

“In the name of God”

## CURRICULUM VITAE

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### I. PERSONAL INFORMATION

Name& Surname: ***Abbas Sahebghadam Lotfi***

Date of Birth: ***09. 01. 1953***

Place of Birth: ***Kerman-Iran***

Marital Status: ***Married***

Gender: ***Male***

Affiliation:

Professor in Biochemistry (Enzyme Biotechnology), Department of Clinical Biochemistry, Faculty of Medical Sciences, Tarbiat Modares University (TMU), I. R. Iran,1989-Now

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### II. EDUCATIONAL

Date/ Degree/ Field/Institution:

- 1973-1977/ B.Sc./ Chemistry/ Ferdowsi University, Mashad, Iran
- 1983 •1985/ M.Sc./ Biochemistry/ Tarbiat Modarres University, Tehran, Iran
- 1986 •1990/ Ph.D./ Clinical Biochemistry/ Tehran University for Medical Sciences In collaboration with H.E.J. Research Institute of Chemistry (WHO affiliated center in Karachi), Tehran, Iran

### **III. ORGANIZATION LEADERSHIP AND MANAGEMENT EXPERIENCES (national & international)**

- Responsible for the Economic Affairs, Federation of Asian Biotech Associations (FABA), 2012-2013
- Representative of Ministry of Science, Research and Technology, National Committee of Biosafety, Tehran, Iran, 2011-2014
- Member, Science and Technology Commission, Supreme council of Cultural Revolution, Tehran, Iran, 2010-2012
- Head, Biotechnology Development Council, I. R. Iran, 2008- 2014
- Secretary, Educational Planning Committee for Biotechnology, Ministry of Science, Research and Technology, Tehran, Iran, 2007-2012
- Chairman, Group of Planning for New Technologies , Ministry of Science, Research and Technology, Tehran, Iran, 2007-2012
- Deputy Minister (Education), Ministry of Sciences, Research and Technology, Tehran, Iran, 2007-2009
- Vice President, Federation of Asian Biotech Associations (FABA), 2006-2008
- Director, National Committee of Bioethics, UNESCO Office in Tehran, Tehran, Iran, 2006-2007
- Member, Higher Education Council, 2007-2009
- Director General, National Institute of Genetic Engineering and Biotechnology (NIGEB), I. R. Iran, 2005-2013
- Governor, International Centre for Genetic Engineering and Biotechnology (ICGEB), 2005-2013
- Chairperson, Iran Chapter of Federation of Asian Biotech Associations (FABA), 2005-2012
- Director, Biotechnology Development Council, Tehran, Iran, 2008-2013
- Minister Adviser, Ministry of Science, Research and Technology, Tehran, Iran, 2005-2009
- Secretary, Supreme Council of Biotechnology, 2005-2008

- Chancellor, Guilan University, Rasht, Iran, 1995-1997
- Manager, Specialized Pathobiological Laboratory, University Hospital, University of Rafsanjan, Rafsanjan, Iran, 1992-1993
- Dean, School of Medicine, University of Rafsanjan, Rafsanjan, Iran, 1992-1993
- Responsible for planning of post-graduation office, Tehran University of Medical Sciences, Tehran, Iran, 1988- 1990
- Member, Post-graduation Development group, Tarbiat Modares University, Tehran, Iran, 1982-1988
- Deputy Manager, Education Office of Kerman province, Kerman, Iran, 1980- 1982
- Assistant Director, General Office of Education and Training, Kerman province, Kerman, Iran, 1980-1982
- Head, 1st High School Student Festival of Biotechnology, 2012
- Organizer , workshops, seminars and policy making Groups in science and technology (INSF)
- Head, Basic Sciences and Biotechnology Group, Iran National Science Foundation (INSF), 2011-2013
- Member, UNESCO National Committee of Bioethics and Ethics in Science and Technology, 2009-2012
- Representative of the Ministry of Science, Research and Technology in Biological Weapons Convention (BWC), 2005-2011
- Managing director of Scientific and Executive Committees, 2nd International Congress of Bioethics, 2011
- Managing director, 1<sup>st</sup> National and International Biotechnology Forum and Exhibition (Iran Biotech), 2009
- Managing director, 2<sup>nd</sup> National and International Biotechnology Forum and Exhibition (Iran Biotech), 2011

