

# In The Name of God

## Curriculum vitae



**Seyedeh-Leili Asadi-Yousefabad**

**Surname:** Asadi-Yousefabad

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### **PERSONAL INFORMATION:**

**Nationality:** Iranian

**Marital Status:** married

**Child:** 2

### **EDUCATION:**

**2022:** Ph.D. in Molecular Medicine, School of Medicine, School of Medicine, Shahid Sadoughi University of Medical Sciences, Yazd, Iran (with a general average of 19.22 out of 20).

**2014:** Doctor of Veterinary Medicine (DVM), School of Veterinary Medicine, Shiraz University, Shiraz, Iran (with a general average of 16.46 out of 20).

**PhD thesis Title:** Evaluation the effect of adipose-derived mesenchymal stem cells transduced with the lentivirus vector containing microRNA stimulator angiogenesis in ischemic tissue in diabetic mouse model

**DVM thesis Title:** Isolation and characterization of mesenchymal stem cells derived from bone marrow in dog

## **DISTINCTION, HONORS AND AWARDS:**

- Top student throughout the Ph.D. course
- Second Rank in the 2nd Biostartup event of Yazd (2017)
- First Rank in the student festival of Shiraz University Alumni Association (2013)
- First Rank in the 4<sup>th</sup> Movement Festival of the Scientific Association in Shiraz University (2013)
- First Rank in the 3<sup>th</sup> Movement Festival of the Scientific Association in Shiraz University (2012)
- First Rank in the pre-internship exam of the Faculty of Veterinary Medicine of Shiraz University (2012)

## **PROFESSIONAL SKILLS:**

- RNA-Seq data analysis
- DNA-Seq data analysis
- Data Analysis with R Programming
- Cancer Genomics and Bioinformatics
- Isolation and cultivation of MSCs from different sources
- Differentiation of MSCs
- Flow cytometric analysis
- Cloning of microRNA into vector
- Competent cell preparation
- Recombinant Lentivirus production
- MTT assay
- Viral titration
- MSCs transduction
- Transduction efficiency
- Stable cell line production
- Determination of MOI
- Wound healing assay (Scratch assay)
- Animal modeling
- Animal medical science
- RNA and DNA isolation
- PCR, RT-PCR, Real time PCR
- Electrophoresis
- Primer design
- Animal behavioral tests (Tarlove, Function, Ishemia, ...)
- Microbial cultures related to bio-implant

## **OTHER SKILLS:**

- Computer skills;
  - R software
  - Python software
  - ImageJ software
  - FlowJo software
  - EndNote referencing software
  - Primer designing software: Gene Runner, Oligo7
  - Microsoft Office (Word, Excel, Power Point)
  
- Languages;
  - Farsi, Native
  - English

## **WORKSHOP:**

- "Isolation and culture of Mesenchymal Stem Cells from bone marrow", Shiraz University of Medical Sciences (April 2012).
- "Isolation and culture of MEF- culture of Embryonic Stem Cells", Shiraz University of Medical Sciences (May 2012).
- "Work with laboratory animals", Shahid Sadoughi University of Medical Sciences (2017).
- "Course in clinical genomics and NGS" at the ESGM remote training center in Yazd, Iran (May 2017).
- "Reproductive Technologies in IVF", Shiraz University of Medical Sciences (September 2012).
- "Fluorescence Microscopy", Shiraz University Central Laboratory (March 2018).
- END NOTE, Shiraz University (2011).
- Participation in Educational Workshop "How to write articles" Shiraz University (2011).
- Participation in Educational Workshop "How to publish articles" Shahid Sadoughi University of Medical Sciences, Yazd (April 2017).
- Participation in Educational Workshop "Realtime PCR and data analysis" Shiraz University of Medical Sciences, Shiraz (January 2020).
- "Familiarity with common biochemical tests in medical diagnosis" Shiraz University (2012).
- Participation in Educational Workshop "Laparoscopy workshop" Shiraz University (2012).
- Participation in Educational Workshop "Electron microscope" Shiraz University (2012).

- Participation in Educational Workshop "Graphpad Prism" Shiraz University (2012).
- Participation in Educational Workshop "Application of ICT in education" Shiraz University (2012).
- Participation in Educational Workshop "Prezi software" Shahid Sadoughi University of Medical Sciences, Yazd (May 2018).
- Participation in Educational Workshop "Microarray data analysis" Isfahan University of Medical Sciences (December 2016).

