

## Curriculum Vitae and Summary of Scientific Activities

**Meghdad Abdollahpour-Alitappeh**

**Ph.D. in Pharmaceutical Biotechnology**

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**Nationality:** Iranian

**Born:** July 11, 1983

### ***Current Position***

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- Assistant Professor of Pharmaceutical Biotechnology (2018-present); Department of Physiology and Pharmacology, Pasteur Institute of Iran, Tehran, Iran

### ***Education***

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- Ph.D. in Pharmaceutical Biotechnology (2017); Pasteur Institute of Iran, Tehran, Iran  
Thesis: *Development of Trastuzumab-monomethyl auristatin E conjugate and assessment of its cytotoxic activity in vitro against HER2-positive human breast cancer.*
- M.Sc. in Medical Microbiology (2010); Razi Vaccine & Serum Research Institute, Karaj, Iran  
Thesis: *Genetic characterization of Leptospira vaccine strains constructed by Razi Institute using variable-number tandem repeat.*
- B.Sc. in Laboratory Sciences (2006); Islamic Azad University, Babol, Iran

### ***Research Experience***

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- Department of Physiology and Pharmacology, Pasteur Institute of Iran, Tehran, Iran (2023-Present)
- Cellular and Molecular Biology Research Center, Larestan University of Medical Sciences, Larestan, Iran (2018-2023)
- Research Institute for Gastroenterology and Liver Diseases, Shahid Beheshti University of Medical Sciences, Tehran, Iran (2017-2018)
- Pasteur Institute of Iran (2010-2017)
- Razi Vaccine and Serum Research Institute, Karaj, Iran (2007-2010)

### ***Research Interests***

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- Antibody-Drug Conjugates (ADCs)
- Immune-Stimulating Antibody Conjugates (ISACs)
- Peptide-Drug Conjugates (PDCs)
- Monoclonal Antibody (mAb)
- Targeted therapy
- Immunotherapy

### **Editorial Board Membership**

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- **Frontiers in Oncology** (IF: 6.244). August 2021  
Topic Editor  
The research topic: “*Adoptive T-Cell Therapy, iPSCs Technology, and the CRISPR/Cas9 Genome Editing System: A New Frontier in Cancer Treatment*”. <https://www.frontiersin.org/research-topics/25118/>
- **Frontiers in Immunology** (IF: 7.561). August 2020  
Advisor and Research Topic Coordinator and Developer of the research topic entitled “*Advances in Cell-based Treatments of Autoimmune Diseases: from expanded Tregs until CAR Tregs*”

### **Peer Review**

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- **Journal Peer-Reviewer**  
Invited reviewer for over 300 manuscripts across more than 40 international journals. Selected high-impact journal review experience includes:
  - The BMJ
  - Advanced Science
  - Journal for ImmunoTherapy of Cancer
  - Molecular Therapy
  - BBA Reviews on Cancer
  - British Journal of Pharmacology
  - Therapeutic Advances in Medical Oncology
- **Grant Review Panels**
  - **International:** Narodowe Centrum Nauki (NCN; National Science Centre, Poland); Dutch Cancer Society (KWF)
  - **National:** Pasteur Institute of Iran (5+ proposals); Larestan University of Medical Sciences (5+ proposals); Gerash University of Medical Sciences (5+ proposals); Jahrom University of Medical Sciences
- **Book & Translation Review**
  - *Cell Culture Technology* (Springer), Persian translation
  - *Pollard's Cell Biology* (Elsevier), Persian translation

### **Peer-reviewed Publications**

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- Yousef Mirzaei, Ali Hussein Mer, Bahia Fattah Maran, Leila Omidvar, Fatemeh Misamogooe, Zahra Amirkhani, Nafiseh Javaheri Haghighi, Nader Bagheri, Zahra Keshtkaran, Behzad Rezaei, Farshad Bargrizaneh, Saeed Jahandideh, Nesa Barpour, Hosein Shahsavarani, Ahmadreza Bazyari, [Meghdad Abdollahpour-Alitappeh\\*](#). *Clinical and preclinical advances in PSMA-Directed Antibody-Drug conjugates (ADCs): Current status and hope for the future*. **Bioorganic Chemistry**. 2024. DOI: [10.1016/j.bioorg.2024.107803](https://doi.org/10.1016/j.bioorg.2024.107803).
- Mohammad Javad Khosravanian, Yousef Mirzaei, Ali Hussein Mer, Maryam Keyhani-Khankahdani, Fatemeh Sarina Abdinia, Fatemeh Misamogooe, Zahra Amirkhani, Nader Bagheri, Anna Meyfour, Saeed Jahandideh, Nesa Barpour, Yousef Nikmanesh, Hosein Shahsavarani, [Meghdad Abdollahpour-Alitappeh\\*](#).

*Nectin-4-directed antibody-drug conjugates (ADCs): Spotlight on preclinical and clinical evidence.* **Life Sciences**. 2024. DOI: [10.1016/j.lfs.2024.122910](https://doi.org/10.1016/j.lfs.2024.122910).

