Curriculum Vitae (CV)

Assistant Prof. Farshad Moharrami Kasmaie (Ph.D.)
Department of Anatomical Sciences, School of Medicine,
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❖ Educational Background

2019-2024	Ph.D. in *Anatomical Sciences*, Department of Biology and Anatomical Sciences, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran. **Title of thesis:** The impact of curcumin loaded human amniotic membrane-derived extracellular matrix scaffold on full thickness wound healing in diabetic rat
2015-2019	M.Sc. in *Anatomical Sciences*, Department of Anatomical Sciences, School of Medicine, Gilan University of Medical Sciences, Rasht, Iran. **Title of thesis:** The comparison of Melatonin and Curcumin effect on regeneration of sciatic nerve crush injury in rats
2007-2013	B.Sc. in *General Biology*, Payam-e Noor University, Talesh, Iran.

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❖ Employment

1. Academic staff at the *"***Department of Biology and Anatomical Sciences, School of Medicine, Isfahan University of Medical Sciences**", Isfahan, Iran (Since Sep 2026).

❖ Research Interests

- ✓ Diabetic wound healing
- ✓ Peripheral nerve regeneration
- ✓ Tissue Engineering
- ✓ Regenerative Medicine

❖ Professional Skills and Experiences

- ✓ DNA extraction, PCR & RT-PCR
- ✓ Elisa test
- ✓ ICC & IHC techniques
- ✓ Stem cell isolation, cell culture & MTT assay
- ✓ Histochemistry staining
- ✓ Stereology assessments
- ✓ Biomechanical investigations
- ✓ Tissue Engineering
- ✓ Regenerative Medicine

❖ Professional Training and Qualifications

1. A workshop on "**Prospects future in aging research**", Dr. Hakimzadeh's second national aging conference, Gilan university of medical sciences, Rasht, Iran (Oct 2018).
2. The first symposium on "**Stem cell and regenerative medicine**", Gilan university of medical sciences, Rasht, Iran (Dec 2018).
3. A workshop on "**Embryology training in mice (in vitro fertilization, oocyte in vitro maturation, embryo transfer)**", Iranian medical biotechnology association, Zistbonyan-mehvar institue, Tehran, Iran (Feb 2021).

4. A workshop on "**Cytotoxicity test and MTT assay**", Iranian medical biotechnology association, Zistbonyan-mehvar institute, Tehran, Iran (Feb 2021).
5. The first national winter research school on "**An introduction to writing narrative reviews**", Mashhad university of medical sciences, The fourth international neuroinflammation congress, Mashhad, Iran (Jan 2021).
6. The first national winter research school on "**Mendeley reference manager**", Mashhad university of medical sciences, The fourth international neuroinflammation congress, Mashhad, Iran (Feb 2021).
7. The first national winter research school on "**Scientific publishing: how to submit your manuscript to a suitable journal and get it published**", Mashhad university of medical sciences, The fourth international neuroinflammation congress, Mashhad, Iran (Mar 2021).
8. A workshop on "**Amazing view of nano world FESEM**", Isfahan university of medical sciences, The international congress of biomedical sciences, Isfahan, Iran (Jan 2021).
9. A workshop on "**Real time PCR**", Isfahan university of medical sciences, The international congress of biomedical sciences, Isfahan, Iran (Dec 2021).
10. A workshop on "**Cell culture**", Isfahan university of medical sciences, The international congress of biomedical sciences, Isfahan, Iran (Jan 2021).
11. A workshop on "**Separating of mesenchymal stem cell from adipose tissue**", Isfahan university of medical sciences, The international congress of biomedical sciences, Isfahan, Iran (Jan 2021).
12. A workshop on "**MSCs isolation from umbilical vein**", Isfahan university of medical sciences, The international congress of biomedical sciences, Isfahan, Iran (Jan 2021).
13. A workshop on "**Elisa technique**", Isfahan university of medical sciences, The international congress of biomedical sciences, Isfahan, Iran (Dec 2021).
14. A workshop on "**Database search**", Faculty of rehabilitation sciences, Jondishapur university of medical sciences, Ahvaz, Iran (Feb 2021).
15. A workshop on "**Types of research studies**", Faculty of rehabilitation sciences, Jondishapur university of medical sciences, Ahvaz, Iran (Mar 2021).

