

MAHNAZ MAZAHERI ASSADI, PhD

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CV of 2000-Today

#### WORK EXPERIENCE:

Senior Scientist Biotechnology Department, IROST, Tehran.,  
Iran

1991- Today.,

Deputy of Research and Education,

Department of Environment, Tehran, Iran.

2013-2016

#### Supervision of 4 Bureaus:

1- Environmental Education

2-Environment Non Government Organization

3-Sustainable Development and Environment Economics

4-Environment Research and Technology

#### *1-Environmental Education*

- Worked as the secretariat to the I.R.Iran, National Environmental Education Advisory Council is comprised of representatives from government and non governmental organizations who provide DoE with advice on environmental education. The Council provides DoE with a better understanding of the needs of schools, universities, state departments (of education and natural resources) and educational organizations.
- Four multi-year cooperative agreements regarding environmental education have been endorsed with ministry of education with respect to different educational levels from kindergarten to high school

levels.

- Four multi-year cooperative agreements regarding environmental education in all university disciplines and scientific participation have been endorsed with ministry of higher education.
- Four multi-year cooperative agreements regarding environmental education in all university disciplines with respect to education participation have been endorsed with Deputy president of Science and Technology
  - Four multi-year cooperative agreements regarding environmental education in all university disciplines with respect to education scientific participation have been endorsed with ministry of higher education.
  - Managed on environmental course of action in national education of non governmental organization in order to teach individuals and groups to weigh various sides of critical environmental problems through critical thinking, problem-solving and decision-making skills.
  - Helped in increasing the no. of NGO's in country.
  - Received and implemented, the yearly governmental fund, entitled the “National Environmental Culture, Education and Training. In general.
  - Received and implemented, the yearly governmental fund, entitled the “Environmental National Rangers, Culture, Education and Training courses.
  - Supervised the state of environmental education and sustainability in the ministry of education as viewed by deputy ministers in country.
  - The national leadership to increase environmental literacy, the department of environment in I.R.Iran established the Bureau of Environmental Education to implement :
- Supervised the education to engage in problem solving, awareness, sensitivity, attitudes, participation and action to improve the environment.
- Educated group of different expertise through critical thinking and it enhances their own environment problem-solving and decision-making skills.
- Expanded Capacity in Environmental Education Hand Print.
- Acted as secretary of high level National Committee in 5<sup>th</sup> International Green Film Festival.
- Daily increase different activities regarding the education in country.

*-Sustainable Development and Environmental Economics*

## Environmental economics:

- Concerned with different environmental issues in country.
- Concerned with identifying current environmental problems in order to ratify and rectify the economics regarding the possible approaches to solving the environmental problem.
- Supervised the allocation of resources efficiently
- Supervised the policies to deal with air pollution, water quality, toxic substances, solid waste, and global warming and carbon foot print
- Undertakes theoretical or empirical studies of the economic effects of national and local environmental policies in I.R. of Iran. In particular the costs and benefits of alternative environmental economics of biodiversity, soil, water, Air.
- Supervised the assessment of the economic value of the environment in different I.R.Iran.
- Supervised the "environmental services" in order to check the Critical Environmental Problems

Sustainable Development Goals (SDGs), which was built upon the Millennium Development Goals and converged with the post 2015 development agenda was programmed for National Consultations.

These are forums to exchange ideas for a shared vision of "The World We Want", in an open process tailored to country contexts. This Bureau is the pioneer of sustainable development and SDG implementation in I.R. Iran.

In this bureau, the national consultations were organized by department of environment according to UN Country Teams, we been working with a wide range of stakeholders including governments, civil society, the private sector, media, universities and think tanks.