- Behzad Rezaei, Alireza Shahedi, Zahra Keshtkaran, Ahmadreza Eidi, Hamed Delam, Khalil Safari, Rafat Shadmehr, [Meghdad Abdollahpour-Alitappeh](#). *Changes in incidence and mortality trend due to COVID-19 in southern Iran, from 2020 to 2021: based on Cochran–Armitage trend test.* **Journal of Public Health (Germany)**. 2024. DOI: [10.1007/s10389-023-01902-8](https://doi.org/10.1007/s10389-023-01902-8).
- Nasrin Pazoki, Mitra Salehi, Seyed Abdolhamid Angaji, [Meghdad Abdollahpour-Alitappeh](#). *Elucidating the impact of Y chromosome microdeletions and altered gene expression on male fertility in assisted reproduction.* **Human Molecular Genetics**. 2024. DOI: [10.1093/hmg/ddae086](https://doi.org/10.1093/hmg/ddae086).
- Ali Hussein Mer, Yousef Mirzaei, Fatemeh Misamogooe, Nader Bagheri, Ahmadreza Bazyari, Zahra Keshtkaran, Anna Meyfour, Alireza Shahedi, Zahra Amirkhani, Ameneh Jafari, Nesa Barpour, Saeed Jahandideh, Behzad Rezaei, Yousef Nikmanesh, [Meghdad Abdollahpour-Alitappeh\\*](#). *Progress of antibody–drug conjugates (ADCs) targeting c-Met in cancer therapy; insights from clinical and preclinical studies.* **Drug Delivery and Translational Research**. 2024. DOI: [10.1007/s13346-024-01564-3](https://doi.org/10.1007/s13346-024-01564-3).
- Nesa Barpour, Marjan Ghorbani, Behzad Baradaran, Zahra Jodari-Mohammadpour, Kazem Nejati-Koshki, [Meghdad Abdollahpour-Alitappeh](#), Rozhin Dabbaghi, Tohid Gharibi. *Development of an injectable chitosan-based hydrogel containing nano-hydroxy-apatite and alendronate for MSC-based therapy.* **International Journal of Biological Macromolecules**. 2024. DOI: [10.1016/j.ijbiomac.2024.129737](https://doi.org/10.1016/j.ijbiomac.2024.129737).
- Marziyeh Soltani, Yousef Mirzaei, Ali Hussein Mer, Mina Mohammad-Rezaei, Zahra Shafaghat, Soheila Fattahi, Fatemeh Azadegan-Dehkordi, [Meghdad Abdollahpour-Alitappeh](#), Nader Bagheri. *The Role of Innate and Adaptive Immune System in the Pathogenesis of Schizophrenia.* **Iranian Journal of Allergy, Asthma and Immunology**. 2024. DOI: [10.18502/ijaa.v23i1.14951](https://doi.org/10.18502/ijaa.v23i1.14951).
- Nasrin Pazoki, Mitra Salehi, Seyed Abdolhamid Angaji, [Meghdad Abdollahpour-Alitappeh](#). *Association of Y chromosome AZF region microdeletions with recurrent miscarriage in Iranian couples: A case–control study.* **Molecular Genetics & Genomic Medicine**. 2024. DOI: [10.1002/mgg3.2392](https://doi.org/10.1002/mgg3.2392).
- Ameneh Jafari, Masoumeh Farahani, [Meghdad Abdollahpour-Alitappeh](#), Asma Manzari-Tavakoli, Mohsen Yazdani, Mostafa Rezaei-Tavirani. *Unveiling diagnostic and therapeutic strategies for cervical cancer: biomarker discovery through proteomics approaches and exploring the role of cervical cancer stem cells.* **Frontiers in Oncology**. 2024. DOI: [10.3389/fonc.2023.1277772](https://doi.org/10.3389/fonc.2023.1277772).
- Sanaz Mojarab, Pegah Karimi, Delavar Shahbazzadeh, Majid Moghbeli, Kamran Pooshang Bagheri, Arezoo Beig Parikhani, Rada Dehghan, Ehsan Zafari, Amir Moravej, Mohammad Hassan Pouriayeali, Seyedeh Franak Mirtalebi, Mahdi Pakjoo, Shaghayegh Yazdani, [Meghdad Abdollahpour-Alitappeh](#), Mehdi Mahdavi. *Inactivated herpes simplex virus-1 vaccine formulated in aqueous and alcoholic extracts of propolis boosts cellular and IgG responses.* **Iranian Journal of Basic Medical Sciences**. 2024. DOI: [10.22038/IJBMS.2024.75158.16289](https://doi.org/10.22038/IJBMS.2024.75158.16289).
- Iman Karimzadeh, [Meghdad Abdollahpour-Alitappeh](#), Shokouh Ghaffari, Motahareh Mahi-Birjand, Amin Barkhordari, Effat Alemzadeh. *Aminoglycosides: Single-or Multiple-daily Dosing? An Updated Qualitative*

*Systematic Review of Randomized Trials on Toxicity and Efficacy. Current Molecular Medicine.* 2023. DOI: [10.2174/1566524023666230801160452](https://doi.org/10.2174/1566524023666230801160452).

