



Curriculum vitae



Personal Information:

Name: Farzin
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Place of Birth: Urmiya – Iran
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Education:

2010- 2016

Ph.D. degree in nanomedicine with GPA (3.59/4.00), Hacettepe University.

Ph.D. Dissertation Title:

“Pulp–Dentin Complex Regeneration by Boron Doped Biomimetic Nano Hydroxyapatite Coated Chitosan Scaffolds”

Comprehensive study is to investigated *in-vitro* odontogenic potential of mesenchymal stem cells, isolated from dental pulp of the human third molar, on boron doped nano hydroxyapatite coated chitosan (B-nHAp/chitosan) scaffolds with odonto-inductive properties.

M.Sc. degree in Microbiology GPA (3.23/4.00), Islamic Azad University Lahijan.

M.Sc. thesis title

“Investigation of bacterial agents of neonatal sepsis in Tonekabon and Ramsar regions”. The aim of this study was to assess the most common bacterial

2011 - 2013

etiology in neonatal sepsis which has been carried out during the years 2003-2004 at Tonekabon and Ramsar regions.

Interests:

Research and development in the field of:

- Fabricating Nano Hydroxyapatite (nHAp), in order to the development of novel antimicrobial nanocomposite against a wide spectrum of bacteria including multi-drug resistance (MDR).
- Developed antibacterial nanocomposite for used in dental and orthopedics implant and reduces the risk of infection.
- Nano biomedicine agents for targeting, sensing, Imaging and Drug Delivery applications.
- Neonatal sepsis infection and antibiotic therapy methods
- Creating nanocomposite fibers which can function as nano drug delivery systems
- Creating nano fibers as drug delivery systems against cancer and bacterial infection

Post Doctorate Fellowship

- 03.03.2016- 15.11.2016 **“Pulp–Dentin Complex Regeneration by Boron Doped Biomimetic Nano Hydroxyapatite Coated Chitosan Scaffolds”** Project No: 114S755.
- 15.07.2017- continue **Antibacterial and chelating effects of nanofibers containing salinomycin and deferasirox: An in vitro and animal study**

Research Projects

- 15.11.2014-02.02.2016 **“Pulp–Dentin Complex Regeneration by Boron Doped Biomimetic Nano Hydroxyapatite Coated Chitosan Scaffolds”** Project No: 114S755.
- 18.10.2016-18.10.2018 **“Use of Boron Doped Nano Hydroxyapatite as Antibacterial Nanocomposite” Intellectual Property Right (IPRs) and Patent Support (FPT-2016-12643)** Project No: 114S755.
- 10.7.2017-30.05.2019 **Antibacterial properties of boric acid_ cefotaxime containing nanoparticles against antibiotic resistant strains and cytotoxic effects on Human Umbilical Vein Endothelial Cells**

Patent and Awards:

Use of antibacterial boron-doped nanohydroxyapatite nanocomposite together with antibiotic (WO2018070953A1) Available at Espacenet, Global Dossier, PatentScope, Discuss Google patent.

The second rank on 10th International Congress of Nanotechnologies in Istanbul in 2014 on the topic of Nano-Scale Interactions of Human Dental Pulp Stem Cells on Fibronectin Immobilized Chitosan Scaffolds.

Publicaitons:

- Surface properties and exopolysaccharide production of surface-associated microorganisms isolated from a dairy plant. Ayhan Temiz, **Farzin Asghari Sana**, Menemşe Gümüşderelioğlu." *Annals of Microbiology* (2019): 1-13.
- Silicon Based Core-shell Nanoparticles MTT-Cytotoxicity and Hemolysis Assays. Asghari sana F, SalmanOgli A (accepted for publication in International Journal of Nanoparticles, **2019**).
- Quantum Lattice-Plasmon, SalmanOgli A, Asghari Sana F (accepted for publication in International Journal Of Optics and Photonics, 2019).
- Boron-Doped Nanohydroxyapatite is Showing Antimicrobial Effect Against Multi Drug Resistant Bacteria. Asghari sana F, Gümüşderelioğlu M (2019 ready for publication).
- Wipo Publishes Patent of Menemse Gumusderelioglu and **Farzin Asghari Sana** for "Use of Antibacterial Boron-Doped Nanohydroxyapatite Nanocomposite Together with Antibiotics" (Turkish Inventors)." *US Fed News Service, Including US State News*. <https://www.highbeam.com/doc/1P4-2030114562.html>
- Oyar P, **Sana FA**, Nasserı B, Durkan R. Effect of green gold nanoparticles synthesized with plant on the flexural strength of heat-polymerized acrylic resin. *Nigerian journal of clinical practice*. 2018 Oct 1;21(10):1291.
- Oyar P, **Asgharisana, F**, Durkan R. Comparison of mechanical properties of heat-polymerized acrylic resin with silver nanoparticles added at different concentrations and sizes, *Journal of Applied Polymer Science*, **2017**, 135, 45807.
- **Asgharisana, F**, Yurtsever MÇ, Bayrak GK, Tunçay EÖ, Kiremitçi AS, Gümüşderelioğlu M. Spreading, proliferation and differentiation of human dental pulp stem cells on chitosan scaffolds immobilized with RGD or fibronectin, *Cytotechnology*, , **2017**,69, 617-30.

