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<https://www.scopus.com/authid/detail.uri?authorId=56116674500#>
<https://scholar.google.com/citations?user=u2XtWtMAAAAJ&hl=en>
<https://www.researchgate.net/profile/Mohammad-Shokrgozar>

Education:

1985-1989 B.Sc.: Biology, Department of Biology, Faculty of Sciences, Tarbiat Moallem University, Tehran, Iran.

1989-1992 M.Sc.: Immunology, Department of Immunology, Faculty of Medicine, Tehran University of Medical Sciences, Tehran, Iran.

Thesis: Serum β_2 -microglobuline concentration analysis in Systemic Lupus Erythematosus(SLE). Supervisor: Dr. Ahmad Masoud and Dr. Mahmood Akbarian

1993-1999 Ph.D.: Biological Products, Pasteur Institute of Iran, Tehran, Iran.

Thesis: Immunological analysis of unresponsiveness to HBsAg and establishment of EBV-transformed B-cells producing human monoclonal antibodies specific for hepatitis B surface antigen. Supervisor: Dr. Fazel Shokri

Posts Held:

2015(May)–Present: Member of Iranian excellent scientific club.

2013(May)–Present: Professor in Medical Biotechnology and Tissue Engineering.

2013-2014(Sept.): Research and Technology Deputy of Pasteur Institute of Iran, Tehran, Iran.

2012(May)–Present: New Technology Group Director in Pasteur Institute of Iran.

2012–2013(Oct.): Cultural and Training Deputy of Pasteur Institute of Iran, Tehran, Iran.

2011(Feb.)–2015: Director of National Cell Bank of Iran, Pasteur Institute of Iran.

2008(Mar.)–2013(May): Associate Professor in Medical Biotechnology, Pasteur Institute of Iran(IPI).

2007–Present: Director of tissue engineering lab. & stem cell lab. in the National Cell Bank of Iran, Pasteur Institute of Iran.

2007(Nov.)–Present: Member of Medical Nanotechnology committee, The Ministry of Health & Medical Education.

2007–Present: Member of President Deputy-Stem Cell Comitee and Iran Stem Cell Network.

2005–2012(Oct.): Postgraduate Office Director of Pasteur Institute of Iran, Tehran, Iran.

2005–2009: Member of Iran Medical Engineering Network, Amir Kabir University of Technology, Tehran, Iran.

2000–2011(Feb.): Assistant director in National Cell Bank of Iran, Pasteur Institute of Iran, Tehran, Iran.
2002–Present: Director of cell culture lab. in the National Cell Bank of Iran, Pasteur Institute of Iran.
2000–2008(Mar.): Assistant Professor in Medical Biotechnology, National Cell Bank of Iran(NCBI), Pasteur Institute of Iran(IPI), Tehran, Iran.

Publications(scopus) : 452

Total citations(scopus): 12252

h-index(scopus):55

h-index(google scholar): 66

i10-index(google scholar):309

Total citations(google scholar): 16375

Thesis:

SUPERVISOR:

A-Ph.D(53 students):

2018-2020(ended)

Expression and purification of Mussel foot protein 3,5-GvpA in CHO cells and *E.colli Rosetta* expression system. Ph.D student in Medical Biotechnology(Iranpour HR). Pasteur Institute of Iran. Supervisors: Dr Shokrgozar MA and Dr Bouzari S and Advisor: Dr Shahsavarani H and Dr Hoseini N.

2018-2020(ended)

Fabrication and evaluation of Chitosan-Gelatin nanofiber scaffold contains herbal extract for controlling the pH environment. Ph.D student in Textile Engineering(Hadipour E). Amirkabir University of Technology. Supervisors: Hemmatinezhad N and Dr Shokrgozar MA.

2018-2020(ended)

Evaluation of stem cells differentiation to the endothelial cells in the peptide group modified alginate microcapsules. Ph.D student in Medical Engineering(Jahanbakhsh A). Semnan University. Supervisors: Dr Haghighipour N and Dr Shokrgozar MA and Advisor: Dr Bonakdar S.

2018-2020(ended)

Cardiomyocyte differentiation from induced pluripotent stem cell (hiPSCs) on cell imprinting and natural chemical compounds. Ph.D student in Medical Biotechnology(Etezadi F). Pasteur Institute of Iran. Supervisors: Dr Shokrgozar MA and Dr Bonakdar S and Advisor: Dr Shahsavarani H and Dr Alipour A.

2018-2020(ended)

Synchronous combination of physical and genetic parameters to improve efficiency of reprogramming human somatic cell to induced pluripotent stem cells. Ph.D student in Medical Biotechnology(Harati J). Pasteur Institute of Iran. Supervisors: Dr Shokrgozar MA and Dr Bonakdar S and Advisor: Dr Shahsavarani H and Dr Aflatoonian B.

2015-2017(ended)

Design and expression of a recombinant form of human Keratinocyte growth factor fused by collagen binding domain (CBD) and assessment of its effect on keratinogenesis differentiation of stem cells on imprinted collagen scaffold. Ph.D student in Medical Biotechnology(Amidzadeh Z). Pasteur Institute of Iran. Supervisors: Dr Shokrgozar MA and Dr Golkar and Advisor: Dr Bonakdar S and Dr Habibi-Anbouhi M.

2015-2017(ended)

Synthesis and characterization of novel contrast agents based on nano graphene oxide for magnetic resonance imaging -MRI. Ph.D student in Material Engineering(Enayati M). Science and Research Branch, Islamic Azad University and Sharif University of Technology and Pasteur Institute of Iran. Supervisors: Dr Shokrgozar MA and Dr Nemati and Advisor: Dr Zarrabi A.

2015-2017(ended)

Fabrication of Hydrogels-Based Microfluidic Platform and Study of Angiogenesis in Vitro. Ph.D student in Chemical Engineering(Jafarkhani M). Tehran University, Sharif University of Technology and Pasteur Institute of Iran. Supervisors: Dr Salehi Z and Dr Mashayekhian S and Dr Shokrgozar MA and Advisor: Dr Akbari M.

2014-2017(ended)

Evaluation of stem cell differentiation to nerve cells by physical method and its comparison to differentiated cells by chemical method and regenerative effects assessment in animal model. Ph.D student in Tissue Engineering(Mousazadeh M). National Institute of Genetic and Biotechnology and Pasteur Institute of Iran. Supervisors: Dr Faghihi and Dr Shokrgozar MA and Advisor: Dr Bonakdar S.

2014-2017(ended)

Anti-human CD44 hybridoma development for evaluation of differentiation induction in NB4 and bone marrow cells isolated from Iranian human Acute Myeloid leukemia(AML). Ph.D by research student (Amanzadeh A). Pasteur Institute of Iran. Supervisors: Dr Shokrgozar MA and Dr Abolhasani M and Advisors: Dr Habibi Anbouhi M.

2014-2017(ended)

Improved erythropoietin production via control of the secretory pathway by chemical and molecular inducers in Chinese Hamster Ovary cells. Ph.D by research student (Mortazavi M). Pasteur Institute

of Iran. Supervisors: Dr Shokrgozar MA and Dr Sardari S and Advisor: Dr Kaghazian H and Dr Hoseini N and Dr Azadmanesh and Dr Mahdian R.

2013-2015(ended)

Production and formulation of recombinant human growth factor, PDGF-BB in alginate hydrogel and its assessment in wound healing. Ph.D student in Medical Biotechnology(Babavalian H). Baqiyatallah University of Medical Sciences and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr Latifi AM and Dr Shokrgozar MA and Advisor: Dr Bonakdar S.

2014-2017(ended)

Design and fabrication of nano-adjuvant based on silk for using in hepatitis B vaccine. Ph.D student in Medical Engineering(Rezaei). Amirkabir Technical University- Medical Engineering College and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr Keshvari and Dr Shokrgozar MA and Advisor: Dr Farokhi M.

2012-2016(ended)

Design, construction and expression of Two novel Epidermal Growth Factor with Collagen binding domain (EGF-CBD) coding sequence and evaluation of growth stimulation of purified EGF on human fibroblastic cells. Ph.D student in molecular genetic(Parsaeai A). Azad University- Science and Research Branch and Pasteur Institute of Iran, Supervisors: Dr Shokrgozar MA and Dr Noormohammadi Z and Advisor: Dr Irani S.

2012-2015(ended)

Evaluation of rabbit myocardial repair with autologous transplantation of cardiomyocytes differentiated from mesenchymal stem cells isolated from adipose tissue and bone marrow by mechanical loading. Ph.D student in Veterinary Surgery (Mahmoudi E). Tehran University, Faculty of Veterinary. Supervisors: Dr Dehghan M and Dr Shokrgozar MA and Advisors: Dr Marjanmehr SH and Dr Pedram MS.

2012-2016(ended)

Development of anti-human CD47 scFVs as a biomarker of bladder cancer stem cells, and its conjugation to magnetic nanoparticles to achieve a tool for detection and isolation of CD47+ cancer cells. Ph.D student in Medical Biotechnology(Rezaei G). Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Shokrgozar MA and Dr. Abolhasani M and Advisors: Dr. Habibi Anbouhi M. and Dr. Mahmoudi M and Dr. Azadmanesh K.

2012-2016(ended)

Survey of identified protein MDR-TB for rapid diagnosis of MDR-TB. Ph.D by research student (Yari S). Pasteur Institute of Iran. Supervisors: Dr. Bahrmand MR and Dr. Ghaneai M and Dr. Vaziri B and Dr. Shokrgozar MA and Advisors: Dr. Mahdian R.

2012-2016(ended)

Cellular immune response in identified protein candidate MDR-TB and its comparison to healed and healthy patients. Ph.D by research student (Hadizadeh-Tasbiti A). Pasteur Institute of Iran. Supervisors: Dr. Bahrmand MR and Dr. Ghaneai M and Dr. Vaziri B and Dr. Shokrgozar MA and Advisors: Dr. Mahdian R.

2012-2016(ended)

Cloning, expression and biological evaluation of human transforming growth factor β 1 in CHO expression system and use to chondrogenesis. Ph.D student in Medical Biotechnology (Asgari M). Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Shokrgozar MA and Advisors: Dr. Bonakdar S and Dr. Habibi Anbouhi M.

2012-2016(ended)

Construction of Herpes simplex oncolytic virus based on expression of ICP34.5 under control of hTERT. Ph.D student in Medical Biotechnology (Abdoli S). Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Roohvand F, Teymoori L, Dr. Shokrgozar MA and Advisors: Dr. Azadmanesh and Farasati F.

2012-2016(ended)

Generation of recombinant single chain variable fragment antibody (sCFv and (sCFv)₂) against CD123 antigen to target Leukemic Cancer Stem (LCS) cells. Ph.D student in Medical Biotechnology (Moradi-Kalbolandi S). Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Shokrgozar MA and Dr. Abolhasani M and Advisors: Dr. Golkar M.

2012-2015(ended)

Evaluation the effect of endothelial, endometrial stem cell and angiogenic factors on osteoblast cell function seeded on nano-structured Silk/PLGA construct. Ph.D student in Tissue Engineering (Farokhi F). Tehran University of Medical Sciences-New Technology College and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Ai J and Dr. Shokrgozar MA and Dr. Hajati and Advisors: Dr. Azami M.

2011-2015(ended)

Nanobody generation and selection against Iranian scorpion venom of *Hottentotta saulcyi* by phage display technique and its functional evaluation. Ph.D student in Medical Biotechnology (Darvish M). Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Shahbazzadeh D. and Dr. Shokrgozar MA and Advisors: Dr. Behdani M and Dr. Poushang Bagheri K.

