Samaneh Hosseini

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Present Address:

Department of Cell Engineering, Cell Science Research Center, Royan Institute for Stem Cell Biology and Technology, 1665659911, ACECR, Tehran, Iran

Language:

Persian, English, French

Academic Background:

2007-2013: PhD in Nanobiotechnology,
Tarbiat Modares University, Tehran, Iran
Dissertation: The effect of Osteocalcin mimetic peptide on biomineralization process; hydroxyapatite nanocrystal formation and osteogenesis, **GPA: 18.22**

2003- 2006: Master's Degree in Biophysics,
Tarbiat Modares University, Tehran, Iran,
Thesis: Comparative structural study of calmodulin and apocalmodulin purified from bovine brain, **GPA: 18.51**

1999- 2003: Bachelor's Degree in Biology,
Azad University, Mashhad, Iran**, GPA: 18.17**

Work Experience:

2018-present: Assistant professor**,** Royan Institute for Stem Cell Biology and Technology, Tehran, Iran

2017-2018: Research Associate; Royan Institute for Stem Cell Biology and Technology, Tehran, Iran

2014-2017: Post-doc Fellow; Royan Institute for Stem Cell Biology and Technology, Tehran, Iran

Awards and Honors

2020: My publication "3D Printing in Dentistry" one of the Springer Nature 2020 highlights
2013: Second rank student in PhD, Tarbiat Modares University, Iran

2011: Visiting Scientist, Department of Anatomy and cell biology, McGill University, Canada
2006: Distinguished graduated MSc student, Tarbiat Modares University, Iran
2003: Second rank student in BSc, Azad University, Iran

Teaching experience:

Department of Tissue engineering, Royan Institute, Tehran, 2024-2025 *(Application of nanotechnology in tissue engineering, graduate level)*
Faculty of Sciences and Advanced Technologies in Biology, University of Science and Culture, Tehran, Iran, 2024-2025 *(Nanotechnology in biomedicine, graduate Level)*
Faculty of Sciences and Advanced Technologies in Biology, University of Science and Culture, Tehran, Iran, 2023-2024 *(Nanotechnology in biomedicine, graduate Level)*
Department of Tissue engineering, Royan Institute, Tehran, 2022-2023 *(Application of nanotechnology in tissue engineering, graduate level)*
Faculty of Sciences and Advanced Technologies in Biology, University of Science and Culture, Tehran, Iran, 2022-2023 *(Nanotechnology in biomedicine, graduate Level)*
Faculty of Sciences and Advanced Technologies in Biology, University of Science and Culture, Tehran, Iran, 2022-2023 *(Nanobiotechnology, undergraduate Level)*
Faculty of Sciences and Advanced Technologies in Biology, University of Science and Culture, Tehran, Iran, 2020-2021 *(Biophysics, undergraduate Level)*
Faculty of Sciences and Advanced Technologies in Biology, University of Science and Culture, Tehran, Iran, 2020-2021 *(Nanobiotechnology, undergraduate Level)*
Faculty of Sciences and Advanced Technologies in Biology, University of Science and Culture, Tehran, Iran, 2019-2020 *(Nanobiotechnology, undergraduate Level*
Department of Biotechnology, Shahid Beheshti University of Medical Sciences, Tehran, 2019-2020 *(Nanobiotechnology, graduate level)*
Department of Tissue engineering, Royan Institute, Tehran, 2018-2019 *(Application of nanotechnology in tissue engineering, graduate level)*
Department of Biotechnology, Shahid Beheshti University of Medical Sciences, Tehran, 2017-2018 *(Nanobiotechnology, graduate level)*
Faculty of Biological science, Alzahra University, Tehran, 2016-2017 *(Biophysics, undergraduate Level)*
Faculty of Biological science, Alzahra University, Tehran, 2016-2017 *(Bioinformatics, undergraduate Level)*
-Faculty of Basic Science, Biological Department, Islamic Azad University, Tehran, 2007-2009 *(Biophysics, undergraduate Level)*
-Faculty of Basic Science, Biological Department, Islamic Azad University, Tehran, 2007-2009 *(Radiation Biology, undergraduate Level)*
-Theoretical and practical workshop on "Animal cell culture", Tarbiat Modares University, Tehran, *winter* 2014.
-Theoretical and practical workshop on "Peptide synthesis", Tarbiat Modares University, Tehran, *winter* 2014.