- Yousof Saeedi Honar, Saleh Javaher, Marziye Soleimani, Amir Zarebkohan, Behrouz Farhadhosseinabadi, Masoud Tohidfar & **Meghdad Abdollahpour-Alitappeh\***. *Advanced stage, high-grade primary tumor ovarian cancer: a multi-omics dissection and biomarker prediction process. Scientific Reports.* 2023. DOI: [10.1038/s41598-023-44246-9](https://doi.org/10.1038/s41598-023-44246-9).
- Hajarossadat Ghaderi, Atefeh Alipour b, Arya Mohammadi Zadeh Holagh, Fatemeh Kazemi lomedasht, **Meghdad Abdollahpour-Alitappeh**, Hooman Kaghazian, Hosein Shahsavarani. *Recombinant antibody fragment therapeutics: Current status and future prospects of scFv, nanobody, and mimotopes. Journal of Drug Delivery Science and Technology.* 2023. DOI: [10.1016/j.jddst.2023.105009](https://doi.org/10.1016/j.jddst.2023.105009).
- Zohreh Najminejad, Fatemeh Dehghani, Yousef Mirzaei, Ali Hussein Mer, Seyyed Amirreza Saghi, Mohadeseh Haji Abdolvahab, Nader Bagheri, Anna Meyfour, Ameneh Jafari, Saeed Jahandideh, Tohid Gharibi, Zahra Amirkhani, Hamed Delam, Noushin Mashatan, Hosein Shahsavarani, **Meghdad Abdollahpour-Alitappeh\***. *Clinical Perspective: Antibody-Drug Conjugates (ADCs) for the Treatment of HER2-Positive Breast Cancer. Molecular Therapy.* 2023. DOI: [10.1016/j.ymthe.2023.03.019](https://doi.org/10.1016/j.ymthe.2023.03.019).
- Hamed Delam, Zahra Keshtkaran, Ahmadreza Eidi, Reza Zare, Alireza Shahedi, Soheil Hassanipour, Ehsan Amini-Salehi, **Meghdad Abdollahpour-Alitappeh**. *Survival Rate of Kidney Cancer in the Asian Countries: A Systematic Review and Meta-Analysis study. BMC Nephrology.* 2023. DOI: [10.21203/rs.3.rs-2706310/v1](https://doi.org/10.21203/rs.3.rs-2706310/v1).
- Mahshad Entezam, Mohammad-Javad Sanaei, Yousef Mirzaei, Ali Hussein Mer, **Meghdad Abdollahpour-Alitappeh**, Fatemeh Azadegan-Dehkordi, Nader Bagheri. *Current progress and challenges of immunotherapy in gastric cancer: A focus on CAR-T cells therapeutic approach. Life Sciences.* 2023. DOI: [10.1016/j.lfs.2023.121459](https://doi.org/10.1016/j.lfs.2023.121459).
- Mahsa Ghorbaninejad, **Meghdad Abdollahpour-Alitappeh**, Shabnam Shahrokh, Sara Fayazzadeh, Hamid Asadzadeh-Aghdaei and Anna Meyfour. *TGF- $\beta$  receptor I inhibitor may restrict the induction of EMT in inflamed intestinal epithelial cells. Experimental Biology and Medicine.* 2023. DOI: [10.1177/15353702231151959](https://doi.org/10.1177/15353702231151959).
- Hashemi S, Habibagahi Z, **Abdollahpour-Alitappeh M**, Karimi MH. *Effects of combined aerobic and anaerobic exercise training on cytokine profiles in patients with systemic lupus erythematosus (SLE); a randomized controlled trial. Transplant immunology.* 2022, 70, 101516. DOI: [10.1016/j.trim.2021.101516](https://doi.org/10.1016/j.trim.2021.101516).
- Ghorbaninejad M, Meyfour A, Maleknia S, Shahrokh Sh, **Abdollahpour-Alitappeh M**, Asadzadeh-Aghdaei H. *Inhibition of epithelial SHH signaling exerts a dual protective effect against inflammation and epithelial–mesenchymal transition in inflammatory bowel disease. Toxicology in Vitro.* 2022, 82, 105382. DOI: [10.1016/j.tiv.2022.105382](https://doi.org/10.1016/j.tiv.2022.105382).
- Eshraghi Y, Vahdani Y, Karimi P, **Abdollahpour-Alitappeh M**, Abdoli A, Taghizadeh M, Mahdavi M. *Immunomodulatory Effects of  $\alpha$ -Tocopherol on the H1N1 Influenza Vaccine: Improving the Potency and Efficacy of the Influenza Vaccine in Aged Mice. Viral immunology.* 2022, 35(3), pp. 244–253. DOI: [10.1089/vim.2021.0154](https://doi.org/10.1089/vim.2021.0154).

- Jafari A, Danesh Pouya F, Niknam Z, [Abdollahpour-Alitappeh M](#), Rezaei-Tavirani M, Rasmi Y. *Current advances and challenges in COVID-19 vaccine development: from conventional vaccines to next-generation vaccine platforms*. **Molecular Biology Reports**. 2022, 2;1-15. DOI: [10.1007/s11033-022-07132-7](#).
- Nazaripour E, Mosazadeh F, Rahimi S, Alijani H, Isaei H, Borhani F, Iravani S, Ghasemi M, Akbarizadeh MR, Azizi E, Sharifi F, Haghighat M, Hadizadeh S, Doosti Moghadam M, [Abdollahpour-Alitappeh M](#), Khatami M. *Ferromagnetic nickel (II) oxide (NiO) nanoparticles: biosynthesis, characterization and their antibacterial activities*. **Rendiconti Lincei. Scienze Fisiche e Naturali**. 2022. DOI: [10.1007/s12210-021-01042-9](#).
- Hemmati N, Kazemi S, Jamshidian-Tehrani N, Roozbeh J, Koushkie Jahromi M, Salesi M, [Abdollahpour-Alitappeh M](#), Karimi MH. *Effects of exercise training on immunological factors in kidney transplant recipients; a randomized controlled trial*. **Research in Sports Medicine**. 2022, 30(1), pp. 80–91. DOI: [10.1080/15438627.2021.1906671](#).
- Kazemian S, Ahmadi R, Rafiei A, Azadegan-Dehkordi F, Khaledifar A, [Abdollahpour-Alitappeh M](#), Bagheri N. *The Serum Levels of IL-36 in Patients with Coronary Artery Disease and Their Correlation with the Serum Levels of IL-32, IL-6, TNF- $\alpha$ , and Oxidative Stress*. **International Archives of Allergy and Immunology**. 2022, 183(10):1137-1145. DOI: [10.1159/000525845](#).
- Nezhad MS, Yazdanifar M, [Abdollahpour-Alitappeh M](#), Sattari A, Bagheri N. *Strengthening the CAR-T Cell Therapeutic Application using CRISPR/Cas9 Technology*. **Biotechnology and Bioengineering**, 2021, 118(10), pp. 3691–3705. DOI: [10.1002/bit.27882](#).
- Heydari R, [Abdollahpour-Alitappeh M](#), Shekari F, Meyfour A. *Emerging Role of Extracellular Vesicles in Biomarking the Gastrointestinal Diseases*. **Expert review of molecular diagnostics**. 2021, 21(9), pp. 939–962. DOI: [10.1080/14737159.2021.1954909](#).
- Fathi M, Nezamzadeh R, [Abdollahpour-Alitappeh M](#), Yazdi MH, Khoramabadi N, Mahdavi M. *Formulation of a recombinant HIV-1 polytope candidate vaccine with naloxone/alum mixture: Induction of multi-cytokine responses with a higher regulatory mechanism*. **APMIS**, 2021, 129(8), pp. 480–488. DOI: [10.1111/apm.13122](#).
- Kavousipour S, Barazesh M, Mohammadi S, [Abdollahpour-Alitappeh M](#), Fallahi S, Shakarami A, Hajmohammadi Z. *In Silico Evaluation of Various Signal Peptides to Improve Secretion of Humulin Protein in E. coli Host*. **Current Proteomics**. 2021, 18(3), pp. 390–402. DOI: [10.2174/1570164617999200807212433](#).
- Nezhad MS, [Abdollahpour-Alitappeh M](#), Rezaei B, Yazdanifar M, Seifalian AM. *Induced Pluripotent Stem Cells (iPSCs) Provide a Potentially Unlimited T Cell Source for CAR-T Cell Development and Off-the-Shelf Products*. **Pharmaceutical Research**. 2021:1-15. DOI: [10.1007/s11095-021-03067-z](#).