2012-2015(ended)

Co-transplantation of pancreatic islets and VEGF-expressing mesenchymal stem cells through scaffold in diabetic mice. Ph.D student in Medical Biotechnology (Hajizadeh E). Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Shokrgozar MA and Dr. Baharvand H and Advisors: Dr. Azadmanesh K and Dr. Aghdami N.

2011-2014(ended)

Autoassemble 3D nanoscaffold designing based on peptide for chondrocyte culture and regeneration. Ph.D student in Nanotechnology(Roshani-Yasaghi E). Tarbiat Modares University-Bioscience College-Nanotechnology Department. Supervisors: Dr. Naderimanesh H. and Dr. Shokrgozar MA.

2011-2014(ended)

Investigation of fluid hydrodynamic in endothelial cell culture on hollow fibers for improvement of oxygenator biocompatibility. Ph.D student in Chemical Engineering (Salehi-Nik N). Tehran University-Engineering College and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Amooabedini and Dr. Shokrgozar MA.

2010-2013(ended)

Synthesis and in vitro evaluation of Novel biotinylated chitosan-graft-polyethyleneimine copolymer as a targeted non-viral vector for anti-EGF receptor siRNA delivery in cancer cells. Ph.D student in Medical Nanotechnology (Darvishi MH). Tehran University of Medical Sciences-New Technology College and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Dinarvand and Dr.Shokrgozar MA. and Advisors: Dr. Amini M, Nomani A and Karimiarzanani M.

2010-2013(ended)

Functional differentiation of Mesenchymal Stem Cells to Endothelial cell by concurrent tensile and shear loadings. Ph.D student in Medical Engineering (Shojaeai S). Amirkabir Technical University-Medical Engineering College and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Tafazoli Shadpour M, Dr.Shokrgozar MA. and Advisors: Dr. Haghighipour N.

2010-2013(ended)

Human Adipose Stem Cells Transduced by EGF/TGF α Coding Adenovirus Can Enhance Keratinocyte Migration and Proliferation. Ph.D student in Medical Biotechnology(Negahdari B).Pasteur Institute of Iran. Supervisors: Dr. Azadmanesh K, Dr.Shokrgozar MA, Khorammizadeh MR and Advisors: Dr. Modaresi MH.

2010-2013(ended)

Differentiation of adipose derived stem cells to schwann cells and evaluation of them at rat spinal cord injury regeneration in company with collagen recompatible scaffold. Ph.D student in Anatomy(Zaminy A).Shahid Beheshti University of Medical Sciences and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Sadeghi and Dr.Shokrgozar MA and Advisors: Dr. Norouzian and Dr. Piryaee.

2010-2013(ended)

Design and fabrication of biohybrid scaffold based on 3D silk/SWCNT nanocomposites coated aligned fibronectin nanofibers in order to evaluate the behavior of schwann cells. Ph.D student in Nanotechnology(Mottaghitalab F). Tarbiat Modares University and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Sadeghizadeh M, Dr. Shokrgozar MA and Advisors: Dr. Soleymani M, Kokabi M.

2010-2013(ended)

Study of L1 retrotransposition induction in neuronal cell line and its effect on apoptotic fate. Ph.D student in Medical Genetic(Habibi L). Tehran University of Medical Sciences-Medical Genetic Group and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Akrami M and Dr. Shokrgozar MA and Advisors: Dr. Modaresi MH.

2010-2013(ended)

Analysis the effects of autologous fibroblast transplantation lone and combined with low level laser in diabetic foot wound healing and comparison of VEGF, FGF, PDGF gene expression in these two methods. Ph.D student in Medical Genetic(Kazemikhoo N). Tehran University of Medical Sciences-Medical Genetic Group and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Akrami M and Dr. Shokrgozar MA and Advisors: Dr. Nilforooshzadeh MA.

2010-2013(ended)

In vitro microRNA (mmu-miR-290-295) expression evaluation in mouse embryonic cells to germ line cells differentiation pathway. Ph.D student in Medical Genetic(Ebrahimzadeh-Vesal R). Tehran University of Medical Sciences-Medical Genetic Group and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Modaresi H and Dr. Shokrgozar MA and Advisors: Dr. Nayernia K and Teymori L.

2008-2011 (ended)

In silico linear B-cell epitope prediction of extra membrane loop of human B lymphocyte CD20 antigen and preparation of monoclonal antibody against it. Ph.D student in Pharmaceutical Biotechnology(Habibi Anbouhi M). Pasteur Institute of Iran. Supervisors: Dr. Shokrgozar MA, Dr. Bouzari S, Abolhasani M. and Advisors: Khanahmad H, Madadkar A, Aghasadeghi MR.

2008-2011 (ended)

Assessment o f immunogenicity and efficacy of epitopes from leukemia associated antigens in HLA-A0201 mouse model. Ph.D student in Medical Biotechnology(Saeadi SN). Pasteur Institute of Iran. Supervisors: Dr. Alimohammadian MH, Dr. Shokrgozar MA, Dr. Daftarian P and Advisors: Dr. Azadmanesh K, Dr. Moosavi A.

2008-2011 (ended)

Generation and Analysis of T Cells Expressing a HER2-Specific Chimeric Receptor(Rahimi F). Ph.D student in Pharmaceutical Biotechnology. Pasteur Institute of Iran. Supervisors: Dr. Rahbarizadeh F, Dr. Shokrgozar MA and Advisor: Mahboudi F.

2008-2011 (ended)

Preparation and characterization of T lymphocytes containing chimeric anti-TAG72 receptor(Sharifzadeh Z). Ph.D student in Pharmaceutical Biotechnology(Sharifzadeh Z). Pasteur Institute of Iran. Supervisors: Dr. Rahbarizadeh F, Dr. Shokrgozar MA and Advisor: Mahboudi F.

2008-2011 (ended)

Experimental study and synthesis of nanostructured supramolecules with targeted drug delivery applications. Ph.D student in nanotechnology(Zarrabi). Sharif University. Supervisors: Dr. Vosoughi M, Dr. Adeli M, Dr. Shokrgozar MA.

2008-2011 (ended)

The role of biomechanical stimuli in myogenic induction of marrow stromal cells, adipose-derived stem cells and

satellite cells of adult rat. Ph.D student in Anatomy(Bayati V). Shahid Beheshti University of Medical Sciences, Supervisors: Dr. Shokrgozar MA and Sadeghi Y and Advisor: Haghighipour N.

2008-2011 (ended)

Biomechanical analysis of mechanical loading on the morphology and stem cell proliferation and its differentiation to engineered cells. Ph.D student in Biomechanics(Rabbani). Amir Kabir University of Technology-Medical Engineering College. Supervisors: Dr. Tafazoli-Shadpour and Dr. M.A. Shokrgozar.

2007-2009 (ended)

Preparation of a cartilage tissue engineering scaffold based on a composition of Polyvinyl alcohol and Polyurethane and study of the chondrocyte behavior after culture on it. Ph.D student in Biomaterials(Bonakdar S). Amir Kabir University of Technology-Medical Engineering College. Supervisors: Dr. Emami and Dr. M.A. Shokrgozar.

2008-2009 (ended)

Evaluation of gingival fibroblasts seeding on chitosan as a scaffold and their clinical and histological study on the height of keratinized gingiva in dogs. Specialist student in Periodontology(Lotfi G). Shahid Beheshti University of Medical Sciences, Dental School. Supervisors: Dr. R. Mofid and Dr. M.A. Shokrgozar.

2007-2008 (ended)

Photothermal treatment of SKBr3 cell lines using gold coated silica nanoshells armed with VHH anti-human epidermal growth factor receptor -2 (HER-2). Ph.D student in Medical Biochemistry(Sheikholeslami M). Tarbiat Modares University, Medical College. Supervisors: Dr. Rasaei and Dr. M.A. Shokrgozar.

2005-2008 (ended)

Regression evaluation between VirB2 infection factor mutation in Brucella melitensis with immunogenicity and its stability in macrophage cells. Ph.D student in Genetic(Yabesi). Azad University- Science and Research Branch and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Sadeghizadeh and Dr. M.A. Shokrgozar and Advisor: Javadi G.

2005-2008 (ended)

Inhibition evaluation of siRNA on effective genes expression in alzihmer disease cell line. Ph.D student in Genetic(Dezfoulan M). Azad University- Science and Research Branch and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. M.A. Shokrgozar and Dr S. Sardari and Advisor: Javadi G.

2005-2008 (ended)

Biomechanical analysis of arterial endothelial cells reflection to cyclic loading. Ph.D student in Biomechanic(Haghighipour N). Amir Kabir University of Technology-Medical Engineering College. Supervisors: Dr. Tafazoli-Shadpour and Dr. M.A. Shokrgozar.

2005-2006 (ended)

Evaluation of seeding of human gingival fibroblasts on a biodegradable scaffold for gingival augmentation : A pilot study. Specialist student in Periodontology(Mohammadi M). Shaheed Beheshti University of Medical Sciences, Dental School. Supervisors: Dr. R. Mofid and Dr. M.A. Shokrgozar.

B-MSc(66 students):

2015-2016(it is processing)

Evaluation of Chondrogenic Differentiation of Mouse Embryonic Stem Cells by Cell Imprinting Substrate. MSc student in Biology-Cellular and Developmental(Alizadeh-Moghadam Mona). Islamic Azad University, Science and Research Branch and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Shokrgozar M.A and Dr. Bonakdar S and Dr. Parivar K.

2015-2016(it is processing)

Comparative evaluation of expression of recombinant Phytase by using expression vectors with and without His- or S-tags in E. coli. MSc student in Biology-Cellular and Molecular(Alizadeh-Moghadam Maryam). Islamic Azad University, Pharmaceutical Science Branch and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Shokrgozar M.A.

2015-2016(it is processing)

Designing and constructing of Trx-His-EGF-CBD gene for purification and expression EFG in E.Coli and Comparison to construct of pET26-ELP-Intein-EGF. MSc student in Biology-Cellular and Molecular(Shams D). Islamic Azad University, Pharmaceutical Science Branch and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Shokrgozar M.A.

2015-2016(it is processing)

Regeneration of skin by allogenic adipose-derived stem cells cultured on collagen- amniotic membrane based scaffold and it's evaluation in animal model. MSc student in Tissue Engineering(Fazel E). Tehran University-Science and Technology College and Pasteur Institute of

Iran-National Cell Bank of Iran. Supervisors: Dr. Mohammadi J and Dr. Shokrgozar MA. and Advisors: Dr. Bonakdar S.

2015-2016(it is processing)

Collagen- amniotic membrane based scaffold production and in vitro biological evaluation. MSc student in Tissue Engineering(Zargar R). MSc student in Tissue Engineering(Zargar R). Tehran University-Science and Technology College and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Mohammadi J and Dr. Shokrgozar MA. and Advisors: Dr. Bonakdar S.

2014-2015(ended)

Substrate stiffness evaluation in cancer cells behavior. MSc student in Medical Engineering; Tissue Engineering(Ansar-Damavandi A). Amirkabir University of Technology and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Tafazoli-Shadpour M and Dr. Shokrgozar MA.

2013-2014(ended)

Design and fabrication of a microbioreactor to study the effects of mechanical stimulations on the cells. MSc student in Medical Engineering; Tissue Engineering(Halvaei M). Amirkabir University of Technology and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Abolfathi N and Dr. Shokrgozar MA. and Advisors: Dr. Eskandari M and Haghighipour N.

2013-2014(ended)

Microwave plasma treatment of 3D scaffold for skin culture and its evaluation. MSc student in Medical Engineering; Tissue Engineering(Babaei-Frootan M). Amirkabir University of Technology and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Abolfathi N and Dr. Shokrgozar MA.

