

## Elaheh Emadi

**Born on:** 25<sup>th</sup> of January, 1986

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### Education

• **2015-2021 PhD:** Molecular Medicine, Shahid Sadoughi University of Medical Sciences, Yazd, Iran. PhD thesis: “Immobilization of HLA-G antibody on functionalized superparamagnetic nanoparticles for isolation of trophoblast cells”

Supervisors: Professor Seyed Mehdi Kalantar and Professor Abdol-Khalegh Bordbar

GPA: 19.23/20. Thesis Score: 20/20.

• **2010- 2013 MSc:** Cellular and Molecular Biology, Razi University, Kermanshah, Iran and Isfahan University of Medical Sciences, Isfahan, Iran.

Master thesis: “Evaluation of *Hox transcript antisense intergenic RNA (HOTAIR)* gene expression in gastric cancer”

Supervisors: Dr. Ali Bidmeshkipour and Dr. Parvaneh Nikpour

GPA: 18.28/20. 1st rank among Cellular and Molecular Biology students. Thesis Score: 20/20.

• **2004-2008 BSc:** Biology, Shahrekord University, Shahrekord, Iran. GPA: 16.61/20. 4th rank among 58 Biology students.

### Research experience

• **2022-2024 Postdoctoral Researcher:** Imam Reza Hospital, Mashhad University of Medical Sciences, Mashhad, Iran.

❖ Project: “Investigation of the effect of platelet-rich plasma-fibrin glue (PRP-FG)-containing repairing gel in combination with oral methylene blue (MB) for chronic diabetic foot ulcer (DFU) treatment: a pilot study” - Funded by Mashhad University of Medical Sciences Supervisor: Professor Daryoush Hamidi-Alamdari

- The efficacy and safety of the new combined therapy of PRP-FG-containing repairing gel and oral MB for chronic DFUs were proven.
- The healing process of chronic DFUs was accelerated by using the combined therapy of a PRP-FG-containing repairing gel and oral MB.

❖ Project: “Increasing the efficacy of platelet- fibrin glue in treatment of recalcitrant wound by adding repairing gel which has the approved components used in wound healing” - Funded by Mashhad University of Medical Sciences Supervisor: Professor Daryoush Hamidi-Alamdari

- The efficacy and safety of the new PRP-FG-containing repairing for chronic wounds were proven.
- This novel repairing gel can be a safe, affordable, noninvasive, and effective therapy for chronic wounds.

❖ Project: “Treatment of second degree burn wound with PRP-fibrin glue and repairing gel” - Funded by Mashhad University of Medical Sciences Supervisor: Professor Daryoush Hamidi-Alamdari

- New repairing gel offers non-surgical treatment for deep burns.

- Results indicate an average healing time with gel was 24.4 days.
- Pain relief in 10-15 minutes after applying gel was reported.
- No hypertrophic scars or keloids were observed in 3–12-month follow-up.

• **2011-2013 Research Fellow:** Child Growth and Development Research Center, Isfahan University of Medical Sciences, Isfahan, Iran.

Project: “Evaluation of expression of *SIX1* and *EYA1* genes in gastric cancer” - Funded by Isfahan University of Medical Sciences Supervisors: Dr. Parvaneh Nikpour and Dr. Modjtaba Emadi-Baygi

- Contributed to a team investigating the expression of *SIX1* and *EYA1* genes in tumoral and non-tumoral gastric specimens and analysis of the results.

## Publications

**2025 Elaheh Emadi**, Alireza Mousavian, Mohammad-Hadi Saeed Modaghegh, Daryoush Hamidi Alamdari, Effect of platelet-rich plasma-fibrin glue-containing repairing gel in combination with oral methylene blue for chronic diabetic foot ulcer treatment: a pilot study, publication under review.

**2025** Seyed Hasan Tavoosi, Ali Ahmadabadi, Omid Yazarlou, Hosein Safari, Mahdi Kouhi, Noghondar, **Elaheh Emadi**, Daryoush Hamidi Alamdari, A novel non-invasive treatment in deep-burned patients who do not have consent to surgery, Burns Open, DOI: <https://doi.org/10.1016/j.burnso.2024.100392>, **Q3**.

**2024** Hamid AmirAbadi, **Elaheh Emadi**, Omid Yazarlou, Mohammad Vejdani, Daryoush Hamidi Alamdari, Comparison of Glycerol, RPMI and DMEM for storage of skin grafts, Aristotle Biomedical Journal, DOI: <https://doi.org/10.26262/abj.v6i1.9771>.