- Jafari A, Babajani A, **Abdollahpour-Alitappeh M**, Ahmadi N, Rezaei-Tavirani M. *Exosomes and cancer: from molecular mechanisms to clinical applications*. **Medical Oncology**. 2021, 38(4), 45. DOI: [10.1007/s12032-021-01491-0](https://doi.org/10.1007/s12032-021-01491-0).
- Gharibi T, Hosseini A, Marofi F, Oraei M, Jahandideh S, **Abdollahpour-Alitappeh M**, Hashemi V, Motalebnezhad M, Babaloo Z, Baradaran B. *Corrigendum to "IL-21 and IL-21-producing T cells are involved in multiple sclerosis severity and progression"*[Immunol. Lett. 216 (2019) 12-20]. **Immunology letters**. 2021, 232, pp. 67. DOI: [10.1016/j.imlet.2020.12.013](https://doi.org/10.1016/j.imlet.2020.12.013).
- Mohammad-Rezaei M, Arefnezhad R, Ahmadi R, **Abdollahpour-Alitappeh M**, Mirzaei Y, Arjmand MH, Ferns GA, Bashash D, Bagheri N. *An overview of the innate and adaptive immune system in atherosclerosis*. **IUBMB Life**. 2021, 73(1), pp. 64–91. DOI: [10.1002/iub.2425](https://doi.org/10.1002/iub.2425).
- Azadegan-Dehkordi F, Shirzad H, Ahmadi R, Bashash D, **Abdollahpour-Alitappeh M**, Luzzza F, Larussa T, Nahid-Samiei M, Rahimian G, Shafigh M-H. *Increased Indoleamine 2, 3-Dioxygenase expression modulates Th1/Th17/Th22 and Treg pathway in humans with Helicobacter Pylori-Infected gastric mucosa*. **Human immunology**. 2021, 82(1), pp. 46–53. DOI: [10.1016/j.humimm.2020.10.005](https://doi.org/10.1016/j.humimm.2020.10.005).
- Yaghoubi S, Gharibi T, Nezhad MS, Seifalian A, Tavakkol R, Bagheri N, Dezhkam A, **Abdollahpour-Alitappeh M\***. *Development and biological assessment of MMAE-trastuzumab antibody–drug conjugates (ADCs)*. **Breast Cancer**. 2021, 28(1), pp. 216–225. DOI: [10.1007/s12282-020-01153-5](https://doi.org/10.1007/s12282-020-01153-5).
- Sanaei M-J, Shirzad H, Soltani A, **Abdollahpour-Alitappeh M**, Shafigh M-H, Rahimian G, Mirzaei Y, Bagheri N. *Up-regulated CCL18, CCL28 and CXCL13 Expression is Associated with the Risk of Gastritis and Peptic Ulcer Disease in Helicobacter Pylori infection*. **The American Journal of the Medical Sciences**. 2021, 361(1), pp. 43–54. DOI: [10.1016/j.amjms.2020.07.030](https://doi.org/10.1016/j.amjms.2020.07.030).
- Sarani EM, Ahmadi J, Oji B, Mahi-Birjand M, Bagheri N, Bazrafshan A, Manshadi MD, Yaghoubi S, Dezhkam A, Khatami M, **Abdollahpour-Alitappeh M**. *Investigating the sequential patterns of methamphetamine use initiation in Iran*. **Substance Abuse Treatment, Prevention, and Policy**. 2020, 15(1), s13011-020-00297-z. DOI: [10.1186/s13011-020-00297-z](https://doi.org/10.1186/s13011-020-00297-z).
- Nezhad MS, Seifalian A, Bagheri N, Yaghoubi S, Karimi MH, **Abdollahpour-Alitappeh M\***. *Chimeric Antigen Receptor Based Therapy as a Potential Approach in Autoimmune Diseases: How Close Are We to the Treatment?* **Frontiers in immunology**. 2020, 11, 603237. DOI: [10.3389/fimmu.2020.603237](https://doi.org/10.3389/fimmu.2020.603237).
- Peydayesh M, Raisi M, Kaykavousi K, Gharaghani MA, **Abdollahpour-Alitappeh M**, Mosazade F, Seifalian A, Khatami M. *The inhibitory effect of Tamarix hispida mediated silver nanoparticles on Cyclin D1 protein expression of human cancer cells line*. **Inorganic and Nano-Metal Chemistry**. 2020, 50(11), pp. 1144–1149. DOI: [10.1080/24701556.2020.1735432](https://doi.org/10.1080/24701556.2020.1735432).
- Maroufi F, Maali A, **Abdollahpour-Alitappeh M**, Ahmadi MH, Azad M. *CRISPR-mediated modification of DNA methylation pattern in the new era of cancer therapy*. **Epigenomics**. 2020, 12(20), pp. 1845–1859. DOI: [10.2217/epi-2020-0110](https://doi.org/10.2217/epi-2020-0110).