- Theoretical and practical workshop on "Isolation, and purification of mesenchymal stem cell from various references; Bone Marrow, Dental Pulp and Adipose Tissue", Royan Institute, Tehran, *summer* 2016.
- Endnote in "Research tools" course, Royan Institute, Tehran, *autumn* 2016.
- Endnote in "Research tools" course, Royan Institute, Tehran, Iran, *spring* 2016.
- Bone and cartilage tissue engineering, Royan Institute, Tehran, Iran, *spring* 2016

Conference organization and Services:

- 15th Royan International Congress on Stem Cell Biology & Technology, Razi Conference Hall *Summer 2019,* Scientific Chairperson.
- 1st National and 3rd Royan Scientific Presentation Contest, Royan Institute, *Winter* 2017, Executive Director.
- 2nd Annual Royan Scientific Presentation Contest, Royan Institute, *Winter* 2016, Executive Director.
- Isolation, and Purification of Mesenchymal Stem Cell from Various References; Bone Marrow, Dental Pulp and Adipose Tissue workshop, *Summer* 2015, Executive member.
- Isolation, and Purification of Mesenchymal Stem Cell from Various References; Bone Marrow, Dental Pulp and Adipose Tissue workshop, *Summer* 2016, Executive member.
- Isolation, and Purification of Mesenchymal Stem Cell from Various References; Bone Marrow, Dental Pulp and Adipose Tissue workshop, *Summer* 2017, Executive member.
- Isolation, and Purification of Mesenchymal Stem Cell from Various References; Bone Marrow, Dental Pulp and Adipose Tissue workshop, *Summer* 2018, Executive member.
- Isolation, and Purification of Mesenchymal Stem Cell from Various References; Bone Marrow, Dental Pulp and Adipose Tissue workshop, *Summer* 2019, Executive member.
- Bone and Cartilage Tissue Engineering workshop, Summer 2022, Scientific Chairperson
- Mesenchymal Stem Cell Isolation, Culture and Differentiation to Skeletal Lineages from Bone Marrow, Adipose Tissue and Dental Pulp, *Summer* 2023, Executive Chairperson.

Bone and Cartilage Tissue Engineering workshop, Summer 2023, Scientific Chairperson

- Isolation, Cultivation, Passage and Differentiation of Mesenchymal Stem Cell Isolated from Bone Marrow, Adipose and Dental Pulp Tissue workshop, *Summer* 2024, Executive Chairperson.

Supervisory Experience:

Hoda Nasiri, PhD, Advisor, 2015-2022
Maryam Hosseinzadeh, Master's, Advisor, 2017-2019
Niloofar Kalantari, Master's, Supervisor, 2017-2020
Sara Farahi, PhD, Co-supervisor, 2018-2021
Amin Ebrahimi, PhD, Co-supervisor, 2018-2024
Abazar Esmaeili, PhD, Advisor, 2018-2023
Farnoosh Ebrahimi, Master's, Advisor, 2020-2021
Yalda Alibeigian, Master's, Supervisor, 2021-2023

Maryam Hatami, Master's, Supervisor, 2021-2023
Farzaneh Mirzaeian, PhD, Co-supervisor, 2021-present
Fatemeh Leisi, Master's, Advisor, 2021-2024
Mahshad Mohseni, PhD, Advisor, 2023-2025
Pegah Shams, Master's, Supervisor, 2023-2025
Sadaf Najafloo, Master's, Supervisor, 2023-2025
Amir Ali Joudaki, Master's, Supervisor, 2023-2025
Sadaf Lashgari, Master's, Supervisor, 2023-2025
Saeedeh Hematian, PhD, Advisor, 2023-present
Saghi Ghafarzadeh, Master's, Supervisor, 2023-present
Samira Ramezani, Master's, Supervisor, 2023-present
Masoumeh Kafi, Master's, Supervisor, 2025-present

Workshop:

- Certificate on Good Clinical Practice (Clinical Trial Center of Tehran University)
-Certificate on Functional Nanoporous Biomaterials: Modeling, Design and Application
-Certificate on Solid phase peptide synthesis
-Certificate on Iran-Korea nanotechnology workshop

Patent:

-Design and synthesis of amidic nanostructured osteocalcin derived peptide for the improvement of hydroxyapatite formation and osteogenesis

Books:

