

Curriculum Vitae

Personal Information

Name:

Mahdi Doosti

Marital status:

Married

Date of Birth:

08/02/1986 (1364/11/19)

Education:

Ph.D. in Pharmaceutical Biomaterials (2013-2020)
Tehran University of Medical Science

MSc. in inorganic chemistry (2010-2012)
University of Birjand, Birjand, Iran

BSc. in pure Chemistry (2006-2010)
University of Birjand, Birjand, Iran

Position:

Assistant Professor

Affiliation:

Hamadan University of Medical Science

Contact Address:

Department of Pharmaceutics, School of Pharmacy, Hamadan University of Medical Science, Hamadan, Iran.

Publications

Papers in International Journals :

- 1- Gebremariam Birhanu, Mehdi Doosti-Telgerd, Ali Zandi-Karimi, Zohreh Karimi, Mohammad Porgham Daryasari, Hamid Akbari Javar, Ehsan Seyedjafari, "Enhanced proliferation and osteogenic differentiation of mesenchymal stem cells by diopside coated Poly-L-lactic Acid-Based nanofibrous scaffolds", *International Journal of Polymeric Materials and Polymeric Biomaterials*, 2021.

- 2- Shima Soheili, Ehsan Mandegar, Farzad Moradikhah, Mehdi Doosti-Telgerd, Hamid Akbari Javar, "Experimental and numerical studies on microfluidic preparation and engineering of chitosan nanoparticles", *Journal of Drug Delivery Science and Technology*, 61, 102268, 2021.
- 3- Mehdi Doosti-Telgerd, Fatemeh Sadat Mahdavi, Farzad Moradikhah, Mohammad Porgham Daryasari, Rahimeh Bayrami Atashgah, Banafsheh Dolatyar, Hamid Akbari Javar, Ehsan Seyedjafari, Iman Shabani, Ehsan Arefian, Farhood Najafi, Yaser Abdi, Mohsen Amini, "Nanofibrous Scaffolds Containing Hydroxyapatite and Microfluidic-Prepared Polyamidoamin/BMP-2 Plasmid Dendriplexes for Bone Tissue Engineering Applications", *International Journal of Nanomedicine*, 15, 2633–2646, 2020.
- 4- Soodabeh Davaran, Mohammad Sadeghinia, Zahra Jamalpoor, Vahideh Raeisdasteh, Hokmabad, Mehdi Doosti-Telgerd, Ansar Karimian, Zahra Sadeghinia, Javad Khalilifard, Akram keramt, Farzad Moradikhah, Ali Sadeghinia, "Multiple functions of microfluidic platforms: Characterization and applications in tissue engineering and diagnosis of cancer", *Electrophoresis*, 41, 1081-1094, 2020.
- 5- Farzad Moradikhaha, Mehdi Doosti-Telgerd, Iman Shabani, Shima Soheili, Banafsheh Dolatyar, Ehsan Seyedjafari, "Microfluidic fabrication of alendronate-loaded chitosan nanoparticles for enhanced osteogenic differentiation of stem cells", *Life Sciences*, 254, 117768, 2020.
- 6- Mehdi Dusti Telgerd, Mohammad Sadeghinia, Gebremariam Birhanu, Mohammad Porgham Daryasari, Ali Zandi-Karimi, Ali Sadeghinia, Hamid Akbarijavar, Mohammad Hosein Karami, Ehsan Seyedjafari, "Enhanced osteogenic differentiation of mesenchymal stem cells on metal–organic framework based on copper, zinc, and imidazole coated poly-l-lactic acid nanofiber scaffolds", *Journal of Biomedical Materials Research Part A*, 107, 1841-1848, 2019.
- 7- Mohammad Porgham Daryasari, Mehdi Dusti Telgerd, Mohammad Hossein Karami, Ali Zandi-Karimi, Hamid Akbarijavar, Mehdi khoobi, Ehsan Seyedjafari, Gebremariam Birhanu, Pegah khosravian, Fatemeh Sadat Mahdavi, "Poly-l-lactic acid Scaffold incorporated Chitosan coated Mesoporous Silica Nanoparticles as pH-sensitive composited for Enhanced Osteogenic Differentiation of Human Adipose Tissue Stem Cells by dexamethasone delivery", *Journal of Artificial Cells, Nanomedicine, and Biotechnology*, 47, 420-429, 2019.
- 8- Reza Haddad, Mehdi Dusti Telgerd, Hojjatalla Hadi, Mohammad Sadeghinia, "Fabrication of a Novel Electrospun Polyacrylonitrile/Giant Ball {Mo132} Composite Nanofibrous Mats in Adsorption of 2-CEES", *Current Applied Polymer Science*, 3, 1-9, 2019.
- 9- Reza Haddad, Mehdi Dusti Telgerd, Hamid Abedi and Ali Roostaie, "Nano-Polyoxotungstate as a Recyclable and Highly Efficient Catalyst for Cycloaddition of CO₂ to Cyclic Carbonates under Solvent-free Conditions", *Journal of Current Organic Synthesis*, 15, 533-540, 2018.
- 10- Gebremariam Birhanu, Hamid Akbari Javar, Ehsan Seyedjafari, Ali Zandi-Karimi, Mehdi Dusti Telgerd, "An improved surface for enhanced stem cell proliferation and osteogenic