2013-2014(ended)

The effects of dendrimer G2 containing Gentamicin for reducing the intracellular Brucella in infected BALB/c mice. Tarbiat Modares University and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Genetic(Houshmand-Anbarestani A). Supervisors: Dr. Sadeghizadeh M. and Dr. Shokrgozar M.A.

2013-2014(ended)

Designing of Angiogenesis Inhibitors to Vascular Endothelial Growth Factor Receptor for Cancer Therapy. MSc student in Biology-Genetic(Ghadam M). Islamic Azad University, Science and Research Branch. Supervisors: Dr. Shokrgozar M.A. and Advisors: Dr. Sardari S.

2013-2014(ended)

Design and fabrication of hyperbranched polymer coated magnetic nanoparticles for drug delivery applications. MSc student in Chemical Engineering; Biotechnology(Jahandar M). Isfahan University and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Zarrabi A and Dr. Shokrgozar MA.

2012-2013(ended)

The Effect of Polycaprolactone/Starch Ratio on in situ Pore Formation of the Composite and in vivo Evaluation of the Scaffold for Bone Tissue Engineering Application. MSc student in Medical Engineering; Tissue Engineering(Aliakbar Ghavimi S). Amirkabir University of Technology and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Solati-Hashjin M and Dr.Shokrgozar MA.

2012-2013(ended)

Fabrication and properties characterizing of electrospun polycaprolactone(PCL) nanofibers for tendon tissue engineering. MSc student in Medical Engineering; Biomaterials(Hoseinkazemi H). Amirkabir University of Technology and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Rabieae and Dr. Shokrgozar MA. and Advisors: Dr. Bonakdar S.

2012-2013(ended)

Designing and constructing of EGF containing ELP and intein in E.coli. MSc student in Biology-Genetic(Omoomi N). Islamic Azad University, Science and Research Branch. Supervisors: Dr. Shokrgozar M.A. and Advisors: Dr. Noormohammadi Z.

2012-2013(ended)

Designing and constructing of ELP-intein gene for purification and expression EGF in E.coli. MSc student in Biology-Genetic(Parsaei A). Islamic Azad University, Science and Research Branch. Supervisors: Dr. Shokrgozar M.A. and Advisors: Dr. Noormohammadi Z.

2012-2013(ended)

Evaluation of stem cell differentiation in modified alginate microcapsule by peptid groups to endothelial cells. MSc student in Biomaterials(Jahanbakhsh M). Semnan University and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Noorbakhsh MS, Dr. Shokrgozar MA and Advisors: Dr. Bonakdar S.

2012-2013(ended)

The effect of Iron Superparamagnetic nanoparticles coated by polyethylene glycol on physiology of cell cycle and in vivo study for identification the parameters on liver and kidney functions. MSc student in Medical Physiology(Ghasempour S). Zanzan University of Medical Sciences and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Alipour M, Dr. Shokrgozar MA and Advisors: Dr. Ghasempour S.

2011-2012(ended)

Fabrication of a drug delivery system for release of rapamycin in heart bypass surgery. Sharif University of Technology and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Biomaterials(Manafi-Rad A). Supervisors: Dr. Simchi AR and Dr. Shokrgozar MA.

2011-2012(ended)

Preparation and Evaluation of Smart Polymeric Nanoparticles Capable of stimulating the Immune System for Cancer Therapy. MSc student in Biomaterials(Majedi FS). Amirkabir University of Technology and Pasteur Institute of Iran-National Cell Bank of Iran. Supervisors: Dr. Emami S and Dr. Shokrgozar MA.

2011-2012(ended)

Cloning of reteplase gene in pIEx-4 His and evaluation of its expression in insect cell lines. Isfahan University of Medical Sciences, Pharmacy College and Pasteur Institute of Iran-National Cell Bank of Iran. MD student in Pharmacy(Aflakian S). Supervisors: Dr. Mir Mohammad Sadeghi and Dr. Shokrgozar MA.

2011-2012(ended)

PCL-PVA-Gelatin fabrication for evaluating of stem cell behavior in differentiation. Islamic Azad University, Research and Science Branch and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Biomaterials(Naghizadeh Z). Supervisors: Dr Karkhaneh A. and Dr. Shokrgozar M.A. Advisors: Dr. Bonakar S.

2011-2012(ended)

Skin replacement evaluation in skin regeneration(burning) and inhibition of scar in site of defect. Shahed University. MD student in medicine(Yavari SK), Supervisors: Dr Heidari Seraj M, Dr. Shokrgozar M.A. and Advisors: Dr. Phaghihzadeh E.

2011-2012(ended)

Biomechanical and histological evaluation of polycaprolacton scaffold fabricated by electrospinning method and autologous stem cells in tendon regeneration in rabbits. Tehran University, Veterinary College and Pasteur Institute of Iran-National Cell Bank of Iran. DVM student in Veterenarian(Saffarian Z), Supervisors: Dr. Dehghan MM and Dr. Shokrgozar M.A. and Advisors: Dr. Bonakar S.

2011-2012(ended)

Evaluation of artificial skin by mesenchymal stem cells in dog,s skin regeneration. Tehran University, Science College and Pasteur Institute of Iran-National Cell Bank of Iran. DVM student in Veterenarian(Mokhtari E), Supervisors: Dr. Dehghan MM and Dr. Shokrgozar M.A. and Advisors: Dr. Bonakar S.

2011-2012(ended)

Cartilage-bone nanocomposite schaffold fabricated from apatite-hydrogel. Amirkabir University of Technology and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Biomaterials(Raz M). Supervisors: Dr. Moztarzadeh F, Dr. Shokrgozar M.A. and Advisors: Dr. Azami M.

2010-2011(ended)

Evaluation of mesenchymal stem cells behavior in differentiation to chondrocyte on copolymer PVA and PU. Amirkabir University of Technology and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Biomaterials(Iranpour T). Supervisors: Dr. Shokrgozar M.A. and Dr. Bonakdar S.

2010-2011(ended)

Synthesis and evaluation of itaconic acid-polyethylen glycol copolymer containing of N-vinyl pyrrolidone for cartilage regeneration. Amirkabir University of Technology and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Biomaterials(Aydoon A). Supervisors: Dr. Shokrgozar M.A. and Dr. Bonakdar S.

2010-2011(ended)

In vitro and clinical effect of mechanical loading on rabbit mesenchymal stem cells to cardiomyocyte cells and its function in heart regeneration(in vivo study). Amirkabir University of Technology and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Biomechanic(Amin S). Supervisors: Dr. Tafazoli-Shadpour M, Dr. Shokrgozar M.A. and Dr. Dehghan MM.

2010-2011(ended)

Evaluation of differentiation markers in myoskeletal cells differentiate of mouse embryonic and mesenchymal stem cells after mechanical stimulations. Khatam University and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Biomechanic(Noorizadeh Abbariki T). Supervisors: Dr. Shokrgozar M.A. and Dr. Haghighipour N. and Advisors: Dr. Aghdami N.

2010-2011(ended)

Evaluation of uniaxial cyclic strain and electromagnetic fields in mesenchymal stem cells to osteoblast cells. Khatam University and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Biomechanic(Jazayeri M). Supervisors: Dr. Shokrgozar M.A. and Dr. Boloori and Advisors: Dr. Haghighipour N.

2009-2010(ended)

Synthesis and evaluation of Ca and Mg on formation process, physical and biological properties of nano hydroxy apatite. Iran Science and Technology University and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Biomaterials(Mehrjoo M). Supervisors: Dr. Javadpour and Dr. Shokrgozar M.A.

2009-2010(ended)

Different template evaluation in direction of electrospined nanofibers as a scaffold on mesenchymal stem cell behavior. Amirkabir University of Technology and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Biomaterials(Zamani Y). Supervisors: Dr. Rabieae, Dr. Shokrgozar M.A and Dr. Gholipour A.

2009-2010(ended)

Evaluation of frequency and time in cyclic hydrostatic pressure on morphology and mesenchymal stem cell differentiation. Amirkabir University of Technology and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Biomechanics(Safshekan F). Supervisors: Dr. Tafazoli-Shadpour M, Dr. Shokrgozar M.A. and Dr. Haghighipour N.

2009-2010(ended)

Promotion of mechanical properties in chitosan-hydrogel scaffold using by silk for cartilage regeneration. Amirkabir University of Technology and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Biomaterials(Mirahmadi F). Supervisors: Dr. Tafazoli-Shadpour M, Dr. Shokrgozar M.A. and Dr. Gholipour A.

2009-2010(ended)

Fabrication, characterization and biological evaluation of hydroxyapatite/twinlayer hydroxide nanocomposite scaffolds. Amirkabir University of Technology and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Biomaterials(Fayazbakhsh F). Supervisors: Dr. Solati-Hashtjin M, Dr. Shokrgozar M.A and and Advisors: Dr. Bonakar S.

2009-2010(ended)

Healing Potential of Mesenchymal Stem Cells Cultured on a Collagen-Based Scaffold for Skin Regeneration. Khatam University and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Cellular and Molecular Biology(Fattahi M). Supervisors: Dr. Shokrgozar M.A. and Dr. Kashani-Ragerdi I and Advisors: Dr. Haghighipour N.

2008-2009(ended)

Synthesis and biological evaluation of magnetical solutions based on Iron superparamagnetic nanoparticles with magnesium for medical applications. Sharif University, Material College and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Biomaterials(Abedini F). Supervisors: Dr. Maddahhosseini HR. and Dr. Shokrgozar M.A.

2008-2009(ended)

Synthesis of CdSe nanocrystals and evaluation of layer coating possibility on silicone membrane for using in biosensors. Amirkabir University of Technology and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Biomaterials(Parviz M). Supervisors: Dr. Rabiei M, Dr. Shokrgozar M.A. and Advisors: Dr. Moztarzadeh F.

2008-2009(ended)

Myoskeletal nanofiber scaffold fabrication and its evaluation. Tehran University of Medical Sciences, New Technology College. MSc student in Tissue Engineering(Safari Paskiabi F). Supervisors: Dr. Faridi Majidi, Dr. Shokrgozar M.A. and Advisors: Dr. Ai J and Saber R.

2008-2009(ended)

Mechanical stretch evaluation on bone marrow stem cells differentiation to skeletal muscle cells. Khatam University. MSc student in Cellular and Molecular Biology(Noorizadeh T). Supervisors: Dr. Shokrgozar M.A. and Advisors: Dr. Dr. Amirizadeh N. and Dr. Haghighipour N.

2008-2009(ended)

Toxicity and apoptosis study of nanosilver (Nanocid®) on normal, cancer and stem cells. Payame Noor University. MSc student in Biology-Biochemistry(Moaddab S). Supervisors: Dr. Shahbazzadeh D, Dr. Shokrgozar M.A. and Advisors: Dr. Hajizadeh Hoseini and Ahari H.

2008-2009(ended)

Comparison between periosteal and alveolar isolated osteoblasts. Shahid Beheshti Medical University, Dental School. Dental MD student(Jabbareh L). Supervisors: Dr. Vahabi S, Dr. Shokrgozar M.A. and Advisors: Dr. Mofid R.

2008-2009(ended)

Chitosan-polyvinyl alcohol conjugated with NGF for nerve growth and proliferation. Islamic Azad University, Science and Research Branch. MSc student in Biochemistry(Mottaghtalab F). Supervisors: Dr. Shokrgozar M.A. and Advisors: Dr. Eslamifar A.

2008-2009(ended)

Fabrication and development of CdSe/ZnS(core-shell) for preparing the cancer nanobiosensor. Amirkabir University of Technology and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Biomaterials(Yousefi F). Supervisors: Dr. Rabiei Mohammad and Dr. Shokrgozar M.A.