- **Cartilage: From Biology to Biofabrication**, Edited by **Hosseini S**, Baghaban Eslaminejad MR, Springer Nature. 2023
- **Hard Tissue Engineering; Principles and Applications,** Authored by Faghihi S, **Hosseini S** and Mirzaeian F, ACECR Publication, Amirkabir University of Technology Branch**,** 2024

Book Chapters:

- Valouzi A, Taghiyar L, Baei P, Babaeizad A, **Hosseini S,** Sheykhhasan M, " **Applications of fiber-based natural biomaterials in bone tissue engineering**" in the book" Harnessing Fiber-Based Natural Biomaterials" Edited by Mohit Kumar, Manoj Kumar Singh, Sanjay Mavinkere Rangappa, Suchart Siengchin, Ajay Sharma, 2026, Elsevier.

- Baei P, Bagheri Azizabad Z, Araban S, Babaeizad A, Sheykhhasan M, **Hosseini S** " **Applications of fiber-based natural biomaterials in cartilage tissue engineering**" in the book" Harnessing Fiber-Based Natural Biomaterials" Edited by Mohit Kumar, Manoj Kumar Singh, Sanjay Mavinkere Rangappa, Suchart Siengchin, Ajay Sharma, 2026, Elsevier.

- Soleymani-Goloujeh M, **Hosseini S,** Baghaban Eslaminejad MR, "**Advanced nanotechnology Approaches as Emerging Tools in Cellular-based Technologies**" in the book" Advances in Experimental Medicine and Biology" Edited by Kursad Turksen, pp 127-144, 2023, Springer Cham.

- Nasiri N, Natghi R, Zarei F, **Hosseini S,** Baghaban Eslaminejad MR, "**Mesenchymal Stem Cell Therapy for Osteoarthritis: Practice and Possible Promises**" in the book" Advances in Experimental Medicine and Biology" Edited by Kursad Turksen, pp 1-19, 2022, Springer Cham.

- Khademi-Shirvan M, Ghorbaninejad M, **Hosseini S**, Baghaban Eslaminejad MR, "**The Importance of Stem Cell Senescence in Regenerative Medicine**" in the book " Cell Biology and Translational Medicine," Edited by Kursad Turksen, Volume 9 pp 87-102, 2020, Springer Cham.

- Adibfar A, **Hosseini S**, Eslaminejad MR, "**Smart Polymeric Systems: A Biomedical Viewpoint**" in the book " Cell Biology and Translational Medicine," Edited by Kursad Turksen, Volume 10 pp 133-148, 2020, Springer Cham.

- Ebrahimi A, Baei P, **Hosseini S**, Eslaminejad MR, "**Decellularized Extracellular Matrix as a Potent Natural Biomaterial for Regenerative Medicine**" in the book "Advances in Experimental Medicine and Biology" Edited by Kursad Turksen, pp 1-17, 2020, Springer Cham.

- **Hosseini S**, Halvaei M, Ebrahimi A, Shamekhi MA, Baghaban Eslaminejad MR "**3D-printing in Dentistry**" in the book " Application of Biomedical Engineering in Dentistry " Edited by Lobat Tayebi, 2019, Springer (Humana Press).

- **Hosseini S**, Taghiyar L, Safari F, Baghaban Eslaminejad MR, "**Regenerative Medicine Application of Mesenchymal Stem Cells**" in the book " Advances in Experimental Medicine and Biology – Cell Biology and Translational Medicine" Edited by Kursad Turksen, 2018, Springer International Publishing AG, part of Springer Nature.

- **Hosseini S**, Shamekhi MA, Jahangir Sh, Bagheri F, Baghaban Eslaminejad MR, "**The Robust Potential of Mesenchymal Stem Cell-Loaded Constructs for Hard Tissue Regeneration after Cancer Removal**" in the book "Advances in Experimental Medicine and Biology" Edited by Phuc Van Pham, 2018, Springer (Humana Press).

- **Hosseini S**, Bagheri F, Shamekhi MA, Baghaban Eslaminejad MR, "**Polymeric Scaffolds for MSC-based Cartilage Tissue Engineering**" in the book "Encyclopedia of polymer application". 2018, Taylor & Francis.

- **Hosseini S**, Jahangir Sh, Baghaban Eslaminejad MR, "**Tooth Tissue Engineering**" in the book" Biomaterials for Oral and Dental Tissue Engineering, Materials and Strategies" Edited by Lobat Tayebi and Keyvan Moharamzadeh, 2017, Elsevier.

