

Mohammad Sadegh Fallahi

Email: Fallahi.s2001@gmail.com

LinkedIn: <https://www.linkedin.com/in/mohammad-sadegh-fallahi-3042621b7/>

ResearchGate: <https://www.researchgate.net/profile/Mohammad-Sadegh-Fallahi>

Google Scholar: <https://scholar.google.com/citations?user=404SozgAAAAJ&hl=en>

EXPERIENCE

2022 – Present	CHILDREN'S MEDICAL CENTER HOSPITAL Research assistant Working on hydrocephalus projects under the supervision of Dr. Zohreh Habibi
2021 – 2022	TEHRAN HEART CENTER Research assistant Working on original and systematic review projects on the effects of vagus nerve stimulation on various cardiovascular disorders under the supervision of Dr. Ali Vasheghani-Farahani

EDUCATION

2019 – Present	TEHRAN UNIVERSITY OF MEDICAL SCIENCES Medicine
2023 – Present	TEHRAN UNIVERSITY OF MEDICAL SCIENCES Master of Public Health
2023 – Present	AMIRKABIR UNIVERSITY OF TECHNOLOGY Bachelor of Science in Computer Science

ACCOMPLISHMENTS

- Ranked 14th in the National University Entrance Exam
- Bronze medalist in the 14th Basic Sciences Olympiad by the Ministry of Health

COURSES & CERTIFICATES

- Supervised Machine Learning: Regression and Classification – Stanford University Online (Coursera) – Oct 2022

- fMRI Analysis Workshop – Neuroimaging Analysis Group (NIAG) – May 2022
- BCI & Neurotechnology Spring School – G.tec Medical Engineering – May 2022
- Computational Neuroscience – Neuromatch Academy – July 2022
- Organizing the Case Based Learning Session for International Medical Students – Student's International Committee of Medical School (SICoMS) – Jan 2022
- Deep Learning – Neuromatch Academy – July 2024
- NeuroAI – Neuromatch Academy – July 2025