#### **IV. GRANTS, AWARDS AND HONORS**

- Presidential appreciation certificate and prize as the annual top professor of Iran, 2012

- Two grants amounting 150,000 USD for implementing two major national projects from the Ministry of Science, Research and Technology of Iran, 2012.
- ICGEB grant amounting 20,000 Euro for organizing the international workshop “Bioethics and Ethical Aspects of Biosafety”, 2011
- ICGEB grant amounting 42,000 Euro for implementing the research project “Over production of alpha1-antitrypsin in yeast and its encapsulation for drug delivery purposes”, 2007

## **V. MEMBERSHIP OF SCIENTIFIC SOCIETIES**

- Member, Iranian Biochemistry Society, Iran
- Member, Iranian Biology Society, Iran
- Member, Iranian Biotechnology Association, Iran
- Chairman, Hayat Scientific Studies Association, Iran

## **VI. EDITORIAL BOARD MEMBERSHIPS**

- Chairman and Editor-in-Chief, Iranian Journal of Biotechnology, 2005-2014
- Member, Editorial board of Journal for Basic Medical Sciences, 2010-Now
- Member, Editorial board of Iranian Molecular and Biochemical Diagnostics Journal, 2013

## **VII. RESEARCH INTERESTS**

### 1- Cellular Biochemistry :

Liver disorders ( Fibrosis and Cirrhosis ) , cell and gene therapy

### 2-Molecular Biochemistry :

Alpha 1- antitrypsin deficiency (AATD ) and related diseases (Liver , Lung , Kidney ...) . the role of AAT in Preventive and Diagnostic Medicine

## VIII .MD, MSc, PhD and Postdoct. SUPERVISION:

- Mohamadi (PhD) The Study of the expression of miR-20, miR-520, VASP, FAK genes and proteins in tumor tissues samples and adjacent normal tissue samples from colorectal cancer patients and effects of transfection of these microRNAs on the studied genes and proteins in HT29 cell line.2022
- R.Solhi (PhD ) Simultaneous targeting of GLI and XBP1 by decoy oligonucleotides to evaluate inhibition progression of liver fibrosis in LX-2 cell line , 2021
- M.Rangchi (MSc) Mesenchymal stem cell-derived hepatocyte-like cells can efficiently regenerate the liver of immunosuppressed mice with drug-induced hepatic cirrhosis.2019
- S.Alihosseinzadeh (MSc) Alpha-1 Antitrypsin-expressing adipose tissue-derived stem cells effectively ameliorate fibrotic liver in a CCl<sub>4</sub>-induced mouse model of liver fibrosis, 2018
- M. Ghaderi. (Ph.D) Study of expression pattern and identification of MicroRNAs involved in hepatic differentiation of adipose tissue derived mesenchymal stem cells. Sistan and Baloochestan University, 2018
- Z. Mohammadi. (Ph.D) Evaluation of the relationship between the HER2 signaling pathway and P73 with the aim of Herceptin resistance overcoming in SKBR3 and MCF7 cell lines. Tarbiat Modares University, 2018
- M. Javadian. (Ph.D) Designing, expression and preparation of recombinant protein nanoparticles for siRNA delivery to eukaryotic cells. National Institute of Genetic Engineering and Biotechnology, 2017
- H. Ghanei. (Ph.D) Transfer of human alpha 1-antitrypsin and microRNA-146a using lentiviral vector to mesenchymal stem cells and study the effect of produced cells in the wound healing of diabetic animal model. Tarbiat Modares University, 2017
- B. Adibi. (Ph.D) Hepatogenic differentiation of mesenchymal stem cell on collagen matrix activated by biomimetic peptide. Tarbiat Modares University, 2017
- M. Abkar. (Ph.D) Design and production of chimeric protein containing omp 19, omp 31 and urease against brucella and evaluation of its immunization. Tarbiat Modares University, 2015.
- S. Falahati. (Ph.D) Immobilization and display of recombinant organophosphorus hydrolase on the surface of bacillus subtilis spores and investigation of enzyme activity and stability to different temperature and pH. National Institute of Genetic Engineering and Biotechnology, 2015.
- S. Arjmand (Postdoc) Human alpha 1-antitrypsin production using high-cell density cultivation (fermentation) of recombinant *Pichia pastoris*. arbiat Modares University, 2014.