- **Hosseini S**, Baghaban Eslaminejad MR, "**Mesenchymal Stem cells: An Optimistic Cell Source in Tissue Engineering for Bone Regeneration**" in the book "Cartilage and Bone Regeneration (Stem Cells in Clinical Application)" Edited by Phuc Van Pham, 2017, Springer (Humana Press).

Papers:

- Leisi Mehrabani F, **Hosseini S**, Baghaban Eslaminejad MR. A Stratified Cell Sheet Platform Orchestrating Dual Osteogenic and Chondrogenic Differentiation for Osteochondral Tissue Engineering (Under review)

- Ghorbaninejad M, Kamrani S, Ghorbaninejad Z, **Hosseini S,** Epigenetic Crosstalk in Bone and Cartilage Disorders: Emerging Role of Extracellular Vesicles, **Biomedicine & Pharmacotherapy**, 2025, 193, 118706.

- Ebrahimi Sadrabadi A, Arab S, Kamali A, Karimi S, Baghaban Eslaminejad MR, **Hosseini S**, Biphasic Bone-Mimicking Constructs Containing Silk Fibroin Peptide Enhanced Bone Regeneration in Segmental Defects in Rats, **Biomaterials Advances**, 2025, 214650.

- Ebrahimi F, Jalali H, Kalantari N, Ghanian MH, **Hosseini S**, Dual-Functional Decellularized Bone Scaffolds Embedded with PLGA–Linezolid Microparticles for Enhanced Bone Regeneration and Infection Control, **BioMedical Engineering OnLine**, 2025, 24 (1), 140.

- Jelodari S, Baei P, Halvaei M, Hosseinpour N, Sheykhhassan M, **Hosseini S**, Bioinspired 3D-Printing Strategies for Skeletal Tissue Regeneration; From Natural Architectures to Clinical Applications, **Journal of Biomaterials Applications**, 2025.

- Ebrahimi Sadrabadi A, Baei P, Baghaban Eslaminejad MR, **Hosseini S**. Toward functional bone bioprinting: Addressing the overlooked challenges of mechanical compliance, **International Journal of Bioprinting**, 2025, 025420425.

- Sedaghat A, Shokrolahi F, Yeganeh H, Shokrolahi P, **Hosseini S**, Injectable Gellan Gum Hydrogel with PLGA-LDH Microspheres for Controlled Alendronate Release and Bone Regeneration, **International Journal of Biological Macromolecules**, 2025.

- Leisi Mehrabani F, Alibeigian Y, Baghaban Eslaminejad MR, **Hosseini S**, Mechanical Harvesting of Cell Sheets: An Efficient Approach for Bone and Cartilage Tissue Engineering, **Stem Cell Research & Therapy**, 2025

- Esmaeili A, **Hosseini S**, Baghaban Eslaminejad MR, The Biocorona and its Considerable Potential in Extracellular Vesicle Engineering for Clinical Applications, **Biomedicine and Pharmacotherapy**, 2025

- Alibeigian Y, Kalantari N, Ebrahimi Sadrabadi A, Kamali A, Raminfard S, Baghaban Eslaminejad MR, **Hosseini S**, Incorporation of Calcium Phosphate Cement into Decellularized Extracellular Matrix (CPC/dECM) Enhances its Mechanical and Bone Regenerative Properties, **Colloid and Surface B: Biointerface,** 2024.

- Esmaeili A, **Hosseini S**, Baghaban Eslaminejad MR, Co-culture engineering: a promising strategy for production of engineered extracellular vesicle for osteoarthritis treatment, **Cell Communication and Signaling**, 2024, 22 (1), 29

- Rabani Doost A, Shokrolahi F, Shokrollahi P, Barzin J, **Hosseini S**, Engineering antibacterial shrinkage-free trinary PLGA-b ased GBR membrane for bone regeneration, **Polymers for Advanced Technologies,** 2024, 35 (1), e6263

- Hosseinzadeh M, Kamali A, **Hosseini S**, Baghaban Eslaminejad MR. Extracellular Vesicles Derived from Chondrocyte/MSC Co-Culture Alleviate Osteoarthritis in Rat, **Cell and Tissue Research,** 2023, 394 (1), 145-162

