

**CURRICULUM VITAE
SAEED KARBASI**

CONTACT INFORMATION

Biomaterials Nanotechnology and
Tissue engineering Group, Department
of Advanced Medical Technology,
Isfahan University of Medical Sciences,
Esfahan, Iran

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CURRENT STATUS

Associate Professor of Biomedical Engineering, Biomaterials, Nanotechnology and
Tissue Engineering Group, Department of Advanced Medical Technolog, Isfahan
University of Medical Sciences

EDUCATIONAL BACKGROUND

- 2001 - 2005 **PhD in Biomedical Engineering: Biomaterials and Tissue
Engineering**
Amirkabir University of Technology, Tehran, Iran
- 2004 - 2004 **PhD Fellowship in Tissue Engineering: Cartilage Tissue
Engineering**
Oxford University, Oxford, UK
- 1998 - 2001 **MSc in Biomedical Engineering: Biomaterial**
Amirkabir University of Technology, Tehran, Iran
- 1994 - 1998 **BSc in Material Engineering: Metal Forming**
Shiraz University, Shiraz, Iran

COURSES TAUGHT

**TISSUE ENGINEERING, COMPOSITE BIOMATERIALS, POLYMERIC BIOMATERIALS,
SEMINAR, MODELING IN PHYSIOLOGICAL SYSTEMS, SCAFFOLDING IN TISSUE
ENGINEERING, ARTIFICIAL MATERIALS PROPERTY, METAL MATERIALS PROPERTY,
SOLID MECHANICS, ADVANCED MATERIALS, MATERIALS SELECTION, DRAWING,
MECHANICAL PROPERTIES OF MATERIALS,**

RESEARCH INTERESTS

Tissue Engineering

Design and Fabrication of Biodegradable Scaffolds, Stem Cells, Environmental
Factors, Regenerating of Different Tissues, Bioreactor Design

Biodegradable Materials

Injectable Biodegradable scaffolds, Biodegradable Hydrogels, Biopolymers, Biodegradable Photo-polymerizable Polymers, Biodegradable Biocomposites

Biomaterials

Biocomposites, Bioceramics, Biocompatibility, Hemocompatibility, Sterilization Methods, Dental Materials, Surgical Alloys, porous metals, Surface Treatment of Biomaterials, Orthosis and Prosthesis

Material Science

Advanced materials, Composites, Shape Memory alloys, Selection of Materials

PROFESSIONAL EXPERIENCES

- Head of biomaterials group
- The best researcher in Isfahan
- The best researcher in Isfahan university of medical sciences
- Head of ICBME2010
- etc

RESEARCH PROJECTS

- 2009 -2012 **Design and Fabrication of Porous Composite Scaffolds Based on Polyhydroxybutirte/Nanoscale Hydroxyapatite and Polyhydroxybutirate\Nanoscale Bioactive Glass to Use in Bone Tissue Engineering**
Members: Karbasi Saeed, Abedi Daryoush, et al.
Authority: Isfahan University of Medical Science
- 2008 - **Evaluation of Differentiated Stem Cells to Chondrocytes Behavior on Porous Polyhydroxybutirate Scaffold in Order to Use in Tissue Engineering**
Members: Dr Saeed Karbasi et al.
Authority: Isfahan university of medical science
- 2007 - 2009 **Design and Fabricition of Wavy Mattress to Prevention Bed Sore**
Members: Karbasi S., Jafarpishe M., Chahardoli S., Esfandiari E., Abedi H.A.
Authority: Esfahan University of Medical Science
- 2007 - 2007 **A Comparison between Cell Metabolism on Biodegradable Polyurethane and Alginate Beads under Hydrostatic Pressure**
Members: Karbasi S.
Authority: Esfahan University of Medical Science

- 2005 - 2006 **Effect of Oxygen Tension, pH and Osmolarity on Chondrocytes Metabolism by Alginate Beads for Cartilage Tissue Engineering**
Members: Karbasi S.
Authority: Esfahan University of Medical Science
- 2003 - 2006 **Investigation of Biocompatibility and Biodegradation of Clinical Polyurethanes as Artificial Cartilage**
Members: Karbasi S., Alavi A.
Authority: Esfahan University of Medical Science
- 2004 - 2005 **Fabrication of Patient Protection Devices**
Members: Asmanrafat N., Karbasi S.
Authority: Esfahan University of Medical Science
- 2003 - 2005 **Patient Horizontal Lifting**
Members: Zafarghandi R. , Abedi H., Asemanrafat N. ,Karbasi S.
Authority: Esfahan University of Medical Science
- 2002 - 2002 **Design and Fabrication of a Patient Lift**
Members: Abedi A. , Abedi H., Asemanrafat N., Zarkeshan R. ,
 Karbasi S.
Authority: Esfahan University of Medical Science

Etc.