differentiation using electrospun composite PLLA/P123 scaffold", *Journal of Artificial Cells, Nanomedicine, and Biotechnology*, 46, 1274-1281, 2017.

Papers in National Journals :

- 1- Reza Haddad, Mehdi Doosti Telgerd and Hojjatallah Hadi, "Fabrication of Polyacrylonitrile-Polyoxomolybdate Composite Nanofibers Membrane as a Protective Layer in Protective Textiles by Electrospinning", *Iranian Journal of Polymer Science and Technology*, 33, 308-317, 2020.
- 2- Reza Haddad and Mehdi Doosti, "Preparation of Nanocomposite Membranes Based on Polyacrylonitrile and Nanoclusters {Mo154} For Absorption of Capsaicinoids Usable in Protective Clothing", *journal of textile science and technology*, 8, 65-71, 2019.

Poster Presentation:

- 1- Mahdi dusti, Zhila Izadi, Rahime Bairami and Azadeh Amini, "Silk: The Natural Biomaterial for Tissue Engineering", 6th Iranian Controlled Release Society Conference & 1st Middle East Controlled Release Conference, *Tehran University of Medical Sciences, February 2014, Tehran, Iran.*
- 2- Reihaneh Malakooti, Raheleh Hosseinabadi, Mahdi dusti, Hesamaldin Mahmoudi, "Solvent free oxidation of alcohols catalyzed by [Fe(bpdo)₂Cl₂]Cl supported on Al-SBA-15", 14th Iranian Inorganic Chemistry Conference, *Sharif University of Technology, August 2011, Tehran, Iran.*
- 3- Reza Haddad, Mohammad Haddad, Mehdi Dusti Telgerd, "Preparation of carbon nanotube enriched with {Mo154} for the hollow fiber solid phase microextraction of naproxen in urine samples", 21th Iranian Inorganic Chemistry Conference, *University of Arak, August 2019, Arak, Iran.*
- 4- Reza Haddad, Mohammad Haddad, Mehdi Dusti Telgerd, "Electrospun nanofiber with PAN and polyoxomolybdate as a new membrane for adsorption diethyl chlorophosphate (DCP)", 21th Iranian Inorganic Chemistry Conference, *University of Arak, August 2019, Arak, Iran.*
- 5- Farzad Moradikhah, Mojtaba Farahani, Mahdi Doosti, Ehsan Seyedjafari, Iman Shabani, "On-Chip Synthesis of Chitosan-Alendronate Nanoparticles for Bone Tissue Engineering" The 3rd National Festival and International Congress on Stem Cell and Regenerative Medicine, *Tehran University of Medical Sciences, November 2018, Tehran, Iran.*

Research Projects

Completed Research Projects

- 1- Design and fabrication of nanofibrous scaffolds containing nanoparticles as gene carriers for bone tissue engineering applications, *Tehran University of Medical Sciences.*

- 2- Design and fabrication of alendronate-loaded nanoparticles using microfluidic method: evaluation of their effect on osteogenic differentiation of stem cells, *Council for Development of Stem Cell Sciences and Technologies*.

Current Research Projects:

- 1- Preparation of PLLA / PEO polymer scaffold containing calcium /alendronate particles for bone tissue repair, *Kermanshah University of Medical Sciences*.
- 2- Design and fabrication polymeric nanostructured scaffolds containing oyster shell/manganese oxide composite for bone tissue regeneration, *Kermanshah University of Medical Sciences*.

Awards and Honors:

Second-rank in pharmaceutical biomaterials PhD nationwide entrance exam.

Research Interests:

- Biomaterials
- Nano biotechnology
- BioMEMS & BioNEMS
- Gene delivery
- Microfluidic devices
- Tissue engineering
- Cellular response to biomaterials
- Surface modification of biomaterials
- Controlled drug delivery systems

Workshops:

- Bioinformatics and Primer design
- PCR
- Cloning and Genetic Engineering
- Gene transfection
- Cell culture
- Real Time PCR
- Intellectual property and patent

Employments:

R & D Researcher at Nanofanavaran Narin Teb GmbH (2021-2023)

References

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