- Mahi-Birjand M, Karimzadeh I, Zarban A, [Abdollahpour-Alitappeh M](#), Saadatjoo SA, Ziaee M. *Protective effects of silymarin on gentamicin-induced nephrotoxicity in infectious patients: a randomized double blinded placebo-controlled clinical trial*. **Pharmaceutical Sciences**. 2020, 26(3), pp. 287–295. DOI: [10.34172/PS.2020.33](#).
- Sepehr KS, Razavi A, Hassan ZM, Fazel A, [Abdollahpour-Alitappeh M](#), Mossahebi-Mohammadi M, Yekaninejad MS, Farhadhosseinabadi B, Hashemi SM. *Comparative immunomodulatory properties of mesenchymal stem cells derived from human breast tumor and normal breast adipose tissue*. **Cancer Immunology, Immunotherapy**. 2020, 69(9), pp. 1841–1854. DOI: [10.1007/s00262-020-02567-y](#).
- Roohvand F, Ehsani P, [Abdollahpour-Alitappeh M](#), Shokri M, Kossari N. *Biomedical applications of yeasts-a patent view, part two: era of humanized yeasts and expanded applications*. **Expert opinion on therapeutic patents**. 2020, 30(8), pp. 609–631. DOI: [10.1080/13543776.2020.1781816](#).
- Najminejad H, Farhadhosseinabadi B, Dabaghian M, Dezhkam A, Yousofabadi ER, Najminejad R, [Abdollahpour-Alitappeh M](#), Karimi MH, Bagheri N, Mahi-Birjand M. *Key Regulatory miRNAs and their Interplay with Mechanosensing and Mechanotransduction Signaling Pathways in Breast Cancer Progression*. **Molecular Cancer Research**. 2020, 18(8), pp. 1113–1128. DOI: [10.1158/1541-7786.MCR-19-1229](#).
- Gharibi T, Babaloo Z, Hosseini A, [Abdollahpour-Alitappeh M](#), Hashemi V, Marofi F, Nejati K, Baradaran B. *Targeting STAT3 in cancer and autoimmune diseases*. **European journal of pharmacology**. 2020, 878, 173107. DOI: [10.1016/j.ejphar.2020.173107](#).
- Yaghoubi S, Najminejad H, Dabaghian M, Karimi MH, [Abdollahpour-Alitappeh M](#), Rad F, Mahi-Birjand M, Mohammadi S, Mohseni F, Sobhani Lari M. *How hypoxia regulate exosomes in ischemic diseases and cancer microenvironment? IUBMB life*. 2020, 72(7), pp. 1286–1305. DOI: [10.1002/iub.2275](#).
- Mahi-Birjand M, Yaghoubi S, [Abdollahpour-Alitappeh M](#), Keshtkaran Z, Bagheri N, Pirouzi A, Khatami M, Sineh Sepehr K, Peymani P, Karimzadeh I. *Protective effects of pharmacological agents against aminoglycoside-induced nephrotoxicity: A systematic review*. **Expert opinion on drug safety**. 2020, 19(2), pp. 167–186. DOI: [10.1080/14740338.2020.1712357](#).
- Najafimehr H, Hajizadeh N, Nazemalhosseini-Mojarad E, Pourhoseingholi MA, [Abdollahpour-Alitappeh M](#), Ashtari S, Zali MR. *The role of Human leukocyte antigen class I on patient survival in Gastrointestinal cancers: a systematic review and meta-analysis*. **Scientific reports**. 2020, 10(1), 728. DOI: [10.1038/s41598-020-57582-x](#).
- Khatami M, Alijani HQ, Mousazadeh F, Hashemi N, Mahmoudi Z, Darijani S, Bamorovat M, Keyhani A, [Abdollahpour-Alitappeh M](#), Borhani F. *Calcium carbonate nanowires: greener biosynthesis and their leishmanicidal activity*. **Rsc Advances**. 2020, 10(62), pp. 38063–38068. DOI: [10.1039/d0ra04503a](#).
- Azhdari S, Sarabi RE, Rezaeizade N, Mosazade F, Heidari M, Borhani F, [Abdollahpour-Alitappeh M](#), Khatami M. *Metallic SPIONP/AgNP synthesis using a novel natural source and their antifungal activities*. **Rsc Advances**. 2020, 10(50), pp. 29737–29744. DOI: [10.1039/D0RA04071A](#).