- "Peace building, non-violent conflict resolutions and an end to sanctions";
- "Responsive governance with emphasis on rule of law
- "Social justice and equity targeting the vulnerable, children, youth, women and marginalized"; and
- "Ending abject poverty and regional disparities good jobs employment"
- "Education and training with emphasis on skills development for children, adolescents and youth";
- "Sustainable consumption and production
- "Social protection with particular focus on the middle age and senior citizens, marginalized and people with disabilities";
- "Basic universal health through fitness, emphasis on prevention and treatment of diseases".
- "Advocacy for private sector corporate responsibility
- "Access to information and data availability at various levels
- Sustainable water management
- "Sustainable and equal access to energy resources, particularly clean energy and renewable energy resources";
- "Sustainable agriculture, forestry and fisheries";
- "Sustainable food and nutrition
- "Sustainable resilient society/communities

*Supervised the mainstreaming Sustainable development goals in I.R. Iran.*

### *1. Supporting national committee of sustainable development:*

Sending all comments and suggestion of meetings to National committee of sustainable development to verify focal / responsible and assistant institutions of each goals of SDGs.

2. Supervised the “Second International Seminar on Environment, Culture and Religion held April 23-24, 2016 in Tehran, in cooperation with DOE , the United Nations Environment Program (UNEP) and United Nations Educational, Scientific and Cultural Organization (UNESCO). The framework of this seminar was a ‘transformation of our world: 2030 agenda for sustainable . The participants were representatives from Shia and Sunni Muslims, as well as Hindus, Zoroastrians, Buddhists, Christians, Judaism, and Jainism.
3. Supervised the National sustainable development network which is a window towards partnership of experts, scholars and people to achieve sustainable peace and prosperity on the planet earth
- Cooperation with all stake holders to prepare national Road map and coherent, integrated policies and programs for achieving sustainable development goals by attempt to convince all ministries and governmental institution to develop or Strengthen sustainable office in their chart  
Implementation of SDG in 31 provinces out of which 6 host provinces such as Gilan, Kermanshah, Esfahan, Fars, Khorasan Razavi, Youth Forum – Tehran, Tehran + Alborz worked with stakeholders including governments, civil society, the private sector, media, universities.
  1. Signe an agreement with statistical center of Iran for collecting essential data and information in line with reporting SDGs indicators
  2. Creating sustainable development hub in all 31 provinces of I.R.Iran.
  3. Hold seminars and conferences for informing , discourse and training various stakeholder for cooperating in SDGs implementation
  4. Supporting National committee of sustainable development for monitoring and assessing SDGs implementation

#### -National Executing Agency (NEA)

This project begins by looking at the development of an National Biosafety Framework under the project as a process of knowledge mapping; The mapping process recommended all the stake holders in IR.Iran, consists of five steps:

- 1) A stocktaking exercise to collect information and data on the current status of biosafety and biotechnology within the country, including human and institutional resources;
- 2) Analysis of the data and information with participation by all stakeholders;
- 3) Storage of the data so that, it is readily available to stakeholders and can be used in the future to implement the NBF;
- 4) Further analysis and processing of information to determine priorities for the NBF;
- 5) Preparation of the NBF through a consultative process.

Head of Biotechnology Department

2011- 2013

IROST, Tehran, Iran.

Senior Scientist

Environmental Biotechnology, Biotechnology Department,  
IROST

1991-Today

Consultant to:

Technology manager, Life Sciences

2006

Simon Fraser University/ILO

Vancouver, BC V5A 1S6

Conducted technology evaluation, patenting,

Played a role in the formation of spin-off companies.

Identified investors;

Development and implementation of strategies to market research to industry; promoting technology

Transfer awareness; and conducting evaluations and analyses to maximize business opportunities.

Forestry Science Center, UBC, Vancouver, BC

2005- 2007

Visiting Scientist

Contribute to the design of the procedure to find the effect of Living modified organisms on soil microorganisms (possibility of gene transfer)

Research and make recommendations on gene transfer strategies

The Department of Environment, Tehran, Iran

1997-2005

Research Advisor

-Reviewed environmental technology research projects of 28 provinces.

