



## Curriculum Vitae (CV)

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- **Personal Background:**

*Name: Mohsen Rastegari-Pouyani*

*Date of Birth: 1989*

*Nationality: Iranian*

*Marital Status: Married*

*Address: Department of Immunology. Faculty of Medicine. Hamadan University of Medical Sciences, Hamadan, Iran.*

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- **Current Position:**

Assistant Professor of Immunology

- **Education:**

- Ph.D., in Medical Immunology, (2016-2022), Faculty of Medicine, Department of Immunology, Shahid Beheshti University of Medical Science, Tehran, Iran
- M.Sc, in Medical Immunology, (2013-2016), Faculty of Public Health, Department of Pathobiology, Tehran University of Medical Science, Tehran, Iran

- **Thesis:**

- Investigating the effects of the compound “2-methylpyridine-1-ium-1-sulfonate”, purified from the plant *Allium hirtifolium* Boiss., and exosomes derived from HT-29 colorectal cancer cells treated with this compound on the polarization of THP-1-derived macrophages
- *In vitro* and *in vivo* anti-angiogenesis activities of  $\beta$ -D-mannuronic acid (M2000) as a novel NSAID with immunosuppressive properties

- **Activity & Teaching:**

- Medical Immunology for Doctor of Medicine (MD) students
- Medical and Practical Immunology for Doctor of Dentistry (DDS) students
- Medical and Practical Immunology for Doctor of Pharmacy (PharmD) students
- Medical Immunology for foreign MD students (International Branch)
- Medical Immunology for foreign Bachelor of Medicine and Bachelor of Surgery (MBBS) students (International Branch)
- Medical and Practical Immunology for foreign DDS students (International Branch)
- Medical and Practical Immunology for foreign PharmD students (International Branch)
- Immunohaematology and Transfusion Medicine for Master of Science (MSc) students of Medical Immunology
- Fundamentals of Immunology for MSc students of Medical Immunology
- Practical Methods in Immunology for MSc students of Medical Immunology
- Immunology of Infectious Diseases for MSc students of Medical microbiology
- Medical and Practical Immunology for Bachelor of Science (BSc) students of Midwifery
- Medical and Practical Immunology for BSc students of Nursing

- **Honors and Achievements**

- **2013. Ranked 2<sup>nd</sup>** in nationwide entrance examination held by ministry of Health and Medical Education for Master’s degree in Medical Immunology (**Among 2’485 participants**).
  - **2013. Ranked 5<sup>th</sup>** in nationwide entrance examination held by ministry of Science, Research and Technology for Master’s degree in Cellular and Molecular Biology (**Among 14’104 participants**).
  - **2019. Member of the Iran’s National Elites Foundation.**
  - **2013. Chosen student (ranked 9<sup>th</sup>)** of the nationwide centralized exam of **18<sup>th</sup> Biology Olympiad**.
  - **2013-2016. Member of the Talented Students Organization** at Tehran University of Medical Sciences.
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- **2018. Ranked 1<sup>st</sup>** in the PhD comprehensive exam at shahid Beheshti University of Medical Sciences.
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### ***Non-academic position***

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- Lecturer of immunology and biochemistry to applicants of nationwide entrance examinations held by ministry of Health and Medical Education as well as ministry of Science, Research and Technology for master's and PhD degrees at Dr. Khalili educational institute.
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### ***Book***

#### ***Compilation:***

- Collection of classified questions of master's and PhD exams of medical immunology from 2002-2018-Etminan press-Tehran, Iran.

