

Curriculum Vita

Surname: Hashemi

First Name: Seyedeh Sara

Current Position: Assistant Professor of Histology

Affiliation:

Burn and Wound Healing Research Centre

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Personals:

Date of Birth: April 6, 1978

Place of Birth: Fasa, Iran

Residency: Shiraz, Iran

Marital status: Married

Child: 2



Educational Background

2008- 2012: **Ph.D.** in Comparative Histology, Shiraz University- Shiraz- Iran

2003-2005: **M.Sc.** in Physiology, Faculty of Sciences, Shiraz University, Shiraz, Iran.

1998-2002: **B.Sc.** in General Biology, Faculty of Sciences, Tabriz University-Tabriz. Iran.

Employment

2013- Present **Assistant Professor and Academic Member of Shiraz University of Medical Sciences (SUMS) – Shiraz- Iran.**

Fellowships

- *Research fellowship, Shiraz University of Medical Sciences, Shiraz, Iran, 2015*
- *E-learning fellowship, Shiraz University of Medical Sciences, Shiraz, Iran. April to September 2016*
- *Medical education fellowship, Shiraz University of Medical Sciences, Shiraz, Iran. from November to December 2016*

Occupations

- *Assistant professor of Burn and Wound Healing Research Centre, Shiraz University of Medical Sciences, Shiraz, Iran (2013-now).*
- *Research Manager in Burn and Wound Healing Research Center, Shiraz University of Medical Sciences, Shiraz, Iran (2015-now).*
- *Head of the Cell Culture Lab. In Research Center Tower Prophet Mohammad, Shiraz University of Medical Sciences, Shiraz, Iran (2015-now).*
- *Head of the Cell Culture & Skin Tissue Engineering Lab. in Burn and Wound Healing Research Center, Shiraz University of Medical Sciences, Shiraz, Iran (2013-now).*
- *Scientific Secretary 1th National Burn and Wound Congresses. 26 May. 2016, Shiraz University of Medical Sciences, Shiraz, Iran (2016).*

Honorary Activities

1. *Editorial board member of World Journal of Plastic Surgery (WJPS)*
2. *Reviewer of:*

A. *Iranian Journal of Basic Medical Sciences (IJBMS).*

B. *Journal of Cosmetic Dermatology.*

Grants

1. *NIMAD: The healing effect of Wharton Jelly mesenchymal stem cells labeled with iron dextran nanoparticle together with Acellular dermal matrix (ADM) scaffold in treatment of burn injuries: Biomechanical, histological, SEM, MRI, and molecular analysis Proposal No:963474.*

2. NIMAD: Polysaccharide/protein nanofibrous scaffold loaded with healing/antimicrobial agent with stabilized structure in aqueous media for skin regeneration. Proposal No: 964399.

Book Chapter

Multiple Emulsions – Emulsion-based Systems for Delivery of Food Active Compounds: Formation, Application, Health and Safety- Chapter 4. Multiple emulsions- Publisher: John Wiley & Sons, Ltd (2018).

Articles

1. Jelodar G.A., **Hashemi S.S.**, Bahaodini A.A., Rafati A.R. Use of rat estrus serum for in vitro maturation of bovine oocyte. *Journal of Shaeed Sdoughi University of Medical Sciences Yazd*, 15(1), (2007).
2. khaksar Z, Tajali M, **Hashemi SS.** Effects of Juglans Regia Leaves Ethanolic Extract on Changes of Spinal Cord Lumbo-Sacral Region in Diabetic Rats Fetus. *Armaghane-danesh*, 17(5), (2012).
3. Rafati A.R., **Hashemi S.S.**, Koochi Hosseinabadi O. Effects of cinnamon extract on Cerebellum Histomorphometry in diabetic rats fetus. *Armaghane-danesh*, 18(6), (2013).
4. **Hashemi S.S.**, Jelodar G.A., Rafati A.R. The Effects of Fluoxetine on cortisol and thyroid hormone levels in rats. *Arak Medical University Journal*, 17(2), (2014).
5. **Hashemi S.S.**, khaksar Z., Tajali M. Morphometric Study of the effect of Walnut (*Juglans regia*) leaf extract on **Cerebrum** malformation in fetuses of diabetic rats. *Journal of Chemical and Pharmaceutical Research*, 7(2):441-445, (2015).
6. **Hashemi S.S.**, khaksar Z., Morphometric Study of the effect of Walnut (*Juglans regia*) leaf extract on **Cerebellum** malformation in **off springs** of diabetic rats. *Biomedical & Pharmacology Journal*, 8 (1): 467-475, (2015).
7. **Hashemi S.S.**, Rafati A.R. Effects of Different Concentrations of Serums on In Vitro Maturation of Bovine Oocytes. *BIOSCIENCES BIOTECHNOLOGY RESEARCH ASIA*, 12(2), (2015).