SELECTED PUBLICATIONS

A) CONFERENCES

Modeling and optimization of laminated cotton silk scaffolds using neural networks and genetic algorithms for tissue engineering of tendons and ligaments

Conference: Ninth National Conference of Textile. 2014; (Poster)

Authors: E. Naghashzargar, M. Ghiasi, D. Semnani, S. Karbasi

Design and manufacturing of silk/PCL nanofiber scaffolds for tissue engineering applications

Conference: Ninth National Conference of Textile. 2014; (Poster)

Authors: E. Naghashzargar, D. Semnani, S. Karbasi

Evaluation of poly (3-hydroxybutyrate)/nano-bioactive glass composite scaffolds fabricated by electrospinning for bone tissue engineering

Conference: Proceedings of 5th International Congress on Nanoscience & Nanotechnology (ICNN2014). 2014; (Poster)

Authors: R. Iron, M. Mehdikhani-Nahrkhalaji, S. Karbasi

Physical and mechanical properties of a poly-3-hydroxybutyrate coated nanocrystalline Bioglass 45S5 scaffold for bone tissue engineering

Conference: Proceedings of the 5th International Conference on Nanostructures (ICNS5). 2014; (Poster)

Authors: M.Montazeria, S.Karbasi

Evaluation of the effect of PHB on mechanical and physical properties of nanobioglass scaffold for bone tissue engineering

Conference: Nanosym93. 2014; (Oral)

Authors: M.Montazeria, S.Karbasi, A. Monshi, R. Ebrahimi

Fabrication of PCL Nano-Coated Scaffolds in Tissue Engineering

Conference: 5th International Color and Coatings Congress (ICCC 2013). 2013; (Oral)

Authors: E.Naghashzargar, D.Semnani, S.Karbasi

Development of Poly (3-hydroxybutyrate) Nano fibers- Coated structure by Using Electrospinning for Tissue Engineered Scaffolds

Conference: 5th International Conference on Nanostructures (ICNS5). 2014; (Oral)

Authors: E.Naghashzargar, D.Semnani, S.Karbasi

Development of Poly (3-hydroxybutyrate) Nano fibers- Coated structure by Using Electrospinning for Tissue Engineered Scaffolds

Conference: 5th International Conference on Nanostructures (ICNS5). 2014; (Oral)

Authors: E.Naghashzargar, D.Semnani, S.Karbasi

A comparative study on mechanical and adhesion properties of calcinated and non calcinated nanobioglass-titania nano composite coating on stainless steels substrates

Conference: The Third Conference on Nanostructures. 2010; (Poster)

Authors: M.S. Dadash, M. Nasr Esfahani, R. Ebrahimi, S. Karbasi, H. Vali

Bioactivity evaluation of a nanocomposite scaffold for bone tissue engineering

Conference: 17th Iranian conference on Biomedical Engineering. 2010; (Speech)

Authors: H. Hajiali, S. Karbasi, M. Hoseynalipour, H.R. Rezaei

Biocompatibility evaluation of bioglass nanoparticles to chondrocyte cells by isothermal microcalorimetry

Conference: 17th Iranian Conference on Biomedical Engineering. 2010; (Speech)

Authors: A. Doostmohammadi, A. Monshi, M.H. Fathi, S. Karbasi, R. Salehi, O. Braissant, A.U. Daniels

Effect of Porosity on Structure of PHB-HA Nanocomposite Scaffold Prepared by Solvent Casting and Particulate Leaching Method

Conference: 5th SBE International Conference on Bioengineering and Nanotechnology. 2010; (Poster)

Authors: A. Saadat, A. Behnamghader, S. Karbasi, M. Radmehr and M. Sadeghi

Evaluation of morphology and biodegradation of P3HB/HA nanocomposite scaffold for tissue engineering applications