- Ghorbaninejad M, Khademi-Shirvan M, **Hosseini S**, Meyfour A, ShahHosseini M, Eslaminejad MB, Effective Role of Curcumin on Expression Regulation of EZH2 Histone Methyltransferase as a Dynamic Epigenetic Factor in Osteogenic Differentiation of Human Mesenchymal Stem Cells, **Biochimica et Biophysica Acta (BBA) - Gene Regulatory Mechanisms,** 2023, 1866: 194903

- Esmaeili A, **Hosseini S**, Kamali A, Hosseinzadeh M, Shekari F, Baghaban Eslaminejad MR, Co-aggregation of MSC/Chondrocyte in a Dynamic 3D Culture Elevates the Therapeutic Effect of Secreted Extracellular Vesicles on Osteoarthritis in a Rat Model, **Scientific reports,** 2022. 12: 1-15.

- Mohseni M, Shokrollahi P, Shokrolahi F, **Hosseini S**, Taghiyar L, Kamali A. Dexamethasone Loaded injectable, Self-healing Hydrogel Microspheres Based on UPy-Functionalized Gelatin/ZnHAp Physical Network Promotes Bone Regeneration, **International Journal of Pharmaceutics,** 2022, 626: 122196.

- Nasiri N, **Hosseini S,** Reihani-Sabet F, Baghaban Eslaminejad M. Targeted Mesenchymal Stem Cell Therapy Equipped with Cell-tissue Nanomatchmaker Stops Osteoarthritis Progression, **Scientific reports,** 2022. 12: 1-13.

- Esmaeili A, Alini M, Baghaban Eslaminejad MR, **Hosseini S.** Engineering Strategies for Customizing Extracellular Vesicle Uptake in a Therapeutic Context, **Stem Cell Research and Therapy**, 2022, 13: 129.

- Jelodari S, Ebrahimi Sadrabadi A, Zarei F, Jahangir S, Azami M, Sheykhhassan M, Hosseini S. New Insights into Cartilage Tissue Engineering: Improvement of Tissue-

Scaffold Integration to Enhance Cartilage Regeneration, **BioMed Research International**, 2022, 2022: 1-13.

- Farahi S, Hosseini S, Hashemi S, Ghanbarian H, Salehi M, **Hosseini S**. The Use of Trichostatin A during Pluripotent Stem Cell Generation Does Not Affect MHC Expression Level, **Stem Cells International**, 2022, 2022: 1-12.

- Hosseinzadeh M, Kamali A, **Hosseini S**, Baghaban Eslaminejad MR. Higher Chondrogenic Potential of Extracellular Vesicles Derived from Mesenchymal Stem Cells Compared to Chondrocytes-EVs in Vitro, **BioMed Research International**, 2021, 2021: 1-12.

- Esmaeili A, **Hosseini S**, Baghaban Eslaminejad MR. Engineered-extracellular vesicles as an optimistic tool for microRNA delivery for osteoarthritis treatment, **Cellular and Molecular Life Sciences,** 2020, 78 (1): 79-91.

- Ghorbaninejad M, Khademi-Shirvan M, Hosseini S, Eslaminejad MB, Epidrugs: novel epigenetic regulators that open a new window for targeting osteoblast differentiation, **Stem Cell Research and Therapy,** 2020, 11 (1): 1-14.

- Nasiri N, **Hosseini S**, Alini M, Khademhosseini A, Baghaban Eslaminejad MR. Targeted cell delivery for articular cartilage regeneration and osteoarthritis treatment, **Drug Discovery Today,** 2019**,** 24 (11), 2212-2224.

- **Hosseini S,** Naderi-Manesh H, Vali H, Baghaban Eslaminejad MR, Sayahpour FA, Faghihi S. Contribution of osteocalcin mimetic peptide enhances osteogenic activity and extracellular matrix mineralization of human osteoblast-like cells, **Colloid and Surface B.** 2018, 173: 662-671.

- Kamali A, Oryan A, **Hosseini S**, Ghanian MH, Alizadeh M, Baghaban Eslaminejad MR, Baharvand H. Cannabidiol-loaded microspheres incorporated into osteoconductive scaffold enhance mesenchymal stem cell recruitment and regeneration of critical-sized bone defects, **Material Science and Engineering C.** 2019; 101: 64-75.