- A. Mohammadpour. (M.Sc) Differentiation of human adipose tissue derived mesenchymal stem cells to hepatocyte like using laminin coat and scaffold. National Institute of Genetic Engineering and Biotechnology, 2014
- M. Ardani. (M.Sc) Study the efficiency of Surface Plasmon Resonance (SPR) in comparisons of Enzyme-linked Immunosorbent assay (ELISA) in order to evaluate a prostate tumor marker (PSA) in sera. Tarbiat Modares University, 2014
- N. Davoodian. (Ph.D) Evaluation of mir-122 up-regulation and let-7 microRNA down-regulation on hepatogenic differentiation of human mesenchymal stem cell from adipose tissue. Tarbiat Modares University, 2014
- A. Mota. (Ph.D) Hepatogenic differentiation of human bone marrow mesenchymal stem cells on PCL/gelatin hybrid nanofiber scaffold bioactivated by biomimetic RGD-containing peptide. Tarbiat Modares University, 2013.
- Z. Khalaj. (MSc) The study of mesenchymal stem cell differentiation to hepatocyte like cells on laminin matrix. National Institute of Genetic Engineering and Biotechnology, 2012.
- V. Razban. (Ph.D) Overexpression of HIF- $\alpha$  gene in mesenchymal stem cells and their differentiation potential to endothelial cells and performing angiogenesis. National Institute of Genetic Engineering and Biotechnology, 2012.
- S. Najavand. (Ph.D) Measurement of organophosphate compounds in human serum through designing. Tarbiat Modares University, 2012.
- S. Arjmand. (Ph.D) Cloning, genetic manipulation and optimization of alpha 1-antitrypsin protein expression in methylotrophic yeast *Pichia pastoris* and its nanoencapsulation. Tarbiat Modares University, 2011.
- S. Khajeh. (MSc) Differentiation of mesenchymal stem cells to hepatocyte-like cells on collagen matrix with immobilized heparin sulfate. Tarbiat Modares University, 2011.
- M. Ghaedi. (Ph.D) Application of mesenchymal stem cell for antiangiogenic alpha 1-antitrypsin gene delivery to inhibit HUVEC line proliferation. Tarbiat Modares University, 2010.
- F. Faraji. (Ph.D) Development of biosensor for quantitative detection of aflatoxin B1-albumin adducts in rat sera by direct SRP immunoassay and comparison with reference method. Tarbiat Modares University, 2010.
- M.M. Milani. (MSc) Isolation, extraction and purification of OPH enzyme from bacterial source and its immobilization on chitosan biopolymer. Tarbiat Modares University, 2010.
- E. Bidram. (MSc) Expression of alpha 1-antitrypsin in *Pichia pastoris*. Tarbiat Modares University, 2009.
- A. Mohsenifar. (Ph.D) Expression of Neuroserpin in prokaryotic system and evaluation of structural and functional changes of Neuroserpin in oxidative stress. Tarbiat Modares University, 2008.
- S. Hasannia. (Ph.D) Assessment of yeast intron insertion on mRNA stability and expression of human alpha 1-antitrypsin cDNA in *Saccharomyces cerevisiae*. Tarbiat

Modares University, 2007.

- A. Mota. (MSc) Study the relationship between alpha 1-antitrypsin phenotypes and vasculitis in patients referred to Tehran rheumatology research center. Tarbiat Modares University, 2006.
- B.G. Goudarzi. (Ph.D) Determination of gene frequency of alpha 1-antitrypsin. Tarbiat Modares University, 2005.
- M.M. Yajloo. (MSc) Frequency of normal variants of alpha 1-antitrypsin in Iran. Tarbiat Modares University, 2005.