8. Zare D., Jelodar G.A., **Hashemi S.S.** Effect of radiation leakage caused by the microwave oven on the number and viability of sperm mature and immature male rats. *Journal of Shahrekord University of Medical Sciences (J Shahrekord Univ Med Sci)*, 18 (2): 100-108, (2016).
9. **Hashemi S.S.**, Rafati A.R. Anti-diabetic effect of Cinnamomum zeylanicum Extract in the cerebrum histomorphometry in old fetus diabetic rats. *Der Pharma Chemica*, 8(12):68-73, (2016).
10. **Hashemi S.S.**, Servatkah M. The in vitro effect of different cord blood Platelet Rich Plasma Concentrations on proliferation of dermal fibroblasts. *BIOSCIENCES BIOTECHNOLOGY RESEARCH ASIA*. **13(8)**, (2016).
11. **Hashemi S.S.**, Rafati A.R. Comparison between human cord blood serum and platelet-rich plasma supplementation for Human Wharton's Jelly Stem Cells and dermal fibroblasts culture. *International Journal of Medical Research & Health Sciences*. **5 (8)**, (2016).
12. Hoveidi E., Kohan L., **Hashemi S.S.** Association between mir-143 rs41291957 and rs4705342 Genetic Variants with risk endometriosis in pregnant women. *Feyz Journal of Kashan University of Medical Sciences*. **20 (5)**, (2016).
13. Heidar panah S., Kohan L., **Hashemi S.S.** The relationship between FAS gene rs1800682 polymorphisms and susceptibility to polycystic ovary syndrome. *Arak Medical University Journal*. **19(115): 9-16**, (2016).
14. **Hashemi S.S.**, Mahmoodi M., Rafati A.R. Comparison between human adult and umbilical cord blood platelet-rich plasma on proliferation and migration on human skin fibroblast. *World Journal of Plastic Surgery (WJPS)* **6(2)**, (2017).
15. Nikmaram N., Roohinejad Sh., **Hashemi S.S.**, Koubaa M., Barba F.J., Abbaspourrad A.R., Greiner R., Emulsion-based systems for fabrication of electrospun nanofibers: Food, pharmaceutical and biomedical applications. *RSC Adv.*, (2017).
16. Mohtasham Amiri Z., Tanideh N., Seddighi A., Mokhtari M., Amini M., Shakouri Partovi A., Manafi A., **Hashemi S.S.**, Mehrabani D. The Effect of Lithospermum officinale, Silver Sulfadiazine and Alpha Ointments in Healing of Burn Wound Injuries in Rat. *World Journal of Plastic Surgery (WJPS)* **6(3)**, (2017).
17. Poorfath MR., Behbahani B., **Hashemi S.S.**, Derakhshanfar A. Monitoring Wound Healing of Burned Rats Using Mesenchymal Stem Cells containing cGFP integrated by Lentiviral Vectors. *Iranian Journal of Basic Medical Sciences (IJBMS)* **21(1)**, (2018).