2007-2008(ended)

Mechanical loading in mesenchymal stem cells differentiation to chondrocyte cells. Amirkabir University of Technology and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Biomechanics(Hatami J). Supervisors: Dr. Tafazoli-Shadpour M, Dr. Shokrgozar M.A. and Advisors: Dr. Haghighipour N.

2007-2008(ended)

Mechanical loading in mesenchymal stem cells differentiation to myocardial cells. Amirkabir University of Technology and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Biomechanics(Ehsandar A). Supervisors: Dr. Tafazoli-Shadpour M, Dr. Shokrgozar M.A. and Advisors: Dr. Haghighipour N.

2007-2008(ended)

Design and fabrication of micro-nano collagen fiber scaffold and its application in nerve tissue regeneration. Amirkabir University of Technology and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Biomechanics(Timnak A). Supervisors: Dr. Emami, Dr. Shokrgozar M.A. and Advisors: Dr. Sayyah M., Dr. Bahrami S.H.

2007-2008(ended)

The different parameter evaluation on nano-size fluoride-substituted apatite powders produced by hydrothermal. Iran Science and Technology University and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Biomaterials(Montazeri L). Supervisors: Dr. Javadpour, Dr. Shokrgozar M.A. and Advisors: Dr. Rezaei H.R., Dr. Oroomieae A.

2007-2008(ended)

Preparation and characterization tissue engineering scaffolds based on bioglass and unsaturated polyester. Amirkabir University of Technology and Pasteur Institute of Iran-National Cell Bank of Iran. MSc student in Biomaterials(Rahimi N). Supervisors: Dr. Rabiei Mohammad and Dr. Shokrgozar M.A. and Advisors: Dr. Imani M, Sharifi S, Rabiei Mahmoud.

2007-2008(ended)

Evaluation of collagen type I cloning in *Pichia pastoris*. Islamic Azad University, Science and Research Branch. MSc student in Genetic(Ghavami M). Supervisors: Dr. Shokrgozar M.A. and Dr. Khanahmad H.

2007-2008 (ended)

Mechanical and biological evaluation of a calcium phosphate-bioactive glass composite. MSc student in Biomaterials(Safari M). Energy and Material Organization. Supervisors: Dr. Hesarakhi and Dr. M.A. Shokrgozar.

2007-2008 (ended)

In vitro evaluation of lipocalin-2, an antioxidant protein. MSc student in Genetic(Halabian R). Islamic Azad University, Research and Science Branch. Supervisors: Dr. M.A. Shokrgozar and Dr. M. Habibi(advisor).

2007-2008 (ended)

Isolation and characterization of human osteoblast cells and its biocompatibility evaluation on bone scaffolds. MSc student in Biomaterial(Farokhi M). Qazvin University of Medical Sciences, Medical College. Supervisors: Dr. Rajaee and Dr. M.A. Shokrgozar.

2007-2008 (ended)

Cloning and Lipocalin gene expression in Baculovirus. MSc student in Cell and Molecular Biology(Rouhbakhsh M). Khatam University. Supervisors: Dr. Habibi and Dr. M.A. Shokrgozar.

2007-2008 (ended)

Evaluation and comparison of biocompatibility in composites reinforced with nano and microparticles of hydroxyapatite. MSc student in Biomaterials(Siahkali Moradi J). Iran University of Science and Technology. Biomaterials College. Supervisors: Dr. Hosseinalipour and Dr. M.A. Shokrgozar

2006-2008 (ended)

Genetic evaluation of Helicobacter Pylori isolated from Iranian patients. MSc student in Microbiology. Karaj Islamic Azad University, Science Faculty, Microbiology Department. Supervisors: Dr. M. Mohammadi and Dr. M.A. Shokrgozar.

2006-2008 (ended)

Experimental study of mechanical parameters on stem cell behavior. MSc student in Biomechanic(Ghazanfari S). Amir Kabir University of Technology-Medical Engineering College. Supervisors: Dr. Tafazoli-Shadpour and Dr. M.A. Shokrgozar.

2006-2008 (ended)

Study of lipocalin-2 expression in beta- thalassemia patients. MSc student in Genetic(Ghasemipour Z). Tehran Islamic Azad University, Science Faculty, Research and Science Center. Supervisor: Dr. M.A. Shokrgozar and Dr. M. Habibi(advisor).

2006-2008 (ended)

The study of cytotoxic property of selected Iranian plant extracts. MSc student in Cell and Molecular Biology(Ghavami G). Khatam University. Supervisors: Dr. Sardari and Dr. M.A. Shokrgozar.

2006-2007 (ended)

Evaluation of Sylibinin isolated from Sylibum Markanum on KAI gene expression as a metastasis inhibitory gene, in prostatic cell line(PC3). MSc student in Cell and Molecular Biology(Mokhtari J). Tehran University. Supervisors: Dr. Motamed and Dr. M.A. Shokrgozar.

2006-2007 (ended)

Synthesis and Evaluation the Biocompatibility of Poly(caprolactone fumarate)/Methacrylic Acid/Hydroxyapatite Nanocomposite for Bone Regeneration. MSc student in Biomaterials(Shafian U). Iran University of Science and Technology. Biomaterials College. Supervisors: Dr. Khavandi and Dr. M.A. Shokrgozar.

2005-2007 (ended)

Cytotoxic effect of antiproliferative drugs eluted from polymethylmethacrylate on stromal cells in Giant Cell tumor of bone: an in vitro analysis. Medical student(MD)(Sadeghipour P), Tehran University of Medical Sciences, Medical College, Supervisors: Dr. Gooran Savadkoobi and Dr. M.A. Shokrgozar.

2005-2006 (ended)

Evaluation of Mycobacterium bovis BCG dispersing formulations for apoptosis induction in mouse and human macrophages. MSc student in Microbiology(Mostan S). Pasteur Institute of Iran. Supervisors: Dr. Abolhassani M. and Dr. M.A. Shokrgozar.

2005-2006 (ended)

Evaluation of proliferation inhibition effect of human calprotectin on human gastric cancer cell line (AGS) in vitro. MSc student in Cell and Molecular Biology(Zali H). Khatam University. Supervisors: Dr. Rezaei-Tavirani M. and Dr. M.A. Shokrgozar.

2005-2006 (ended)

Investigation and preparation of technical knowledge of artificial skin production. MSc student in chemistry(Pajoom Shariati SR). Sharif University of Technology, Petroleum College. Supervisors: Dr. Vosooghi M., Dr. Abdekhodae and Dr. M.A. Shokrgozar.

2003-2004 (ended)

Frequency analysis of HBsAg specific B-lymphocytes in healthy high responder adults to recombinant hepatitis B vaccine. MSc student in Immunology(Sam MR), Tehran University of Medical Sciences, School of Public Health. Supervisors: Dr. F. Shokri and Dr. M.A. Shokrgozar.

ADVISOR:

Ph.D(52 students)

2016-2018(it is processing)

Evaluation of epigenetic modification in chimeric blastocysts produced by injection of mice embryonic stem cells (mESCs) into the morula. Ph.D student in Anatomy(Salimi M), Shahid Beheshti University of Medical Sciences.

2016-2018(it is processing)

Constriction and evaluation of gelatin core shell electrospined containing proteoglycan-growth factor for using in skin tissue engineering. Ph.D student in nanotechnology(Zandi N), Nanotechnology Research Center, Sharif University.

2016-2018(it is processing)

Constriction and evaluation of graphen like electrode for using in DNA electrochemical biosensor. Ph.D student in nanotechnology(Ezhei F), Nanotechnology Research Center, Sharif University.

2016-2018(it is processing)

Designing and manufacturing a mesoporous Bioglass–Gelatin hybrid scaffold for cartilage tissue engineering. Ph.D student in Medical Engineering-Biomaterial(Badie M), Azad University- Science and Research Branch.

2015-2017(it is processing)

CRISPR/Cas9 mediated integration of GFP and Ds-Red in endothelial and into a three osteoblast cells to assess angiogenesis and osteogenesis dimensional network. Ph.D student in Medical Biotechnology(Shahabi F). Pasteur Institute of Iran.

2014-2016(it is processing)

Evaluation of niosomal-pegylated vincristine sulfate for treatment of lymphoma in animal model. Ph.D by research student(Mehrabi SMR). Pasteur Institute of Iran.

2014-2016(it is processing)

Folate-receptor targeted delivery of bleomycin sulfate to lung cancer using stealth nanoliposomes. Ph.D by research student(Chiani M). Pasteur Institute of Iran.

2012-2015(ended)

Evaluation of genomic PTEN Deletion, TMPRSS2:ERG fusion and PTEN gene, ERG gene expression in 50 frozen samples of prostate cancer patients. Ph.D student in Medical Genetic(Rafeie Fallah Abadi Z). Tehran University of Medical Sciences and Pasteur Institute of Iran.

2012-2014(ended)

Expression of collagene1 and elastin genes in mitral valvular interstitial cells within microfiber reinforced hydrogel. Ph.D student in genetic(Eslami M), Islamic Azad University, Science and Research Branch.

2012-2014(ended)

Construction, expression and evaluation of recombinant hybrid protein FimH.MrpH as a new vaccine candidate against urinary tract infection caused by uropathogenic Escherichia coli and Proteus mirabilis. Ph.D student in Medical Biotechnology(Habibi M). Pasteur Institute of Iran.

2012-2014(ended)

Genetical analysis in Iranian infectious Arbovirus. Ph.D by research student(Chinikar S). Pasteur Institute of Iran.

2012-2014(ended)

Drug cystein analogues designing of basic fibroblast growth factor) bFGF and it,s evaluation in pegylation. Ph.D student in Medical Biotechnology(Haddadian S). Pasteur Institute of Iran.

2012-2014(ended)

Multi-scale model development in cancer cell attachment stability. Ph.D student in Medical Engineering; Biomechanic(Omidvar R). Amirkabir University of Technology.

2012-2016(it is processing)

Pre-expression evaluation of tissue transglutaminase/mutation forms and it,s function in amyloide aggregation. Ph.D student in Immunology(Azari S). Golestan University of Medical Sciences.

2011-2014(ended)

The Evaluation of Theraputic Enhancement of Erythropoietin via Expressing two Glycosylated variants in Leishmania Tarentolea. Ph.D student in Medical Biotechnology(Kianmehr A). Pasteur Institute of Iran.

2011-2016(it is processing)

Study of regeneration competency of meniscus cartilage tissue with hydrogel scaffold in sheep model. Ph.D student in Tissue Engineering(Moradi L). Tehran University of Medical Sciences.

2011-2014(ended)

Biopolymer fabrication based on hyaluronic acid, chitosan and silica nanoparticles for diabetic damage regeneration. Ph.D in Polymer(Koosha M). Amirkabir University of Technology.

2011-2016(it is processing)

Evaluation and Comparison of the effect of the Bone marrow derived mesenchymal stem cell and autologous chondrocyte on polyvinyl alcohol-poly urethane scaffold in vitro and in vivo condition for Cartilage Tissue Engineering in sheep model. Ph.D in Veterinary(Taghizadeh-Jahed M). Tehran University- Veterinary College.

2010-2014(ended)

Codon development, cloning and Single-chain variable fragment (scFv) expression against CD22 marker in pechia pasteuris and its optimization. Ph.D in Pharmaceutical Biotechnology(Zarei N). Pasteur Institute of Iran.

2011-2013(ended)

Engineering of Structural Properties of PLGA Nanofibrous Scaffold for Neural Cell Culture. Ph.D student in Textile(Zamani F). Amirkabir University of Technology(Tehran Polytechnic)-Textile Engineering College.

2011-2013(ended)

The effect of synthesis parameters on the geometry and dimensions of mesoporous hydroxyapatite nanoparticles. Ph.D student in Biomaterials(Bakhtiari L). Iran Science and Technology University.