PUBLICATIONS

1. Multisystem Inflammatory Syndrome and Autoimmune Diseases Following COVID-19: Molecular Mechanisms and Therapeutic Opportunities (2022) – Frontiers in Molecular Biosciences
DOI: <https://doi.org/10.3389/fmolb.2022.804109>
Parastoo Hosseini, **Mohammad Sadegh Fallahi**, Gisou Erabi, Majid Pakdin, Seyed Mahdi Zarezadeh, Arezoo Faridzadeh, Sarina Entezari, Arina Ansari, Mohadeseh Poudineh and Niloofar Deravi
2. Monoclonal antibodies for the treatment of acute lymphocytic leukemia: A literature review (2022) – Human Antibodies
DOI: [10.3233/HAB-211511](https://doi.org/10.3233/HAB-211511)
Hossein Pourmontaseri, Niloofar Habibzadeh, Sarina Entezari, Fatemeh Samadian, Shamim Kiyani, Mina Taheri, Ali Ahmadi, **Mohammad Sadegh Fallahi**, Farzad Sheikhzadeh, Arina Ansari, Amirhossein Tamimi; and Niloofar Deravi
3. Pharmacotherapeutic potential of soy isoflavones in neurological disorders (2022) – Neurology Asia
DOI: [10.54029/2022psy](https://doi.org/10.54029/2022psy)
Melika Mokhtari, Fatemeh Qolipour, Amir Hossein Yousefi, Dorsa Alijanzadeh, Qumars Kasnavi, Tina Sadeghi, Diba Akbarzadeh, **Mohammad Sadegh Fallahi**, Niloofar Deravi
4. Therapeutic Monoclonal Antibodies for Non-Hodgkin Lymphoma: A Literature Review (2023) – Current Cancer Therapy Reviews
DOI: [http://dx.doi.org/10.2174/1573394719666230201122212](https://dx.doi.org/10.2174/1573394719666230201122212)
Mohammad Sadegh Fallahi, Nasibeh Zerangian, Atousa Ghorbani, Gisou Erabi, Melika Shirali, Mahsa Heidari Foroozan, Elaheh Shabani, Foad Rommasi, Mahsa Mohammadi Najafabadi, Shima Karbasi Najafabadi, Samaneh Toutounchian, Ramin Ahangar-Sirous, Ava Motaghy and Niloofar Deravi
5. Application of Vagus Nerve Stimulation in Spinal Cord Injury Rehabilitation (2023) – World Neurosurgery
DOI: [http://dx.doi.org/10.1016/j.wneu.2023.02.101](https://dx.doi.org/10.1016/j.wneu.2023.02.101)
Mohammad Sadegh Fallahi, Sina Azadnajafabad, Seyed Farzad Maroufi, Ahmad Pour-Rashidi, MirHojjat Khorasanizadeh, Shahab Aldin Sattari, Sina Faramarzi, Konstantin V. Slavin
6. Mechanisms Underlying Tumor-Associated Macrophages (TAMs)-Facilitated Metastasis (2023) – Handbook of Cancer and Immunology
DOI: [http://dx.doi.org/10.1007/978-3-030-80962-1_66-1](https://dx.doi.org/10.1007/978-3-030-80962-1_66-1)
Elahe Alebrahim-Dehkordi, Niloofar Deravi, **Mohammad Sadegh Fallahi** & Nima Rezaei
7. Fundamental concepts of protein therapeutics and spacing in oncology: an updated comprehensive review (2023) – Medical Oncology
DOI: [10.1007/s12032-023-02026-5](https://doi.org/10.1007/s12032-023-02026-5)
Bahareh Farasati Far, Maryam Safaei, Fatemeh Mokhtari, **Mohammad Sadegh Fallahi** & Mohammad Reza Naimi-Jamal
8. Avail of the glass wool properties using the aperture-coupled technique to design a thermal smart jacket (2023) – Journal of Materials Science: Materials in Electronics
DOI: [http://dx.doi.org/10.1007/s10854-023-10792-1](https://dx.doi.org/10.1007/s10854-023-10792-1)
Sina Rahmani Charvadeh, Mohammad Hosseinzadeh, **Mohammad Sadegh Fallahi**, Javad Ghalibafan
9. Prophylactic cranial irradiation effect on survival in patients with small cell lung cancer: a comprehensive systematic review and meta-analysis (2023) – Neurosurgical FOCUS
DOI: <https://doi.org/10.3171/2023.5.FOCUS23225>