Conference: 17th Iranian Conference on Biomedical Engineering. 2010; (Speech)
Authors: M.Radmehr, S. Karbasi, M. Sadeghi, S. Nourikhorasani, A. Saadat

Fabrication and Morphological Characterization of Poly (3-hydroxy butyrate)/Nano Hydroxyapatite Nanocomposite Scaffold Used in Bone Tissue Engineering

Conference: 6th world congress of biomechanics. 2010; (Speech)
Authors: M. Radmehr, M. Sadeghi, S. Karbasi, S. Nouri Khorasani, A. Saadat, A. Behnamghader

Fabrication of PHB/HA nanofiber for cartilage repair

Conference: 8th conference on nanotechnology. 2010; (Speech)
Authors: A. Heidarkhan-Tehrani, A. Zadhoosh, S. Karbasi

In Vitro Evaluation of a Nanocomposite Scaffold for Bone Tissue Engineering

Conference: Nanobio. 2010; (Poster)
Authors: Hadi Hajiali, Mohammad Hosseinalipour, Saeed Karbasi, Hamid Reza Rezaie

Mechanical Property of Poly (3-hydroxybutyrate)/Bioglass Nanocomposite Scaffolds for Bone Tissue Engineering

Conference: 6th world congress of biomechanics. 2010; (Poster)
Authors: Hadi Hajiali, Mohammad Hosseinalipour, Saeed Karbasi, Hamid Reza Rezaie

Nitinol versus stainless steel Nails: Influence of sol-gel-deposited Nano bioactive glass - titania composite films on the hardness, adhesion properties and in vitro bioactivity of substrate

Conference: Nanobio. 2010; (Poster)
Authors: mohammad saleh dadash, Saeed karbasi, Mohammad Reza foroghi

Preparation of Nano Hydroxyapatite /Poly (3-hydroxy butyrate) nanocomposite Scaffold Used in Bone Tissue Engineering

Conference: The Third Conference on Nanostructures. 2010; (Poster)
Authors: M. Radmehr, S. Karbasi, M. Sadeghi, A. Saadat, A. Behnamghader, S.Nori Khorasani

Preparing Nanocomposite Fibrous Scaffolds of P3HB/nHA for Bone Tissue Engineering

Conference: 17th Iranian Conference on Biomedical Engineering. 2010; (Speech)
Authors: A.H. Tehrani, S. Karbasi, A. Zadhoush

structural comparison between natural and synthesis nano HA

Conference: 17th Iranian Conference of Biomedical Engineering. 2010; (Speech)
Authors: M.R. Foroughi, B. Nasiri, S. Karbasi, R. Ebrahimi, M.A. Seyedsajadi

Synthesis and Characterization of NanoHA Powder based on a Novel Sol-Gel Method

Conference: 2th Conference on Nanomaterials and Nanotechnology. 2010; (Poster)
Authors: M. Foroughi, R.Ebrahimi, S. Karbasi, A.A.Noorbakhsh

Synthesis and structural evaluation of porous PHB scaffold by solvent casting and salt leaching useful in tissue engineering

Conference: 17th Iranian Conference on Biomedical Engineering. 2010; (Poster)
Authors: P. Rasekhian, D. Abedi, S. Karbasi, A. Jafarian, M.H. Nasr-esfahani, S. Razavi

Design and Fabrication of a Nanocomposite Scaffold for Bone Tissue Engineering

Conference: 16th Iranian Biomedical Engineering Conference. 2009; (Speech)
Authors: H. Hajjiali, M. Hoseynalipour, S. Karbasi

Simulating the fabrication of nanofibrous scaffold for pore architectural characterization using image analysis

Conference: International conference on modeling and simulation. 2009; (Speech)
Authors: Ashkan Heidarkhan Tehrani, Ali Zadhoush, Saeed Karbasi

A Comparative Study of Articular Chondrocytes Metabolism on a Biodegradable Polyesterurethane Scaffold and Alginate Beads in Different Oxygen Tension and pH

Conference: 13th international conference on biomedical engineering. 2008; (Speech)
Authors: Saeed Karbasi

Evaluation of Hydrostatic Pressure on Metabolism of the Articular Chondrocytes Seeded on Biodegradable Polyurethane as Tissue Engineering Scaffold

