

## Curriculum Vitae

Date of revision: 2024/11

### Personal informations

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**Name:** Mahmood Rekabgardan, M.Sc., Ph.D.

**Affiliation:** Department of Tissue Engineering and Applied Cell Sciences, School of Advanced Technologies in Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

**Contact:** (+98) 912-2268474      [m.rekabgardan@gmail.com](mailto:m.rekabgardan@gmail.com)      [m.rekabgardan@sbm.ac.ir](mailto:m.rekabgardan@sbm.ac.ir)

**Google Scholar:** <https://scholar.google.com/citations?hl=en&user=92250YAAAAAJ>

**Professional Highlights:** I have received my Ph.D. in Tissue Engineering/Regenerative Medicine with a focus on cardiovascular T.E. using electrospinning technique and mesenchymal stem cells

### Education

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- **Associate in Veterinary Medicine** Cumulative GPA: 16.08/20  
Karaj Branch, Islamic Azad University, Karaj, Iran. 1999/9 – 2002/9
- **B.Sc. in Veterinary Laboratory Sciences** Cumulative GPA: 15.19/20  
Semnan University, Semnan, Iran. 2003/2 – 2005/2
- **M.Sc. in Veterinary Histology** Cumulative GPA: 18.21/20  
Science and Research Branch, Islamic Azad University, Tehran, Iran. 2011/9 – 2013/9  
Thesis Title: “Evaluation of a Te99Gemifloxacin as a radiopharmaceutical in Ecoli induced infection and its morphological impression in male mature mice muscle tissue”
- **Ph.D. in Tissue Engineering** Cumulative GPA: 18.87/20  
Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2016/2 – 2021/5  
Thesis Title: “Functionality of PGS- based fibrous scaffold in heart valve tissue engineering Applications”

### Career/ Academic Position

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- **Lab Technologist/Expert** 2006 – 2023/12  
Pathobiology Laboratory Center, Tehran, Iran.  
Tasks: New test setup, Quality control, troubleshooting, teaching new lab staff, and performing lab techniques.
- **Ph.D. Student/Graduate Researcher** 2016 – 2021  
Shahid Beheshti University of Medical Sciences, Tehran, Iran.  
  
Tasks: Participation in design and develop ideas, proposal writing, grant writing, performing techniques, data analysis, and manuscript writing.
- **Assistant Professor** 2023/12 – Present  
Shahid Beheshti University of Medical Sciences, Tehran, Iran.

### ***Field of Expertise/ Skills***

- ❖ Preparation of tissue/cell slides.
- ❖ Specific staining of tissue/cell slides.
- ❖ Tissue slides analysis.
- ❖ Fluorescent staining and imaging.
- ❖ Immunohistochemistry.
- ❖ Electrospinning.
- ❖ Stem cell culture, fibroblast culture and Biocompatibility assay.
- ❖ Polymeric scaffold characterizations.
- ❖ Manipulation and synthesis of polymer (Poly (Glycerol sebacate), PGS).
- ❖ Microfluidic device fabrication.
- ❖ Principles of laboratory quality control.
- ❖ HPLC analysis.
- ❖ qRT-PCR - ELISA.
- ❖ Electrophoresis & Immunofixation (Serum, urine, hemoglobin).
- ❖ Animal care and handling.
- ❖ Computer and software: MS word, Excel, Power point, Mendeley, SPSS, Prism , Imagej, Chem BioDraw and MestReNova
- ❖ Interpersonal Skills: Teamwork, Responsibility, Troubleshooting in Professional Working, Collaboration in the multidisciplinary group.

### **Administrative Position**

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- Member of the advisory professor's committee in the School of Advanced Technologies in Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

### **Professional Honors and Recognition**

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- 1st grade of Ph.D. Comprehensive exam in Tissue engineering, School of Advanced Technologies in Medicine of Shahid Beheshti University, Tehran, Iran. 2017
- 1st ranked student among Associate of Veterinary students, Karaj Branch, Islamic Azad University.2001

### **Lecturer, Courses, Web Based Education**

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Teaching the following courses (All as a shared course at P.hD. Level):

- Principles of Tissue Engineering – Anatomy and Embryology – Tissue Study Methods – Principle of Materials – Principles of Stem Cells - Advanced cellular and molecular techniques - Study of animal models - Working with laboratory and transgenic animals

### **Professional Service / Membership**

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#### ***Peer Review Group / Journal / Committee / Organization Membership & Services***

- Reviewer in the “Stem Cell Reviews and Reports” Springer journal from 2022.
- Executive and review committee member at the 1<sup>st</sup> International Congress of Tissue Engineering and Regenerative Medicine (ITERM), July 2018, Tehran, Iran.
- Member of the Iranian Society of Biomaterial and Tissue Engineering.