10. Radiosurgery With Prior Embolization Versus Radiosurgery Alone for Intracranial Arteriovenous Malformations: A Systematic Review and Meta-Analysis (2023) – Neurosurgery
DOI: <http://dx.doi.org/10.1227/neu.0000000000002699>
Seyed Farzad Maroufi, **Mohammad Sadegh Fallahi**, MirHojjat Khorasanizadeh, Muhammad Waqas, Jason P Sheehan
11. MRI features and disability in multiple sclerosis: A systematic review and meta-analysis (2024)– Journal of Neuroradiology
DOI: [10.1016/j.neurad.2023.11.007](https://doi.org/10.1016/j.neurad.2023.11.007)
Fardin Nabizadeh, Rasa Zafari, Mobin Mohamadi, Tahereh Maleki, **Mohammad Sadegh Fallahi**, Nazanin Rafiei
12. Stereotactic radiosurgery with versus without embolization for intracranial dural arteriovenous fistulas: a systematic review and meta-analysis (2024) – Neurosurgical Focus
DOI: <http://dx.doi.org/10.3171/2023.12.FOCUS23797>
Seyed Farzad Maroufi, **Mohammad Sadegh Fallahi**, Moein Ghasemi, Jason P Sheehan
13. Bile acid profile associated with CSF and PET biomarkers in Alzheimer's disease (2024) – Aging Clinical and Experimental Research
DOI: <http://dx.doi.org/10.1007/s40520-024-02729-3>
Fardin Nabizadeh, Parya Valizadeh, **Mohammad Sadegh Fallahi**
14. Stereotactic radiosurgery in the management of skull base chordomas: a comprehensive systematic review and meta-analysis (2024) – Neurosurgical Focus
DOI: [10.3171/2024.2.FOCUS249](https://doi.org/10.3171/2024.2.FOCUS249)
Seyed Farzad Maroufi, **Mohammad Sadegh Fallahi**, Mohammadmahdi Sabahi, Seyede Parmis Maroufi, Jason P Sheehan
15. Comparison between Woven EndoBridge and coiling with and without stent assistance for intracranial bifurcation and wide-neck aneurysms: a comprehensive systematic review and meta-analysis (2024) – Journal of Neurosurgery
DOI: <https://doi.org/10.3171/2024.2.JNS232531>
Seyed Farzad Maroufi, **Mohammad Sadegh Fallahi**, Muhammad Waqas, Elad I Levy
16. Robotic assisted Total Knee Arthroplasty (TKA) is not associated with increased patient satisfaction: A systematic review and meta-analysis (2024) – International orthopaedics
DOI: <https://doi.org/10.1007/s00264-024-06206-4>
Amir Human Hoveidaei, Sina Esmaeili, Amirhossein Ghaseminejad-Raeini, Kasma Pirahesh, **Mohammad Sadegh Fallahi**, Nemandra A Sandiford, Mustafa Citak
17. Awake versus asleep deep brain stimulation for Parkinson's disease: A comprehensive systematic review and meta-analysis (2024) – Journal of Neurosurgery
DOI: <https://doi.org/10.3171/2024.4.JNS232553>
Seyed Farzad Maroufi, **Mohammad Sadegh Fallahi**, Saba Hosseinzadeh Asli, MirHojjat Khorasanizadeh, Ahmad Pour Rashidi, Francisco A Ponce, Konstantin V Slavin
18. Distinct patterns of hippocampal subfield volumes predict coping strategies, emotion regulation, and impulsivity in healthy adults (2024) – Brain Imaging and Behavior
DOI: <https://doi.org/10.1007/s11682-024-00904-8>
Mohammad Sadegh Fallahi, Kianoosh Sahebekhtari, Helia Hosseini, Mohammad Mahdi Aliasin, Masoud Noroozi, Atousa Moghadam Fard, Mohammad Hadi Aarabi, David Gulisashvili, Mahan Shafie, Mahsa Mayeli
19. Focused ultrasound blood-brain barrier disruption in high-grade gliomas: Scoping review of clinical studies (2024) – Journal of Clinical Neuroscience
DOI: <https://doi.org/10.1016/j.jocn.2024.110786>
Seyed Farzad Maroufi, **Mohammad Sadegh Fallahi**, Seyede Parmis Maroufi, Jason P Sheehan
20. Woven endo bridge device for recurrent intracranial aneurysms: A systematic review and meta-analysis (2024) – The Neuroradiology Journal
DOI: <https://doi.org/10.1177/19714009241247457>
Mohammad Amin Habibi, Farhang Rashidi, **Mohammad Sadegh Fallahi**, Mohammad Reza Arshadi, Saba Mehrtabar, Mohammad Reza Ahmadi, Milad Shafizadeh, Shahram Majidi
21. Preoperative SSRI use increases perioperative transfusion need in patients undergoing surgical procedures on the hip joint (2024) – European Journal of Orthopaedic Surgery & Traumatology
DOI: <https://doi.org/10.1007/s00590-024-04069-4>
Amir Human Hoveidaei, Amirhossein Ghaseminejad-Raeini, **Mohammad Sadegh Fallahi**, Adrina Habibzadeh, Mohammad Saeid Khonji, Basilia Onyinyechukwu Nwankwo, Sarensa Palikhey, Janet D Conway