- **Asgharisana, F,** and Shahsanam Gaibi. "study of the role of common bacterial etiology in neonatal sepsis in Urumiah Shahid." *New Cellular and Molecular Biotechnology Journal* 1, no. 3 (2011): 17-21.
- Relevance between Helicobacter Pylori Infection and Thrombocytopenia. Panahi O, **Asghari Sana F,** Derakhshan F. *JPCS* 2 (2011): 2-5.
- Panahi, Omid, Saied Rezaei, Mehdi Marzi, and **Asghari sana F.** "Helicobacter pylori & oral cavity inflammation." *JPCS* 2 (2011): 13-5.
- Gheibi, Shahsanam, Mohammad Karamyyar, Behrooz Ilkhanizadeh, **Asghari sana F,** Hashem Mahmoodzadeh, and Amir Human Majlesi. "Coagulase negative Staphylococcus; the most common cause of neonatal septicemia in Urmia, Iran." *Iranian journal of Pediatrics* 18, no. 3 (2008): 237-243.
- Bacterial Etiology And Antibiotic Resistance Of Neonatal Sepsis . Mozafari NA, **Asghari sana F,** Hoseyni Z, *Med J Tabriz Uni Med Sci.*2005;27(4):107-110.

Poster Presentations:

- **Asghari Sana, F.,** Kaynak, G., Capkin Yurtsever, M., Ekin Tuncay, O., Kiremitci, Arlin, Gümüşderelioğlu, M., "Pulp–Dentin Complex Regeneration by Boron Doped Biomimetic Nano Hydroxyapatite Coated Chitosan Scaffolds" European Conference on Biomaterials, Krakow, Polonya, 2015, 30 August-3 Sep .
- **Asghari Sana, F.,** Kaynak, G., Capkin Yurtsever, M., Ekin Tuncay, O., Kiremitci, Arlin, Gümüşderelioğlu, M., "Human Dental Pulp Stem Cell Attachment on Chitosan And Fibronectin Immobilized Chitosan Scaffolds" 10 th Nano Tr Conference, Istanbul, Turkey, 17-21 jun 2014.
- Çakır, D., **Asghari Sana F.,** Gümüşderelioğlu, M., "Synergistic Effect of Beta-Lactam Antibiotics with Boron-Doped Nanohydroxyapatites", 22nd International Biomedical Science and Technology Symposium, Ankara, Türkiye, 12-14 May 2017.
- Oyar, P., Durkan, r., Ozkır, S. E., **Asghari Sana,F.** The effect of silver nanoparticles (AgNps) on the flexural strength of polymethyl methacrylate acrylic resin. 47th Meeting of CED-IADR 15-17 October, Antalya, Turkey 2015 .
- Gheibi.SH, Fakoor.z, Karamyyar.M, Khashabi.J, Ilkhanzadeh.B, **Asgharisana.F,** Mahmoodzadeh.H, Majlesi.AH, Neonatal Septicemia In Oromieh .Iran: Bacterial Pathogens And Antibiotic Sensitivity Pattern. 25th International Congress Of Pediatrics. august 25-30, 2007, Athens-Greece .
- **Asghari Sana.F.** Amir Mozafari,N. Gheybi ,S.Determination Of The Role Of The Coagulase Negative Staphylococci In Neonatal Sepsis. 9st Iranian Congress of Microbiology Kerman Medical University. March 5-7, 2007, Kerman, Iran .

- **Asghari Sana.F.** Gheybi ,S. determination of the most common bacterial etiology in neonatal sepsis . the1st scientific congress of biology of payamenoor university .Tehran, Iran .18-19novamber, **2007**.
- **Asghari Sana.F.** Gheybi ,S.determination of the most common bacterial etiology in neonatal sepsis and antibiotic resistance. the1st scientific congress of biology of payamenoor university. Tehran,Iran .18-19novamber **2007** .
- **Asghari Sana.F.** reza rezaei, M.meybodi ,m. Heat resistance of listeria monocytogenes in diary products as efected by growth medium. the1st scientific congress of biology of payamenoor university. Tehran, Iran .18-19 novamber **2007** .
- Elahi mohamad,M. **Asghari Sana,F.** protease and amylase production of sreptomyces rimosus in submerged and solid state cultatinations. the1st scientific congress of biology of payamenoor university. Tehran,Iran .18-19novamber, **2007**.
- Elahi mohamad,M. **Asghari Sana,F.**survey important feature of ilmenite ore (FeTiO₃) Bioleaching with native thiobacillus ferooxidans strain. the1st scientific congress of biology of payamenoor university. Tehran, Iran .18-19novamber, **2007**.
- Mohammadalizadeh,A. **Asghari Sana,F.**comparison measures plasma lipid between preeclampsia and normal pregnant womans. the1st scientific congress of biology of payamenoor university.Tehran, Iran.18-19novamber, **2007**.