-Screened and suggested environment problem solving projects

- Provided expert leadership to the Executive Team pertaining to Department of Environment and international regulatory bodies
- Responsible for reviewing application submitted by different DOE offices in 28 provinces in Iran dealing with Waterway, Wetland, River Crossing & major water researches,...
- Reviewed the technical work submitted by the scientists/ Consultant for various projects in dealing with water, wastewater and environmental sustainability projects in 28 provinces.
- Establish policy with the help of experts for diversion/construction of waterways and on water resources
- Worked with the Conservation Authority to complete a water source study in North and South part of Iran.
- Reviewed environmental technology research projects of 28 provinces regarding different environmental pollution with the help of experts.
- Screened and organised expert workshops for environment problem solving regarding water and wastewater treatment, soil, air projects.
- Provided ongoing regulatory perspective to the research on source of water (rivers,lakes, wetlands, ground water)
- Researched operating decisions facing the Department of Environment.
- Coordinating ongoing regulatory perspective to the research & development strategy in environmental pollution aspects.
- Researched operating decisions facing the Department of Environment
- Led research and development team (supported ultimately by 96 scientists) at the Department of Environment

GEF/UNEP National Biosafety Framework Project

2002-2005

National Project Coordinator

- Coordinated all aspects of the National Project
- Assisted the Department of Environment in implementing the Cartagena Protocol on Biosafety through the development and implementation of Iran national biosafety frameworks
- Promoted information sharing and collaboration at regional and sub regional levels
- Promoted collaboration with other organizations and assisted capacity-building for the implementation of

the Cartagena Protocol on biosafety

- Assisted 7 stakeholders including NGO's leading to preparation of national biosafety framework
- Assessed current technological capacity to manage biosafety issues, and the implications of this on the implementation of a National biosafety
- Strengthened national capacity to develop national regulatory biosafety frameworks
- Strengthened national capacity for competent decision making on notifications and requests related to Living Modified Organisms (LMOs), including the establishment of administrative systems to assist with:

I. Risk assessment: consideration of risk management and risk evaluation (as socio-economic issues was taken into account in accordance with the Protocol),

II. Decision making: ensure time limits specified in the regulatory framework and in accordance with the provisions of involvement of stakeholders were met

III. Summaries: ensured mechanism for feed back between different steps

-Raised public awareness and improved information flow to the public on the issues involved around the release of Living Modified Organisms to promote informed debate and to ensure transparency with respect to the regulation of LMOs

-Reported to the National Coordinating Committee and UNEP, and liased closely with the chair and members of the National Coordinating Committee and National Executing Agency and coordinated the work plan for the National Project

-Was Responsible for all substantive, managerial and financial reports from the National Project

Production of Emulsan by *Acinetobacter calcoaceticus*(IROST) 2002-2005

□Led the research and development strategic planning effort and helped shape corporate strategy as it pertains to emulsan production in crude oil removal from any ecosystem and microbial enhanced oil recovery with a group of 1 PhD and 2 MSCc holding scientists

Biodiversity of Cyanobacteria from Persian Gulf 1998-2000

Iranian Research Organization for Science & Technology (IROST) 1991-2005.

Principal Investigators (Biotechnology Center):

Monitoring and Detection of Genetically Modified in Imported Fruits in Tehran, Iran. 2010-2015

-Supervizing a group of PhD and Master scientist in order to monitor and detect the possibility of genetically modified imported Apple, banana and orange in Tehran Province.

- Sampling with collaboration of the fruit and vegetable organization of Tehran Monicipal
- use of different technique in extraction of DNA from different tissues were obtained and their qualities and quantities evaluated and the procedures were optimized.
- use of specific designed primers.
- use of genetic vectors and setting up the techniques.
- implementing the new techniques with higher sensivity and specificity including Real-Time PCR and ELISA for detection of GM crops examined.

MEOR project

2002-2005

Developed high cell density in various implemented microbial products,

Performed fed-batch processes for microbial and cell culture production systems .

Performed fermentations for internal R&D activities at IROST.

Introduced of specialized microorganisms through molecular techniques, or above ground use of bioproducts as chemically enhanced oil recovery agents.

Reviewed the status of MEOR currently resided at a basic level of research and development

Achieved laboratory practice of MEOR by direct stimulation of existing micro flora within the microcosm reservoir

Reviewed laboratory use of biosurfactants (bacteria that reduces the viscosity of crude oil)

DOE Research Scientist

Worked with a team of 5 marine research experts and 3 technicians

Provided strategic and tactical planning, organization and direction in support of project goals

Built and organized framework that improved the probability of success for all regulatory activities

Prepared and managed project plans, budgets, implementation schedules, scope and prioritized critical tasks with input from Cyanobacterial project team members and senior management

Pro-actively identified critical paths, potential hurdles and recommended appropriate actions.