16. A workshop on "**Search method at scientific database**", Kurdistan university of medical sciences, Sanandaj, Iran (Mar 2021).
17. A workshop on "**Techniques for working with laboratory animals and ethics in the laboratory**", Zahedan university of medical sciences, Zahedan, Iran (Nov 2021).
18. A workshop on "**Proposal writing**", Zahedan university of medical sciences, Zahedan, Iran (Nov 2021).
19. A workshop on "**Introduction to research principles**", Gilan university of medical sciences, Rasht, Iran (Feb 2021).
20. A workshop on "**Ethics in research**", Hamedan university of medical sciences, Hamedan, Iran (Feb 2021).
21. The second "**Medtalk**" conference, Birjand university of medical sciences, Birjand, Iran (Mar 2021).
22. A workshop on "**Basic photoshop empowerment**", Modern rehabilitation student scientific association (Mar 2021).
23. A workshop on "**How to write a review article**", Royan institute, Tehran, Iran (Feb 2021).
24. A international webinar on "**Emerging science of extracellular vesicles**", Royan international education center (RIEC), Kish island, Iran (Mar 2021).
25. A workshop on "**Working with laboratory animals**", Baqiyatallah university of medical sciences, Tehran, Iran (Jan 2024).
26. A workshop on "**Engineering artificial organs**", Kharazmi university, Tehran, Iran (Aug 2024).

❖ Funding

1. (Research Grant) Fabrication of curcumin-incorporated human amniotic membrane extracellular matrix-derived scaffold to enhance full-thickness wound healing in diabetic rats. A series of grants was provided by "**Shahid Beheshti University of Medical Sciences**" and "**Royan Institute**", Tehran, Iran.

2. (Research Grant) Enhanced diabetic wound healing using a bioengineered human amniotic membrane-derived scaffold loaded with oxygen-generating microspheres. A series of grants was provided by "**Iran National Science Foundation (INSF)**", "**Shahid Beheshti University of Medical Sciences**" and "**Royan Institute**", Tehran, Iran.
3. (Research Grant) Bioengineering a 3D scaffold from human amniotic membrane extracellular matrix loaded with curcumin and oxygen-generating microspheres to improve full-thickness skin wound healing in diabetic rats. A series of grants was provided by "**Shahid Beheshti University of Medical Sciences**" and "**Royan Institute**" Tehran, Iran.

❖ Professional affiliations, memberships, and distinctions

1. Member of executive board of "**The first national conference on plant biology**", Talesh, Iran (Aug 2008).
2. Member of executive board of "**Dr. Hakimzadeh's second national aging conference**", Gilan university of medical sciences, Rasht, Iran (Oct 2018).
3. Member of executive board of "**The fourth international neuroinflammation congress**", Mashhad university of medical sciences, Mashhad, Iran (Dec 2021).
4. Member of "**Iranian tissue engineering and repair association**" (since Jul 2022).
5. Member of "**Iranian anatomical sciences association**" (since May 2023).
6. Member of "**Iran's national elites foundation**" for the Martyr Sayyad Shirazi's plan (the alternative military service project) (Oct 2023 - May 2026).
7. Member of executive board of "The First National Conference on Foresight in Medical Tourism, Wellness and Nature Therapy" as **Executive Manager and Scientific Planner**, Islamic Azad University, Najafabad Branch, Isfahan, Iran (Feb 2025).
8. Member of executive board of "The First National Conference on Foresight in Medical Tourism, Wellness and Nature Therapy" as **Executive Evaluation and Support Manager**, Islamic Azad University, Najafabad Branch, Isfahan, Iran (Feb 2025).

9. Member of executive board of "The First National Conference on Foresight in Medical Tourism, Wellness and Nature Therapy" as **Article Reviewer**, Islamic Azad University, Najafabad Branch, Isfahan, Iran (Feb 2025).