- Yaghoubi S, Karimi MH, Lotfinia M, Gharibi T, Mahi-Birjand M, Kavi E, Hosseini F, Sineh Sepehr K, Khatami M, Bagheri N, **Abdollahpour-Alitappeh M\***. *Potential drugs used in the antibody–drug conjugate (ADC) architecture for cancer therapy*. **Journal of cellular physiology**. **2020**, 235(1), pp. 31–64. DOI: [10.1002/jcp.28967](https://doi.org/10.1002/jcp.28967).
- Khatami M, Sarani M, Mosazadeh F, Rajabalipour M, Izadi A, **Abdollahpour-Alitappeh M**, Lima Nobre MA, Borhani F. *Nickel-doped cerium oxide nanoparticles: green synthesis using stevia and protective effect against harmful ultraviolet rays*. **Molecules**. **2019**, 24(24), 4424. DOI: [10.3390/molecules24244424](https://doi.org/10.3390/molecules24244424).
- Najminejad H, Kalantar SM, Mokarram AR, Dabaghian M, **Abdollahpour-Alitappeh M**, Ebrahimi SM, Tebianian M, Fasihi Ramandi M, Sheikhha MH. *Bordetella pertussis antigens encapsulated into N-trimethyl chitosan nanoparticulate systems as a novel intranasal pertussis vaccine*. **Artificial cells, nanomedicine, and biotechnology**. **2019**, 47(1), pp. 2605–2611. DOI: [10.1080/21691401.2019.1629948](https://doi.org/10.1080/21691401.2019.1629948).
- Gharibi T, Hosseini A, Marofi F, Oraei M, Jahandideh S, **Abdollahpour-Alitappeh M**, Hashemi V, Motallebnezhad M, Babaloo Z, Baradaran B. *IL-21 and IL-21-producing T cells are involved in multiple sclerosis severity and progression*. **Immunology letters**. **2019**, 216, pp. 12–20. DOI: [10.1016/j.imlet.2019.09.003](https://doi.org/10.1016/j.imlet.2019.09.003).
- Najminejad H, Kalantar SM, **Abdollahpour-Alitappeh M**, Karimi MH, Seifalian AM, Gholipourmalekabadi M, Sheikhha MH. *Emerging roles of exosomal miRNAs in breast cancer drug resistance*. **IUBMB life**. **2019**, 71(11), pp. 1672–1684. DOI: [10.1002/iub.2116](https://doi.org/10.1002/iub.2116).
- Lotfinia M, **Abdollahpour-Alitappeh M**, Hatami B, Zali MR, Karimipoor M. *Adeno-associated virus as a gene therapy vector: strategies to neutralize the neutralizing antibodies*. **Clinical and experimental medicine**. **2019**, 19(3), pp. 289–298. DOI: [10.1007/s10238-019-00557-8](https://doi.org/10.1007/s10238-019-00557-8).
- Sereshgi MMA, **Abdollahpour-Alitappeh M**, Mahdavi M, Ranjbar R, Ahmadi K, Taheri RA, Fasihi-Ramandi M. *Immunologic balance of regulatory T cell/T helper 17 responses in gastrointestinal infectious diseases: Role of miRNAs*. **Microbial pathogenesis**. **2019**, 131, pp. 135–143. DOI: [10.1016/j.micpath.2019.03.029](https://doi.org/10.1016/j.micpath.2019.03.029).
- **Abdollahpour-Alitappeh M\***, Lotfinia M, Gharibi T, Mardaneh J, Farhadihosseinabadi B, Larki P, Faghfourian B, Sepehr KS, Abbaszadeh-Goudarzi K, Abbaszadeh-Goudarzi G. *Antibody–drug conjugates (ADCs) for cancer therapy: Strategies, challenges, and successes*. **Journal of cellular physiology**. **2019**, 234(5), pp. 5628–5642. DOI: [10.1002/jcp.27419](https://doi.org/10.1002/jcp.27419).
- Javadian M, Gharibi T, Shekari N, **Abdollahpour-Alitappeh M**, Mohammadi A, Hossieni A, Mohammadi H, Kazemi T. *The role of microRNAs regulating the expression of matrix metalloproteinases (MMPs) in breast cancer development, progression, and metastasis*. **Journal of cellular physiology**. **2019**, 234(5), pp. 5399–5412. DOI: [10.1002/jcp.27445](https://doi.org/10.1002/jcp.27445).
- **Abdollahpour-Alitappeh M**, Lotfinia M, Bagheri N, Sineh Sepehr K, Habibi-Anbouhi M, Kobarfard F, Balalaie S, Foroumadi A, Abbaszadeh-Goudarzi G, Abbaszadeh-Goudarzi K. *Trastuzumab-monomethyl auristatin E conjugate exhibits potent cytotoxic activity in vitro against HER2-positive human breast cancer*. **Journal of cellular physiology**. **2019**, 234(3), pp. 2693–2704. DOI: [10.1002/jcp.27085](https://doi.org/10.1002/jcp.27085).