- A. Khoshdel. (MSc) Alpha 1-antitrypsin phenotypes, their immunoactivities in autoimmune diseases and relationship with ANCA. Tarbiat Modares University, 2005.
- H.R. Zahiri. (Ph.D) Study of kinetic polymerization of alpha 1-antitrypsin and its effect on cholesterol crystallization in patient with cholesterol gallston. Tarbiat Modares University, 2003.
- F. Faraji. (MSc) Interaction of LDL and alpha 1-antitrypsin (MZ and MS phenotypes) in human serum. Tarbiat Modares University, 2002.
- B. Adibi. (MSc) Isolation and partial purification of alpha 1-antitrypsin from human plasma. Tarbiat Modares University, 2001.
- M. Riazipoor. (Ph.D) Comparison of the virulence of *Candida albicans* isolates for evaluation of esterase activity. Tarbiat Modares University, 2001.
- A. Mohsenifar. (MSc) Evaluation of some urinary medium-chain fatty acid metabolites in patient with MCAD and determination of suitable markers by G.C. Tarbiat Modares University, 2001.
- S. Hakhamaneshi. (MSc) Production, purification of characterization of D-glucose oxides from *Aspergillus niger*. Tarbiat Modares University, 2000.
- M. Sharifi. (MSc) The clinical value of serum lactate dehydrogenase and its enzymes in chronic leukemia patients. Tarbiat Modares University, 1999.
- A. Jafari. (MSc) Determination of lactate dehydrogenase and aldolase activities in severe physical training after administration of sucrose solution. Guilan University, 1997.
- D. Hamidi. (MSc) Alpha 1- atitrypsin deficiency and its phenotyping in emphysema. Tarbiat Modares University, 1996.
- S. Ghavami. (MSc) Evaluation of alpha 1-antitrypsin activity and its phenotyping in idiopathic neonatal liver diseases. Tarbiat Modarres University, 1995.
- B. Milani. (MSc) Alpha 1-antitrypsin is enzymes in hepatitis and hepatitis causes. Tarbiat Modares University, 1995.
- B. G. Goodarzi. (MSc) Isolation, purification and characterization of Uricase from three plant sources for clinical purposes. Tehran University, 1994.
- R. Bagherian. (MSc) Isolation purification and characterization of Uricase from *Candida utilis*. Tehran University, 1993.
- Hassanshahi. (MSc) Lactate dehydrogenase changes in acute leukemia. Tarbiat Modares University, 1992.
- H. Sanati. (M.D.) Some biochemical aspects of asthma. Rafsanjan University for Medical Sciences, 1991.

## IX .ESEARCH PROJECTS

International:

- Over production of alpha1-antitrypsin in yeast and its encapsulation for drug delivery purposes, amount 44000 € supported by ICGEB, Trieste, Italy (2008-2011)

National:

- Role of Mitochondrial DNA Haplogroups in being talent in Iranian athletes (2012-2014)
- Raman spectroscopy technique for biochemical characterization of mesenchymal stem cells and their differentiation (2013-2014)
- Alpha1-antitrypsin purification in *pichia pastoris* with high yield (2013-2015)

## X .PATENTS

National:

- Construction of biodegradable nanoparticles containing alpha-1 antitrypsin (2009)
- Engineering and changes Alpha-1 antitrypsin gene to increase its expression in yeast *Pichia pastoris* (2010)
- Nano SPR device for surface plasmon resonance measurement (2011)
- Organophosphorous hydrolase enzymes engineered with the ability to operate in a wide temperature range and high PH (2011)
- Production of various peptides (Analog of fish GnRH), pilot scale (2012)
- Formulation of bacterial culture medium with certain compounds for yeast *Pichia Pasrtoris* culture (2017)

## XI .PUBLICATIONS

Research Articles:

- 1- R. Solhi a, **A. Sahebghadam Lotfi** a,\* , M. Lotfinia b,c, Z. Farzaneh d, A. Piryaeei, M. Najimi ,M. Vosough Hepatic stellate cell activation by TGFβ induces hedgehog signaling and endoplasmic reticulum stress simultaneously , *Toxicology in Vitro* 80 (2022) : 1-9
- 2- A. Mohammadi , G Ghasempour, **A. Sahebghadam Lotfi** ,M. Najafi (2022) Predicted miRNAs suppressed cell proliferation and migration via FAK/ VASP axis; Systems biology approach , *Informatics in Medicine Unlocked* 29 (2022) :1-11
- 3- ZM Abgarmi, **A. Sahebghadam Lotfi** , S Abroun, M Soleimani, SM Ganji, P Baktash, ...