18. **Hashemi S.S.**, Jowkar S., Mahmoodi M., Rafati A.R, Mehrabani D. *Biochemical Methods in Production of Three-Dimensional Scaffold from Human Skin: A New Window in Aesthetic Surgery. World Journal of Plastic Surgery (WJPS).* 7(1), (2018).
19. **Hashemi S.S.**, Rajabi S.S., Mahmoudi R., Ghanbari A., Jafari Barmak M. *Study of the effect of hyaluronic acid on the behavior of skin fibroblasts cultured on chitosan scaffold. Armaghane danesh.* 23 (2), (2018).
20. Amini M., Zare A., Sobhani Z., **Hashemi S.S.**, Vafa L. *The Effect of Laparoscopic Sleeve Gastrectomy on Serum Iron Level. International Journal of Nutrition Sciences* 3 (4), (2018).
21. Sobhanian P., Khorram M., **Hashemi S.S.**, Mohammadi A.A. *Development of nanofibrous collagen-grafted poly (vinyl alcohol)/gelatin/alginate scaffolds as potential skin substitute. International Journal of Biological Macromolecules.* 130(1), (2019).
22. **Hashemi S.S.**, Kabirib H., Mohammadi A.A., Hashem poor M.R., Amini M., Zardoshta M. *The healing effect of Wharton's jelly stem cells seeded on biological scaffold in chronic skin ulcers: A randomized clinical trial. Journal of Cosmetic Dermatology.* (2019).
23. Derakhshanfar A, Moayedi J, **Hashemi SS**, Vahedi M, Valizadeh A. *Comparative study on the effects of heated brass bar and scald methods in experimental skin burn in rat. Comparative Clinical Pathology.* 2019:1-5.
24. Derakhshanfar A., **Hashemi S.S.**, Moayedi JA. *Study on the effects of Perovskia abrotanoides karel on experimental skin burn in male rat: in-vivo and in-vitro findings. Journal of Zanzan University of Medical Sciences. (In press).*
25. **Hashemi S.S.**, Poorfath MR., Derakhshanfar A. Behbahani B. *The role of labeled cell therapy with and without scaffold in early excision burn wounds in animal model of rat. Iranian Journal of Basic Medical Sciences. (In press).*
26. **Hashemi S.S.**, Mahmoodi M., Tohidinik H.R., Mohammadi A. A. *Epidemiology and LA50 of Burn in Children in Shiraz, Southern Iran. World Journal of Plastic Surgery (WJPS). (In press).*
27. Manafi A., Hamed S.Z., D. Mehrabani D., **Hashemi S.S.**, Seddighi A., Tanideh N., Mokhtari M., Amini M., *Comparison of the effects of Hypericum perforatum, silver sulfadiazine and alpha burn ointments in healing of burn wounds. International Journal of Surgery. (Under review).*

28. Sheikhi F., Khorram M., **Hashemi S.S.**, Mohammadi A.A. Preparation and characterization of Polycaprolactone-based nanofibrous scaffold grafted with collagen for skin tissue engineering. *Tissue Engineering and Regenerative Medicine* (Under review)
29. Amini M., Kheradmand E., Zare A., Tabatabai Naini S. A., **Hashemi S.S.**, Mehrabani D. Evaluation of Fundectomy Together with One Anastomosis Gastric Bypass in Weight Change and Serum Ghrelin and Leptin Levels. **OBESITY SURGERY**. (Under review).
30. **Hashemi S.S.**, Sedigh M., Kohan L., Kavoshi A., Rafati A.R, Mehrabani D. The effect of conditioned media from human Wharton's jelly stem cells on human fibroblast cells: miRNA-21 and wound healing. **Dermatologica Sinica (DSI)**. (Under review).
31. **Hashemi S.S.**, Mahmoodi M., Tamadon GH. Studying the effect of cord blood Platelet Rich Plasma (PRP) on expression of miRNA21 and miRNA 146a in fibroblast cells. **Journal of Cosmetic Dermatology**. (Under review).
32. **Hashemi S.S.**, Sanatgar M., Kohan L., Mahmoodi M., Chenari S. The effect of released growth factors from Mesenchymal Stem Cells on induction of miR146a and miR203 expression in Keratinocytes. **Archives of Dermatological Research**. (Under review).