❖ Academic Teaching Experience

- ✓ **Undergraduate Courses** (Since 2024)
  - ✓ Medical Embryology
  - ✓ Medical Anatomy
  - ✓ Medical Neuroanatomy
  - ✓ Basic and Medical Histology

- ➢ **Postgraduate Courses** (Since 2024)
  - ✓ Medical Anatomy

❖ Presentation and Teaching in Academic Workshops and Symposiums

1. A workshop on "**Anatomy of the Pelvis and Perineum**", Islamic Azad University, Rasht Branch, Rasht, Iran (Jun 2025).
2. A workshop on "**Working with laboratory animals**", Clinical Research Development Center, Islamic Azad University, Najafabad Branch, Isfahan, Iran (Oct 2025).
3. A workshop on "**Writing Scientific Articles**", Clinical Research Development Center, Islamic Azad University, Najafabad Branch, Isfahan, Iran (Oct 2025).
4. A workshop on "**Working with EndNote software**", Clinical Research Development Center, Islamic Azad University, Najafabad Branch, Isfahan, Iran (Nov 2025).
5. A workshop on "**Proposal Writing**", Clinical Research Development Center, Islamic Azad University, Najafabad Branch, Isfahan, Iran (Dec 2025).
6. A workshop on "**Anatomy of the Pelvis and Perineum**", Islamic Azad University, Najafabad Branch, Isfahan, Iran (Sep 2026).

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❖ Paper Presented in Conferences:

1. **Kasmaie FM**, Jahromi Z, Gazor R, Zaminy A. *Comparison of melatonin and curcumin effect on regeneration of sciatic nerve crush injury in rat*. Poster Presented, 13th National Congress of Iranian Anatomical Sciences, Hamadan, Iran (Oct 2018).

2. **Kasmaie FM**, Jahromi Z, Gazor R, Zaminy A. *Comparison of melatonin and curcumin effect on regeneration of sciatic nerve crush injury in rat*. Poster Presented, 8th and 9th Iranian National Congress of Neuroscience, Razi international conference center, Iran University of Medical Sciences, Tehran, Iran (Dec 2019 & 2020).

3. Zaminy A, Sayad-Fathi S, **Kasmaie FM**, Jahromi Z, Zendedel A. *Decellularized peripheral nerve grafts by a modified protocol for repair of rat sciatic nerve injury*. Poster Presented, 9th Iranian National Congress of Neuroscience, Razi international conference center, Iran University of Medical Sciences, Tehran, Iran (Dec 2020).

4. **Kasmaie FM**, Jahromi Z, Gazor R, Zaminy A. *Comparison of melatonin and curcumin effect on regeneration of sciatic nerve crush injury in rat*. Poster Presented, 4th International Conference on Neurological Inflammation, Mashhad University of Medical Sciences, in collaboration with the University of Münster, Germany, Mashhad, Iran (March) 2021.
5. Zaminy A, Sayad-Fathi S, **Kasmaie FM**, Jahromi Z, Zendedel A. *Decellularized peripheral nerve grafts by a modified protocol for repair of rat sciatic nerve injury*. Oral presented, 4th International Conference on Neurological Inflammation, Mashhad University of Medical Sciences, in collaboration with the University of Münster, Germany, Mashhad, Iran (Mar 2021).

6. **Moharrami Kasmaie F**, Mehdinezhad Roshan M, Nasiry D, Abdollahifar MA, Kazemi Ashtiani M, Erfanian S, et al. *Fabrication of curcumin-incorporated human amniotic membrane extracellular matrix-derived scaffold to enhance full-thickness wound healing in diabetic rats*. Poster Presented, Iranian Congress on Progress in Tissue Engineering and Regenerative Medicine, Iran University of Medical Sciences, Tehran, Iran (Dec 2025).

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❖ Published articles:

1. Faghani M, Keshavars P, Sharafshah A, Pourgholamali B, **Moharami F**, Nemati S. *TNF-alpha G/A308 polymorphism association with nasal polyposis in North part of Iran*. **European Archives of Oto-Rhino-Laryngology**. 2018;275(9): 2253–2257. Doi: 10.1007/s00405-018-5059-4.

2. **Kasmaie FM**, Jahromi Z, Gazor R, Zaminy A. *Comparison of melatonin and curcumin effect at the light and dark periods on regeneration of sciatic nerve crush injury in rats*. **EXCLI journal**. 2019;18: 653–665. Doi: 10.17179/excli2019-1369.

3. Jahromi Z, Mohammadghasemi F, **Kasmaie FM**, Zaminy A. *Cinnamaldehyde enhanced functional recovery after sciatic nerve crush injury in rats*. **Cells Tissues Organs**. 2020;209(1):43-53. Doi: 10.1159/000507016.

