

Mehrnoosh Hasan Shahriari

Amirkabir University of Technology (Tehran Polytechnic).

Personal Information

First Name: Mehrnoosh

Last Name: Hasan Shahriari

Gender: Female

Phone: (+98) 9122904273

Marital Status: Single

Place of Birth: Tehran, Iran

Email: shahriarim@yahoo.com

Language skills: Persian (Native); English (Fluent)

Education

P.h.D.: Biomedical engineering department, Amirkabir University of Technology (Tehran Polytechnic)
Supervised by Dr Afra Hajizadeh and Dr Majid Abdouss.

GPA: 18/31

M.Sc.: Biomedical engineering department, Science and Research Branch (2009-2012)

Thesis: Preparation and Characterization of Eugenol Loaded Oligochitosan Nano-particles through Emulsion/ Sol-Gel Methods

Supervised by Dr. Mohammad Atai, Dr. Mojgan Zandi, Dr. Parvin Shokrolahi

GPA: 17/37

B. Sc.: Material engineering department, Science and Research Branch (2005-2009)

Thesis: Synthesis and Characterization of Ni-doped TiO₂ Nanostructures as an active Self-cleaning Cover on Floor-Tile Surface

Supervised by Dr. Maryam Hosseimi-Zori

GPA: 15/2

Papers in Journals

INTERNATIONAL PUBLICATIONS

1. Arash Khojasteh, Saeed Reza Motamedian, Maryam Rezai Rad, **Mehrnoosh Hasan Shahriari**, Nasser Nadjmi. 2015. "Polymeric vs hydroxyapatite-based scaffolds on dental pulp stem cell proliferation and differentiation". World journal of stem cells, 7(10):1215-1221.
2. Hanieh Nojehdehian, Malihe Ekrami, **Mehrnoosh Hasan Shahriari**, Reza Karimi, Zahra Jaberiansari. 2016. "Loading of gentamicin onto poly lactic-co-glycolic acid and poly lacticoglycolic acid/nano-hydroxyapatite composite microspheres". Biomedical Research 27 (1): 70-78.
3. Maryam Rezia Rad, Moein Khojaste,a, **Mehrnoosh Hasan Shahriari**, Saeed Asgary, Arash Khojasteh. 2016. "Purmorphamine increased adhesion, proliferation and expression of osteoblast phenotype markers of human dental pulp stem cells cultured on beta-tricalcium phosphate". Biomedicine & Pharmacotherapy.
4. **Mehrnoosh Hasan Shahriari**, Maryam Hosseimi-Zori. 2017. " Synthesis and Characterization of Ni-doped TiO₂ Nanostructures as an active Self-cleaning Cover on FloorTile Surface " Journal of Cluster Science.
5. Mahdi Eskandarian Boroujeni, Mossa Gardaneh, **Mehrnoosh Hasan Shahriari**, Abbas Aliaghaei, and Sanaz Hasani. 2017. "Synergy Between Choroid Plexus Epithelial CellConditioned Medium and Knockout Serum Replacement Converts Human Adipose-Derived Stem Cells to DopamineSecreting Neurons".
6. **Mehrnoosh Hasan Shahriari**, Mohammad Atai, Mojgan Zandi, Parvin Shokrollahi, Laleh Solhi. 2017 "Preparation and Characterization of Eugenol Loaded Oligochitosan Nano-particles through Sol-Gel and Emulsion/ Sol-Gel Methods "Polymer Bulletin.
7. **Mehrnoosh Hasan Shahriari**, Mohammad Ali Shokrgozar, Shahin Bonakdar, Farzad Yousefi, Babak Negahdari, Hamid Yeganeh. 2019 "In situforming hydrogel based on polyethylene glycol itaconate for tissue engineering application". Bulletin of Materials science.
8. **Mehrnoosh Hasan Shahriari**, Sepanta Hosseinpour, Arash Khojasteh. 2018. "Impact of stem cells from different origins in combination with β -tricalcium phosphate on bone regeneration: An in vitro study". 3R Journal.

9. Farnaz Kouhestani, Farnaz Dehabadi, **Mehrnoosh Hasan Shahriari**, Saeed Reza Motamedian .2018, "Allogenic vs. synthetic granules for bone tissue engineering : an in vitro study", Progress in Biomaterials journal.
10. Leila Moradkhannejhad, Majid Abdouss, Nasser Nikfarjam, **Mehrnoosh Hasan Shahriari**, Vahid Heidary, 2020, "The effect of molecular weight and content of PEG on in vitro drug release of electrospun curcumin loaded PLA/PEG nanofibers", Journal of Drug Delivery Science and Technology journal.
11. Shafiq Ahmad Kahdestani, **Mehrnoosh Hasan Shahriari** & Majid Abdouss, "Synthesis and characterization of chitosan nanoparticles containing teicoplanin using sol-gel", 2020, Polymer Bulletin journal .