Supervised the development procedures for isolation and identification of Persian Gulf Cyanobacteria

Implemented, reviewed, approved and maintained all collected cultures for further



investigation.

## EDUCATION

University of Roorkee, Roorkee, India 1991  
PhD Bioscience and Biotechnology

University of Roorkee, India 1987  
MSc Bioscience

University of Agricultural Sciences, Bangalore, India 1983  
BSc Horticulture

## TRAINING

Biosafety, Department of Health, Safety and Environment, UBC - Safety Training, University of British Columbia, Vancouver 2005

Laboratory Chemical Safety, Department of Health, Safety and Environment, UBC - Safety Training, University of British Columbia, Vancouver 2005

Safety Committee Training , Department of Health, Safety and Environment, UBC - Safety Training, University of British Columbia, Vancouver. 2005

Radionuclide Safety and Methodology, Department of Health, Safety and Environment, UBC - Safety Training, University of British Columbia, Vancouver 2005

Holistic Foundation for Assessment and Regulation of Genetic Engineering and "Genetically Modified Organisms" , Tromsø, Norway 2004

UNEP-GEF Biosafety Sub-Regional Workshops on biosafety regulatory system for Asian countries, Shiraz 2003

UNEP-GEF Biosafety Sub-Regional Workshops on Risk Assessment and Public Participation for Asian countries, Malaysia 2003

Identification of specific gene responsible in bioremediation, Dr. Shahamat's Lab, Baltimore, USA

2000-2001

#### Latest Papers in Journals

Arash Asadirad, M., Mazaheri Assadi, M.H., Hamid Rashedi, T., Nejadsattari, 2017. The Effects of Indigenous Microbial Consortia in Crude Oil Degradation: A Microcosm Experiment. International Journal of Environmental Science and Engineering. (In press).

Karbassi, A.R. E. Mahin Abdollahzadeh, M. Nazariha, M. Mazaheri Assadi, 2017. Predicting the Distribution of Harmful Algal Bloom (HAB) in the Coastal Area of Oman Sea. Nature Environment and Pollution Technology (In press).

Mohamadi Sichani, M., M. Mazaheri Assadi., A., Farazmand, M., Kianirad, A.M. Ahadi, H. Hadian Ghahdeijan, 2016. Bioremediation of soil contaminated crude oil by Agaricomycetes. J. Environmental Health Science and Engineering (In press).

Khodaei, K, Nassery, H.R., Mazaheri Assadi, M., Mohammadzadeh, H., and Mahmoodlu, M.G., 2016. BTEX Biodegradation in contaminated groundwater by a novel strain (*Pseudomonas sp.* TR03) International Biodeterioration & Biodegradation Journal. 116: 234 - 242 .

Sadighbayan, Kh., M. Mazaheri Assadi, A. Farazmand, A. R. Monadi, N. Aliasghar zad and H. Mobaiyen, 2016, Biodegradation of Naphthalene, Phenanthrene and Anthracene (PAHs) from Tabriz City Oily Soil with Bacteria. Bioscience Biotechnology Research Communications. 9(3).

Karbassi, A.R. E. Mahin Abdollahzadeh, G. Attaran- Fariman, M. Nazariha, M. Mazaheri Assadi, 2016. Development of Trophic Index along South-East Coast of Oman Sea and its Relationship with Harmful Algae Bloom. Journal of Applied Environmental and Biological Sciences, 6(10).

Khosrow Sadighbayan, Mahnaz Mazaheri Assadi, Abbas Farazmand, Ali Reza Monadi, Naser Aliasghar zad, Haedeh Mobaiyen, Ramin Zadghaffari. 2016. Biodegradation Potential of Soils in Tabriz Petroleum Refinery for Removing Solid Polycyclic Hydrocarbons. Advances in Bioresearch Adv. Biores., Vol 7 (2): 57-63.

Hamid Rashedi, Mahnaz Mazaheri Assadi, Akram Tabatabaee Bafrouee 2015. Indigenous production of biosurfactant and degradation of crude oil by *Bacillus sp.* Advances in Environmental Technology. 11-16.