Conference: Bone Grafts and Bone Substitutes congress. 2007; (Speech)
Authors: Saeed Karbasi

a review on biomaterials and tissue engineering: past, present and future

Conference: the third international seminar on communication between university, industries and government. 2006; (Speech)
Authors: saeed karbasi

Evaluation of Hydrostatic Pressure on Metabolism of the Articular Chondrocytes Seeded on Biodegradable Polyurethane as Tissue Engineering Scaffold

Conference: World Congress on Medical Physics and Biomedical Engineering(WC 2006). 2006; (Poster)
Authors: Saeed Karbasi

A Comparison Between Cell Viability of Chondrocytes on Biodegradable Degrapol® Scaffold and Alginate Beads in Different Oxygen Tension and pH

Conference: The 4th International Seminar on Polymer Science and Technology. 2005; (Poster)

Authors: Saeed Karbasi, Hamid Mirzadeh, Fariba Orang

Effect of Hydrostatic Pressure on Chondrocytes Metabolism on Biodegradable Degrapol® Scaffold: A Useful Method for Articular Cartilage Tissue Engineering

Conference: The 4th International Seminar on Polymer Science and Technology. 2005; (Poster)

Authors: Saeed Karbasi, Hamid Mirzadeh, Fariba Orang

Effect of Physicochemical Parameters on a Biodegradable Polyurethane Scaffold for Evaluation of Chondrocyte Metabolism

Conference: 12th National Conference of Biomedical Engineering. 2005; (Speech)

Authors: Saeed Karbasi, Fariba Orang, Hamid Mirzadeh

Preparation and Synthesis of Biodegradable Polyurethane Scaffolds for Cartilage Tissue Engineering

Conference: 12th National Conference of Biomedical Engineering. 2005; (Speech)

Authors: Azadeh Asefnejad, Fariba Orang, Hamid Mirzadeh, Saeed Karbasi

A Comparison of Water Absorption and Cell Compatibility Between Polyvinyl alcohol Hydrogel Composites

Conference: 10th National Conference of Biomedical Engineering. 2001; (Speech)

Authors: Saeed Karbasi, Esmaeil Jabbari, Ali Alavi, Fathollah Moztarzadeh

Effect of Grafting N-vinylpyrrolidone or Acrylic Acid on Cytotoxicity, Water Absorption and Compression Modulus of Crosslinked Polyvinyl Alcohol as Artificial Cartilage

Conference: 5th Asian Symposium on Biomedical Materials. 2001; (Speech)

Authors: Saeed Karbasi, Esmaeil Jabbari

Effect of Radiation Grafting on Water Absorption and Dynamic Properties of Acrylic Acid Grafted to Polyvinyl Alcohol Surface

Conference: 6th National Conference of Chemical Engineering. 2001; (Speech)

Authors: Saeed Karbasi, Esmaeil Jabbari, Fathollah Moztarzadeh

Investigation of Cell Compatibility of Acrylic Acid Grafted to Polyvinyl Alcohol as Artificial Cartilage

Conference: 6th National Conference of Chemical Engineering. 2001; (Speech)

Authors: Saeed Karbasi, Esmaeil Jabbari, Ali Alavi

Etc.

B) JOURNAL PAPERS**Evaluation of Mechanical Property and Bioactivity of Nano-Bioglass 45S5 Scaffold Coated with Poly-3-hydroxybutyrate**

Journal: Journal of Materials Science: Materials in Medicine. 2015;
Authors: Mahbobeh Montazeri, Saeed Karbasi, Mohammad Reza Foroughi, Ahmad Monshi, Reza Ebrahimi-Kahrizangi

Nano/micro hybrid scaffold of PCL or P3HB nanofibers combined with silk fibroin for tendon and ligament tissue engineering

Journal: J Appl Biomater Funct Mater. 2015;
Authors: Elham Naghashzargar, Silvia Farè, Valentina Catto, Serena Bertoldi, Dariush Semnani, Saeed Karbasi, Maria Cristina Tanzi

Improvement the Mechanical Properties of Wire-Rope Silk Scaffold by Artificial Neural Network in Tendon and Ligament Tissue Engineering

Journal: J Appl Biomater Funct Mater. 2015;
Authors: Elham Naghashzargar, Dariush Semnani, Saeed Karbasi