Congresses

1. **Hashemi S.S.**, Jelodar GH., Rafati A.R. Effect of Fetal Bovine Serum (FBS) and Rat estrus serum (RSS) on in Vitro Maturation of Bovine Oocytes. 17th Iranian Congresses of Physiology and Pharmacology, 1-4 oct.2005, Kerman, Iran.
2. **Hashemi S.S.**, Jelodar, G.H., Rafati A.R. Effect of season on cattle ovarian activity and oocyte recovery based on slaughtered animals.6th Congres Iranian Veterinary Medicine Students, 9-11 Sep. 2005, Mashhad, Iran.
3. **Hashemi S.S.**, Jelodar G.H. Study Effects of five different plants on learning and memory.14th Iranian Congresses of Biology, 23-25 Aug. 2005, Guilan, Iran.
4. Rafati A.R., **Hashemi S.S.** Effect of different concentrations of Estrous Sheep Serum and Rat Estrous Serum on Bovine oocytes In Vitro Maturation. 35th European Congress of Cytology, 27-30 Sep., 2009, Lisbon-Portugal.
5. Jelodar GH., **Hashemi S.S.** The Effects of Fluoxetine on cortisol and thyroid hormone levels and Weight variations in rats. 20th Iranian Congresses of Physiology and Pharmacology, 10-14 Oct.2011, Hamedan, Iran.

6. **Hashemi S.S., Rafati A.R.** *Effect of maternal diabetes in newborn sex determination.* 20th Iranian Congresses of Physiology and Pharmacology, 10-14 Oct. 2011, Hamedan, Iran.
7. **Hashemi S.S., khaksar Z., Tajali M.** *Effects of Juglans regia leaves ethanolic extract on changes in the brachial enlargement of the spinal cord in 18 days old fetus diabetic rats.* 21th International Iranian Congresses of Physiology and Pharmacology, 23-27 Aug. 2013, Tabriz, Iran.
8. **Hashemi S.S., khaksar Z., Tajali M.** *Effects of Juglans regia leaves ethanolic extract on changes in the cerebrum in 18 days old fetus diabetic rats.* 21th International Iranian Congresses of Physiology and Pharmacology, 23-27 Aug. 2013, Tabriz, Iran.
9. **Hashemi S.S., Mohamadi A.A., Amini M., Parvin F.** *Human Umbilical Cord Wharton's Jelly Stem Cells Cultured on amniotic scaffolds in Chronic Wound Healing.* Wound and Tissue repair Congresses, 24-26 Sep. 2014, Tehran, Iran.
10. **Hashemi S.S., khaksar Z., Tajali M.** *Effects of Juglans regia leaves ethanolic extract on changes in the cerebellum in old fetus diabetic rats.* 3th Basic and Clinical Neuroscience Congresses, 29-31 Oct. 2014, Tehran, Iran.
11. Poorfath MR., Salehi S., Behzad Behbahani A., **Hashemi S.S.** *Construction of lentiviral vector of GFP gene to follow the umbilical cord mesenchymal stem cells.* 4th National Burn Congresses, 25-26 Feb. 2015, Tehran, Iran. (premier **article**)
12. **Hashemi S.S., Servatkah M.** *Effect of platelet-rich plasma on human fibroblast cell migration during wound healing burns.* 4th National Burn Congresses, 25-26 Feb. 2015, Tehran, Iran.
13. **Hashemi S.S.** *Epidemiology of burns and LA50 in children admitted in Fars.* 4th National Burn Congresses, 25-26 Feb. 2015, Tehran, Iran.
14. Afrasiabi Z., Zardosht M., Mohamadi A.A., Kherad M., Zardosht Z., **Hashemi S.S.** *Study of Epidemiology and Pathology hospitalization burn patients with addiction.* Annual International Addiction Science Congress. 9-11 Sep. 2015, Tehran, Iran.
15. Hoveidi E., Kohan L., **Hashemi S.S.** *Association between mir-143 rs41291957 gene polymorphism and the risk endometriosis.* International Congress on reproduction (ISERB 2015). 23-25 May, 2015, Tehran, Iran.
16. **Hashemi S.S., Rostami O., Jowkar S.** *Preparation of human 3D skin matrix and investigation of the interaction between Wharton's jelly mesenchymal stem cells and*

prepared matrix. 5th National Burn Congresses, 24-25Feb. 2016, Tehran, Iran. (premier article)