#### ***Translation:***

- Molecular cell biology-Harvey Lodish and colleagues, 7<sup>th</sup> edition, 2013- Dr. Khalili educational institute press-Tehran, Iran.
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### ***Language proficiency***

- **Persian:** Native
  - **English:** Fluent
  - **Kurdish:** Bilingual proficiency
  - **Turkish:** Good
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### ***Memberships***

- Member of the Islamic Republic of Iran Medical Council (IRIMC), membership number: ۵۳۰۲-۱
  - Member of the Iranian Society for Immunology and Allergy, membership number: ISIA6691
  - Member of Iran's scientific community of laboratorians
  - Active member of Student Research Committee, Shahid Beheshti University of Medical Sciences (2016-2022)
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- Executive committee member of International Congress of Immunology and Allergy (ICIA)
  - Executive committee member of International Congress of Medical Lab and Clinic
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### ***Other:***

- Oral presentation in the FIMSA (Federation of Immunological Societies of Asia-Oceania) 2021 congress: **2-methylpyridine-1-ium-1-sulfonate modulates tumor-derived exosome mediated polarization of macrophages: Relevance to tumor microenvironment**
  - Poster presentation in the 14<sup>th</sup> international congress of Immunology and Allergy. "**Anti-angiogenic activity of  $\beta$ -D-mannuronic acid (M2000) as a novel NSAID with immunosuppressive properties under in vitro and in vivo models**"
  - Lecturer of the workshop entitled "**Angiogenesis**" held in Medical Biology Research Center (MBRC). Kermanshah University of Medical Sciences. Kermanshah, Iran.
  - Participation in the 4<sup>th</sup> workshop on the **Principles of Flow cytometry in Clinical Application** from 6-7 May 2017 organized by **National Research institute of Tuberculosis and Lung Diseases (NRITLD)** with collaboration of **Utrecht University**.
  - **2014**. Participation in the workshop entitled "**Principals of Animal Cell Culture**" during the **12<sup>th</sup> International Congress of Immunology and Allergy (ICIA)**
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### ***Publications***

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- "Cancer cells change their glucose metabolism to overcome increased ROS: One step from cancer cell to cancer stem cell?" **Mohsen Rastegari-Pouyani**, Zahra Ghanbari Movahed, Mohammad hossein Mohammadi, and Kamran Mansouri. ***Biomedicine & Pharmacotherapy*** 112 (2019): 108690.
- "Can a metabolism-targeted therapeutic intervention successfully subjugate SARS-CoV-2? A scientific rationale" **Mohsen Rastegari-Pouyani**, Kamran Mansouri, Maryam Ghanbri-Movahed, Mehrnoush Safarzadeh, Sara Kiani, Zahra Ghanbari-Movahed. ***Biomedicine & Pharmacotherapy***. Volume 131, November 2020, 110694

- "2-methylpyridine-1-ium-1-sulfonate modifies tumor-derived exosome mediated macrophage polarization: Relevance to the tumor microenvironment" **Mohsen Rastegari-Pouyani**, Hamid-Reza Mohammadi-Motlagh, Kaveh Baghaei, Kamran Mansouri, Mahsa Hajivalili, Ali Mostafaie, Davar Amani. *International Immunopharmacology*, Volume 106, 108581
- "Cellular and molecular mechanisms of immune dysregulation and autoimmunity." Gholamreza Azizi, **Mohsen Rastegar Pouyani**, Hassan Abolhassani, Laleh Sharifi, Javad Mohammadi, Abbas Mirshafiey, and Asghar Aghamohammadi. *Cellular immunology* 310 (2016): 14-26.
- "Anti-angiogenic potential of trypsin inhibitor purified from Cucumis melo seeds: Homology modeling and molecular docking perspective." Hassan Rasouli, Sharham Parvaneh, Azadeh Mahnam, **Mohsen Rastegari-Pouyani**, Zohreh Hoseinkhani, and Kamran Mansouri. *International journal of biological macromolecules* 96 (2017): 118-128.
- "Anti-angiogenesis effect of  $\beta$ -D-mannuronic acid (M2000) as a novel NSAID with immunosuppressive properties under experimental model." **Mohsen Rastegari-Pouyani**, Ali Mostafaie, Kamran Mansouri, Seyed Shahabeddin Mortazavi-Jahromi, Hamid-Reza Mohammadi-Motlagh, and Abbas Mirshafiey. *Clinical and Experimental Pharmacology and Physiology* 45, no. 4 (2018): 370-376.
- "Chitin and chitosan as tools to combat COVID-19: A triple approach" M Safarzadeh, S Sadeghi, M Azizi, **M Rastegari-Pouyani**, R Pouriran, Mostafa Haji Molla Hoseini. *International journal of biological macromolecules*. 2021 Jul 31;183:235-44.
- "The quantity and quality of anti-SARS-CoV-2 antibodies show contrariwise association with COVID-19 severity: Lessons learned from IgG avidity" Mehrdad Hajilooi, Fariba Keramat, Akram Moazanian, **Mohsen Rastegari-Pouyani\***, Ghasem Solgi. *Medical Microbiology and Immunology*. 2023
- "Colistin resistance mechanisms in Gram-negative bacteria: a Focus on *Escherichia coli* " Mohammad Abavisani, Narjess Bostanghadiri, Hossein Ghahramanpour, Mansoor Kodori, Fariba Akrami, Hadis Fathizadeh, Ali Hashemi, **Mohsen Rastegari-Pouyani**. *Letters in Applied Microbiology*, 2023 Feb;76(2):ovad023.