Breast Cancer Cell Lines, HER2/Neu Phenotype, and a Higher Propensity to Reactive Oxygen Species Production Archives of Breast Cancer, 137-142

- 4- S. Arjmand, A. Barzegar, A. Mohammadpour, H. Rezaei, N. Davoodian , **A. Sahebghadam Lotfi** (2021) Raman Spectroscopic Characterization of Hepatic Differentiation of Mesenchymal Stem Cells. International Journal of Medical Laboratory 2021;8(2):122-130.
- 5- T.Tavasoli, S. Arjmand, O.Ranaei Siadat Production, A .Shojaosadati \*, **A. Sahebghadam Lotfi** (2018), Enhancement of Alpha 1-antitrypsin in *Pichia pastoris* by Designing and Optimizing Medium Using Elemental Analysis Iranian Biotech. October;15(4):e1808.
- 6- T. Tavasoli, S. Arjmand, O .Ranaei Siadat, A.Shojaosadati, **A. Sahebghadam Lotfi** ,(2019) ,A robust feeding control strategy adjusted and optimized by a neural network for enhancing of alpha 1-antitrypsin production in *Pichia pastoris*,*Biochemical Engineering Journal* ,volume 144 :18-27
- 7- S. Arjmand\*, A.Mohammadpour\*, **A. Sahebghadam Lotfi**, M.Kabir, (2019) Differentiation of Mesenchymal Stem Cells by Laminin-Gelatin Cryogel Scaffold, BBRC,In press
- 8- M.Abkar\*, M.Fasihi-ramandi, H.Kooshki, **A. Sahebghadam Lotfi**. Intraperitoneal immunization with Urease loaded N-trimethyl Chitosan nanoparticles elicits high protection against *Brucella melitensis* and *Brucella abortus* infections, *Immunology Letters* 199 (2018) 53–60.
- 9- B.Adibi-Motlagh\*, **A. Sahebghadam Lotfi**, A.Rezaei, E.Hashemi.(2018) Cell attachment evaluation of the immobilized bioactive peptide on a nanographene oxide composite, Materials Science and Engineering C 82, 323–329.
- 10- M.Ghaderi\*, **A. Sahebghadam Lotfi**, D.Tamandani,(2017) S.Arjmand, Sh.Alizadeh. The enhancement of differentiating adipose derived mesenchymal stem cells toward hepatocyte like cells using gelatin cryogel scaffold, Biochemical and Biophysical Research Communications 491 ,1000-1006.
- 11- S.Arjmand\*, N.Khaledi, R.Milani, **A. Sahebghadam Lotfi**, H.Tavana.(2017)Association of mitochondrial DNA haplogroups with elite athletic statusin Iranian population, Meta Gene 11),81–84.
- 12- H.Ghaneialvar\*, **A. Sahebghadam Lotfi**, S.Arjmand, M.Soleimani, F.Mashhadiabbas. (2017)Adipose derived mesenchymal stem cells improve diabetic wound healing in mouse animal model: extracellular matrix remodeling maybe a potential therapeutic usage of stem cells, Biomedical Research; 28 (8): 3672-3679.
- 13- H.Ghaneialvar\*, **A. Sahebghadam Lotfi**, S.Arjmand, M.Soleimani, F.Mashhadiabbas.(2017) Influence of Adipose Derived Mesenchymal Stem Cells on the Effective Inflammatory Factors of Diabetic Wound Healing in Animal Models, J Mazandaran Univ Med Sci 14- 27 (148): 12- 21 (Persian).