2010-2013(ended)

Mass Differentiation of Human Induced Pluripotent Stem Cells into Hepatocyte-like Cells in Stirrer Bioreactor and Functional Characterization of them in Liver Failure Model. Ph.D in Medical Biotechnology(Vosough M). Pasteur Institute of Iran.

2010-2013(ended)

Characterization of hydrothermal synthesized titanium nanoparticles for drug delivery and cancer therapy. Ph.D in Biomaterial Engineering(Naghbi S). Azad University-Science and Research Branch and Sharif University, Materials College and Pasteur Institute of Iran-National Cell Bank of Iran.

2010-2013(ended)

New form of rhBMP-7 expression consisted heparin binding site in CHO cell lines and evaluation of its biological activities. Ph.D in Pharmaceutical Biotechnology(Nematollahi L). Pasteur Institute of Iran.

2010-2013(ended)

Chimeric antibody expression anti-CD33 marker in CHO and evaluation of cysteamine effect on its expression. Ph.D in Pharmaceutical Biotechnology(Jahandar H). Pasteur Institute of Iran.

2009-2012(ended)

Micro-RNA profile identification in cell lines induced by IL-2 and activated with anti-CD2,CD3,CD28 microbeads.

Ph.D student in Molecular Genetic(Ranji N). Azad University- Science and Research Branch.

2008-2012(ended)

Constraction, cloning and new humanized monoclonal antibody to HER2/neu by antibody engineering methods. Ph.D student in Genetic(Akbari S). National Institute of Genetic and Biotechnology.

2009-2012(ended)

A1-GM-CSF fusion protein expression in baculovirus system for hematologic disorder biotherapy. Ph.D in Medical Biotechnology(Jahanian-Najafabadi A). Pasteur Institute of Iran.

2009-2012(ended)

3D structure identification of apc2,apc7,apc3 subunits in APC and designing the inhibitor compounds for evaluation of its effects on HELA and MDA-MB-435 cell lines. Ph.D in Medical Biotechnology(Rahimi H). Pasteur Institute of Iran.

2009-2012(ended)

MicroRNA profiling in IL-2 induced cells and activated cells by anti-CD2,CD3,CD28 microbeads. Ph.D in Medical Genetic(Boozarpour S). Islamic Azad University, Science and Research Branch.

2009-2012(ended)

Differentiation induction in SSEA-1 cells isolated from male mouse bone marrow to spermatogonial stem cells. Ph.D student in Anatomy(Shirazi R). Tehran University of Medical Sciences, Medicine College.

2008-2011 (ended)

Experimental Production of Human Rabies Vaccine by Vero cells using Microcarriers within Bioreactor. Ph.D student in Medical Biotechnology(Hasanzadeh SM). Pasteur Institute of Iran.

2008-2011(ended)

Evaluation of tyrosine kinase receptor new isoform and its molecular function in cell signaling. Ph.D student in Molecular Genetic(Frouzesh F). Azad University- Science and Research Branch.

2008-2011 (ended)

Cloning and expression of human tpA gene in mammalian cell after in silico analysis. Ph.D student in Medical Biotechnology(Davami F). Pasteur Institute of Iran.

2007-2010 (ended)

Studying production and level of coagulation factor IX cDNA expression using a chimeric liver-specific promoter in a human hepatoma cell line(HepG2). Ph.D student in Genetic(Sam MR). National Institute of Genetic and Biotechnology.

2007-2010 (ended)

Cloning and expression of Brucella immunodominant genes in E.Coli. Ph.D student in Genetic(Pouryasini). Tehran Islamic Azad University, Science Faculty, Research and Science Center.

2007-2010 (ended)

Preparation and evaluation antitumor drug-polymer model using liquid technology. Ph.D student in Pharmacology(Kalantarian P). Tehran University of Medical Sciences, School of Pharmacy.

2007-2010 (ended)

Evaluation of immunogenicity of divalent DNA vaccine encoding Brucella melitensis omp31 & p39 genes in BALB/c mice. Ph.D student in Genetic(Doosti A). Tehran Islamic Azad University, Science Faculty, Research and Science Center.

2007-2009 (ended)

Alterations in NR2B subunit of NMDA receptor expression in rat hippocampal neuronal culture after MDMA (Ecstasy) exposure. Ph.D student in Anatomy(Azami A). Tehran University of Medical Sciences, School of Medicine.

2006-2008 (ended)

Serotonin receptor expression evaluation in response to antitumor drugs and its study on apoptosis induction in cancer cell lines. Ph.D student in Pharmacology(Ataei R), Tehran University of Medical Sciences, School of Medicine.

2006-2008 (ended)

Function evaluation of Helicobacter Pylori toxins in different species isolated from Iranian gastric disease, gene and protein study. Ph.D student in Bacteriology(Doraghi M), Tehran University of Medical Sciences, School of Public Health.

2005-2008 (ended)

Designing, generation and evaluation of HCV DNA multi-epitopic construct using dominant epitope. Ph.D student in Medical Biotechnology(Memarnezhadian). Pasteur Institute of Iran.

2004-2006 (ended)

Rate of two cell embryo development, GSH Level and Spindle Area in Mouse Oocyte in MEME Medium in presence of Cysteamine. Ph.D student in Anatomy(Mohammadi-Roshandeh A). Tehran University of Medical Sciences, School of Medicine.

2004-2006(ended)

Shiga toxin-GM-CSF protein fusion production and its evaluation. Ph.D student in Medical Biotechnology(Habibi-Roudkenar M). Pasteur Institute of Iran.

2004-2006 (ended)

Evaluation of MCF-7 Cells Proliferation in Co-culture with Human Adipocytes and Preadipocyte in Three Dimensional Collagen Gel Matrix: Norepinephrine, Estrogen, Leptin as a Lipolytic Factors and Insulin as a Lipogenic Factor. Ph.D student in Anatomy(Kashani-Ragerdi I). Tehran University of Medical Sciences, School of Medicine.

2004-2006 (ended)

Expression and purification of r-HCV core Ag in native and truncated forms, production of mAb and characterization of the products. Ph.D student in Medical Biotechnology(Aghasadeghi MR). Pasteur Institute of Iran.

2004-2006 (ended)

A novel single step double positive double negative selection strategy for β -globin gene replacement. Ph.D student in Medical Biotechnology(Khanahmad-Shahreza H). Pasteur Institute of Iran.

2003-2005 (ended)

Isolation, characterization and in vitro cardiomyogenic potential of human umbilical vein-derived mesenchymal stem cells. Ph.D student in Medical Biotechnology(Kadivar M). Pasteur Institute of Iran.

2002-2004 (ended)

Evaluation of CD26 secretory marker in Leishmania disease. Ph.D student in Immunology(Jafari-Shakib R). Tehran University of Medical Sciences, School of Medicine.

2002-2004 (ended)

Evaluation of protective effect of recombinant dense granule antigens GRA2 and GRA6 formulated in monophosphoryl lipid A (MPL) adjuvant against Toxoplasma chronic infection in mice. Ph.D student in Medical Biotechnology(Golkar M). Pasteur Institute of Iran.

2002-2004 (ended)

Designing of DNA vaccine for HTLV1 and proviral load evaluation in animal model. Ph.D student in Medical Biotechnology(Azadmanesh K). Pasteur Institute of Iran.

2001-2003 (ended)

Evaluation of dendritic cells isolated from blood and mononuclear cells and potential evaluation of this cells in specific T-cell activation for Melanoma tumor markers. Ph.D student in Medical Biotechnology(Mahdian R). Pasteur Institute of Iran.

B-MSc(43 students):

2013-2014 (ended)

Cell-imprinted substrates act as an artificial niche for skin regeneration. MSc student in nanotechnology(Mashinchian O). Tehran University of Medical Sciences, New technologies College.

2011-2012 (ended)

Effect of shear stress on differentiation of mesenchymal stem cells to bone cells. MSc student in Biomechanic(Mahboudi N). Sahand University of Technology, Department of Mechanical Engineering.

2011-2012 (ended)

In vitro evaluation mechanical properties of cancer cells in growth process. MSc student in Biomechanic(Jebelli M). Amirkabir University of Technology.

2011-2012 (ended)

Fabrication and characterization of nanofiber scaffolds based on nanocarbon tubes and biopolymer. MSc student in Textile engineering(Moridi-Mahdieh Z). Gilan University, Engineering College.

2011-2012 (ended)

MRC-5, RK-13 and Vero contamination to Hela cell lines by STR technique. MSc student in Biochemistry(Ramezani B). Payame Noor University.

2011-2012 (ended)

Rate of biodegradability evaluation and biocompatibility assay in MgO/HA nanocomposite. MSc student in Biomaterials(Sifouri A). Iran Science and Technology University.

2011-2012 (ended)

The increased effect of spurt on stretch and biological properties in nanocomposite tricalcium phosphate-high density polyethylene. MSc student in Biomaterials(Manafian FS). Iran Science and Technology University.

2011-2012 (ended)

Association between HLA-B07 and HLA-Cw*0702 in Iranian Alzheimer disease population. MSc student in Genetic(Bakhtiari A). Islamic Azad University, Reaserch and Science Branch.

2011-2012 (ended)

Design and fabrication of new nanoscaffolds by electrospinning method for nerve tissue engineering. MSc student in Biomaterials(Valizadeh S). Amirkabir University of Technology.

2011-2012 (ended)

Mutation evaluation Q793 in VWF gene of von-wilbrand disease type 3 and its families by ARMS-PCR and Real-time PCR methods. MSc student in Cellular and Molecular Biology(Alavi S). Khatam University.

2011-2012 (ended)

Effects of cyclic shear stress and stretch on differentiation of mesenchymal stem cells into endothelial cells. MSc student in tissue engineering(Safaei N). Amirkabir University of Technology.

2011-2012 (ended)

Mesenchymal stem cell differentiation evaluation to chondrocyte using hydrostatic pressure and shear loadings. MSc student in tissue engineering(Hoseini MS). Amirkabir University of Technology.

2011-2012 (ended)

Electrospinning of tween coax nanofiber for tissue engineering. MSc student in textile engineering(Bagherzadeh A). Gilan University, Engineering College.

2011-2012 (ended)

Fabrication of bone titanium scaffold by using bubble blower technique. MSc student in Biomaterials(Naddaf-Dezfouli S). Sharif University of Technology.

2010-2011(ended)

Fabrication and mechanical properties and biocompatibility evaluation on PHB/HA nanocomposite scaffolds without organic solutions in bone tissue engineering. MSc student in Biomaterials(Nemati-Hayati A). Iran Science and Technology University.

2010-2011(ended)

PHB/nanobioglass synthesis and its mechanical and biocompatibility properties evaluation for bone tissue engineering. MSc student in Biomaterials(Hajiali H). Iran Science and Technology University.

2010-2011(ended)

Collagene type I gene cloning in Pichia pastoris. MSc student in genetic(Abdeemami B). Islamic Azad University, Research and Science Branch.

2010-2011(ended)

Anti-metastasis effect of silibinin on β 1-integrin signaling pathway and important genes in MDA-MB-231 breast cancer cell lines. MSc student in Cellular and Molecular Biology(Dastpeyman M), Tehran University, Science College.

2010-2011(ended)

Lactobacillus acidophilus and lactobacillus casei on candida albicans infection in breast tumor infected mice. MSc student in Cellular and Molecular Biology(Hajjari-Taheri F). Islamic Azad University, Research and Science Branch.

2010-2011(ended)

Evaluation of bone defect regeneration after treatment by osteoblasts and mesenchymal stem cell transplantation in male rabbits. MSc student in Anatomy(Hadigol). Qazvin Medical Sciences University.