**2024** Alireza Rezapanah, **Elaheh Emadi**, Daryoush Hamidi Alamdari, Treatment of recalcitrant esophagocutaneous fistula by platelet-rich-plasma-fibrin glue: A case study, International Journal of Surgery Case Reports, DOI: <https://doi.org/10.1016/j.ijscr.2024.109335>, **IF=0.6, Q3**.

**2024** **Elaheh Emadi**, Daryoush Hamidi Alamdari, Davood Attaran, Soroush Attaran, Application of methylene blue for the prevention and treatment of COVID-19, A narrative review, Iranian Journal of Basic Medical Sciences, DOI: [10.22038/IJBMS.2024.71871.15617](https://doi.org/10.22038/IJBMS.2024.71871.15617), **IF=2.2, Q3**.

**2024** **Elaheh Emadi**, Daryoush Hamidi Alamdari, Amirhossein Sahebkar, The Potential of Leucomethylene Blue in Methemoglobinemia Treatment: A New Hope for Patients with G6PD? Current Medicinal Chemistry, DOI: <https://doi.org/10.2174/0929867331666230911113159>, **IF=3.5, Q2**.

**2023** Mahmood Hossinzadeh Maleki, Mohammad Abbasi Tashnizi, Hassan Mottaghi Moghaddam Shahri, **Elaheh Emadi**, Daryoush Hamidi Alamdari, Amirhossein Sahebkar, Persistent pneumothorax treatment following congenital cardiac surgery by platelet-fibrin glue, Updates in Surgery, DOI: <https://doi.org/10.1007/s13304-023-01728-9>, **IF=2.4, Q1**.

**2023** Samaneh Sabouri, Mohsen Foroughipour, **Elaheh Emadi**, Daryoush Hamidi Alamdari, Oxidative Stress in Relapsing-remitting Multiple Sclerosis Patients, Reviews in Clinical Medicine.

**2023** Seyed Hasan Tavoosi, Hosein Safari, Amir Kouchaki, **Elaheh Emadi**, Daryoush Hamidi Alamdari, Complete Salvage of Third-degree Burn of Ear by Repairing Gel-PRP-Fibrin Glue, A Case Report, Journal of Burn Care & Research, DOI: <https://doi.org/10.1093/jbcr/irad149>, **IF=1.5, Q2**.

**2023** Abbasi Tashnizi M, **Emadi E**, Hamidi Alamdari D, Autologous platelet-rich plasma fibrin-glue reduces bleeding after coronary artery bypass grafting, a randomized clinical study, HIPPOKRATIA, **IF=0.3, Q4**.

**2023** **Elaheh Emadi**, Danial Taherzadeh, Daryoush Hamidi Alamdari, Culture and expansion of stem cells located at the corneoscleral limbus, Medical Journal of Mashhad University of Medical Sciences.

**2023** Abass Abdollahi, **Elaheh Emadi**, Daryoush Hamidi-Alamdari, Autologous platelet-rich-plasma injection and platelet-rich fibrin glue interposition for treatment of anal fistula resistant to surgery. Gastroenterology and Hepatology From Bed to Bench (GHFBB), DOI: <https://doi.org/10.22037/ghfbb.v16i2.2719>. **Q3**.

**2023** Hamid Reza Rahimi, **Elaheh Emadi**, Daryoush Hamidi Alamdari, Limb Saving with a Combination of Allogenic Platelets-Rich Plasma, Fibrin Glue, and Collagen Matrix in an Open Fracture of the Tibia: A Case Report. The Archives of Bone and Joint Surgery, DOI: 110.22038/ABJS.2023.69184.3261. **IF=1.2, Q2**.

**2023** Fatemeh Izadfar, Saba Belyani, Masomeh Pormohammadi, Simin Alizadeh, Mehrara Hashempor, **Elaheh Emadi**, Zohreh Sadat Sangsefidi, Mohammad Reza Jalilvand, Shima Abdollahi, Omid Toupchian, The effects of grapes and their products on immune system: a review. Immunological Medicine, DOI: 10.1080/25785826.2023.2207896. **IF=4.4, Q2**.

**2023** Mehdi Fathi, **Elaheh Emadi**, Daryoush Hamidi Alamdari, Hypnosis reduces oxidative stress in patients before surgery, a randomized clinical trial. Aristotle Biomedical Journal, DOI: <https://doi.org/10.26262/abj.v5i1.9331>.