P., Chamanrokh, M. H. Shahhosseiny, M., Mazaheri Assadi, T., Nejadsattari, D Esmaili. 2015. Three Tests Used to Identify Non-Culturable Form of *Helicobacter pylori* in Water Samples Jundishapur journal of microbiology 8 (4).

Kiaei, E., Soltani, N., Mazaheri assadi, M, Khavarinejad, R. A. and Dezfulian, M., 2015. Screening of

**Cyanobacterial Strains as a Smart Choice for Biodiesel. Journal of Applied Environmental and Biological Sciences.**

Hamid Rashedi, Asal Mazaheri Assadi, Mahnaz Mazaheri Assadi, 2015. Use of Food Industry Wastes in Mushroom Production. *Advances Technology in Environmental Engineering and Waste Management*.2(3):.

Abdolmaleki,f., M., Mazaheri Assadi, H., Akbarirad 2015. Assessment of beverages made from milk, soya milk and whey using Iranian kefir starter culture. *International Journal of Dairy Technology* 68 (3), 441-447

Mahnaz Mazaheri Assadi, Parastoo Chamanrokh, Chris A Whitehouse, Anwar Huq, 2015. Methods for detecting the environmental coccoid form of *Helicobacter pylori*. *Frontiers in public health*.3:147.

Saideh Tavalaei, Marjan Emtiazjoo, Khosrow Rostami, Haleh Kosari, Mahnaz Mazaheri Assadi, 2015. Comparative studies of  $\beta$ -carotene and Protein production from *Dunaliella salina* isolated from Lake, Hoze-Soltan, Iran. *J. Aquatic Food Product Technology*. 37-41.

**Ahmadi,N., Mahnaz Mazaheri Assadi, Abbas Farazmand, Effect of *Volvariella* sp. production on Agricultural lignocellulytic Waste 2015., Quarterly Journal of Applied Microbiology and Food Sciences.**

Ghorbani A., Pourahmad, R., Fallahpour, M., Mazaheri Assadi, M., 2014. Study of physiological, rheological and Microbiological characteristics of Soy Probiotic Yoghurt During 21-Days of Storage. *Journal of Food Technology and Nutrition*.11: 1(41); 43 -48.

Abdolmaleki,F., M., Mazaheri Assadi, H Ezzatpanah, M Honarvar 2014., Impact of fruit processing methods on DNA extraction from transgenic frozen banana products, *European Food Research and Technology* 239 (3), 509-517.

A Mozafarian, M., Mazaheri Assadi, AA Soorki ., 2014. Evaluation and selection of additives for bioremediation of petroleum-contaminated soil using oil-degrading bacteria. *Iranian Journal of Public Health* 43 (2), 141

Parastoo Chamanrokh, Mohammad Hassan Shahhosseiny, Mahnaz Mazaheri Assadi, Taher Nejadstari, and Davoud Esmaili, 2014, A Comparison Loop Mediated Isothermal Amplification (LAMP) with PCR and Rapid Urease Test (RUT) to detect *Helicobacter pylori* in Biopsy Samples. *J. Pure and appli. Microbi.*, 8(2):1079-1086.

M., Mazaheri Assadi, MS Tabatabae., 2014. Biosurfactant and their use in upgrading petroleum vacuum distillation residue: A review. *International Journal of Environmental Research* 4 (4), 549-572.

A Tofighi, MM Assadi, MHA Asadirad, SZ Karizi. 2014. Bio-ethanol production by a novel autochthonous thermo-tolerant yeast isolated from wastewater. *Journal of Environmental Health Science and Engineering* 12 (1),.

M., Mazaheri Assadi, Ardeshiri, M., Sheikhzadeh, H., M., Jahangiri. 2014. Bioremediation of crude oil contaminated soil. *Petroleum Science & Technology*, 32:12,1497-1504.

Saeedi L., Mazaheri Assadi, M., Heydarian M., Jahangiri, 2014. Production and evaluation of a nano-biosurfactant. *P etroleum Science & Technology*. 32:2., 125-132.

Mohamadi, S., Heydarian, S. M., Mazaheri Assadi, M., Jahangiri, Vacuum Residue Biodegradation using bubble column fermentor. 2013. Vacuum Residue Biodegradation using bubble column fermentor. *Petroleum Science & Technology*. 32(1):75-83.