- 15- N.Davoodian\*, **A. Sahebghadam Lotfi**, M.Soleimani, H.Ghaneialvar. (2017)The combination of miR-122 overexpression and Let-7f silencing induces hepatic differentiation of adipose tissue-derived stem cells, *Cell Biology International* 41 , 1083–1092.
- 16- T.Tavasoli\*, S.Arjmand, S.Siadat, S.Shojaosadati, **A. Sahebghadam Lotfi**. (2017)Enhancement of Alpha 1-antitrypsin Production in *Pichia pastoris* by Designing and Optimizing Medium Using Elemental Analysis, *Iran J Biotech.* 15(4):e1808.
- 17- M.Abkar\*, M.Fasihi-ramandi, H.Kooshki, **A. Sahebghadam Lotfi**.(2017) Oral immunization of mice with Omp31-loaded *N*-trimethyl chitosan nanoparticles induces high protection against *Brucella melitensis* infection, *International Journal of Nanomedicine* ,12.8769-8778
- 18- H.Ghaneialvar\*, L.Soltani, H.Rahmani, **A. Sahebghadam Lotfi**, M.Soleimani. (2017)Characterization and Classification of Mesenchymal Stem Cells in Several Species Using Surface Markers for Cell Therapy Purposes, *Indian Journal of Clinical Biochemistry*
- 19- H.Javadi\*, **A. Sahebghadam Lotfi**, S.Hosseinkhani. (2017)The combinational effect of E6/E7 siRNA and anti-miR-182 on apoptosis induction in HPV16 positive cervical cells, *International Journal of Nanomedicine* ,
- 20- S.Falahatipour\*, **A. Sahebghadam Lotfi**, Gh.Ahmadian, A.Baghizadeh, R.Behroozi, F.Haghighi.(2016) High-level extracellular secretion of organophosphorous hydrolase of *Flavobacterium* sp. in *Escherichia coli* BL21(DE3)pLysS, *Biotechnology and Applied Biochemistry*
- 21- M. Abkar, **A. Sahebghadam Lotfi**, J. Amani, M.F. Ramandi, (2016) Optimization of a method for refolding of bacterial recombinant proteins, *MBDJ* (in preparation)
- 22- S. Arjmand, **A. Sahebghadam Lotfi**, S.S. Fatemi, R. Behroozi , (2016) High cell density cultivation of recombinant *Pichia pastoris* for improving human alpha 1-antitrypsin production, *Applied Biochemistry and Biotechnology, The Avicenna Journal of Medical Biotechnology (AJMB)* (in preparation)
- 23- Z. Khalaj, **A. Sahebghadam Lotfi**, M. Kabirsalmani, (2016) Laminin Matrix Promotes Hepatogenic Terminal Differentiation of Human Bone Marrow Mesenchymal Stem Cells, *JBMS* , 19,3,34-42.
- 24- S. Khanamani Falahati-Pour, **A. Sahebghadam Lotfi**, G. Ahmadian, A. Baghizadeh, R. Behroozi, F.Haghighi, (2015) High Level Extracellular Secretion of Organophosphorous Hydrolase of *Flavobacterium* sp. In *Escherichia coli* BL21(DE3) pLysS, *BABJ*, DOI 10.1002/bab.1438
- 25- M. Abkar, **A. Sahebghadam Lotfi**, J. Amani, Kh. Eskandari, M.F Ramandi, J. Salimian, Gh.N. Brujeni, S. Alamian, M. Kamali, H. Koushki (2015) Survey of Omp19 immunogenicity against *Brucella abortus* and *Brucella melitensis*: Influence of nanoparticulation versus traditional immunization, *Vet Res Commun*, DOI 10.1007/s11259-015-9645-2