**2023** Alireza Rezapanah, Amin Dalili, Ali Jangjoo, Mohsen Aliakbarian, Hamed Golmohamadzadeh, Behzad Mavaji Darban, **Elaheh Emadi**, George Koliakosh, Daryoush Hamidi-Alamdari, Treatment of Recalcitrant Gastrocutaneous and Enterocutaneous Fistula using Platelet-Rich Plasma -Fibrin Glue Through the External Orifice. Annals of Surgery and Research.

**2022** Nafiseh Sahraei, Mohammad Mazloun-Ardakani, Javad Mohiti, Alireza Moradi, Alireza Khoshroo, **Elaheh Emadi**, Fereshteh Vajhadin, Flexible Paper-Based Immunosensor for the Detection of Specific Cancer-Derived Exosomes, Journal of The Electrochemical Society, DOI: 10.1149/1945-7111/aca836, **IF= 3.9**.

**2021** **Elaheh Emadi**, Abdol-Khalegh Bordbar, Hamid Nadri, Ali Shams, Asghar Taheri-Kafrani, Seyed Mehdi Kalantar, Isolation of HLA-G<sup>+</sup> cells using MEM-G/9 antibodyconjugated magnetic nanoparticles for prenatal screening: a reliable, fast and efficient method. RSC Advances, DOI: 10.1039/d1ra05988b, **IF= 3.9, Q1**.

**2021** **Elaheh Emadi**, Arezoo Khoradmehr, Ali Shams, Seyed Mehdi Kalantar, Appropriate fixative for MEM-G/9 staining of cultured human HLA-G-positive JEG-3 trophoblast tumor cells. Biotechnic & Histochemistry, DOI: 10.1080/10520295.2021.1916837, **IF: 1.6, Q3**.

**2020** **Elaheh Emadi**, Fatemeh Akhoundi, Seyed Mehdi Kalantar, Modjtaba Emadi-Baygi, Predicting the most deleterious missense nsSNPs of the protein isoforms of the human *HLA-G* gene and in silico evaluation of their structural and functional consequences. BMC Genet 21, 94 (2020). DOI: 10.1186/s12863-020-00890-y, **IF: 1.9, Q3**.

**2015** Modjtaba Emadi-Baygi, Parvaneh Nikpour, **Elaheh Emadi**, SIX1 overexpression in diffuse-type and grade III gastric tumors: Features that are associated with poor prognosis, Adv Biomed Res. 2015; 4: 139. DOI: 10.4103/2277-9175.161540, **IF=0.7, Q3**.

**2014** Shima Rahmati, Modjtaba Emadi-Baygi, Parvaneh Nikpour, **Elaheh Emadi**, Expression profile of ZFX isoform3/variant 5 in gastric cancer tissues and its association with tumor size. Iran J Basic Med Sci. 2014 Oct; 17(10): 767–771. **IF:2.1, Q3**.

**2014** Parvaneh Nikpour, Modjtaba Emadi-Baygi, **Elaheh Emadi**, Shima Rahmati, EYA1 expression in gastric carcinoma and its association with clinicopathological characteristics: a pilot study, 2014. Med Oncol 31 (5): 955. DOI:10.1007/s12032-014-0955-y. **IF: 2.8, Q2**.

**2014** **Elaheh Emadi**, Parvaneh Nikpour, Modjtaba Emadi-Baygi, Ali Bidmeshkipour, Association of HOTAIR expression in gastric carcinoma with invasion and distant metastasis, Adv Biomed Res. 2014; 3: 135. DOI: 10.4103/2277-9175.133278, **IF=0.7, Q3**.

### Papers presented in congress

**2018** Ameneh Khodarahmi, Fatemeh Yaghoubi, Javad Zavar Reza, **Elaheh Emadi**, The effect of Vitamin E on Alzheimer's disease: A systematic review. The 15<sup>th</sup> Iranian national congress of biochemistry & international congress of biochemistry & molecular biology. 25-28 August 2018, Isfahan, Iran. (Poster code: ID: 411).

**2013** P Nikpour, S Rahmati, M Emadi-Baygi, **E Emadi**, Expression profile of *EYA1* gene in gastric cancer tissues. 1<sup>st</sup> Tabriz International Life Science Conference and 12<sup>th</sup> Iran Biophysical Chemistry Conference. 22-24 May 2013, (Poster code: 335).