Mitra Tabatabaee., Mahnaz Mazaheri Assadi. 2013. Studying the Indigenous Crude Oil Methanogens and Their Potential in MEOR. *J. Int. Environ. Appl. Sci.* 18(11);1-7.

H., Rashedi, M., Mazaheri Assadi., 2013. Modeling and optimization of main factors in rhamnolipid production process by *Pseudomonas aeruginosa*. *International Journal of Bioassays* 2 (10), 1392-1398

Hemmat, J. and Mazaheri Assadi, 2013., Optimization of Reactive Blue 19 Biodegradation by *Phanerochaete chrysosporium*. *Int. J. Environ. Res.*, 7(4):957-962, Autumn

Mitra Sadat Tabatabaee1 and Mahnaz Mazaheri Assadi .2013 Vacuum distillation residue upgrading by an indigenous *Bacillus cereus*. *J. Environ. Health Science and Engineering*. 11(18).

Azam Janipour, Mahnaz Mazaheri Assadi, Hamideh Ofoghi, Mohammad Reza Kalbassi, Hoda Ahmadi Behazin, Masoumeh Rajabibazl and Hale Kosari 2013 Molecular Identification of *Dunaliella* Species in Some Iranian Salt Lakes. *European Journal of Scientific Research*. 103(4):570-580.

Peiman Esmaeilzadeh, Shole Darvishi, Mahnaz Mazaheri Assadi, Fardin Mirahmadi and Faraz arashrad 2013 Effect of Lactic Acid Bacteria Inoculation on Nitrite Concentration of Fermented Sausage in Fermentation and Ripening Periods. 13(11):1455-1464.

Fazli, M.M., K Naddafi, AR Mesdaghinia, S Nasser, M.M Assadi, M Yunesian 2012. Decolorization of Remazol Brilliant Blue Royal by *Ganoderma* Sp. Immobilized in Sodium Alginate. *Iranian Journal of Health and Environment* 5 (2).

Mitra Sadat Tabatabaee , Mahnaz Mazaheri Assadi, Mohammad Heydarian , Abbas Akhavan Sepahi. 2012. Indigenous microbial degradation of VR. *Petroleum Science & Technology*. 30(21):2218-2226.

Esmaeilzadeh, P., S Darvishi, MM Assadi, F Mirahmadi 2012. Effect of *Lactobacillus plantarum* and *Lactobacillus fermentum* on Nitrite Concentration and Bacterial Load in Fermented Sausage During Fermentation. *World Applied Sciences Journal* 18 (4), 493-501.

Atefeh Ghorbania, Rezvan Pourahmada\*, Masoud Fallahpourb , Mahnaz Mazaheri Assadi 2011. Production of probiotic soy yogurt. *Annals of Biological Research*, 2 (6):293-299

Ramezani, R., Mahnaz Mazaheri Assadi, M. Azin 2012 Use of Molasses in Rhamnolipid Production by *Pseudomonas aeruginosa*. *Quarterly Journal of Science, TTU*; 10 (4):303-318.

K. Karami., Zolgharnein, H., M. Mazaheri Assadi., A. Savari., A. Dadolahi. 2011. New report on occurrence of *Exiguobacterium* sp. AT1b in Persian Gulf and its resistance to mercury pollution. *Current*

Research in Bacteriology.4(1)23-27.

Shiva Dadkhah, Rezvan Pourahmad, Mahnaz Mazaheri Assadi, Ali Moghimi. 2011. Kefir production from Soymilk. *Annals of Biological Research*. 2(6):293-299.

Rezvan Pourahmad, Ali Moghimi, Shiva Dadkhah, Mahnaz Mazaheri Assadi 2011 Evaluation of Flavor and Aroma Compounds Amounts in Kefir from Soymilk. *World ASJ*.15(5):673-676.

Nafiseh Yavari, Mahnaz Mazaheri Assadi, Kambiz Larijani, M. B. Moghadam 2011 Optimizing glucuronic acid production using tea fungus on grape juice by response surface methodology. *Australian J. applied Sciences*.5(11):1788-1794.