2010-2011(ended)

Tendon tissue engineering by using nanofiber structure and stem cells. MSc student in Cellular and Molecular(Riazifar H). Khatam University.

2009-2010 (ended)

Osteoblast autologous transplantation evaluation on xenograft bone scaffold in rate of bone regeneration and comparison to standard hydroxyl apatite/tricalcium phosphate in Rabbit. MSc student in Anatomy(Bagher Z). Qazvin Medical Sciences Universities.

2009-2010 (ended)

Biocompatibility evaluation of membrane nanocomposite hybrid organic-mineral based on copolymer polyhydral oligomeric silicoicoxane and polycarbonate urea-urethane. MSc student in Biomaterials(Karami B). Iran Science and Technology University.

2009-2010 (ended)

Fabrication and biological evaluation of nanohydroxy apatite/cellulose composite scaffold. MSc student in Biomaterials(Zadegan-Eidani S). Iran Science and Technology University.

2009-2010 (ended)

GRA7 gene cloning from Toxoplasma gondii, expression, purification and its antigenicity evaluation. MSc student in genetic(Sadeghiani G). Islamic Azad University, Research and Science Branch.

2007-2008 (ended)

Fabrication and evaluation of BCP/COL/HCA, a nanocomposite scaffold property, using Freeze drying. MSc student in Biomaterials(Bakhtiari L). Iran University of Science and Technology. Biomaterials College.

2007-2008 (ended)

Study of chemotherapeutics effects on chromosomal instability of mouse-human hybridoma cell line in various expansion intervals. MSc student in Genetic(Jooyan N). Tehran Islamic Azad University, Science Faculty, Research and Science Center.

2007-2008 (ended)

Biocompatibility Evaluation of an Orthopedic Nanocomposite Biomaterial Based on HDPE/UHMWPE/ TCP. MSc student in biomaterials(Bagheri M). Iran University of Science and Technology. Biomaterials College.

2006-2007 (ended)

Gene structural evaluation and expression of glutathion-S-transferase in Pakistan Anophel Stefens. MSc student in Genetic(Bayat N). Tehran Islamic Azad University, Science Faculty, Research and Science Center.

2006-2007 (ended)

Investigation on immune response and induction of apoptosis by Shiga toxin and its subunits. MSc student in Cell and Molecular Biology(Ziari N). Khatam University.

2006-2007 (ended)

Fabrication and evaluation of polymer/seramic nanocomposite scaffolds in regulated rate. MSc student in Biomaterials(Aboudzadeh N). Iran University of Science and Technology. Biomaterials College.

2005-2006 (ended)

Pro-inflammatory cytokine IL-1 family, IL-6 & TNF α gene polymorphisms in Iranian patients with multiple sclerosis(MS). MSc student in Genetic(Sarial S). Tehran Islamic Azad University, Science Faculty, Research and Science Center.

2005-2006 (ended)

Evaluation of immunogenicity and protective efficacy of a recombinant GRA2 DNA vaccine against Toxoplasma gondii infection in C57BL/6 mice. MSc student in Genetic(Babaei). Tehran Islamic Azad University, Science Faculty, Research and Science Center.

2005-2006 (ended)

Study of chromosomal instability of mouse-human hybridoma cell line in various expansion intervals using special flourcence dye. MSc student in Genetic(Moghbelinezhad S). Tehran Islamic Azad University, Science Faculty, Research and Science Center.

2005-2006 (ended)

IL2 gene cloning and expression in eukarutic cells. MSc student in Genetic(Bouzarpour S). Tehran Islamic Azad University, Science Faculty, Research and Science Center.

2005-2006 (ended)

Human haematopoeitic stem cells transfection using beta globin gene constract and evaluation of homologous recombination in selected cells. MSc student in Genetic(Sheikhpour M). Tehran Islamic Azad University, Science Faculty, Research and Science Center.

2004-2006 (ended)

Gene structural evaluation of glutathion-S-transferase in 3 vector of World Malaria and application of it results in regulation of disease. MSc student in Genetic(Barjaste H). Tehran Islamic Azad University, Science Faculty, Research and Science Center.

2004-2006 (ended)

Evaluation mechanism of EBV virus on B-cell immortalization from telomerase gene. MSc student in Virology(Javedani). Razi Institute of vaccine research, Virology Department.

2004-2005 (ended)

A method for isolation and cultivation of adult schwann cells for nerve conduit. MSc student in Anatomy(Bayati V). Tehran University of Medical Sciences, School of Medicine.

2003-2004 (ended)

The effect of partially stabilized zirconia on the biological properties of HA/HDPE composites in vitro. MSc student in Biomaterials(Yari-Sadi A). Iran University of Science and Technology. Biomaterials College.

2003-2004 (ended)

In vitro evaluation of biocompatibility of beta-tricalcium phosphate-reinforced high-density polyethylene; an orthopedic composite. MSc student in Biomaterials(Homaeigohar S). Iran University of Science and Technology. Biomaterials College.

2002-2003 (ended)

Mycoplasma characterization in cell culture using methods of culture and PCR-ELISA. MSc student in Microbiology(Arabestani). Pasteur Institute of Iran.

Skills:

2002 – present

Production of artificial tissues using biocompatible and biodegradable scaffolds and normal or mesenchymal stem cells isolated from different tissues. Operation of biocompatibility and biodegradability tests. Production of basic materials related to tissue engineering(Collagen I & II, FBS, Bone powder). Collaboration in designing and fabrication of biomechanical systems for inducing the stem cell differentiation and operation of topographical stem cell differentiation.

1998– present

Operation of different methods in cell banking and cell quality control.

1996– present

Hybridoma production, recombinant monoclonal antibody production and phage display.

1995– present

Operation of EBV-immortalization techniques and frequency analysis of specific B-lymphocytes in peripheral blood of immunized individuals.

Awards:

Feb. 2016, 2017 and 2023 Member of Iranian health ministry scientific master club with H index over 15 and grant tacking.

June 2015 Member of Iranian scientific master club and grant tacking.

Jan. 2015 First prize for high ranking in H index, 6th Annual Research Symposium in Pasteur Institute of Iran, Tehran, Iran.

Jan. 2014, 2017, 2020 and 2023 First prize for research activities in 2013 between Professors in Pasteur Institute of Iran. 5th Annual Research Symposium in Pasteur Institute of Iran, Tehran, Iran.

Feb. 2013 First prize for high quality publication in 4th Annual Research Symposium in Pasteur Institute of Iran, Tehran, Iran.

Jan. 2011 First prize for research activities in 2010 between Associate Professors in Pasteur Institute of Iran. 3th Annual Research Symposium in Pasteur Institute of Iran, Tehran, Iran.

Mar. 2008 First prize for periodontal paper publication: Mohammadi M, Shokrgozar MA, Mofid R. Culture of Human Gingival Fibroblasts on a Biodegradable Scaffold and Evaluation of its Effect on Attached Gingiva: A Randomized Controlled Pilot Study. J. Periodontol. 2007; 78: 1897-1903, 7th Annual Dental Symposium-In the memory of Martyr Dr. Hedayat, Tehran, Iran.

Jan. 2008 First prize for high quality and quantity researches and publications in cell culture and tissue engineering, 2th Annual Research Symposium in Pasteur Institute of Iran, Tehran, Iran.

Mar. 2007 First prize for periodontal thesis: Evaluation of seeding of human gingival fibroblasts on a biodegradable scaffold for gingival augmentation : A pilot study. Specialist student in Periodontology. Shaheed Beheshti University of Medical Sciences, Dental School. Advisors: Dr. R. Mofid and Dr. M.A. Shokrgozar, 6th Annual Dental Symposium-In the memory of Martyr Dr. Hedayat, Tehran, Iran.

Jan. 2007 First prize for high quality and quantity publications in cell culture and tissue engineering, 1th Annual Research Symposium in Pasteur Institute of Iran, Tehran, Iran.

Nov. 2006 Thirth prize for construction of human living skin composed of 2 dermis and epidermis layers on a biocompatible and biodegradable scaffold(in vitro), Shokrgozar MA, Pajoom Shariati SR, Vosoughi M., BioTech Exchange Forum(BTEF), 8 Nov. 2006, Tehran, Iran.

Mar. 2005 First prize for periodontal paper publication: Khosravi M, Samadi Bahrami Z, Saheb Jam Atabaki M, Shokrgozar MA, Shokri F. Comparative effectiveness of hand and ultrasonic instrumentation in root surface planning in vitro. J. Clin. Periodontol. 2004; 31: 160-165, 4th Annual Dental Symposium-In the memory of Martyr Dr. Hedayat, Tehran, Iran.

Projects:

a) Director:

2015-2017 (it is processing)

Formulation of adjuvanted hepatitis B vaccine based on AlPO₄/MPL. Founded by technology council of Pasteur Institute of Iran.

2011-2014 (ended)

Preparation of cell collection identity cards in National Cell Bank of Iran and cell culture, quality control laboratories standardization. President Technology Deputy-Biotechnulgy Comitee and Pasteur Institute of Iran(IPI), National Cell Bank of Iran(NCBI).

2011-2014 (ended)

Toxic effects of anti-CD123 and anti-CD45Ra as specific leukemic blast cell surface markers in Acute Myeloid Leukemia(AML) and Acute Lymphoid Leukemia(ALL). Iranian National Science Foundation (INSF) and Pasteur Institute of Iran(IPI), National Cell Bank of Iran(NCBI).

2011-2014 (ended)

Evaluation and Comparison of the effect of the Bone marrow derived mesenchymal stem cell and autologous chondrocyte on polyvinyl alcohol-poly urethane scaffold in vitro and in vivo condition for Cartilage Tissue Engineering in sheep model. Tehran University, Veternary College and Pasteur Institute of Iran(IPI), National Cell Bank of Iran(NCBI).

2011-2014 (ended)

Establishment of animal embryonic stem cell bank in Iranian cell bank. President Technology Deputy-Stem Cell Comitee and Pasteur Institute of Iran(IPI), National Cell Bank of Iran(NCBI).

2011-2014 (ended)

Cloning, expression and purification of Recombinant Human Epidermal Growth Factor with Collagen binding ability for using in tissue engineering. Founded by Research council of Pasteur Institute of Iran.

2011-2014 (ended)

Evaluation of rabbit myocardial repair with transplantation of cardiomyocytes differentiated from mesenchymal and animal adipose-derived stem cells by mechanical loading. President Technology Deputy-Stem Cell Comitee and Pasteur Institute of Iran(IPI), National Cell Bank of Iran(NCBI).

2011-2013 (ended)

The generation of living skin containing biocompatible scaffold and stem cells and its evaluation in regeneration of experimental animal burned. President Technology Deputy-Stem Cell Comitee and Pasteur Institute of Iran(IPI), National Cell Bank of Iran(NCBI).

2008-2011 (ended)

CD20 antigen and preparation of monoclonal antibody against CD20(specific marker in Non-Hodgkin's lymphoma (NHL)). Food & Drug deputy, Health Ministry and Pasteur Institute of Iran(IPI), National Cell Bank of Iran(NCBI).

2008-2011 (ended)

Construction of human living skin composed of 2 dermis and epidermis layers on a biocompatible and biodegradable scaffold and its evaluation on Rats (animal study). The Stem Cell Research and Development Center, Pasteur Institute of Iran(IPI), National Cell Bank of Iran(NCBI).

2008-2009 (ended)

Evaluation of seeding of gingival fibroblasts on a biodegradable scaffold for gingival augmentation: A pilot study in animal model. Shaheed Beheshti University of Medical Sciences, Dental School and Pasteur Institute of Iran(IPI), National Cell Bank of Iran(NCBI).