- "Medicinal Plants Extracts with Antiangiogenic Activity: Where Is the Link?" Hoseinkhani Z, Norooznezhad F, **Rastegari-Pouyani M**, Mansouri K. **Advanced Pharmaceutical Bulletin**. 2020 May 11;10 (3):370-8.
- "Contribution and prognostic value of TSGA10 gene expression in patients with acute myeloid leukemia (AML)." Zohreh Hoseinkhani, **Mohsen Rastegari-Pouyani**, Farhad Oubari, Hadi Mozafari, Amir Bahman Rahimzadeh, Ali Maleki, Saeideh Amini, and Kamran Mansouri. **Pathology-Research and Practice** 215, no. 3 (2019): 506-511.
- "Intrathecal Administration of Melatonin Ameliorates the Neuroinflammation-mediated Sensory and Motor Dysfunction in a rat Model of Compression Spinal Cord Injury" Sajad Fakhri, Amir Kiani, Cyrus Jalili, Fatemeh Abbaszadeh, Sana Piri, Mohammad Hosein Farzaei, **Mohsen Rastegari-Pouyani**, Ehsan Mohammadi-Noori, Haroon Khan  
**Current Molecular Pharmacology**
- "Production of monoclonal antibody against recombinant bovine sex determining region Y (SRY) and their preferential binding to Y-chromosome bearing sperm". Bijan Soleymani, Kamran Mansouri, **Mohsen Rastegari-Pouyani**, Shahram Parvaneh, Fatemeh Khademi, Mehdi Sharifi Tabar, Ali Mostafaie. **Reproduction in Domestic Animals**. 13 September 2020. doi:10.1111/rda.13821
- "The newly identified T helper 22 cells lodge in leukemia." Gholamreza Azizi, **Mohsen Rastegar Pouyani**, Shadi sadat Navabi, Reza Yazdani, Fatemeh Kiaee, and Abbas Mirshafiey. **International journal of hematology-oncology and stem cell research** 9, no. 3 (2015): 143.
- "*In vitro* cytotoxic and apoptotic activities of *Allium paradoxum* (M. Bieb.) G. Don extract on human breast cancer cell line." Naghmeh Gholipour, Sakineh Mashjoo, Malihe Naderi, **Mohsen Rastgar Pouyani**, Zeinab Emruzi Tubkanlu, Nader Mansour Samaei, and Hamideh Khajeh. (2018).
- "Association of Vitamin D Receptor Polymorphisms (*FokI* (Rs2228570), *ApaI* (Rs7975232), *BsmI* (Rs1544410), and *TaqI* (Rs731236)) with Gastric Cancer in a Kurdish Population from West of Iran" Zohreh Hoseinkhani, **Mohsen Rastegari-Pouyani**, Farahnaz Tajemiri, Kheirollah Yari, Kamran Mansouri. **Reports of Biochemistry & Molecular Biology**

## **Links to me**

**Researchgate:** [https://www.researchgate.net/profile/Mohsen\\_Rastegari-Pouyani](https://www.researchgate.net/profile/Mohsen_Rastegari-Pouyani)

**Google Scholar:** <https://scholar.google.com/citations?user=olYph4gAAAAJ&hl=en>

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## **Referee**

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