22. Digital Health/e-Health Literacy among University Students in the COVID-19 Era: A Systematic Review (2024) – Journal of Medical Education and Curricular Development
DOI: <https://doi.org/10.1177/23821205241262590>
Mohammad Sadegh Fallahi, Arezoo Faridzadeh, Mehrnaz Salahi, Reyhaneh Mehrabani, Hanieh Karimi, Ali Faraji, Saba Imanparvar, Masih Falahatian, Mohammadamin Bayat, Narges Norouzkhani, Seyed Amirhossein Mazhari, Minoo Roostaie, Seyedeh Fatemeh Sadatmadani, Mobina Fathi, Parisa Behshood, Niloofar Deravi
23. Long-term trends of publications in journal of neuro-oncology: a bibliographic study of a core journal in the field of neuro-oncology (2025) – Journal of Neuro-Oncology
DOI: <https://doi.org/10.1007/s11060-024-04869-y>
S Farzad Maroufi, S Parmis Maroufi, **Mohammad Sadegh Fallahi**, Jason P Sheehan
24. Preoperative versus postoperative stereotactic radiosurgery for brain metastases: a systematic review and meta-analysis of comparative studies (2025) – Neurosurgical Review
DOI: <https://doi.org/10.1007/s10143-024-03166-6>
S Farzad Maroufi, **Mohammad Sadegh Fallahi**, S Parmis Maroufi, Vida Kassaeyan, Paolo Palmisciano, Jason P Sheehan
25. Sacrificing the pituitary stalk: choice or coercion? (2025) – Journal of Neurosurgery
DOI: <https://doi.org/10.3171/2024.10.JNS242532>
Mohammad Sadegh Fallahi, S Farzad Maroufi
26. Percutaneous cryoablation in the management of spinal metastases: a comprehensive systematic review and meta-analysis (2025) – Journal of Neuro-Oncology
DOI: <https://doi.org/10.1007/s11060-025-05064-3>
Mohammad Sadegh Fallahi, S Farzad Maroufi, S Parmis Maroufi, MirHojjat Khorasanizadeh, Leonardo José Monteiro de Macêdo Filho, Konstantinos Margetis, Daipayan Guha, Claudio E Tatsui, Alireza Mansouri
27. Omalizumab Efficacy in Chronic Rhinosinusitis Patients with Recurrent Nasal Polyps: An open-label, single-center, randomized, controlled study (2025) – Annals of Otolaryngology, Rhinology & Laryngology
DOI: <https://doi.org/10.1177/00034894251344426>
Rafat Noeiaghdam, Hossein Esmaeilzadeh, Mohammad Faramarzi, Reza Moshfeghinia, **Mohammad Sadegh Fallahi**, Soheila Alyasin, Hesamedin Nabavizadeh, Negar Mortazavi
28. The performance of machine learning for predicting the recurrent stroke: a systematic review and meta-analysis on 24,350 patients (2025) – Acta Neurologica Belgica
DOI: <https://doi.org/10.1007/s13760-024-02682-y>
Mohammad Amin Habibi, Farhang Rashidi, Ehsan Mehrtabar, Mohammad Reza Arshadi, **Mohammad Sadegh Fallahi**, Nikan Amirkhani, Bardia Hajikarimloo, Milad Shafizadeh, Shahram Majidi, Adam A Dmytriw
29. Weekend open reduction and internal fixation of distal radius fractures associated with higher complication and readmission rates: a nationwide analysis of two hundred and sixty six thousand, three hundred and seventy eight patients (2025) – International Orthopaedics
DOI: <https://doi.org/10.1007/s00264-025-06517-0>
Amir Human Hoveidaei, Amirhossein Ghaseminejad-Raeini, **Mohammad Sadegh Fallahi**, Alireza Azarboo, Sina Esmaeili, Mohammad Ahmadi, Dawn M LaPorte, Janet D Conway
30. Comparison between pipeline embolization device (PED) versus flow redirection endoluminal device (FRED) for intracranial aneurysms: a comprehensive systematic review and meta-analysis (2025) – Neurosurgical Review
DOI: <https://doi.org/10.1007/s10143-025-03595-x>
Seyed Farzad Maroufi, **Mohammad Sadegh Fallahi**, Muhammad Waqas, Othman Bin-Alamer, Manisha Koneru, Joanna M Roy, Jane Khalife, Hamza A Shaikh, Daniel A Tonetti
31. Added Value of Adjunctive Middle Meningeal Embolization to Surgical Evacuation for Chronic Subdural Hematoma: Comprehensive Meta-Analysis Based on Controlling Confounders (2025) – Neurosurgery
DOI: <https://doi.org/10.1227/neu.0000000000003588>
S Farzad Maroufi, **Mohammad Sadegh Fallahi**, Sahar Afsahi, Risheng Xu, Justin M Caplan, L Fernando Gonzalez, Mark G Luciano