2008-2010 (ended)

Synthesis, characterization and evaluation of in situ forming poly (ethylene glycol itaconate(PEGI)-co-chondroitin sulphate methacrylate) hydrogel containing chondrocytes for cartilage defect repairs(in vitro-phase I). Founded by Research council of Pasteur Institute of Iran.

2008-2010 (ended)

Studies on the effect of inorganic and organic arsenic compounds on polymerization of microtubule protein and cytotoxicity and apoptotic evaluation its on 6 cancer cell lines of highly frequent cancer in Iran. Founded by Research council of Pasteur Institute of Iran.

2007-2009 (ended)

Synthesis, characterization and biocompatibility evaluation of PCLF/NVP/nano-HA scaffolds applicable in bone regeneration. Founded by Research council of Pasteur Institute of Iran.

2007-2009 (ended)

Isolation, characterization and proliferation of human cartilage cells(chondrocytes) for clinical and tissue engineering use. Pasteur Institute of Iran(IPI), National Cell Bank of Iran(NCBI).

2007-2009 (ended)

Study of lipocalin2(Lcn2) antioxidant activity in vitro. Founded by Research council of Pasteur Institute of Iran.

2006-2008 (ended)

Design and manufacturing of a pilot system suitable for production of bilayered living skin including human fibroblasts and keratinocytes on a biodegradable and biocompatible scaffold. Founded by Research council of Pasteur Institute of Iran.

2006-2008 (ended)

Study of chromosomal instability of hybridoma cell line in various expansion intervals and the effect of chemotherapeutics on each complementation group. Founded by Research council of Pasteur Institute of Iran.

2006-2008 (ended)

Biomechanical analysis of arterial endothelial cells reflection to cyclic loading. Founded by Research council of Pasteur Institute of Iran.

2005-2007 (ended)

Determination of polymorphism of IL-1, IL-6, IL-10, IL-12, TNF α and TGF β in Iranian patients with multiple sclerosis(MS). Founded by Research council of Pasteur Institute of Iran.

2004-2006 (ended)

Cytotoxic effect of antitumor drugs eluted from polymethylmethacrylate on stromal cell in Giant Cell tumor of bone: an in vitro analysis. Founded by Research council of Pasteur Institute of Iran.

2005-2006 (ended)

Evaluation of seeding of human gingival fibroblasts on a biodegradable scaffold for gingival augmentation: A pilot study. Shaheed Beheshti University of Medical Sciences, Dental School and Pasteur Institute of Iran(IPI), National Cell Bank of Iran(NCBI).

2003-2006 (ended)

The study of cytotoxic property of *Chenopodium botrys* and *Elaeagnus angustifolia* extracts. Founded by Research council of Pasteur Institute of Iran.

b) Collaborator:

2016-2017 (it is processing)

Preparation and evaluation of solid lipid nanoparticles loaded by rHBsAg as a novel adjuvant and vaccine delivery system. Founded by Research council of Pasteur Institute of Iran.

2011-2014 (ended)

Design and manufacture of bioreactor of human blood pressure wave in order to differentiate mesenchymal stem cells to arterial endothelial cells. President Technology Deputy-Biotechnology Committee and Pasteur Institute of Iran(IPI), National Cell Bank of Iran(NCBI).

2011-2013 (ended)

Hydrostatic pressure evaluation on mesenchymal stem cells differentiation to chondrocytes and cartilage regeneration in rabbits. President Technology Deputy-Biotechnology Committee and Pasteur Institute of Iran(IPI), National Cell Bank of Iran(NCBI).

2008-2011 (ended)

Design & synthesis of dendrimeric nanoparticles based on polyhedral oligomeric silsesquioxane-Hydroxyethyl methacrylate with application as biocompatible coating of medical devices visible in magnetic resonance imaging. The Ministry of Health & Medical Education.

2008-2010 (ended)

Isolation and characterization of fetal bovine epithelial and endothelial cell lines. Founded by Research council of Pasteur Institute of Iran.

2008-2010 (ended)

Comparison of new methods of mycoplasma decontamination in human and animal cell lines deposited in National Cell Bank of Iran. Founded by Research council of Pasteur Institute of Iran.

2007-2011 (ended)

Vaccination of patients with metastatic breast cancer using autologous tumor-lysate pulsed dendritic cells in a phase I/II clinical trial. Oroomeea University, Oroomeea and Millad Hospital.

2008-2010 (ended)

In vitro fabrication of biocompatible and biodegradable nanocomposite scaffold from Collagen/nHA /PLGA for bone tissue engineering. The Ministry of Health & Medical Education, Food and Drug Organization and Pasteur Institute of Iran(IPI), National Cell Bank of Iran(NCBI).

2008-2010 (ended)

Fabrication of doxorubicin bound to surfactant-coated poly (butyl cyanoacrylate) nanoparticles in brain tumor therapy. The Ministry of Health & Medical Education, Food and Drug Organization and Pasteur Institute of Iran(IPI), National Cell Bank of Iran(NCBI).

2006-2010 (ended)

Function evaluation of Helicobacter Pylori toxins in different species isolated from Iranian gastric disease, gene and protein study. World Health Organization(WHO) and Pasteur Institute of Iran(IPI), National Cell Bank of Iran(NCBI).

2007-2009 (ended)

Analysis of drug resistance gene polymorphism in Iran epilepsy patients. Founded by Research council of Pasteur Institute of Iran.

2007-2008 (ended)

Species identification of animal cell lines deposited at NCBI, S by NP and G6PD isoenzyme, s profiling. Founded by Research council of Pasteur Institute of Iran.

2006-2008 (ended)

Short tandem repeat (STR) evaluation in COVID disease and comparison with normal population. Emam Khomeini Hospital, Immunology Research Center and Pasteur Institute of Iran (IPI), National Cell Bank of Iran (NCBI).

2005-2007 (ended)

Cytotoxicity effect evaluation of released ions from implant materials grafted in human gingival on human gingival fibroblast cells. Tehran University of Medical Sciences, Dental School, Dental Research Center and Pasteur Institute of Iran (IPI), National Cell Bank of Iran (NCBI).

2005-2006 (ended)

Evaluation of effect of Hepatocyte Growth Factor (HGF/SF) on the level of Survivin & XIAP expression in a Burkitt's lymphoma cell line, after treating with DNA damaging agent. Esfahan University of Medical Sciences, Medical School and Pasteur Institute of Iran (IPI), National Cell Bank of Iran (NCBI).

2004-2006 (ended)

Evaluation mechanism of EBV virus on B-cell immortalization from telomerase gene. Razi Institute of vaccine research, Virology Department and Pasteur Institute of Iran (IPI), National Cell Bank of Iran (NCBI).

2004-2006 (ended)

Rate of two cell embryo development, GSH Level and Spindle Area in Mouse Oocyte in MEME Medium in presence of Cysteamine. Tehran University of Medical Sciences, School of Medicine and Pasteur Institute of Iran (IPI), National Cell Bank of Iran (NCBI).

2004-2006 (ended)

Evaluation of MCF-7 Cells Proliferation in Co-culture with Human Adipocytes and Preadipocyte in Three Dimensional Collagen Gel Matrix: Norepinephrine, Estrogen, Leptin as a Lipolytic Factors and Insulin as a Lipogenic Factor. Tehran University of Medical Sciences, School of Medicine and Pasteur Institute of Iran (IPI), National Cell Bank of Iran (NCBI).

2002-2005 (ended)

Establishment of a collection of immortal cell lines from Iranian patients with genetical disorders. The Ministry of Health & Medical Education, Iran Medical Biotechnology Network and Pasteur Institute of Iran (IPI), National Cell Bank of Iran (NCBI).

2002-2005 (ended)

Preparation and deposition of hybridoma cells necessary for research centers. The Ministry of Health & Medical Education, Iran Molecular Medicine Network and Pasteur Institute of Iran(IPI), National Cell Bank of Iran(NCBI).

2002-2004 (ended)

In vitro Analysis of T Cell Responses Induced by Dendritic Cells Pulsed with Breast Tumor Antigens. National Research Center for Medical Sciences of I.R. IRAN(NRCMS) and Immunology Department, School of Medical Sciences, Tarbiat Modarres University and Pasteur Institute of Iran(IPI), National Cell Bank of Iran(NCBI).

2002-2004 (ended)

Determination of cytokine production profile in healthy adult responders and non-responders to recombinant hepatitis B vaccine. responders responders. Tehran University of Medical Sciences, School of Public Health and Pasteur Institute of Iran(IPI), National Cell Bank of Iran(NCBI).

2002-2004 (ended)

Blackwell Publishing, Ltd.

Production of B lymphocytes of monoclonal antibody producer, specific for Rh antigens and its characterization. The Ministry of Health & Medical Education, Food and Drug Organization and Pasteur Institute of Iran(IPI), National Cell Bank of Iran(NCBI).

2002-2004 (ended)

Generation of immortalized cell collection with Epstein-Barr virus(EBV) and its HLA typing (Phase2: molecular HLA-typing, PCR-SSP). Founded by Research council of Pasteur Institute of Iran.

1998-2000 (ended)

Generation of immortalized cell collection with Epstein-Barr virus(EBV) and its HLA typing (Phase 1: microlymphocytotoxicity test). Founded by Research council of Pasteur Institute of Iran.

1997-2000 (ended)

Development of National Cell Bank of Iran(NCBI). IRI Iran President Organization, Program and Budget Committee and Pasteur Institute of Iran(IPI).

Production:

Bovine serum & fetal bovine serum.

Bovine collagen type I & Fish collagen type II.

Biomechanic biosystems for stem cell differentiation evaluation(8 biosystems).

Design & fabrication of biocompatible scaffolds and evaluation in vitro & vivo.

Invention & Patents:**a) International:**

1-Super-Biocompatible Fluorescence Superparamagnetic Iron Oxide Nanoparticles: A Nanoprobe with Comprehensive Bio-Capability. Inventors: Mahmudi M & Shokrgozar MA. US Patent, 2012.

2-Silver-Coated Engineered Magnetic Nanoparticles are Promising for the Success in the Fight against Antibacterial Resistance Threat. Inventors: Mahmudi M & Shokrgozar MA. US Patent, 2012.

3-Multifunctional jagged gold coated magnetic nanoparticles with polymeric gap as powerful nanoprobe for profound impact on molecular diagnosis, imaging and therapeutic applications. Inventors: Mahmudi M & Shokrgozar MA. US Patent, 2011.

b) National:

2014-2015 Fabrication of small fluorescent microscope for application in CO2 incubator. (patent in Iran; no. 86977, date: Sept. 2014).

2014-2015 Fabrication of alginate sulfate nanofiber for controlled releasing of tissue engineering growth factors. (patent in Iran; no. 86311, date: July 2014).

2013-2014 Regenerative covering containing of terbinafin. (patent in Iran; no. 84967, date: Feb. 2014).

2011-2012 Cyclic strain-shear stress system fabrication and its evaluation on cultured cells. (patent in Iran; no. 74936, date: May 2012).

2010-2011 Titanium bone scaffold fabrication by NaCl. (patent in Iran; no. 70952, date: July 2011).

2010-2011 Cyclic hydrostatic pressure loading system on cultured cells. (patent in Iran; no. 69006, date: Feb. 2010).

2007-2008 Stable cell line generation for lipocalin2(anti-oxidative stress) production. (patent in Iran; July 2008).

2007-2008 Cyclic equiaxial system evaluation on cultured cells. (patent in Iran; no., date: Jan. 2008).

2006-2007 Production of bovin collagene type I for tissue engineering use (patent in Iran; no. 45428, date: Jan. 2007).

2006-2007 Cement cylender releasing antiblastic drugs for treatment of Giant Cell tumor of bone: an in vitro analysis (patent in Iran; no. 44684, date: Dec. 2007).