## **RESEARCH PROJECT:**

- Evaluation the effect of adipose-derived mesenchymal stem cells transduced with the lentivirus vector containing microRNA stimulator angiogenesis in ischemic tissue in diabetic mouse model (Shiraz University of Medical Sciences).
- Reinforcement of Mesenchymal Stem Cells by using of MicroRNAs and investigating their effects on Critical Limb Ischemia (CLI) model improvement (Shiraz University of Medical Sciences).
- Genetically modified bone marrow mesenchymal stem cells and Dental Pulp mesenchymal stem cells by HIF- 1 $\alpha$  overexpression, differs in survival and angiogenic effects in animal model of Hindlimb ischemia (Shiraz University of Medical Sciences)
- Investigating the effect of Tarem Moulai transgenic rice consumption on the health of rats (Shahid Sadoughi University of Medical Sciences).
- Evaluation of the regenerative and regulatory effect of bone marrow mesenchymal stem cells in allogeneic liver transplantation in dogs (Shiraz University of Medical Sciences).
- Evaluation of RFRP-3 mRNA expression in hypothalamus of lactating rat (Shiraz University of Medical Sciences).
- Effect of litter size and suckling intensity on expression of KiSS-1 mRNA in hypothalamic neurons of lactating rat (Shiraz University of Medical Sciences).
- Expression of KiSS-1 and RFRP-3 genes in the rat hypothalamus during the estrous cycle (Shiraz University of Medical Sciences).
- Isolation and characterization of mesenchymal stem cells derived from bone marrow in dog (Shiraz University).
- The use of medicinal plants as an anti-coccidial additive and improving yield in broilers (Shiraz University).
- Comparison Effects of oral and enema forms of hydroalcoholic marigold extract on improvement of induced ulcerative colitis and antioxidant markers in male rats (Shiraz University of Medical Sciences).

## PUBLICATIONS:

### Articles

1. **Asadi-Yousefabad SL**, Nammian P, Tabei SM, Daneshi S, Fallahi J, Razban V, Sheikhha MH. Angiogenesis in diabetic mouse model with critical limb ischemia; cell and gene therapy. *Microvascular Research*. 2022 May 1;141:104339.
2. **Asadi-Yousefabad SL**, Nammian P, Sheikhha MH, Tabei SM, Daneshi S, Nikukar H, Lotfi M, Razban V. Comparative study of mouse adipose-and bone marrow mesenchymal stem cells in diabetic model with critical limb ischemia. *Cell and Tissue Banking*. 2022 May 19:1-4.
3. Nammian P, **Asadi-Yousefabad SL**, Daneshi S, Sheikhha MH, Tabei SM, Razban V. Comparative analysis of mouse bone marrow and adipose tissue mesenchymal stem cells for critical limb ischemia cell therapy. *Stem Cell Research & Therapy*. 2021 Dec;12(1):1-5.
4. Hajimohammadi B, Eslami G, Zandi H, Ehrampoush MH, Naimi A, Derakhshan M, Hedayat P, Fallahi R, ..., **Asadi-Yousefabad SL**, ... Safety assessment of genetically modified rice expressing Cry1Ab protein in Sprague–Dawley rats. *Scientific Reports*. 2021 Jan 13;11(1):1-9.
5. Nammian P, Razban V, Tabei S, **Asadi-Yousefabad SL**. MicroRNA-126: Dual role in angiogenesis dependent diseases. *Current pharmaceutical design*. 2020 Oct 1;26(38):4883-93.
6. Maddah R, Goodarzi V, **Asadi-Yousefabad SL**, Abbasluo M, Shariati P, Kafraj AS. Evaluation of the gut microbiome associated with COVID-19. *Informatics in Medicine Unlocked*. 2023 Apr 3:101239.
7. Ghanbari F, Abedpoor N, Peymani M, **Asadi-Yousefabad SL**, Lotfi M, Sheikhha MH, Mazaheri-Naeini M. Effects of the Phytocompound Combination against Dysbiosis Induced by AGE-Rich High-fat Diet in Mice. *International Journal of Medical Laboratory*. 2023 Jun 20.
8. Shirdeli M, Orlov YL, Eslami G, Hajimohammadi B, Tabikhanova LE, Ehrampoush MH, Rezvani ME, Fallahzadeh H, Zandi H, Hosseini S, **Asadi-Yousefabad SL**. Testing safety of genetically modified products of rice: case study on sprague dawley rats. *Russian Journal of Genetics*. 2019 Aug;55(8):962-8.