- Jahangir Sh, **Hosseini S,** Sayahpour FA, Mostafaei F, Baghaban Eslaminejad MR. 3D-porous β-tricalcium phosphate–alginate–gelatin scaffold with DMOG delivery promotes angiogenesis and bone formation in rat calvarial defects, **Journal Materials Science; Materials in Medicine,** 2018, 30(1): 1.

- Oryan A, Baghaban Eslaminejad MR, Kamali A, **Hosseini S**, Sayahpour FA, Baharvand H, Synergistic effect of strontium, bioactive glass and nano-hydroxyapatite promotes bone regeneration of critical-sized radial bone defects, **Journal of Biomedical Materials Research Part B,** 2019, 107(1):50-64.

- Khalilifar MA, Mohamadreza Baghban Eslaminejad MR, Ghasemzadeh M, **Hosseini S**, Baharvand H, In vitro and in vivo comparison of different types of rabbit mesenchymal stem cells for cartilage repair, **Cell Journal**, 2019, 21 (2).

- Taghiyar L, **Hosseini S**, Safari F, Bagheri F, Fani N, Stoddart M. J., Alini M, Baghaban Eslaminejad MR. New insight into functional limb regeneration: A to Z approaches, **Journal of Tissue Engineering and Regenerative Medicine,** 2018, 12(9): 1925-1943.

- Taghiyar L, Hesaraki M, Azam Sayahpour F, Satarian L, **Hosseini S**, Aghdami N, Baghaban Eslaminejad MR, Msh homeobox 1 (Msx1)- and Msx2-overexpressing bone marrow-derived mesenchymal stem cells resemble blastema cells and enhance regeneration in mice, **Journal of Biological Chemistry**, 2017, 292(25):10520-10533.

- Taghiyar L, **Hosseini S**, Hesaraki M, Azam Sayahpour F, Aghdami N, Baghaban Eslaminejad MR, Isolation, characterization and osteogenic potential of mouse digit tip blastema cells in comparison with bone marrow-derived mesenchymal stem cells in vitro, **Cell Journal**, 2018, 19 (4): 585-598.

- Kheirabadi M, Maleki J, Soufian S, **Hosseini S**. Design of new potent HTLV-1 protease inhibitors: in silico study. **Molecular Biology Research Communications**, 2016; 5(1): 19-30

- **Hosseini S,** Naderi-Manesh H, Vali H, Faghihi S. Improved surface bioactivity of stainless steel substrates using osteocalcin mimetic peptide**. Material chemistry and physics**, 2014, 143: 1364-1371.

- **Hosseini S,** Naderi-Manesh H, Mountassif D, Cerruti M, Vali H, Faghihi S. C-terminal amidation of an osteocalcin-derived peptide promotes hydroxyapatite crystallization. **Journal of biological chemistry,** 2013, 288: 7885-7893**.**

- **Hosseini S,** Naderi-Manesh H, Faghihi S. The effect of acidic and amidic osteocalcin derived peptides on the formation of hydroxyapatite nanocrystals. **Biotechnology Tarbiat Modares University,** 2013, 4(1): 65-74.

Conferences:

- **Hosseini S**, The Potential Significance of Engineered Extracellular Vesicles in Osteoarthritis Treatment. **20th Royan International Congress on Stem Cell Biology & Technology,** September 2024, Tehran, Iran.

- Judaki A A, Taghiyar L, **Hosseini S**, Taleahmad S. Novel Approaches for Identification of Prognostic Biomarker for Osteosarcoma Based on Data-mining and scRNA-seq. 20**th Royan International Congress on Stem Cell Biology & Technology,** September 2024, Tehran, Iran.

- Alibeigian Y, **Hosseini S**, Gezelbash F. Degenerative changes in biomechanics, gene expression, and composition of intervertebral disc: 8-week animal study, **4th International Workshop Spine Loading and Deformation,** July 2023, Berlin, Germany.

- Leisi Mehrabani F, **Hosseini S,** Baghaban Eslaminejad MR. Developing an Osteochondral Construct Using Mesenchymal Stem Cell Sheet Technology, **19th Royan International Congress on Stem Cell Biology & Technology,** August 2023, Tehran, Iran.

- Ebrahimi sadrabadi A, **Hosseini S**, Baghaban Eslaminejad MR. Developing Trabecular and Cortical Bone Microstructure Through Decellularized Extracellular Matrix Composite Hydrogels. **18th Royan International Congress on Stem Cell Biology & Technology,** September 2022, Tehran, Iran.