2006-2007 Cyclic axial system for soft tissue and evaluation of cell culure in this system (patent in Iran; no. 44469, date: Dec. 2007).

2006-2007 Fabrication of poly-lactid glicolid nanohydroxy apatite nanocomposite scaffolds for bone regeneration (patent in Iran; no. 42904, date: Sep. 2007).

2006-2007 Construction of human living skin composed of 2 dermis and epidermis layers on a biocompatible and biodegradable scaffold(in vitro) (patent in Iran; no.36386, date: Sep. 2007).

Teaching:

2018-present Biocompatibility(MSc & PhD)(100% of totall), Sharif University, Faculty of Material Science and Engineering.

2014-present Stem cell technology and medical applications (PhD)(20% of totall). Pasteur Institute of Iran.

2014-present Nanobiotechnology(PhD) (20% of totall). Pasteur Institute of Iran.

2008-present Biocompatibility(MSc & PhD)(30% of totall). Pasteur Institute of Iran.

2006-present Tissue engineering(MSc & PhD)(50% of totall). Pasteur Institute of Iran.

2002-present Cell culture(MSc & PhD)(50% of totall). Pasteur Institute of Iran.

2010-2016 Cell culture(MSc)(100% of totall). Amirkabir University of Technology and University of Science and Technology

2006-present Mollecular cell biology(PhD)(a section of totall). Pasteur Institute of Iran.

2005-2006 Immunochemistry(MSc)(4 section of totall). Pasteur Institute of Iran.

2005-present Immunology(Biotechnology-BS)(50% of totall). Pasteur Institute of Iran.

2004-present Cellular & Mollecular Immunology(MSc & PhD) (complete teaching). Pasteur Institute of Iran.

2004-present Vaccine production(PhD) (2 section of totall). Pasteur Institute of Iran.

2003-present Advance Immunology(PhD)(2 section of totall). Pasteur Institute of Iran.

2000-present Immunogenetic(MSc) (complete teaching). Pasteur Institute of Iran.

Operation of Workshop:

Oct.. 2015-2024 Biocompatibility and tissue engineering workshop- National Cell Bank of Iran(NCBI), Pasteur Institute of Iran, Tehran.

June 2014-2024 Cell and stem cell culture workshop- Pasteur Institute of Iran, Tehran.

Sept. 2013 Cell and stem cell culture workshop- Pasteur Institute of Iran, Amol Branch.

Oct. 2012 Cell and stem cell culture workshop- Babolsar medical science student congress.

Oct.. 2011 Cell and stem cell culture workshop- National Cell Bank of Iran(NCBI), Pasteur Institute of Iran.

Jan. 2010 Cell and stem cell culture workshop- National Cell Bank of Iran(NCBI), Pasteur Institute of Iran.

NOV. 2009 Cell and stem cell culture workshop- Gilan Technological Park, Gillan University.

Jun. 2008 Cell and stem cell culture workshop- Medical College, Iran University of Medical Sciences.

Sep. 2007 Cell culture workshop- Medical College, Qazvin University of Medical Sciences.

Jul. 2006 Second cell culture workshop- Veterenary College, Oroomia University.

Oct. 2005 First cell culture workshop- Veterenary College, Oroomia University.

2000-present Cell culture training and consuling in National Cell Bank of Iran(NCBI), Pasteur Institute of Iran.

Service:

Managing and collaborating in distribution of cell lines upon request, special services in biocompatibility evaluation and consultation in cell culture techniques.

Lectures:

11-Tissue engineering and hydrogels. Biomaterials Society of Iran 2023.

10- New trends in tissue engineering. Tehran University 2019.

9- New trends in regenerative medicine. Tehran University 2018.

8- Stem cell differentiation, different scientific factors and application in tissue engineering. 2th tissue engineering congress. Iran University of Medical Sciences, Nov. 2015.

7- National Cell Bank of Iran and impact on tissue engineering, Genetic Engineering Research Center, Feb. 2014.

6- Cell culture and impact on biotechnology development in Iran, Tehran University, June 2013.

5- National Cell Bank of Iran and impact on biotechnology development in Iran, Rooyan Institute, Feb. 2012.

4- Stem cells and bioreactors. Stem cell pregress, Rooyan Institute, Sept. 2011.

3- Stem cells, tissue engineering and nanobiotechnology. Stem cell pregress, Rooyan Institute, Sept. 2010.

2- Introduce the tissue engineering in National Cell Bank of Iran(NCBI). Tofigh Daru Company, April 2008.

1- Biomaterial symposium, Iran University of Science and Technology, Biomaterials College, Nov. 2006.

0- Tissue engineering symposium, Emam Khomeini Hospital, Tehran, Jul. 2006.

Language:

Persian(mother tongue) and English.

Professional interests:

- 1- Production of artificial tissue engineering using biocompatible and biodegradable scaffolds and isolated cell from different tissues.
- 2- Isolation and characterization of mesenchymal stem cells isolated from different tissues for using in tissue engineering.
- 3- Production and quality control of basic biomaterials from different tissues (Collagen, FBS, hyaluronic acid).
- 4- Design and fabrication of some bio-systems for using in tissue engineering.
- 5- Operation of different chemical, mechanical and topographical methods in differentiation of stem cells.
- 6- Operation of different methods in evaluation of artificial tissues.
- 7- Operation of biocompatible and biodegradable tests.
- 8- Operation of molecular and non-molecular methods in cell apoptosis diagnosis.
- 9- Operation of different immunochemistry techniques and frequency analysis of specific B-lymphocytes in peripheral blood of immunized individuals.

Publications:

- 449- Ansari FJ, Tafti HA, Amanzadeh A, Rabbani S, **Shokrgozar MA**, Heidari R, Behrooz J, Eyni H, Uversky VN, Ghanbari H. [Comparison of the efficiency of ultrafiltration, precipitation, and ultracentrifugation methods for exosome isolation.](#) Biochem Biophys Rep. 2024 Feb 21;38:101668. doi: 10.1016/j.bbrep.2024.101668. eCollection 2024 Jul. PMID: 38405663 **Free PMC article. (IF=2.70) (Pubmed/ISI)**
- 448- Beig Parikhani A, Dehghan R, Talebkhan Y, Bayat E, Biglari A, **Shokrgozar MA**, Ahangari Cohan R, Mirabzadeh E, Ajdary S, Behdani M. [A novel nanobody-based immunocytokine of a mutant interleukin-2 as a potential cancer therapeutic.](#) AMB Express. 2024 Feb 9;14(1):19. doi: 10.1186/s13568-023-01648-2. PMID: 38337114 **Free PMC article. (IF=4.12) (Pubmed/ISI)**
- 447- Mostofi M, Mostofi F, Hosseini S, Alipour A, Nourany M, Hamidian R, Vahidi S, Farokhi M, **Shokrgozar MA**, Homaeigohar S, Wang PY, Shahsavarani H. [Efficient three-dimensional \(3D\) human bone differentiation on quercetin-functionalized isotropic nano-architecture chitinous patterns of cockroach wings.](#) Int J Biol Macromol. 2024 Feb;258(Pt 2):129155. doi: 10.1016/j.ijbiomac.2023.129155. Epub 2024 Jan 1. PMID: 38171440. **(IF=8.20) (Pubmed/ISI)**
- 446- Kiani M, Moraffah F, Khonsari F, Kharazian B, Dinarvand R, **Shokrgozar MA**, Atyabi F. [Co-delivery of simvastatin and microRNA-21 through liposome could accelerates the wound healing process.](#) Biomater

- Adv. 2023 Nov;154:213658. doi: 10.1016/j.bioadv.2023.213658. Epub 2023 Oct 11.PMID: 37866233. (IF= 7.90)(Pubmed/ISI)
- 445- Kelishadi M, Shahsavarani H, Tabarraei A, **Shokrgozar MA**, Teimoori-Toolabi L, Azadmanesh K. [The chicken chorioallantoic membrane model for isolation of CRISPR/cas9-based HSV-1 mutant expressing tumor suppressor p53](#). PLoS One. 2023 Oct 20;18(10):e0286231. doi: 10.1371/journal.pone.0286231. eCollection 2023.PMID: 37862369 **Free PMC article**. (IF=3.70)(Pubmed/ISI)
- 444- Kamankesh M, Yadegar A, Llopis-Lorente A, Liu C, Haririan I, Aghdaei HA, **Shokrgozar MA**, Zali MR, Miri AH, Rad-Malekshahi M, Hamblin MR, Wacker MG. [Future Nanotechnology-Based Strategies for Improved Management of Helicobacter pylori Infection](#). Small. 2024 Jan;20(3):e2302532. doi: 10.1002/sml.202302532. Epub 2023 Sep 11.PMID: 37697021 Review. (IF=13.30)(Pubmed/ISI)
- 443- Kermanian M, Nadri S, Mohammadi P, Iravani S, Ahmadi N, Alinezhad V, **Shokrgozar MA**, Haddad M, Mostafavi E, Maleki A. [Zeolitic imidazolate frameworks: From bactericidal properties to tissue regeneration](#). J Control Release. 2023 Jul;359:326-346. doi: 10.1016/j.jconrel.2023.06.002. Epub 2023 Jun 14.PMID: 37290724 Review. (IF=10.80)(Pubmed/ISI)
- 442- Jafari M, Maali A, **Shokrgozar MA**, Sharifzadeh Z. [Editorial: Nanobody-based cancer immunotherapy and immunoimaging](#). Front Immunol. 2023 May 16;14:1213386. doi: 10.3389/fimmu.2023.1213386. eCollection 2023.PMID: 37261357 **Free PMC article**. No abstract available. (IF=)(Pubmed/ISI)
- 441- Rahimi A, Karimipoor M, Mahdian R, Alipour A, Hosseini S, Mohammadi M, Kaghazian H, Abbasi A, Shahsavarani H, **Shokrgozar MA***. [Efficient CRISPR/Cas9-Mediated BAX Gene Ablation in CHO Cells To Impair Apoptosis and Enhance Recombinant Protein Production](#). Iran J Biotechnol. 2023 Apr 1;21(2):e3388. doi: 10.30498/ijb.2023.343428.3388. eCollection 2023 Apr.PMID: 37228627 **Free PMC article**. (IF=)(Pubmed/ISI)
- 440- Omid H, Abdollahi S, Bonakdar S, Haghighipour N, **Shokrgozar MA***, Mohammadi J. [Biomimetic vascular tissue engineering by decellularized scaffold and concurrent cyclic tensile and shear stresses](#). J Mater Sci Mater Med. 2023 Mar 14;34(3):12. doi: 10.1007/s10856-023-06716-4.PMID: 36917304 **Free PMC article**. (IF=)(Pubmed/ISI)
- 439- Rahimi A, Karimipoor M, Mahdian R, Alipour A, Hosseini S, Kaghazian H, Abbasi A, Shahsavarani H, **Shokrgozar MA***. [Targeting Caspase-3 Gene in rCHO Cell Line by CRISPR/Cas9 Editing Tool and Its Effect on Protein Production in Manipulated Cell Line](#). Iran J Pharm Res. 2023 Jan 13;21(1):e130236. doi: 10.5812/ijpr-130236. eCollection 2022 Dec.PMID: 36915405 **Free PMC article**. (IF=)(Pubmed/ISI)
- 438- Lotfi Z, Khakbiz M, Davari N, Bonakdar S, Mohammadi J, **Shokrgozar MA**, Derhambakhsh S. [Fabrication and multiscale modeling of polycaprolactone/amniotic membrane electrospun nanofiber scaffolds for wound healing](#). Artif Organs. 2023 Aug;47(8):1267-1284. doi: 10.1111/aor.14518. Epub 2023 Mar 31.PMID: 36869662. (IF=)(Pubmed/ISI)

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