9. Moradi S, Fallahi J, Tanideh N, Dara M, Aliabadi BE, Nafar S, **Asadi-Yousefabad SL**, Tabei SM, Razban V. Genetically modified bone marrow mesenchymal stem cells and dental pulp mesenchymal stem cells by HIF-1alpha overexpression, differs in survival and angiogenic effects after in animal model of hind limb ischemia. *Gene Reports*. 2021 Dec 1;25:101187.
10. Tanideh N, Keshavarzi F, Zadeh AH, Daneshi S, Koohi-Hosseiniabadi O, Mokhtari M, Sedighi A, **Asadi-Yousefabad SL**. Healing Effects of Human Amniotic Membrane and Burned Wool on the Second-degree Burn in Rats. *Galen Medical Journal*. 2020;9:e1759.
11. Toneedeh N, Lashkarpour HA, Daneshchi S, **Asadi Yousefabad SL**, Koohi-Hossein Abadi O, Hosseinzadeh M, Jamshid Zadeh A, Mohammadi Samani S, Omid M. The Healing effect of *Teucrium polium* L. on Acetic Acid-Induced Colitis in Male Rat. *Armaghane danesh*. 2018 Apr 10;23(1):29-41.
12. Tanideh N, Abdordideh E, **Yousefabad SL**, Daneshi S, Hosseinabadi OK, Samani SM. Evaluation of the healing effect of honey and colostrum in treatment of cutaneous wound in rat. *Comparative Clinical Pathology*. 2017 Jan;26(1):71-7.
13. **Asadi-Yousefabad SL**, Sarvestani FS, Tamadon A, Shirazi MR, Ahmadloo S, Moghadam A, Niazi A, Moghiminasr R. Agouti-related peptide and melanocortin-4 receptor mRNAs expressions in arcuate nucleus during the pregnancy and lactation of rats. *Veterinarski arhiv*. 2015 Dec 9;85(6):689-700.
14. **Asadi-Yousefabad SL**, Khodakaram-Tafti A, Dianatpour M, Mehrabani D, Zare S, Tamadon A, Nikeghbalian S, Raayat-Jahromi A, Ahmadlou S. Genetic evaluation of bone marrow-derived mesenchymal stem cells by a modified karyotyping method. *Comparative Clinical Pathology*. 2015 Nov;24(6):1361-6.
15. Tanideh N, Jamshidzadeh A, Sepehrimanesh M, Hosseinzadeh M, Koohi-Hosseiniabadi O, Najibi A, Raam M, Daneshi S, **Asadi-Yousefabad SL**. Healing acceleration of acetic acid-induced colitis by marigold (*Calendula officinalis*) in male rats. *Saudi journal of gastroenterology: official journal of the Saudi Gastroenterology Association*. 2016 Jan;22(1):50.
16. Mehrabani D, Khodakaram-Tafti A, **Asadi-Yousefabad SL**, Dianatpour M, Zare S, Tamadon A, Nikeghbalian S, Raayat A, Ahmadlou S. Effect of age and passage on canine bone marrow derived mesenchymal stem cells. *Online Journal of Veterinary Research*. 2015 9(10): 663-71.
17. Habibi H, Firouzi S, Nili H, Razavi M, **Asadi SL**, Daneshi S. Anticoccidial effects of herbal extracts on *Eimeria tenella* infection in broiler chickens: in vitro and in vivo study. *Journal of Parasitic Diseases*. 2016 Jun;40(2):401-7.