- Hosseinzadeh M, **Hosseini S**, Baghaban Eslaminejad MR. Improvement of chondrogenic potential of exosomes for treatment of osteoarthritis. **Nature conferences; Innovative tissue therapies from bench to bedside,** November 2021**,** Virtual.

- Kalantari N, **Hosseini S**, Baghaban Eslaminejad MR. Development of 3d- scaffold using bioink derived from decellularized bone with calcium phosphate cement for bone tissue regeneration. **6th World Congress of the Tissue Engineering and Regenerative Medicine International Society (TERMIS),** November 2021, Maastricht, The Netherlands.

- Hosseinzadeh M, **Hosseini S**, Baghaban Eslaminejad MR. The effect of extracellular vesicles derived from chondrocytes and mesenchymal stem cells on chondrogenesis: an in vitro study. **15th Royan International Congress on Stem Cell Biology & Technology,** August 2019, Tehran, Iran.

- Khademi Shirvan M, Ghorbaninejad M, **Hosseini S**, Shahhoseini M, Baghaban Eslaminejad MR, Curcumin promotes matrix mineralization and osteogenic activity of human bone marrow-derived MSC, **European Human Genetics Conference,** June 2018, Milan, Italy

- Ghorbaninejad M, **Hosseini S**, Baghaban Eslaminejad MR, Shahhoseini M. Curcumin promote osteogenic differentiation of human bone marrow-derived MSCs through Ezh2-mediated histone modification, **3rd International and 15th Iranian Genetics Congress**, May 2018, Tehran, Iran.

- Khademi Shirvan M, **Hosseini S**, Baghaban Eslaminejad MR, Shahhoseini M. Curcumin stimulate osteoblast differentiation through regulating p300 Histone acetyltransferase. **3rd International and 15th Iranian Genetics Congress**, May 2018, Tehran, Iran.

- **Hosseini S,** Baghaban Eslaminejad M, Faghihi S. Novel bone scaffold containing biomimetic peptide for bone tissue engineering, **10th World Biomaterial Congress**, May 2016, Montreal, Canada.

- Jahangir Sh, Sayahpour FA, Mostafaei F, **Hosseini S**, Baghaban Eslaminejad MR, Spongy scaffold containing dimethyloxallylglycin accelerates angiogenesis and osteogenesis in Rat calvarial defect, **European Chapter Meeting of the Tissue Engineering and Regenerative Medicine International Society,** June 2017, Davos, Switzerland.

- Kamali A, Oryan A, Baghaban Eslaminejad MR, **Hossieni S**, Moshiri A. Osteoinductive porous scaffolds pre-seeded with mesenchymal stem cells enhance healing of critical-sized radial bone defects in rats. **Stem Cells and Regenerative Medicine Congress**, April 2017, Mashhad, Iran

- **Hosseini S,** Naderi-Manesh H, Faghihi S. "The effect of biomimetic apatite nanocrystal on osteogenic activity of osteoblast like cells", **5th International Conference on the Nano-Structures,** March 2014, Kish Island, Iran.

- **Hosseini S,** Naderi-Manesh H, Mountassif D, Cerruti M, Vali H, Faghihi S. "The effect of osteocalcin derived peptides on the apatite nanocrystal formation", **3rd International Conference on Nanotechnology**: Fundamentals and Applications, August 2012, Montreal, Canada.

- **Hosseini S**, Naderi Gh, Naderi-Manesh H, Hassani L, Hadizade shirazi N, Ranjbar B. "Comparative structural study of Calmodulin and ApoCalmodulin purified from bovine brain", **14th National and 2nd International Conference of Biology**, August 2006, Tehran, Iran.

- **Hosseini S,** Khalife k**,** Hassani L, Hadizade Shirazi N, Ranjbar B. "Kinetics and thermodynamics study of hemoglobin refolding in the presence of α-dioxime derivatives"**, 7th Iranian Biophysical Chemistry Conference**, July 2006, Tabriz, Iran

- **Hosseini S,** Hassani L, Khalife K, Ranjbar B. "Comparative structural study of hemoglobin and Apo-hemoglobin upon α-dioxime derivatives", **13th Iranian Biology Conference and 1st International Conference of Biology**, August 2005, Rasht, Iran