17. **Hashemi S.S.**, Jowkar S., Rostami O. *Comparison of different Biochemical Methods for preparation of human skin Three-Dimensional Models for use cell scaffolds. 5th National Burn Congresses, 24-25 Feb. 2016, Tehran, Iran.*
18. **Hashemi S.S.**, Poorfath MR., Behbahani B. *Tracking of Mesenchymal Stem Cells in Burned Rats Using cGFP Containing Lentiviral Vectors. 5th National Burn Congresses, 24-25 Feb. 2016, Tehran, Iran.*
19. **Hashemi SS.**, Mohammadi A.A., Mahmoodi M., TohidiNik HR., Afrasiabi Z., Zardosht M., Kashvarzi A. *Improvement of LA50 among hospitalized children in Ghotbedin-Shirazi burn hospital during 2010 to 2014. 5th National Burn Congresses, 24-25 Feb. 2016, Tehran, Iran.*
20. **Hashemi S.S.**, Mohammadi A.A., Mahmoodi M., TohidiNik HR., Afrasiabi Z., Zardosht M., Kashvarzi A. *Epidemiologically research about educational level among hospitalized patients in Ghotbedin-Shirazi burn hospital during 2009 to 2015. 5th National Burn Congresses, 24-25 Feb. 2016, Tehran, Iran.*
21. TohidiNik HR., Mohammadi A.A., Afrasiabi Z., Poorfath MR., Kashvarzi A., Zardosht M., **Hashemi SS.** *Determinants of death following woman burn injury in Ghotbedin-Shirazi burn hospital. 5th National Burn Congresses, 24-25 Feb. 2016, Tehran, Iran.*
22. **Hashemi S.S.**, Rafati A.R., *Anti-diabetic effect of Cinnamon Extract in the cerebrum histomorphometry in old fetus diabetic rats. The 1st National Congress on Animal Models in Experimental Researchs.14 Apr. 2016, Shiraz, Iran.*
23. **Hashemi S.S.**, Rafati A.R., *Study of the brachial spinal cord region in diabetic rat's fetus changes under the influence of aqueous cinnamon extract. The 1st National Congress on Animal Models in Experimental Researchs.14 Apr. 2016, Shiraz, Iran.*
24. **Hashemi S.S.**, Behrooz S., Soltanirad M.N., Parsaseresht sh. *Antibacterial properties of Chitosan and Aloe Vera composite scaffolds for Wound Healing. 1th National Burn and Wound Congresses. 26 May. 2016, Shiraz, Iran.*
25. Behrooz S., Soltanirad M.N., Parsaseresht sh. **Hashemi S.S.**, *Antibacterial properties of Chitosan and ZnO₂ composite scaffolds for Skin Tissue Engineering and Wound Healing. 1th National Burn and Wound Congresses. 26 May. 2016, Shiraz, Iran.*

26. **Hashemi S.S., Sanatgar M.** *Effect of The Wharton's Jelly mesenchymal stem cells supernatant on expression of miR- 203 in keratinocytes. 1th National Burn and Wound Congresses. 26 May. 2016, Shiraz, Iran.*
27. **Sedigh M., Hashemi S.S.** *Study of miR- 146_a expression on human skin fibroblasts under the influence mesenchymal stem cells. 1th National Burn and Wound Congresses. 26 May. 2016, Shiraz, Iran.*
28. **Hashemi S.S., Mahmoodi M., Tamadon GH.** *Studying the effect of Platelet Rich Plasma (PRP) on expression of miRNA21 and miRNA 146a in fibroblast cells. 3th Iranian congress on progress in tissue engineering and regenerative medicine, 19-21 Oct. 2016, Tehran, Iran.*
29. **Hashemi S.S., Sedigh M.** *The effect of mesenchymal stem cells on the expression level of miR-146a and miR-21 in human fibroblast cells. 3th Iranian congress on progress in tissue engineering and regenerative medicine, 19-21 Oct. 2016, Tehran, Iran.*
30. **Hashemi S.S., Mahmoodi M.** *Real-time PCR analysis of expression induction of miR-21 and miR-146a after treatment with cord blood PRP. 3th Iranian congress on progress in tissue engineering and regenerative medicine, 19-21 Oct. 2016, Tehran, Iran.*
31. **Hashemi S.S., Bakhshandeh S.** *Effect of fraxinus excelsior extracts on proliferation and migration of human skin fibroblast. 6th National Burn Congresses, 22-23 Feb. 2017, Mashhad, Iran.*
32. **Hashemi S.S., Damyar F.** *Effects of the aqueous extract of winter cherry fruits (Physalis alkekengi) on proliferation and migration of human skin fibroblast. 6th National Burn Congresses, 22-23 Feb. 2017, Mashhad, Iran.*
33. **Hashemi S.S., Mohammadi A.A.** *The effect of Human Umbilical Cord Wharton's Jelly Stem Cells Cultured on amniotic membrane in Chronic Wound Healing (Clinical control randomize trial). 2nd International Congress on Stem Cell and Regenerative Medicine, 13-15 July 2017, Tehran, Iran.*
34. **Hashemi S.S., Rafati A.R.** *Evaluation of Mesenchymal Stem Cells Cultured on Nanofibrous Scaffolds for Skin Tissue Engineering and Wound Healing. 2nd International Congress on Wound and Tissue Repaire, 25-27 Oct. 2017, Tehran, Iran.*