## Bibliography

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### *Peer-reviewed journal publications:*

- **Mahmood Rekabgardan**, Mostafa Erfani, and Mortazavi Pejman, "Radiopharmaceutical Evaluation of Gemifloxacin-Techneium 99m and its Histopathological Effects on Skeletal Muscle of Mice," J. Pure Appl. Microbiol., 2016; 10(1): 339-344.
- M. Erfani, **M. Rekabgardan**, P. Mortazavi & M. Shafiei, "Radiocomplexation and evaluation of the 99mTc-Gemifloxacin in artificially Escherichia coli infected mice," J Radioanal Nucl Chem DOI 10.1007/s10967-015-4515-5
- **Rekabgardan, Mahmood**; Rahmani, Mahya; Soleimani, Masoud; Hossein Zadeh, Simzar; Roozafzoon, Reza; Parandakh, Azim; Khani, Mohammad-Mehdi, "A Bilayered, Electrospun Poly(Glycerol-Sebacate)/Polyurethane-Polyurethane Scaffold for Engineering of Endothelial Basement Membrane," ASAIO Journal: June 14, 2021 - Volume Online First - Issue - DOI: 10.1097/MAT.0000000000001423
- **Rekabgardan M**, Parandakh A, Shahriari S, Koohpar ZK, Rahmani M, Ganjouri C, Sarbandi RR, Khani MM. An electrospun PGS/PU fibrous scaffold to support and promote endothelial differentiation of mesenchymal stem cells under dynamic culture condition. Journal of Drug Delivery Science and Technology. 2022 May 4:103383. doi:10.1016/j.jddst.2022.103383
- Majidansari S, Vahedi N, **Rekabgardan M**, et al. Enhancing endothelial differentiation of human mesenchymal stem cells by culture on a nanofibrous polycaprolactone/(poly-glycerol sebacate)/gelatin scaffold. Polym Adv Technol. 2022;1-8. doi:10.1002/pat.5925

### *Book chapter*

- Golchin A., **Rekabgardan M.**, Taheri R.A., Nourani M.R. (2018) "Promotion of Cell-Based Therapy: Special Focus on the Cooperation of Mesenchymal Stem Cell Therapy and Gene Therapy for Clinical Trial Studies." In: Turksen K. (eds) Cell Biology and Translational Medicine, Volume 4. Advances in Experimental Medicine and Biology, vol 1119. Springer, Cham. [https://doi.org/10.1007/5584\\_2018\\_256](https://doi.org/10.1007/5584_2018_256)

### *Attended workshops, symposia and congers:*

#### *Presentation:*

- Presented the results of a collaborative research, "Preparation of a broad-spectrum quinolone labeled with 99m Tc for infection imaging," at the 18th Iranian Congress of Nuclear Medicine (ICNM2014), November 2014. Collaborators: Mostafa Erfani, Seyed Javad Khoramrouz, Seyed Pezhman Shirmardi, **Mahmood Rekabgardan**.

#### *Attendance:*

- In vitro fertilization of mice workshop, Royan Research Institute, December 2012, Tehran, Iran.
- Cancer stem cell isolation and identification workshop, Royan Research Institute, August 2015, Tehran, Iran.
- Culture and maintenance of human embryonic stem cells workshop, Royan Research Institute, June 2015, Tehran, Iran.
- Polyclonal antibody production workshop, Royan Research Institute, August 2015, Tehran, Iran.
- The 11th International Congress of Embryonic Stem Cells Biology & Technology, Royan Research Institute, September 2011, Tehran, Iran.
- Methods of scaffold preparation in the tissue engineering workshop, Tehran university of medical sciences, School of advanced technology in medicine, November 2015, Tehran, Iran.
- The first national festival and international congress of stem cells and regenerative medicine, May 2016, Tehran, Iran.
- Royan Cryobiology Symposium (17th Royan international Twin congress), August 2016, Tehran, Iran

- The Docking & Drug design workshop, Faculty of New Technologies, Shahid Beheshti University of Medical Sciences, September 2016, Tehran, Iran.
- The 12th International Congress of Embryonic Stem Cells Biology & Technology, Royan Research Institute, August-September 2016, Tehran, Iran.
- The 13th International Congress of Embryonic Stem Cells Biology & Technology, Royan Research Institute, August-September 2017, Tehran, Iran.
- The first symposium of tissue engineering and regenerative medicine in trauma, Shahid Beheshti University of medical sciences, April 2018, Tehran, Iran.
- Theoretical and practical workshop of SPSS software and introduction to statistical analysis. Shahid Beheshti University of Medical Sciences, February 2019, Tehran, Iran.
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