Moayednia, N., M.R. Ehsani, Z. Emamdjomeh, M. Mazaheri Assadi, M. Mizani, A.F. Mazaher. 2011. Effect of calcium alginate coating on quality of refrigerated strawberry. *Irish Journal of Agricultural and Food Research* (In Press).

Mehran Mohammadian Fazli., Ali Reza Mesdaghinia, Kazem Naddafi, Simin Nasser, Masoud Yunesian, Mahnaz Mazaheri Assadi, Sasan Rezaie, Hossein Hamzehei. 2010. "Screening of factors affecting reactive blue 19 decolorization by *Ganoderma* sp. using fractional factorial experimental design" *Desalination and Water Treatment* 22(60):22-29.

Nafiseh Yavari, Mahnaz Mazaheri Assadi, Kambiz Larijani, M. B. Moghadam 2010 Response surface methodology for optimization of glucuronic acid production using kombucha layer on sour cherry juice" *Australian Journal of Basic & Applied Sciences*, 3(4): 3213-3216.

Amoabediny, Gh., M. Rezvani, H. Rashedi, S. Jokari, P. Chamanrokh, M. Mazaheri, M. Ghavami, F. Yazdian. 2010. Application of a novel method for optimization of bioemulsion production in miniaturized bioreactor. *Bioresource Technology*. 101( 24): 9758-9764.

Moayednia, N., M.R. Ehsani, Z. Emamdjomeh, M. Mazaheri Assadi, M. Mizani, A.F. Mazaher. 2010. Effect of refrigeration on viability of immobilized probiotic bacteria in alginate coat of strawberry. *World Applied Science Journal* , 10(4): 472-476.

Mahnaz Mazaheri Assadi, Mitra Sadat Tabatabaee. 2010. Biosurfactants and their Use in Upgrading Petroleum Vacuum Distillation Residue: A Review. *International Journal of Environmental Research*, 4(4): 549-572.

Chamanrokh, P., M. Mazaheri Assadi, Gh. Amoabedini. 2010. Cleaning of Contaminated Vessels By Emulsion Producers (Autochthonous) Bacteria. *I.J. Envir. Health Sci. Eng.* vol. 7(3):209-222.

Mehran Mohammadian Fazli., Ali Reza Mesdaghinia, Kazem Naddafi, Simin Nasser, Masoud Yunesian, Mahnaz Mazaheri Assadi, Sasan Rezaie, Hossein Hamzehei. 2010. Optimization of reactive blue 19 decolorization by *Ganoderma* Fungus using response surface methodology. *I.J. Envir. Health Sci. Eng.* vol.7(1):35-42.

Zolgharnein, H., K. Karami., M. Mazaheri Assadi., A. Dadolahi. 2010. Investigation of heavy metals biosorption on *Pseudomonas aeruginosa* strain MCCB 102 isolated from the Persian Gulf. *Asian Journal of*

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N. Moayednia, M.R. Ehsani, Z. Emamdjomeh, M. Mazaheri Asadi, M. Mizani, A.F. Mazaher.2009. The Effect of Sodium Alginate Concentration on Viability of Immobilized *L. acidophilus*. Australian Journal of Basic & Applied Sciences., 3(4): 3213-3216.

Mahnaz Mazaheri Assadi, Jamal Jazani Khani, 2009. Bioethics and Biosafety in Modern Biotechnology.Q.J of Ethics in Science and Technology vol4:71-77.

Eskandari, S., H.Rashedi, M.Mazaheri Assadi, Y.Ziaie- Shirkolae, E.Jamshidi, B. Bonekdarpour.2009. Evaluation of oil recovery by rhamnolipid produced with isolated strain from Iranian oil wells . Annals of Microbiology..59(3):573-577.

Tofighi,A,m M., Azin, M., Mazaheri Assadi, M.H, Assadi Rad.,Fallahian,2009. Inhibitory Effect of High Concentration of fufural on anIndustrial Strain of *Saccharomyces cerevisiae*. Intern. J. of Envi. Res. Vol4(1):.

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Yavari., N., M., Mazaheri Assadi, S.,Z., Hosseini Mazhari, M. Bamani Moghadam, K., Larijani 2009. Nutritional Value of Black Tea Increases as a result of Fermentation with Kombucha Layer. Food Tech. & Nut.Vol.6(2):12-18.