Lectures (Oral Presentation):

- **Asghari Sana, F.**, Gümüşderelioğlu,M., “Development of Boron Doped Nano Hydroxyapatite Nanocomposite, biocompatible, Antibacterial and Synergistic Effect with β -lactam antibiotics” The International Conference On Nanomedicine And Nanobiotechnology, Barcelona., 25 Sep **2017** (oral presentation).
- **Asghari Sana, F.**, Kaynak, G., Capkin Yurtsever, M., Kiremitci, Arlin., Gümüşderelioğlu,M., “Development of Boron-Doped Biomimetic Nano Hydroxyapatite Coated Scaffolds for Pulp-Dentin Regeneration ” 6th International Scintifi Conference of Iranian Academicans Abroad in Turkey, 26 May **2016** (oral presentation).
- **Asghari Sana, F.**, Kaynak, G., Capkin Yurtsever, M., Kiremitci, Arlin., Gümüşderelioğlu, M., “Applications of Nanoscale Technologies for Regenerative Dentistry” Asian Nano Forum Conference, Kish Island Iran, 8-11 Mart **2015** (oral presentation).

Attended Symposiums

- 18th International Symposium on Microencapsulation, 12-14 September, 2011, Antalya, Turkey.

- 16th International Pharmaceutical Technology Symposium, 10-12 September, 2012 Antalya, Turkey.
- 8th Nanoscience -Nanotechnology Congress And International Academy of Nanomedicine 3rd World Congress. Hacettepe University, 25-29 June, 2012, Ankara, Turkey.
- 9th Nanoscience and Nanotechnology Conference, 24-28 June, 2013, Ataturk University, Erzurum, TURKEY.
- 20th International Biomedical Science and Technology Symposium, 24-27 August, 2014, Köyceğiz, Muğla, Turkey.
- 1th International Nano BioTechnology Symposium, 27-29 August, 2014, Köyceğiz, Muğla, Turkey.
- Interlab and Sigma-Aldrich Seminar Series: From Gene to Protein, 18 March, 2014, Ankara, Turkey.
- Nanobiyomalzemeler ve Nanotip Uygulamalar çalıştayı (BIOMATEN) ODTÜ University, 26 December, 2014, Ankara, TURKEY.
- 1th national Medical Mycology Symposium, 24-26 July, 2014, Gazi University, Ankara, Turkey.
- 1th national Multidisciplinary Education Symposium, 8-9 March, 2014, Yildirim Beyazit University, Ankara, Turkey.
- 5th International Scientific Conference of Iranian Academicians Abroad in Turkey. Hacettepe university, 20-21 February, 2015, Ankara-Turkey.
- Commercialization Strategies in Advanced Technology Researches. Hacettepe university, 13-14 October, 2015, Ankara, Turkey.

Education Courses:

- Workshop on "HACCP", Urmia Drug and Food Administration, 9-10 June 2006, Urmia, İRAN.
- Workshop on Spiral Plate, 9th Iranian Congress of Microbiology Kerman Medical University. March 5-7, 2007, Kerman, İRAN.
- Workshop on Real time PCR, 9th Iranian Congress of Microbiology Kerman Medical University. March 5-7, 2007, Kerman, İRAN.
- Workshop on "DUAL BEAM", 6-7 May 2010, Bilkent UNAM, Ankara, TÜRKİYE.
- Workshop arranged by Hacettepe University Cancer Institute and The University of Texas. M.D. Anderson Cancer Center 15-16, July, 2013, Ankara, Turkey.
- Workshop on Detection of Pathogenic Microorganism: Probes, Platforms, and Detectors, 29-30 August, 2014, Köyceğiz, Muğla, Turkey.
- Workshop on Nano carriers, Asian Nano Forum Conference, 8-11 March 2015, Kish Island, İRAN.

- Microsoft Office Tools 2010 (Word, Excel, Power Point, Office Picture Manager, etc.)
- English- B2 level (Toefl IBT) of language proficiency in the skill areas of Listening, Reading, Speaking and Writing.
- Turkish- Full professional proficiency 75 (TÜMER) in the skills areas of Listening, Reading, Speaking and Writing.
- Persian- Native Language

References:

Prof. Dr. Menemşe
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