35. **Hashemi S.S.**, Mohammadi A.A. *Effect of co-cultured mesenchymal stem cells and fibroblast cells Cultured on amniotic membrane scaffold in Chronic Wound Healing (Clinical control randomize trial). 7th National Burn Congresses, 3-4 March 2018, Tehran, Iran.*
36. **Hashemi S.S.**, Rafati A.R., Hamidizadeh N. *Determination of the best mixing ratio of co-cultured primary melanocyte and keratinocyte cells in the re pigmentation of induced vitiligo in mouse skin. 7th National Burn Congresses, 3-4 March 2018, Tehran, Iran.*
37. **Hashemi S.S.**, Rajabi S.S., Jafari Barmak M. *The behavior of skin fibroblast cells on three dimensional electrospun scaffold. 7th National Burn Congresses, 3-4 March 2018, Tehran, Iran.*
38. Nasiri Kaftarak M., Sameni S., **Hashemi S.S.** *GC-MS Analysis of Propolis Samples from Fars, Iran. National Bee products Congresses, 24-25 April 2018, Esfahan, Iran.*
39. Rasouli S., **Hashemi S.S.** Sameni S. *Investigation of the Wound Healing Effect of Royal Jelly in Mouse. National Bee products Congresses, 24-25 April 2018, Esfahan, Iran.*
40. Nasiri Kaftarak M., Sameni S., **Hashemi S.S.** *Study of Biochemical Composition of Propolis from South of Iran. 3th National Conference on Protein & Peptide Sciences. 25-26 April 2018, Shiraz, Iran.*
41. Nasiri Kaftarak M., Sameni S., **Hashemi S.S.** *Comparison of the Wound Healing Activity of Hydro-alcoholic Extract of Propolis with Those of Mesenchymal Stem Cells in Mouse. 6th International Congress of Biochemistry and Molecular Biology (ICBMB 2018), 25-26 August, Esfahan, Iran.*
42. Zahiri Z., Sameni S., **Hashemi S.S.** *Relationship between Serum Level of Zinc with Caspase 3 and BAX in Patients with Type 2 Diabetes. 6th International Congress of Biochemistry and Molecular Biology and the 15th Iranian National Congress of Biochemistry (ICBMB 2018), 25-26 August, Esfahan, Iran.*
43. Hasanzade F., sameni S., **Hashemi S.S.**, jafary H., *Evaluation of the effect of type 2 diabetic serum on malondialdehyde, superoxidedismutase and catalase activity in HDF cancer cell line compared to normal human fibroblast cells. 2rd International Biomedical Congress of Iran. 24-27 December 2018, Tehran, Iran.*