- 26- S.Khanamani, **A. Sahebghadam Lotfi**, G. Ahmadian, A. Baghizadeh, (2015) Immobilization of Organophosphorus Hydrolase on the Surface of *Bacillus subtilis* Spores by the Adsorption Method, *Modares Journal of Medical Sciences: Pathobiology*, 39-53.
- 27- M. Haghi, M.A.H. Feizi, M. Sadeghizadeh, **A. Sahebghadam Lotfi**, (2015) 14-bp Insertion/Deletion polymorphism of the HLA-G gene in breast cancer among women from north western Iran, *Asian Pacific Journal of Cancer Prevention*, DOI 10.7314/APJCP.2015.16.
- 28- M. Abkar, J. Amani, **A. Sahebghadam Lotfi**, Gh.N. Brujeni, S. Alamian, M. Kamali, (2015) Subcutaneous immunization with a novel immunogenic candidate (urease) confers protection against *Brucella abortus* and *Brucella melitensis* infections, *APMIS*, DOI 10.1111/apm.12400.
- 29- M. Abkar, **A. Sahebghadam Lotfi**, J. Amani, M.F Ramandi, (2014) Optimization of a method for refolding of bacterial recombinant proteins, Running Title: Refolding of recombinant protein, *MBD*, 1,4,
- 30- S.K.Falahati-pour, **A. Sahebghadam Lotfi**, G. Ahmadian, A. Baghizadeh, (2014) Covalent immobilization of recombinant organophosphorus hydrolase on spores of *Bacillus subtilis*, *Journal of Applied Microbiology* ISSN, 1364-5072.
- 31- M.G. Syahmazgi, C. Falamaki, **A. Sahebghadam Lotfi**, (2014) A novel method for the synthesis of nano-magnetite particles, *Advances in Nano Research*, 89-98.
- 32- A. Mota, **A. Sahebghadam Lotfi**, J. Barzin, M. Hatam, B. Adibi, Z. Khalaj, M. Massumi, (2014) Human bone marrow mesenchymal stem cell behaviors on PCL/Gelatin nanofibrous scaffolds modified with a collagen IV-derived RGD-containing peptide, *Cell Journal*, 16,1.
- 33- N. Davoodian, **A. Sahebghadam Lotfi**, M. Soleimani, S.J. Mola, S. Arjmand, (2014) Let-7f microRNA negatively regulates hepatic differentiation of human adipose tissue-derived stem cells, *J Physiol Biochem*, 70:781-789.
- 34- N. Davoodian, **A. Sahebghadam Lotfi**, M. Soleimani, S.J. Mowla, (2014) MicroRNA-122 overexpression promotes hepatic differentiation of human adipose tissue-derived stem cells, *Journal of cellular biochemistry*, 115:1582-1593.
- 35- M. Abkar, **A. Sahebghadam Lotfi**, J. Amani, S.A. Ghorashi, G.N. Brujeni, M. Kamali, (2014) Design of chimeric DNA vaccine against *Brucella ssp*, *Minerva Biotech*, 26:223-33.

- 36- V. Razban, **A. Sahebghadam Lotfi**, S. Khalaj, A. Mohsenifar, M. Soleimani, A. Khoshdel, E. Hashemi, (2014) Engineered Heparan Sulfate-Collagen IV Surfaces Improve Human Mesenchymal Stem Cells Differentiation to Functional Hepatocyte Like Cells, *Journal of Biomaterials and Tissue Engineering*, 4, 1-11.
- 37- N. Davoodian, **A. Sahebghadam Lotfi**, M. Soleimani, S.J. Mola, S. Arjmand, (2014) The let-7f microRNA functions as a negative regulator of HNF4a expression in human adipose tissue-derived stem cells, *Modares Journal of Medical Sciences: Pathobiology*, 17, 39-49. (In Persian)
- 38- A. Mota, **A. Sahebghadam Lotfi**, J. Barzin, M. Massumi, M. Hatam, B. Adibi, (2013) Study of hBMSC adhesion and proliferation on RGD-modified polycaprolactone/gelatin nanofibrous scaffold, *Modares Journal of Medical Sciences*, 16(1) ,76-87. (In Persian)
- 39- N. Piroznia, S. Hasannia, S.S. Arab, **A. Sahebghadam Lotfi**, M. Ghanei, A. Shali, (2013) the design of a new truncated and engineered alpha1-antitrypsin based on theoretical studies: an antiprotease therapeutics for pulmonary diseases, *Theoretical Biology and Medical Modeling*, 10:36.
- 40- A. Mota, **A. Sahebghadam Lotfi**, A.R. Jamshidi, S. Najavand, (2013) Alpha 1-antitrypsin activity is markedly decreased in Wegener's granulomatosis, *Rheumatology International*, 34(4):553-8.
- 41- S. Arjmand, **A. Sahebghadam Lotfi**, M. Shamsara, S.J. Mowla, (2013) Elevating the expression level of biologically active recombinant human alpha 1-antitrypsin in *Pichia pastoris*, *Electronical Journal of Biotechnology*, 16, 4-10.
- 42- M. Ghaedi, M. Soleimani, I. Shabani, Y. Duan, **A. Sahebghadam Lotfi**, (2012), Hepatic differentiation from human mesenchymal stem cells on a novel nanofiber scaffold, *Cellular and Molecular Biology Letters*, 17, 89-106.
- 43- A. Khoshdel, **A. Sahebghadam Lotfi**, M. Soleimani , M. Daliri, A. Mota, B. Adibi, (2012) Evaluation of biochemical markers in hepatocyte like cells differentiation from adipose derivation stem cells, *World Applied Science Journal*, 16, 693-98.
- 44- N. Pirooznia, S. Hasannia, **A. Sahebghadam Lotfi**, M. Ghanei, (2012) Encapsulation of alpha 1-antitrypsin in PLGA nanoparticles: in vitro characterization as an effective aerosol formulation in pulmonary diseases, *Journal of Nanobiotechnology*, 10, 20, 1-15
- 45- S. Najavand, **A. Sahebghadam Lotfi**, A.K. Noghabi, A. Mohsenifar, M.M. Milani, A. Mota, R. Behrouzi, F. Masoumi, (2012) A high potential organophosphorus pesticide degrading enzyme from a newly characterized, *Pseudomonas aeruginosa* NLO1, *African Journal of Microbiology Research*, 6, 4261-69.
- 46- **A. Sahebghadam Lotfi**, A. Khoshdel, M. Soleimani , Daliri M., Razban V., B. Adibi, (2012) High yield generation of hepatocyte like cells from adipose derived stem cells, *Scientific Research and Essays*, 7, 1141-7.