4. Zaminy A, Sayad-Fathi S, **Kasmaie FM**, Jahromi Z, Zendedel A. *Decellularized peripheral nerve grafts by a modified protocol for repair of rat sciatic nerve injury*. **Neural Regeneration Research**. 2021;16(6):1086–1092. Doi: 10.4103/1673-5374.300449.

5. **Moharrami Kasmaie F**, Zamani F, Sayad-Fathi S, Zaminy A. *Promotion of nerve regeneration by biodegradable nanofibrous scaffold following sciatic nerve transection in rats*. **Progress in biomaterials**. 2021;10(1):53-64. Doi: 10.1007/s40204-021-00151-w.

6. Azimzadeh M, Möhn N, Ghane Ezabadi S, Moghimi Esfandabadi Z, Soleimani A, Ranjbar E, **Kasmaie FM**, et al. *The Immunological Therapeutic Strategies for Controlling Multiple Sclerosis: Considerations during the COVID-19 Pandemic*. **Biomolecules**. 2021;11(9):1372. Doi: 10.3390/biom11091372.

7. Mobaraki F, Momeni M, Jahromi M, **Kasmaie FM**, Barghbani M, Yazdi MET, et al. *Apoptotic, antioxidant and cytotoxic properties of synthesized AgNPs using green tea against human testicular embryonic cancer stem cells*. **Process Biochemistry**. 2022;119: 106-118. Doi: 10.1016/j.procbio.2022.05.021.

8. Mehdinezhad Roshan M, **Moharrami Kasmaie F**, Kazemi Ashtiani M, AbdollahiFar MA, Erfanian S, Zarkesh I, et al. *Human Amniotic Membrane Extracellular Matrix-Derived Scaffold Modulates the Number of Mast Cells in the Granulation Tissue and Accelerates Skin Wound Healing in Diabetic Rats*. **Journal of Mazandaran University of Medical Sciences**. 2023;33(1):11-24.

9. Khalatbary AR, Sarabandi S, Ahmadi F, **Kasmaie FM**, Sadeghi N, Soleimani S, et al. *Transplantation of bioengineered dermal derived matrix-scaffold in combination with hyperbaric oxygen therapy improves wound healing in diabetic rats*. **Tissue and Cell**. 2024;89:102462. Doi: 10.1016/j.tice.2024.102462.

10. Afshar A, Aghajanpour F, Soltani R, **Kasmaie FM**, Masteri-farahani R, Abbaszadeh H, et al. *Asymmetric bilateral radial artery variations with embryological view: A case report*. 2024. Doi: 10.21203/rs.3.rs-4223505/v1.

11. Amiri FT, Jafari A, Ahmadi F, Mokhtari H, Raoofi A, **Kasmaie FM**, et al. *Exosomes derived from human placental mesenchymal stem cells in combination with hyperbaric oxygen therapy enhance neuroregeneration in a rat model of sciatic nerve crush injury*. **Regenerative Therapy**. 2025;28:30-40. Doi: 10.1016/j.reth.2024.11.021.

12. **Moharrami Kasmaie F**, Mehdinezhad Roshan M, Nasiry D, Abdollahifar MA, Kazemi Ashtiani M, Erfanian S, et al. *Fabrication of curcumin-incorporated human amniotic membrane extracellular matrix-derived scaffold to enhance full-thickness wound healing in diabetic rats*. **Histochemistry and Cell Biology**. 2025;163(1):1-17. Doi: 10.1007/s00418-024-02335-4.

13. Mehdinezhad Roshan M, **Moharrami Kasmaie F**, Nasiry D, Abdollahifar MA, Kazemi Ashtiani M, Erfanian S, et al. *Enhanced diabetic wound healing using a bioengineered human amniotic membrane-derived scaffold loaded with oxygen-generating microspheres*. **Dermatologic Therapy**. 2025. Doi: 10.1155/dth/5514407.

14. Tahamtan MS, Ansari F, **Moharrami Kasmaie F**, Zareshahrabadi Z, Amani AM, Salehi M, Amiri S, Ghasemian S, Askari Jahromi M, Vaez A. *Integration of green synthesized silver nanoparticles in electrospun PVA-alginate and resveratrol-loaded ZIF-8 into alginate lyophilized hydrogel as a dual-layered biomimetic skin construct*. **Int J Biol Macromol**. 2026;338(Pt 2):149681. Doi: 10.1016/j.ijbiomac.2025.149681.

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