Arabian Hossein Abadi, H., H. Rashedi, G. Amoabediny and M. Mazaheri Assadi 2009. Purification of rhamnolipid using colloidal magnetic nanoparticles. A. J. of Biotech.Vol. 8 (12) 3097-3106.

Chamanrokh, P., M.Mazaheri Assadi, A. Noohi.,S.Yahyai.2008. Emulsan Analysis Produced by Locally Isolated Bacteria and *Acinetobacteria calcoaceticus* RAG1.2008. I. J. Environ. Health. Sci. Eng.,5(20):101-108.

Rafee , F., Mahnaz Mazaheri Assadi, M. Azin, 2010. Whey in Rhamnolipid Production by *Pseudomonas aeruginosa*. Quarterly Journal of Science, TTU.8(4):303-318.

Haghigha, S.,A. Akhavan Sepahy, M. Mazaheri Assadi, H. Pasdar 2008 Ability of indigenous *Bacillus licheniformis* and *Bacillus subtilis* in Microbial Enhanced Oil Recovery. Int. J. Environ. Sci. Tech., 5 (2): 385-390.

Mahnaz Mazaheri assadi, A.Ghanbaripour 2008 Biotech Biosafety and Bioethics. Environmental SustainabilityVol.4o(4):118-132.

Mahnaz Mazaheri assadi, 2008 What is Environmental Biotechnology?. Environmental Sustainability

Vol.4o(2):105-118.

Mahnaz Mazaheri Assadi , F.,Abdolmaleki, R.R. Mokarrame 2008 Application of whey in fermented beverage production using kefir starter culture. *Nutrition & Food Science* vol.38(2):121-127

Mahnaz Mazaheri assadi, A.Ghanbaripour 2008 Biotech, Environment and Biosafety. *Environmental Sustainability* .4:118-135

Rezvan Pourahmad and Mahnaz Mazaheri Assadi, 2007, Use of isolated autochthonous starter cultures in yogurt production. *International Journal of Dairy Technology* 60 (4), 259–262

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University, Tehran, Iran.

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Mahnaz Mazaheri Assadi , 2007, Environment day and Conventions, NIOC. Mahshahr, Iran.

Mahnaz Mazaheri Assadi , 2009, Impowerment of Women through Science And Technology, IROST, Tehran.

Mahnaz Mazaheri Assadi, 2010, Biotechnology, Yes or No?!. Congress on Health, University of Tehran, Tehran, Iran.

Mahnaz Mazaheri Assadi 2011, Use of Environmental Biotechnology in Petroleum, Industry Tehran, Iran.

Mahnaz Mazaheri Assadi 2012, Probiotic and Biosafety, Probiotic Association, Tehran, Iran.

Mahnaz Mazaheri Assadi 2013, ethics in probiotics, Probiotic Association, Tehran, Iran.

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### Courses Taught

- Water & Wastewater Microbiology, 2 unit course
- Marine Microbiology, 2 unit courses
- Industrial Microbiology, 3 unit courses
- Genetics of Prokaryotes, 2 unit courses
- Cell & Molecular Biology, 2 unit courses
- Water and Wastewater Treatment 2 unit courses
- Health Safety and Environment 2 unit courses

### Research Advisor and Professional Member of

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|--|--------------|
| Biotechnology Department of IROST (Tehran/Iran)                                      | 1991-Present |
| Member of Scientific Committee of Kharazmi Award,                                    | 1997-Present |
| Member of Research Adviser Committee to the Department of Environment<br>Tehran,Iran | 1997-2000    |
| Research Adviser to the Marine Bureau, DOE Tehran, Iran                              | 1993-2000    |
| Member of Degree Evaluation Committee, Ministry of Science, Research &<br>Technology | 1994-2000    |
| Member of Scientific Committee of National Environment Prize                         | 2003-2004    |
| Member of Editorial Board  |              |
| Asian Journal of Microbiology and Biotechnology                                      | 2004-Present |

Research and Construction

2003-Present

Journal of Marine Sciences

1999-2005

Quarterly Journal of Environment

1999-2005

**Supervised:**

Master Degree ; 75 Student

PhD Program; 21 Student