**2013** P Nikpour, **E Emadi**, M Emadi-Baygi, S Rahmati, Clinicopathological relevance of the expression of Eyes Absent Homolog 1 gene in gastric carcinoma. 1<sup>st</sup> Tabriz International Life Science Conference and 12<sup>th</sup> Iran Biophysical Chemistry Conference. (Poster code: 302).

**2012** **Elaheh Emadi**, Parvaneh Nikpour, Modjtaba Emadi-Baygi, Ali Bidmeshkipour, Evaluation of *HOTAIR* gene expression in tumoral and non-tumoral gastric specimens. The 17<sup>th</sup> National & 5<sup>th</sup> International Iranian Biology Conference. Kerman, Iran.

### **Workshops Attended**

**2021** Karyotype, Yazd Reproductive Sciences Institute, Yazd, Iran.

**2021** Educational innovation strategies, EDC, Shahid Sadoughi University of Medical Sciences, Yazd, Iran.

**2021** An introduction to whole exome data analysis using Galaxy, OMITREEN, Isfahan University, Isfahan, Iran.

**2019** Intellectual property, Health Technology Development Office, Tehran, Iran.

**2019** Fundamentals of Creativity, Health Technology Development Office, Tehran, Iran.

**2019** Introduction to entrepreneurship and entrepreneurs, Health Technology Development Office, Tehran, Iran.

**2019** Technological innovation in health, Health Technology Development Office, Tehran, Iran.

**2019** Innovation and technology, Health Technology Development Office, Tehran, Iran.

**2019** Next generation sequencing (NGS) data analysis, Yazd Reproductive Sciences Institute, Yazd, Iran.

**2019** Genome editing elements & guide RNA design, Yazd Reproductive Sciences Institute, Yazd, Iran.

**2018** Real time PCR analysis, Yazd Reproductive Sciences Institute, Yazd, Iran.

**2017** Working with laboratory animals, Student Research Committee, Shahid Sadoughi University of Medical Sciences, Yazd, Iran.

**2017** Preparation of buffers and solutions in biology, Student Research Committee, Shahid Sadoughi University of Medical Sciences, Yazd, Iran.

**2017** How to submit articles for publication in scientific journals, Student Research Committee, Shahid Sadoughi University of Medical Sciences, Yazd, Iran.

**2017** Scientific data analysis by R software, Institute Pasteur Iran, Tehran. Iran.

**2016** Theoretical and practical workshop on working with Yazd human embryonic stem cells. Yazd Reproductive Sciences Institute, Yazd, Iran.

**2016** Microarray data analysis, Third Congress of Molecular Medicine, Isfahan University of Medical Sciences, Isfahan, Iran.

**2016** CRISPR/CAS 9 & guide RNA design, Technical and Vocational Training Organization, Isfahan, Iran.

**2016** 1<sup>st</sup> ISCA international symposium on research & application of stem cells, International Stem Cell Academy, Tehran, Iran.

**2015** Regenerative nanotechnology, application of nanotechnology in stem cells and reconstructive medicine, Iran University of Medical Sciences, Tehran, Iran.

**2015** Writing English Articles, Faculty of Medicine, Shahid Sadoughi University of Medical Sciences, Yazd, Iran.

**2012** SPSS Workshop, Isfahan University of Medical Sciences, Isfahan, Iran.

### **Teaching experiences**

- Immunology, for undergraduate students, Imam Javad University, Yazd, Iran, 2018.
- Training course on nanoparticle characterization methods, Shahid Sadoughi University of Medical Sciences, Yazd, Iran, 2021.
- Training course on study design, Shahid Sadoughi University of Medical Sciences, Yazd, Iran, 2021.

### **Professional contribution and affiliations**

- Iranian Society of Molecular Medicine, 2015-Present
- Iranian Association of Biology, 2011-Present

### **References**

- Prof. Seyed Mehdi Kalantar, Shahid Sadoughi University of Medical Sciences, Yazd, Iran, Email: [smkyzd@gmail.com](mailto:smkyzd@gmail.com)
- Prof. Abdol-Khalegh Bordbar, Isfahan University, Isfahan, Iran. Email: [akbordbar@gmail.com](mailto:akbordbar@gmail.com)
- Dr. Parvaneh Nikpour, Isfahan University of Medical Sciences, Isfahan, Iran. Email: [parvanehnikpour@gmail.com](mailto:parvanehnikpour@gmail.com)
- Dr. Modjtaba Emadi-Baygi, Shahrekord University, Shahrekord, Iran, Email: [emadibaygi@gmail.com](mailto:emadibaygi@gmail.com)