on PCR & Molecular Biology Methods  
July 2000  
**Position:** Member of Executive Board
- Tehran Education Organization (4th region)  
Retraining Course for Pre-university Teachers  
June & July 1999  
**Position:** Member of Lecturers Group in Cell & Molecular Biology
- ISATIS Biotechnologist Research & Production Inc.  
From November 2004  
**Position:** Chief Executive Director

**Projects:**

- Evaluation of Semen Parameters in Yazd Rubber Industry Workers
- Evaluation of Semen Parameters in Lead Mines Workers in Yazd Province
- Survey on Chromosome-gene defects on infertile men.
- Primary Studies & Design of Yazd Science & Technology Park Primary Incubator
- Cumulative Design Studies of Yazd Research Park & Executing Those Infrastructure
- Study of Effects of Extremely-low-frequency Pulsed Electromagnetic Fields on Collagen Synthesis in Rat Lung.
- Designing of a Hydrogen Peroxide Biosensor based on Polyaniline-Hb Modified Glassy Carbon Electrode.

- Isolation, Screening and Transfer of Cellulase Gene from *Bacillus subtilis* to Lysine Producing Mutants of *Brevibacterium flavum*.

#### **Congress and Seminars:**

- Moshtaghioun SM., Elahi E., et al. Isolation of EcoRI from a High Producing Strain and a Restriction Enzyme from a Local Bacterium. The 8<sup>th</sup> Iranian Biology Conference. Kermanshah – Iran - **1999**.
- Moshtaghioun SM., Elahi E., et al. Isolation & Purification of EcoRI from a High Producing Strain. The First Iranian Biotechnology Conference. Tehran – Iran - **2000**.
- Moshtaghioun SM., Supportive Services in STPs & Incubators. The 3th Congress of Iranian STPs & Incubators Directors. Yazd – Iran - **2004**.
- Moshtaghioun SM., Rezaei-Zarchi S., Effects of Extremely-low-frequency Pulsed Electromagnetic Fields on Collagen Synthesis in Rat Lung. 31<sup>th</sup> FEBS Congress. Istanbul - Turkey – **2006**.
- Moshtaghioun SM., Rezaei-Zarchi S., Hydrogen Peroxide Biosensor based on Polyaniline-Hb Modified Glassy Carbon Electrode. Tehran – Iran – IBC **2006**.
- Moshtaghioun S. M., Javed A., Rezaei-Zarchi S., Isolation, Screening and Transfer of Cellulase Gene from *Bacillus subtilis* to Lysine Producing Mutants of *Brevibacterium flavum*. The 9th Iranian Congress of biochemistry & the 2th International Congress of Biochemistry and Molecular Biology. Shiraz - Iran – **2007**.
- Haghbeen K., Moshtaghioun S. M., Legge R.L., Xerogels: Potentials and Drawbacks for Enzymes Immobilization. The 6th National Biotechnology Congress of Iran. Tehran-Iran – **2009**.
- Moshtaghioun S. M., Haghbeen K., A Direct and Accurate Spectrophotometric Method for Assaying the Laccase Activity. OxiZymes & 9th International Symposium on Peroxidases. Leipzig - Germany - **2010**.
- Moshtaghioun S. M., Haghbeen K., Interesting Results from the Preliminary Studies on the Optimization of the *Neurospora crassa* (FGSC #321) Growth and Laccase Production. The 16th National and 4th International Conference of Biology. Mashad – Iran – **2010**.
- Diana Maté, Eva García-Ruiz, Mohammad Moshtaghioun, Susana Camarero, Miguel Alcalde, Directed evolution of a high-redox potential laccase in *Saccharomyces cerevisiae*: improving functional expression, thermostability and kinetic properties. Madrid – Spain – CMIBM **2010**.