44. Zahiri Z., Sameni S., **Hashemi S.S.** Type-2 diabetic serum effects on the growth and cell survival of cancer cells. 2nd International Biomedical Congress of Iran. 24-27 December 2018, Tehran, Iran.
45. Dehghanian N., **Hashemi S.S.**, Rafati A.R., Sameni S. Biochemical study of bee venom from fars province and its effects on the wound healing and cell adhesion of human fibroblast cells. 2nd International Biomedical Congress of Iran. 24-27 December 2018, Tehran, Iran.
46. Armin Amirsadeghi, Arman Jafari, **Seyedeh-Sara Hashemi**, Mohammad Khorram. A review on Skin tissue engineering, challenges and opportunities. 3rd International & 8th National Burn Congress. 28th Februray & 1st March 2019, Shiraz, Iran.
47. **Hashemi, SS**, Karimi, Z. , Kargare, E. Rahimi Jaberi, K.H. Therapeutic effect of mesenchymal stem cells on acute kidney injury induced by bilateral ischemic reperfusion in rats. 3rd International & 8th National Burn Congress. 28th Februray & 1st March 2019, Shiraz, Iran.
48. Karimi, Z. **Hashemi, SS**. Chenari, S. Therapeutic role of mesenchymal stem cells on acute lung injury induced acute kidney injury by bilateral nephrectomy in rats .3rd International & 8th National Burn Congress. 28th Februray & 1st March 2019, Shiraz, Iran.
49. Rafati A.R., **Hashemi S.S.**, Rajabi S.S. Artificial skin substitute made using Propolis and evaluation of fibroblast adhesion and cell viability. 3rd International & 8th National Burn Congress. 28th Februray & 1st March 2019, Shiraz, Iran.

Teaching Experiences

- Teaching theoretical and practical Histology, Embryology, Physiology, Anatomy and Cell and Molecular biology, Isolation and culture of keratinocytes, mesenchymal and embryonic stem cells, Cell Culture and Animal Modeling held in Stem Cell and burn and wound healing Research Center, Department of Nanotechnology and tissue engineering, School of Medicine, Fasa University of Medical Sciences, Shiraz University of Medical Sciences, Jahroom Islamic Azad University, Iran.

Ongoing Researches

Currently working as the head of Cell Culture and Skin Tissue Engineering Research Group at Burn and Wound Healing Research Center

The main goals of the projects undertaken are:

- *Cell therapy in chronic skin ulcers patients: Autologous fibroblast cell and Allogenic stem cell therapy*
- *Cell therapy in vitiligo patients: Autologous grafting with melanocytes and keratinocytes suspension for treatment of depigmented lesion collaboration with Molecular Dermatology Research Center is in progress*
- *Production of artificial skin substitutes in burns and chronic wound treatment*
- *Investigation of biomaterials and Nanotherapeutics for Enhancing Skin Wound Healing*
- *Isolation and characterization of mesenchymal stem cells in order to study the differentiation potentials*
- *Assessment of In-vitro proliferation and migration activity*

Holding and Teaching at the workshops

1 .Holding and teaching at more than 15 workshops on " Principles of working with laboratory animals", faculty members and post graduate students, Medical and other universities around the county. 2015-now

2 .Holding and teaching at more than 8 Workshop on "Cell Culture, basics and applications", for faculty members and/or post graduate students, Medical and other universities around the county. 2014-now

Holding and teaching at more than 8 Workshop on "Fibroblast Cell Culture", for graduate and post graduate students, Medical and other universities around the county. 2014-now

3 .Holding and teaching at more than 6 workshops on "PCR and Primer Design", for graduate and post graduate students, Medical and other universities around the county. 2015-now

4 .Holding and teaching at more than 6 Workshop on "Electrophoresis", for graduate and post graduate students, Medical and other universities around the county. 2015-now

Technical Expertise

Animal modeling

- *Ulcerative colitis*
- *Osteoarthritis*
- *Burn*
- *Tendon and ligament injuries*
- *Cancer*
- *Myocardial infarction*
- *Diabetes*
- *atherosclerosis*
- *Spinal cord injury*
- *MS*

Histology

- *H&E*
- *specific stainings*

Molecular

- *PCR*
- *RT-PCR*
- *Real time PCR*
- *Gel electrophoresis*
- *ICC*
- *IHC*
- *WB*
- *ELISA*
- *Spectrophotometry*
- *Flowcytometry*
- *Electroporation*
- *Pronucleus injection*
- *Injection of gene-targeted ESCs into blastocyst*
- *Nanodrug delivery*

Cell culture

- *Hematopoietic stem cell culture*
- *Mesenchymal stem cell culture*
- *Embryonic stem cell culture*

- *Embryonic fibroblast culture*
- *Fibroblast culture*
- *Melanocyte culture*
- *Keratinocyte culture*
- *Astrocyte culture*
- *Microglia culture*
- *Oligodendrocyte culture*

Statistical analysis

- *SPPS software*
- *Endnote software*
- *Excel*