Improvement the Mechanical Properties of Wire-Rope Silk Scaffold by Artificial Neural Network in Tendon and Ligament Tissue Engineering

Journal: J Appl Biomater Funct Mater. 2015;
Authors: Elham Naghashzargar, Dariush Semnani, Saeed Karbasi

Investigation on bioactivity and cytotoxicity of mesoporous nano-composite MCM-48/hydroxyapatite for ibuprofen drug delivery

Journal: Ceramic International. 2014;
Authors: Hoda Aghaei, AmirAbbas Nourbakhsh, Saeed Karbasi, Roozbeh JavadKalbasi, Mohammad Rafienia, Nosrat Nourbakhsh, Shahin Bonakdar, Kenneth J.D.Mackenzie

Evaluation of Physical and Mechanical Properties of Hydroxyapatite/Titanium dioxide Composite Scaffold for Tissue Engineering Applications

Journal: Journal of Materials and Advance Technology. 2014;
Authors: Sotuddeh Akbarpoor, Saeed Karbasi

Evaluation of bioactivity poly-3-hydroxybutyrate coated Nano-Bioglass 45S5 composite scaffolds for bone tissue engineering

Journal: Journal of Materials and Advance Technology. 2014;
Authors: M. Montazeri, S. Karbasi, A. Monshi, R. Ebrahimi-kahrizangi

Characterization of PLGA/Chitosan Electrospun Nano- Biocomposite Fabricated by Two Different Methods

Journal: International Journal of Polymeric Materials and Polymeric Biomaterials. 2014;
Authors: Sedigheh Vaezifar, Shahnaz Razavi, Mohammad Ali Golozar, Hamid Zarkesh Esfahani, Mohammad Morshed, Saeed Karbasi

Evaluation of Mechanical Property and Bioactivity of Nano-Bioglass 45S5 Scaffold Coated with Poly-3-hydroxybutyrate

Journal: Journal of Materials and Advance Technology. 2014;

Authors: M. Montazeri, S. Karbasi, A. Monshi, R. Ebrahimi-kahrizsangi

Extremely low-frequency electromagnetic field influences the survival and proliferation effect of human adipose derived stem cells

Journal: Advance Biomedical Journal. 2014;

Authors: Shahnaz Razavi, Marzieh Salimi, Daryoush Shahbazi-Gahrouei, Saeed Karbasi, Saeed Kermani

Effect of Extremely Low-Frequency (50 Hz) Field on Proliferation Rate of Human Adipose-Derived Mesenchymal Stem Cells

Journal: Journal of Isfahan Medical School. 2013;

Authors: Marzieh Salimi, Daryoush Shahbazi-Gahrouei, Saeed Karbasi, Saied Kermani, Shahnaz Razavi

Effects of Some Parameters on Particle Size Distribution of Chitosan Nanoparticles Prepared by Ionic Gelation Method

Journal: Journal of Cluster Science. 2013;

Authors: Sedigheh Vaezifar, Shahnaz Razavi, Mohammad Ali Golozar, Saeed Karbasi, Mohammad Morshed, Mahdi Kamali

Application of intelligent neural network method for prediction of mechanical behavior of wire-rope scaffold in tissue engineering

Journal: Journal of the Textile Institute. 2013;

Authors: Elham Naghashzargar, Dariush Semnani, Saeed Karbasi & Haleh Nekoe

Physical and mechanical properties of a poly-3-hydroxybutyratecoated nanocrystalline Bioglass 45S5 scaffold for bone tissue engineering

Journal: Journal of Materials and Advance Technology. 2013;

Authors: Mahboobeh Montazeri, Saeed Karbasi, Ahmad Monshi, Reza Ebrahimi-Kahrizsangi and Mohammad Reza Foroughi

Effects of Bioglass Nanoparticles on Bioactivity and Mechanical Property of poly(3hydroxybutirate) Scaffolds

Journal: Scientia Iranica(Nanotechnology). 2013;

Authors: Hadi Hajiali, Saeed Karbasi, Mohammad Hosseinalipour, Hamid Reza Rezaie

Comparation of Acellular and Cellular Bioactivity of Poly 3-hydroxybutyrate/hydroxyapatite Nanocomposite and Poly 3-hydroxybutyrate Scaffolds

Journal: Biotechnology and Bioprocess Engineering. 2013;