Full Papers, Posters and Oral presentation

NATIONAL & INTERNATIONAL CONFERENCES

1. **Mehrnoosh Hasan Shahriari**, Mohammad Atai, Mojgan Zandi, Parvin Shokrollahi. "The effect of concentration and rate of TPP addition on chitosan nanoparticle size ", **ISPST**, Amirkabir university of Technology, Tehran, Iran 21-25 october 2012. (Poster Presentation).
2. **Mehrnoosh Hasan Shahriari**, Mohammad Atai, Mojgan Zandi, Parvin Shokrollahi. "The effect of concentrations of chitosan and pH on chitosan nanoparticle size by ionic gelation method" **ISPST**, Amirkabir university of Technology, Tehran, Iran 6-9 october 2014. (Poster presentation).
3. **Mehrnoosh Hasan Shahriari**, Mohammad Atai, Mojgan Zandi, Parvin Shokrollahi. "Preparation of low molecular weight chitosan nanoparticles using ionic gelation method" regenerative medicine, national institute of genetic engineering and biotechnology, 5-7 February 2014, Tehran-Iran (Poster Presentation).

WORK EXPERIENCE

- (Dec 2010)

Lecturer and Instructor nano-bio materials workshop in Institute of Color Science & Technology -

(Jan-April, 2012)

Expert assessor of Biological products in Iran Polymer and Petrochemical Institute

- **(April 2012-September2017)**

Cell culture laboratory assistant of Research Institute of Dental Sciences, Dental School, Shahid Beheshti University of Medical science
Supervised by Dr Arash Khojasteh

Researcher assistant of the evaluation Fluorescent Gold nanoclusters on human Mesenchymal Stem Cells: An in vitro Study
Supervised by Dr Arash Khojasteh

Researcher assistant the effect of adding different solutions (CEM) on dental pulp stem cells Supervised by Dr Saeid Asgary

Researcher assistant of Microbiological Efficacy of Photodynamic Therapy as an Adjunct to Non-surgical Periodontal Treatment: A Clinical Trial Supervised by Dr Mohamma reza Talebi

Researcher assistant the effect of metformin on adhesion, proliferation and differentiation on dental pulp stem with and without beta-tricalcium phosphate granules Supervised by Dr Arash Khojasteh

Researcher assistant the effect of the two substances (MTA, CEM) on pulp stem cells through different thicknesses dentin disks
Supervised by Dr Torabzadeh

Researcher assistant of antibody mediated osseous regeneration in canine models
Supervised by Dr Arash Khojasteh

Researcher assistant of Cytotoxicity evaluation of selected nanoparticles on dental pulp stem cells
Supervised by Dr Arash Khojasteh

Researcher, Dental school, Shahid Beheshti University of Medical Science

-Studying properties of aligned and HA/BTCP scaffolds for clinical application
-Working on the Fabrication of semiconducting nanofibrous scaffold using electrospinning -Studying drug delivery
Supervised by Dr Arash Khojasteh

- **(2017-till now)**

- I have Supervised 5 students in master and bachelor level

 Niloofar esmaeili, 2018, B.Sc, Electrospun nanofiber chitosan in tissue engineering.

 KHatereh khajeh, 2018,B.Sc,Electrophoresis chitosan nanoparticles in Gene therapy

 Moshfegh kahdestani ,M.Sc, 2019, Synthesis and optimizes chitosan nanoparticles in drug delivery

 Tajodin Hafizi ,M.Sc,2019, Synthesis Vancomycin loaded in chitosan nano particles

Mahtab Hosseini, M.Sc,2019,Loaded chitosan nanoparticles in nanofibers for angiogenesis

Teaching experience (2017-till now)

✚ I have taught Basic chemistry ,organic chemistry and biochemistry courses at Amirkabir University of Technology (Tehran Polytechnic)

✚ I have taught Biocompatibility , Introduction to Biomedical Engineering, Research Methodology, Organic and General Chemistry, Introduction to medical imaging, English for the students of biomedical engineering and Research methodology courses at Islamic Azad University, South Tehran Branch

COMPUTER SKILLS

Statistical analysis software: SPSS, REST©, LinReg

Graphical Software: Photoshop, Corel Draw, 3D CAD Design Software SOLIDWORKS

RESEARCH INTRESTS

Stem cell research, induced pluripotent stem cells (iPSCs)

Cancer Genetics and immunoengineering

Regenerative medicine and tissue engineering using

Gene/Drug Delivery Systems

Cell signaling in cardiac differentiation

REFERENCES

1. Dr. Majid Abdouss

Professor of AmirKabir University

[Tel:+989121546778](tel:+989121546778)

Email:Majidabdous@yahoo.com

2. Dr. Arash Khojasteh

Associate Professor of Oral and Maxillofacial Surgery, Shahid Beheshti University of Medical Sciences

Office: +98 2122439847

Mobile: +98 9121060032

Email: arashkhojasteh@yahoo.com

3. Dr. Mohammad Atai

Professor of Polymer Science, Iran Polymer and Petrochemical Institute

Office: +982148662446

Mobile: +98 9126053603

Email: m.atai@yahoo.com

4. Dr. Shahin Bonakdar

Assistant Professor, Pasteur Institute of Iran National Cell Bank

Tel: +982164112359 Mobile:

+98 9127111965

Email: shahinbonakdar@yahoo.com