18. **Asadi Yousefabad SL**, Tamadon A, Rahmanifar F, Jafarzadeh Shirazi MR, Sabet Sarvestani F, Tanideh N, Abli Moghadam AA, Niazi A. Lactation effect on the mRNAs expression of RFRP-3 and KiSS-1 in dorsomedial and arcuate nuclei of the rat hypothalamus. *Physiology and Pharmacology*. 2013 Oct 10;17(3):277-85.
19. Rahmanifar F, **Asadi-Yousefabad SL**, Sharafi M, Alaeddini A, Daneshi S. Effect of age and sex on histology of tunica media of brachiocephalic artery in pigeons. *Online Journal of Veterinary Research*. 2016;20(1).
20. Rahmanifar F, **Asadi-Yousefabad L**, Sharafi M. Histomorphometry of brachiocephalic artery of Iranian pigeon (*Columba livia domestica*). *Vet Scan| Online Veterinary Medical Journal*. 2013 Jan 1;7(2):122-.
21. Nammian P, **Asadi-Yousefabad SL**, Daneshi S, Fallahi J, Tabei SM, Razban V, Preclinical Evaluation of Bone Marrow Mesenchymal Stem Cells Overexpressing MicroRNA-126 to Treat Critical Limb Ischemia (*Molecular Biology Reports Journal*) (In progress)
22. Sajad Daneshi S, Tayebi L, Talaei-Khozani T, Tavanafar S, Hadaegh AH, Rasouljanboroujeni M, Rastegari B, **Asadi-Yousefabad SL**, Nammian P, Zare S, Mussin NM. Reconstructing Critical-Sized Mandibular Defects in a Rabbit Model: Enhancing Angiogenesis and Facilitating Bone Regeneration via a Cell-Loaded 3D-Printed Hydrogel–Ceramic Scaffold Application. *ACS Biomaterials Science & Engineering*. 2024 Apr 15;10(5):3316-30.
23. Khosronejad A, Arabion H, Iraj A, Mokhtarzadegan M, Daneshi SS, **Asadi-Yousefabad SL**, Zare S, Nowzari F, Abbaspour S, Akbarizadeh F, Aliabadi E. Mandibular bone defect healing using polylactic acid–nano-hydroxyapatite–gelatin scaffold loaded with hesperidin and dental pulp stem cells in rat. *Tissue and Cell*. 2025 Apr 1;93:102700.
24. Bagheri R, Daneshi SS, Bina S, Haghshenas M, Khoshnoud MJ, **Asadi-Yousefabad SL**, Khodaei F, Rashedinia M. Metformin Mitigates the Impact of Arsenic Exposure on the Maternal and Offspring Reproductive System of Female Mice. *Biological Trace Element Research*. 2025 Mar 22:1-8.
25. Haghshenas M, Daneshi SS, Hassan Nategh A, Bina S, Esmailpoor F, Bagheri R, Khoshnoud MJ, Salimi A, **Asadi-Yousefabad SL**, Rashedinia M. Sodium benzoate, potassium sorbate, and citric acid food preservatives trigger apoptosis in the Male reproductive System of rats. *BioMed Research International*. 2025;2025(1):8837003.
26. Ekrampoor MS, Daneste H, Kian M, Nowzari F, Abbaspour S, Iraj A, Mokhtarzadegan M, Daneshi SS, **Asadi-Yousefabad SL**, Zare S, Aliabadi E.

Regenerative potential of a polylactic acid/nano hydroxyapatite scaffold functionalized with fucoidan and dental pulp mesenchymal stem cells in a rat mandibular defect model. *International Journal of Biological Macromolecules*. 2026 Jan 12:150232.

### Abstracts

27. **Asadi-Yousefabad SL**, Tamadon A, Rahmanifar F, Jafarzadeh Shirazi MR, Sabet Sarvestani F, Tanideh N, Abli Moghadam AA, Niazi A. Lactation effect on the mRNA expression of RFRP-3 and KiSS-1 in dorsomedial and arcuate nuclei of the rat hypothalamus, *International journal of fertility & sterility*, Vol.5, September 2013.
28. **Asadi-Yousefabad SL**, Khodakaram-Tafti A, Mehrabani D, Zare S, Dianatpour M, Tamadon A, Nikeghbalian S, Raayat-Jahromi A, Isolation, Culture and Characterization of Canine Mesenchymal Stem Cells, *Cell journal (Yakhteh)*, Vol. 16, 2014.

### **International Presentations:**

1. **Asadi-Yousefabad SL**, Tamadon A, Rahmanifar F, Jafarzadeh Shirazi MR, Sabet Sarvestani F, Tanideh N, Abli Moghadam AA, Niazi A. Lactation effect on the mRNA expression of RFRP-3 and KiSS-1 in dorsomedial and arcuate nuclei of the rat hypothalamus, 14<sup>th</sup> Congress on Reproductive Biomedicine. September 2013.
2. **Asadi-Yousefabad SL**, Khodakaram-Tafti A, Mehrabani D, Zare S, Dianatpour M, Tamadon A, Nikeghbalian S, Raayat-Jahromi A, Isolation, Culture and Characterization of Canine Mesenchymal Stem Cells, 10<sup>th</sup> Royan International Congress on Stem Cell Biology & Technology. September 2014.