Authors: Abbas Saadat, A.A. Behnamghader, Saeed Karbasi, et al

Mechanical Evaluation of nHAp Scaffold Coated with Poly-3-Hydroxybutyrate for Bone Tissue Engineering

Journal: Journal of NanoScience and Nanotechnology. 2013;

Authors: Mohammad Reza Foroughi, Saeed Karbasi, Reza Ebrahimi

Influence of Bioglass Nanoparticles on Biodegradation and Biocompatibility of poly(3hydroxybutirate) Scaffolds

Journal: International Journal of Artificial Organs. 2012;

Authors: Hadi Hajiali, Mohammad Hosseinalipour, Saeed Karbasi, Hamid Reza Rezaie

Direct cytotoxicity evaluation of 63S bioactive glass and bone-derived hydroxyapatite particles using yeast model and human chondrocyte cells by microcalorimetry

Journal: Journal of Materials Science: Materials in Medicine. 2011;

Authors: A. Doostmohammadi, A. Monshi, M. H. Fathi, S. Karbasi, O. Braissant, A. U. Daniels

physical and mechanical properties of Poly-3 Hydroxybutyrate coated nanocrystalline hydroxyapatite scaffold for Bone Tissue Engineering

Journal: Journal of Porous Materials. 2011;

Authors: M. R. Foroughi, S. Karbasi, R. Ebrahimi-Kahrizsangi

Influence of calcinated and non calcinated nanobioglass particles on Hardness and bioactivity of sol-gel-derived TiO₂-SiO₂ nano composite coatings on stainless steel substrates

Journal: Journal of Materials Science: Materials in Medicine(in Press). 2011;

Authors: Mohammad Saleh Dadash, Saeed Karbasi, M. Nasr Esfahani, Mohammad Reza Ebrahimi, Hojatollah Vali

The Bonding Strength, Hardness and Bioactivity of Nano Bioglass-Titania Nano composite Coating Deposited on NiTi Nails

Journal: Current Nanoscience(in press). 2011;

Authors: Mohammad Saleh Dadash, Mojtaba Nasr-Esfahani, Reza Ebrahimi, Saeed Karbasi

A comparative study on mechanical and adhesion properties of calcinated and non calcinated nanobioglass-titania nano composite coating on stainless steel substrates

Journal: Scientia Nanotechnology. 2010;17(1):66-72

Authors: Mohammad saleh Dadash, M.Nasr Esfahani, R.Ebrahimi-Kahrizsangi, S.Karbasi, Hojatollah Vali

Comparison of Physical-Mechanical properties of Bioglass-TiO₂ Nanocomposite Coating and their Bioactivity

Journal: Majlesi Journal of Materials Engineering. 2010;4(2):1-8

Authors: M. Nasr-Esfahani, R. Ebrahimi, M.S. Dadash, S. Karbasi

Effect of TGF3 and BMP6 Growth Factors on Chondrogenesis of Adipose Stem Cells on Alginate Scaffold

Journal: Journal of Isfahan Medical School(in press). 2010;

Authors: B. Hashemibani, S. Razavi, E. Esfandiari, S. Karbasi, et al

Experimental Investigation of Governing Parameters in Electrospinning Poly(3-Hydroxybutyrate) Scaffolds on Pores Structural Characteristics

Journal: Journal of Applied Polymer Science. 2010;118(5):2682-2689

Authors: A.H. Tehrani, A. Zadhoush, S. Karbasi

Preparation of a novel biodegradable nanocomposite scaffold based on poly (3-hydroxybutyrate)/ bioglass nanoparticles for bone tissue engineering

Journal: Journal of Materials Science: Materials in Medicine. 2010;21(7):2125

Authors: Hadi Hajiali, Saeed Karbasi, Mohammad Hosseinalipour, Hamid Rezaie

Scaffold Percolative Efficiency: in Vitro Evaluation of the Structural Criterion for Tissue Engineered Electrospun Mats

Journal: Journal of Material Sciences: Materials in Medicine. 2010;

Authors: Ashkan Heidarkhan Tehrani, Ali Zadhoush, Saeed Karbasi, Hojjat Sadeghi-Aliabadi

A Comparative Study of Articular Chondrocytes Metabolism on a Biodegradable Polyesterurethane Scaffold and Alginate Beads in Different Oxygen Tension and pH

Journal: Journal of Isfahan Medical School. 2009;27(97):379-392

Authors: S. Karbasi

Effect of BMP-6 Growth Factor on ADSCs Differentiation to Chondrocyte in Pellet Culture System

Journal: Journal of Isfahan Medical School. 2009;27(100):618-631

Authors: Hashemibani B., Razavi S., Esfandiari E., Salehi M., Karbasi S. et al.