- **Abdollahpour-Alitappeh M\***, Hashemi Karouei SM, Lotfinia M, Amanzadeh A, Habibi-Anbouhi M. *A developed antibody–drug conjugate rituximab-vcMMAE shows a potent cytotoxic activity against CD20-positive cell line. Artificial cells, nanomedicine, and biotechnology.* **2018**, 46(sup2), pp. 1–8. DOI: [10.1080/21691401.2018.1449119](https://doi.org/10.1080/21691401.2018.1449119).
- **Abdollahpour-Alitappeh M**, Razavi-Vakhshourpour S, Abolhassani M. *Development of a new anti-CD123 monoclonal antibody to target the human CD123 antigen as an acute myeloid leukemia cancer stem cell biomarker.* **Biotechnology and applied biochemistry.** **2018**, 65(6), 841-847. DOI: [10.1002/bab.1681](https://doi.org/10.1002/bab.1681).
- Farhadihosseinabadi B, Hosseini F, Larki P, Bagheri N, Abbaszadeh-Goudarzi K, Sinehsepehr K, Johari B, **Abdollahpour-Alitappeh M**. *Breast Cancer: Risk Factors, Diagnosis and Management.* **Medical Laboratory Journal.** **2018**, 12(5), pp. 1-9. DOI: [10.29252/mlj.12.5.1](https://doi.org/10.29252/mlj.12.5.1).
- Hosseini A, Dolati S, Hashemi V, **Abdollahpour-Alitappeh M**, Yousefi M. *Regulatory T and T helper 17 cells: Their roles in preeclampsia.* **Journal of cellular physiology.** **2018**, 233(9), pp. 6561–6573. DOI: [10.1002/jcp.26604](https://doi.org/10.1002/jcp.26604).
- Asadzadeh Aghdaei H, Pezeshkian Z, **Abdollahpour-Alitappeh M**, Nazemalhosseini Mojarad E, Zali MR. *The Role of Angiogenesis in Colorectal Polyps and Cancer, a Review.* **Medical Laboratory Journal.** **2018**, 12(4), pp. 1-6. DOI: [10.29252/mlj.12.4.1](https://doi.org/10.29252/mlj.12.4.1).
- Azad N, Nazarian H, Novin MG, Farahani RM, Piryaee A, Heidari MH, **Alitappeh MA**. *Oligoasthenoteratozoospermic (OAT) men display altered phospholipase C  $\zeta$  (PLC $\zeta$ ) localization and a lower percentage of sperm cells expressing PLC $\zeta$  and post-acrosomal sheath WW domain-binding protein (PAWP).* **Bosnian journal of basic medical sciences.** **2018**, 18(2), pp. 178–184. DOI: [10.17305/bjbms.2017.2208](https://doi.org/10.17305/bjbms.2017.2208).
- Sineh Sepehr K, Razavi A, Saeidi M, Mossahebi-Mohammadi M, **Abdollahpour-Alitappeh M**, Hashemi SM. *Development of a novel explant culture method for the isolation of mesenchymal stem cells from human breast tumor.* **Journal of Immunoassay and Immunochemistry.** **2018**, 39(2), pp. 207–217. DOI: [10.1080/15321819.2018.1447487](https://doi.org/10.1080/15321819.2018.1447487).
- Mousavi SS, Shohrati M, Vahedi E, **Abdollahpour-Alitappeh M**, Panahi Y. *Effect of melatonin administration on sleep quality in sulfur mustard exposed patients with sleep disorders.* **Iranian journal of pharmaceutical research: IJPR.** **2018**, 17(Special Issue), pp. 136–144.
- Amanzadeh A, Heidarnejad F, **Abdollahpour-Alitappeh M**, Molla-Kazemiha V, Yari S, Hadizadeh-Tasbiti A, Habibi-Anbouhi M, Abolhassani M, Shokrgozar MA. *Development of high-affinity monoclonal antibody using CD44 overexpressed cells as a candidate for targeted immunotherapy and diagnosis of acute myeloid leukemia.* **Human antibodies.** **2017**, 26(1), pp. 7–15. DOI: [10.3233/HAB-170315](https://doi.org/10.3233/HAB-170315).
- **Abdollahpour-Alitappeh M**, Habibi-Anbouhi M, Balalaie S, Golmohammadi F, Lotfinia M, Abolhassani M. *A new and simple non-chromatographic method for isolation of drug/linker constructs: vc-MMAE evaluation.* **Journal of Herbmmed Pharmacology.** **2017**, 6(4), pp. 153–159.

- Roohvand F, Shokri M, **Abdollahpour-Alitappeh M**, Ehsani P. *Biomedical applications of yeast-a patent view, part one: yeasts as workhorses for the production of therapeutics and vaccines. Expert opinion on therapeutic patents.* **2017**, 27(8), pp. 929–951. DOI: [10.1080/13543776.2017.1339789](https://doi.org/10.1080/13543776.2017.1339789).
- **Abdollahpour-Alitappeh M**, Lotfinia M, Razavi-Vakhshourpour S, Jahandideh S, Najminejad H, Sepehr KS, Moazami R, Shams E, Habibi-Anbouhi M, Abolhassani M. *Evaluation of factors influencing antibody reduction for development of antibody drug conjugates.* **Iranian biomedical journal.** **2017**, 21(4), pp. 270–274. DOI: [10.18869/acadpub.ijb.21.4.270](https://doi.org/10.18869/acadpub.ijb.21.4.270).
- Amini Y, Tebianian M, Mosavari N, Fasihi Ramandi M, Ebrahimi SM, Najminejad H, Dabaghian M, **Abdollahpour M**. *Development of an effective delivery system for intranasal immunization against Mycobacterium tuberculosis ESAT-6 antigen.* **Artificial cells, nanomedicine, and biotechnology.** **2017**, 45(2), pp. 291–296. DOI: [10.3109/21691401.2016.1146735](https://doi.org/10.3109/21691401.2016.1146735).
- **Abdollahpour-Alitappeh M**, Amanzadeh A, Heidarnejad F, Habibi-Anbouhi M, Lotfinia M, Razavi-Vakhshourpour S, Jahandideh S, Najminejad H, Balalaie S, Abolhassani M. *Monomethyl auristatin E, a potent cytotoxic payload for development of antibody-drug conjugates against breast cancer.* **Novelty in Biomedicine.** **2017**, 5(3), pp. 98-103. DOI: [10.22037/nbm.v5i3.15523](https://doi.org/10.22037/nbm.v5i3.15523).
- **Abdollahpour-Alitappeh M**, Razavi-vakhshourpour S, Lotfinia M, Jahandideh S, Najminejad H, Balalaie S, Moazzami R, Shams E, Habibi-Anbouhi M, Abolhassani M. *Monomethyl auristatin E Exhibits Potent Cytotoxic Activity against Human Cancer Cell Lines SKBR3 and HEK293.* **Novelty in Biomedicine.** **2017**, 5(4), pp. 145-51. DOI: [10.22037/nbm.v5i4.15221](https://doi.org/10.22037/nbm.v5i4.15221).
- Samadikuchaksaraei A, Gholipourmalekabadi M, Saberian M, **Alitappeh MA**, Delshad ES. *How does the supernatant of Lactobacillus acidophilus affect the proliferation and differentiation activities of rat bone marrow-derived stromal cells?* **Cellular and Molecular Biology.** **2016**, 62(10), pp. 1–6. DOI: [10.14715/cmb/2016.62.10.1](https://doi.org/10.14715/cmb/2016.62.10.1).
- Khodashahri SB, Siadat SD, Rahbar M, **Abdollahpour-Alitappeh M**, Vaziri F, Rahnamaye-Farzami M, Mohammadzadeh M, Davari M, Fateh A, Masoumi M. *Genotyping of Haemophilus influenzae type b strains and their incidence in the clinical samples isolated from Iranian patients.* **Iranian journal of microbiology.** **2015**, 7(3), pp. 136–143.
- Siadat SD, Vaziri F, Eftekhary M, Karbasian M, Moshiri A, Aghasadeghi MR, Ardestani MS, **Alitappeh MA**, Arsang A, Fateh A. *Preparation and evaluation of a new lipopolysaccharide-based conjugate as a vaccine candidate for brucellosis.* **Osong public health and research perspectives.** **2015**, 6(1), pp. 9–13. DOI: [10.1016/j.phrp.2014.10.012](https://doi.org/10.1016/j.phrp.2014.10.012).
- Nejad-Moghaddam A, Panahi Y, **Alitappeh MA**, Borna H, Shokrgozar MA, Ghanei M. *Therapeutic potential of mesenchymal stem cells for the treatment of airway remodeling in pulmonary diseases.* **Iranian Journal of Allergy Asthma and Immunology.** **2015**, 14(6), pp. 552–568.
- Abdoli A, Soleimanjahi H, Tavassoti Kheiri M, Jamali A, Mazaheri V, **Abdollahpour Alitappeh M**. *An H1-H3 chimeric influenza virosome confers complete protection against lethal challenge with PR8 (H1N1) and*