- 47- M. Ghaedi, M. Soleimani , N.M. Taghavi, M. Sheikhatollahi, K. Azadmanesh, **A. Sahebghadam Lotfi**, J. Wu, (2011) Mesenchymal stem cell as vehicles for targeted delivery of anti-angiogenic protein to solid tumors, *The Journal of Gene Medicine*, 13, 171-80.
- 48- S. Arjmand, E. Bidram, **A. Sahebghadam Lotfi**, M. Shamsara, S.J. Mowla, (2011) Expression and purification of functionally active recombinant human alpha 1-antitrypsin in methylotrophic yeast *Pichia pastoris*, *Avicenna Journal of Medical Biotechnology*, 3, 127-34.
- 49- S. Arjmand, E. Bidram, **A. Sahebghadam Lotfi**, H. Mahdavi, M. Alavi, (2011) Evaluation of poly (D, L-lactide-co-glycolide) for nanoencapsulation of alpha 1-antitrypsin and in vitro sustained release study, *International Journal of Bioscience, Biochemistry and Bioinformatics*, 1, 68-72.
- 50- N. Hashemifard, A. Mohsenifar, B. Ranjbar, A. Allameh, **A. Sahebghadam Lotfi**, (2010) Fabrication and kinetic studies of a novel silver nanoparticles-glucose oxidase bioconjugate, *Analytica Chimica Acta*, 675, 181-4.
- 51- S.M. Ganji , **A. Sahebghadam Lotfi**, F. Rastegar Jazi, (2010) Alpha 1-antitrypsin deficient squamous cell carcinoma of Esophagus in Azarbaijan province population of Iran correlation of genotype with phenotype, *Lab Medicine* , 43, 613-8.
- 52- S. Arjmand, **A. Sahebghadam Lotfi**, M. Shamsara, E. Bidram, (2010) Recombinant Human  $\alpha$ 1-Antitrypsin Expression in *Pichia pastoris* and Nanoencapsulation, *G.I.T. Laboratory Journal*, 14, 20-21.
- 53- M. Molaei, Abdollahpour S., S. Atashgahi, H. Abbasi, F. Masoomi, I. Rad, **A. Sahebghadam Lotfi**, S.H. Zahiri, H. Vali, A.K. Noghabi, (2010) Enhanced phenol degradation by *Pseudomonas* sp.SA01: Giving insight into the novel single and hybrid immobilizations, *Journal of Hazardous Materials*, 175, 284-92.
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3. S. Kh. Falahati Pour, **A. Sahebghadam Lotfi**, G. Ahmadian, A. Baghizadeh, (2012) The *Bacillus subtilis* Spore Surface Display of Organophosphorus Hydrolase (OPH) For Detoxification of Neurotoxic Organophosphorus (OP) Compounds, Iranian neurogenetics congress.
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## **XIII.Paper presentations in scientific congresses:**

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2. **A. Sahebghadam Lotfi**, Systemic perspective of stem cell differentiation. (2013) 13<sup>th</sup> ICB & 5<sup>th</sup> ICBMB Yazd, Iran.
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