Influence of Poly (lactide-co-glycolide) Type and Gamma Irradiation on the Betamethasone Acetate Release from the In Situ Forming Systems

Journal: Current Drug Delivery. 2009;6:184-191

Authors: Mohammad Rafienia, Shahriar Hojjati Emami, Hamid Mirzadeh, Hamid Mobedi, Saeed Karbasi

Induction of Chondrogenic differentiation of Human Adipose-Derived Stem Cells with TGF in Pellet Culture System

Journal: Iranian Journal of Basic Medical Sciences. 2008;11(1):10-17

Authors: Hashemi-bani B., Razavi S., Esfandiari E., Karbasi S

Evaluation of Hydrostatic Pressure on Metabolism of the Articular Chondrocytes Seeded on Biodegradable Polyurethane as Tissue Engineering Scaffold

Journal: Journal of Isfahan Medical School(in english). 2007;(8):15-22

Authors: Karbasi S.

A Comparison Between Cell Viability of Chondrocytes on a Biodegradable Polyester Urethane Scaffold and Alginate Beads in Different Oxygen Tension and pH

Journal: Iranian Polymer Journal(in english). 2005;14(9):823-830

Authors: Saeed Karbasi, Hamid Mirzadeh, Fariba Orang, Jill Urban

Effect of Physical Environment on Chondrocytes Seeded onto a Biodegradable Polyurethane Scaffold for Articular Cartilage Tissue Engineering

Journal: Journal of Polymer Science and Technology(in farsi). 2005;6(80):383-390

Authors: Saeed Karbasi, Hamid Mirzadeh, Fariba Orang

Swelling Behaviour and Cell Viability of Dehydrothermally Crosslinked Polyvinyl alcohol Hydrogel Grafted With N-vinylpyrrolidone or Acrylic Acid Using γ -Radiation

Journal: Journal of Applied Polymer Science(in english). 2004;91(5):2862-2868

Authors: Esmael Jabbari, Saeed Karbasi

Etc.

THESES SUPERVISION

- 2012 - **Fabrication of electrospun nanocomposite scaffold of PHB/Chitosan for nerve tissue engineering**
Supervisors: Karbasi S, Emadi(me as supervisor)
Place: Isfahan University of Medical Sciences
-
- 2012 - **Modeling and production the new nano/micro hybrid yarn scaffold for tendon and ligament tissue engineering**
Supervisors: Semnani D, Karbasi S(me as Advisor)
Place: Isfahan University of Technology
- 2012 - **Fabrication of nanocomposite scaffold of PLGA/Chitosan and evaluation differentiation potential of mesenchymal stem cell on scaffold for nerve tissue engineering**
Supervisors: Razavi S, Golozar M, Karbasi S(me as Advisor)
Place: Isfahan University of Medical Sciences
- 2012 - **modelling and investigation of mechanical properties of weft knitted stent for oesophagus**
Supervisors: Semnani D, Karbasi S(me as Advisor)
Place: Isfahan University of Technology
- 2012 - **Multi scale Modeling of Carbon-Carbon Composite for maximization the Thermal conductivity in X direction**
Supervisors: Noori S, Karbasi S(me as Supervisor)
Place: Isfahan University of Technology