- Moshtaghioun S. M., "A Direct and Accurate Spectrophotometric Method for Assaying Laccase" Oral presentation, Madrid-Spain-ICP-CSIC, February **2011**.
- Bahremandjooy K., Moshtaghioun S. M., Haghbeen K., Catalytic activity of laccase from *Neurospora crassa* in the presence of organic solvents. The 7th National Biotechnology Congress of Iran. Tehran-Iran – **2011**.
- Dadkhah M., Moshtaghioun S. M., Haghbeen K., Investigation of tyrosinase production by *Neurospora crassa*. The 7th National Biotechnology Congress of Iran. Tehran-Iran – **2011**.
- Mehri Khatami, Mohammad Mehdi Heidari, Seyed Mohammad Moshtaghioun, Monireh Eghbali, Mitochondrial DNA mutation at 14766C>T in Iranian long QT syndrome patients. 13th ICB & 5th ICBMB. Yazd-Iran – **2013**.
- Mohammad Mehdi Heidari, Mehri Khatami, Alireza Talebi, Fahime Moezzi, Seyed Mohammad Moshtaghioun, A novel mutation in TNP2 gene in Iranian varicocele infertile men. The Third Iranian Congress of Medical Genetics. Tehran-Iran – **2013**.
- Mehri Khatami, Mohammad Mehdi Heidari, Seyed Mohammad Moshtaghioun, Zahra Saghachi, Identification of angiotensin gene mutations in atherosclerosis patients. The Third Iranian Congress of Medical Genetics. Tehran-Iran – **2013**.
- Ali Benvidi, Afsaneh Dehghani Firouzabadi, Seyed Mohammad Moshtaghioun, Mohammad Mazloum Ardakani, Marzieh Dehghan Tezerjani, A Label Free biosensor by glassy carbon electrode modified with graphene and gold nanoparticles for detecting breast cancer. 1st International & 13th Iranian Genetics Congress. Tehran-Iran – **2014**.

## PUBLICATIONS

- Moshtaghioun SM., Elahi E., et al. Isolation & Purification of EcoRI from a High Producing Strain. The First Iranian Biotechnology Conference Proceeding. Tehran – **2000**.
- Haghbeen K., Moshtaghioun S. M., Legge R.L., Xerogels: Potentials and Drawbacks for Eenzymes Immobilization. The 6th National Biotechnology Congress of Iran Proceeding. Tehran-Iran – **2009**.
- Moshtaghioun S. M., Haghbeen K., Direct Spectrophotometric Assay of Laccase Using Diazo Derivatives of Guaiacol. Anal. Chem., **2011**, 83, 4200-4205.

- Benvidi A., Dehghani Firouzabadi A., Moshtaghiun S. M., Mazloun-Ardakani M., Dehghan Tezerjani M., Ultrasensitive DNA sensor based on gold nanoparticles/reduced graphene oxide/glassy carbon electrode. *Analytical biochemistry*, **2015**, 484, 24-30.
- Benvidi A., Dehghani Firouzabadi A., Dehghan Tezerjani M., Moshtaghioun S. M., Mazloun-Ardakani M., Ansarin A., A highly sensitive and selective electrochemical DNA biosensor to diagnose breast cancer. *Journal of Electroanalytical Chemistry*, **2015**, 750,57-64.
- Benvidi A., Dehghan Tezerjani M., Jahanbani S., Mazloun Ardakani M., Moshtaghioun S. M., Comparison of impedimetric detection of DNA hybridization on the various biosensors based on modified glassy carbon electrodes with PANHS and nanomaterials of RGO and MWCNTs. *Talanta*, **2016**, 147, 621-627.
- Moshtaghioun S. M., Dadkhah M., Bahrmandjo K., Haghbeen K., Aminzadeh S., Legge R. L., Optimization of Simultaneous Production of Tyrosinase and Laccase by *Neurospora crassa*. *Biocatalysis & Bioengineering J.*, In Press.

## REFERENCES

- Dr. Elahe Elahi  
Academic Member in Molecular Biology Department - Tehran University
- Dr. Seyed Mehdi Kalantar  
Academic Member in Medical Genetics Department - Yazd Medical University  
Academic Member in Research & Clinical Centre for Infertility, Yazd  
Director of Biotechnology Incubator – Yazd science and Technology Park
- Dr. Kamahldin Haghbeen  
Academic Member in Biochemistry and Biophysics Department - National Institute for Genetic Engineering & Biotechnology - Tehran
- Dr. Gity Emtiazi  
Academic Member in Biology Department - Isfahan University