- 2012 - **Study on galactosylated fibrous liver scaffold by using cross sectional image analysis**
Supervisors: Semnani D, Karbasi S(me as advisor)
Place: Isfahan University of Technology
- 2012 - **Preparation, characterization and assessment of mechanical properties, degradation and bioactivity of poly 3-hydroxybutyrate/ bioactive glass nanocomposite scaffold fabricated by electrospinning method for bone tissue engineering**
Supervisors: Karbasi S.(me as Supervisor)
Place: Semnan University
- 2012 - **Effect of glucosamine on proliferation of chondrocytes on electrospun PHB scaffold**
Supervisors: Karbasi S.(me as Supervisor)
Place: Isfahan University of Medical Sciences
- 2012 -2012 **Effect of low frequency magnetic fields on growth and proliferation of adipose tissue-derived mesenchymal stem cells**
Supervisors: Shahbazi D, Razavi S, Karbasi S.(me as advisor)
Place: Isfahan university of medical sciences
- 2011 -2012 **Design and Characterization of nanobioglass -PHB Composite Scaffold for Bone Tissue Engineering**
Supervisors: Karbasi S., Monshi A, Ebrahimi R (me as Supervisor)
Place: Najafabad branch of Azad University
- 2009 -2010 **Design and fabrication of nanocrystal structure of natural HA-PHB composite scaffold for bone tissue engineering**
Supervisors: Karbasi S., Ebrahimi R (me as Supervisor)
Place: Najafabad branch of Azad University
- 2009 -2010 **Evaluation of Biodegradation and Hydrophilicity of P3HB/Chitosan Scaffold Useful in Tissue Engineering**
Supervisors: S. Noori-khorasani, S. Karbasi (me as Supervisor)
Place: Isfahan University of Technology
- 2009 -2010 **Evaluation of Glucosamine Effect on Differentiated Chondrocytes Metabolism Seeded on Biodegradable Polyhydroxybutyrate(PHB) Scaffold for Cartilage Tissue Engineering**
Supervisors: Dr A. Jafrian, Dr S. Karbasi, Dr M. Rafienia, Dr M.H. Nasr (me as Supervisor)
Place: Isfahan University of Medical Science

- 2009 -2010 **Evaluation of Nanocomposite Coating(nanobioglass-TiO₂) Properties on Stainless Steel and Ntinol**
Supervisors: S. Karbasi, R. Ebrahimi, Nasr (me as Supervisor)
Place: Azad University
- 2008 -2009 **Fabrication of Porous Composite Scaffolds Based on Polyhydroxybutirate\Nanoscale Bioactive Glass and Evaluation of Mechanical Properties and Bioactivity to Use in Bone Tissue Engineering**
Supervisors: M. Hoseinalipour, S. Karbasi (me as Supervisor)
Place: Iran university of science and technology
- 2008 -2009 **Degradation Mechanism and Morphology of Poly(polyhydroxybutyrate)/nanohydroxyapatite (PHB/HA) Scaffold Used in Tissue Engineering**
Supervisors: S. Noorikhorasani, S. Karbasi (me as Supervisor)
Place: Isfahan university of technology
- 2008 -2009 **The study of attachment and proliferation of mouse mesenchymal stem cells on porous polyhydroxyalkanoate scaffold in order to use in tissue engineering**
Supervisors: Abedi D., Karbasi S., Jafarian A., Nasr M.H., Razavi S. (me as Supervisor)
Place: Isfahan University of Medical Science
- 2008 -2012 **Design and Fabrication of Biodegradable Polyhydroxybutirate(PHB)-nano Hydroxyapatite Scaffold Useful for Bone Tissue Enginnering**
Supervisors: Dr A.A. Behnam-ghader, Dr Saeed Karbasi, Dr D. Abedi (me as Supervisor)
Place: Azad university
- 2008 -2009 **Fabrication of Electrospun PHB/nHA Nanocomposite Scaffold and Investigating its Mechanical, physical and Morphological Properties for tissue engineering applications**
Supervisors: Karbasi S, Zadhoosh A. (me as Supervisor)
Place: Isfahan University of Technology
- 2007 -2010 **manufacture and characterization of nano bioactive composite peek-bioactive glass-natural HA, for orthopaedic applications**
Supervisors: Karbasi S., Monshi A., Fathi M.H. (me as Supervisor)
Place: Isfahan university of Medical Science and Isfahan University of Technology
- 2007 - 2008 **Bayesian approach to detection of anomalies in electrical impedance tomography**
Supervisors: Karbasi S., Kermani S. (me as Supervisor)
Place: Isfahan University of Medical Science

2006 - 2008

Differentiation of the adipose tissue-derived mesenchymal stem cell into chondrocyte under influence of BMP-6 in Alginate culture

Supervisors: Esfandiari E., Razavi S., Karbasi S. (me as Supervisor)

Place: Isfahan university of medical science

Etc.