X47 (H3N2) viruses in mice. *Pathogens and disease*. 2014, 72(3), pp. 197–207. DOI: [10.1111/2049-632X.12206](https://doi.org/10.1111/2049-632X.12206).

- Sepehr KS, Baradaran B, Mazandarani M, Yousefi B, [Alitappeh MA](#), Khori V. *Growth-inhibitory and apoptosis-inducing effects of Punica Granatum L. var. spinosa (apple punice) on fibrosarcoma cell lines*. *Advanced pharmaceutical bulletin*. 2014, 4, pp. 583–590. DOI: [10.5681/apb.2014.086](https://doi.org/10.5681/apb.2014.086).
- Naderi A, Kasra-Kermanshahi R, Gharavi S, Fooladi AAI, [Alitappeh MA](#), Saffarian P. *Study of antagonistic effects of Lactobacillus strains as probiotics on multi drug resistant (MDR) bacteria isolated from urinary tract infections (UTIs)*. *Iranian journal of basic medical sciences*. 2014, 17(3), pp. 201–208. DOI: [10.22038/ijbms.2014.2407](https://doi.org/10.22038/ijbms.2014.2407).

### ***Conferences***

- ***A Member of Executive Committee***. 2<sup>nd</sup>, Laboratory and Medicine Congress; 13-16 May 2008; Tehran, Iran.
- ***A Member of Executive Committee***. 5<sup>th</sup> Virology and 1st Vaccine Congress of Iran; May 2009; Karaj, Iran.
- ***A Member of Scientific Committee***. 15<sup>th</sup> Iranian and International Congress of Microbiology; August 2014; Tehran, Iran.
- ***A Member of Executive Committee***. 4<sup>th</sup> Iranian Congress on Progress in Tissue Engineering and Regenerative Medicine; November 2018; Tehran, Iran.

### ***Oral Presentations***

- [Meghdad Abdollahpour-Alitappeh\\*](#), Zahra Keshtkaran, Majid Lotfinia, Esmaeil Kavi, Mohammad Hossein karimi\*. *Antibody-Drug Conjugates (ADCs) for Cancer Therapy; Key Requirements*. **Oral Presentation**. 2<sup>nd</sup> Annual Congress of Chemistry, Chemical Engineering, and Nanotechnology with from Research to National Development. 14 March 2019, Tehran, Iran.
- [Abdollahpour-Alitappeh Meghdad](#), Lotfinia Majid, Keshtkaran Zahra, Mohammad Hossein Karimi. *Lacto-N-fucopentaose (LNFP III) loaded electrospun Polydioxanone (PDO) scaffolds in treatment of non-healing wounds: a combination of biological and mechanical modulation of type 2 immune response and MQ polarization toward M2 macrophage*. **Oral Presentation**. 4<sup>th</sup> International and 6<sup>th</sup> National Congress of Wound and Tissue Healing (The Future of Wounds and Scars). 19-22 November 2019. Razi Conference Center, Tehran; Iran.
- Zeinab Rastegar Moghadam Barkharaman, Saeme Asgari, [Meghdad Abdollahpour-Alitappeh](#). *HER2-positive breast cancer-targeting antibody-drug conjugates (ADCs) in clinical trials*. 16th International congress of Medical Lab. and Clinic. Razi International Conference Centre, Tehran, Iran. 21-23 Dec. 2024.

### ***Poster Presentations***

- [Meghdad Abdollahpour-Alitappeh](#), Pejvak Khaki, Sohiela Moradi bidhendi, Majid Esmaelizad, Keivan Tadayon. *Standardization of Variable–Number Tandem–Repeat method for characterization of pathogenic Leptospira spp.* 11<sup>th</sup> Iranian Microbiology Congress & 1 East Mediterranean Microbiology Congress, Guilan University of Medical Sciences, 10-13 May 2010, Guilan, Iran.
- Pejvak Khaki, Sohiela Moradi bidhendi, Galayanee Dounghawee, Majid Esmaelizad, Raha Ashor Zadeh, [Meghdad Abdollahpour-Alitappeh](#), Mohammad Reza Afkhamnia. *Detection of pathogenic Leptospire in urine from cattle by PCR*.

- P. Khaki\*, **M. Abdollahpour-Alitappeh**, S. Moradi Bidhendi, M. Esmaelizad, K. Tadayon (Karaj, IR). *Genomic identification of pathogenic and non-pathogenic Leptospire by multilocus variable-number tandem-repeat analysis*. 20<sup>th</sup> European Congress of Clinical Microbiology and Infectious Diseases (ECCMID). April 12, 2010.
- **Meghdad Abdollahpour-Alitappeh**, Pejvak Khaki, Sohiela Moradi bidhendi, Hamid Najminejad, Majid Esmaelizad, Keivan Tadayon. *Genetic characterization of Variable–Number of Tandem-Repeat method for differentiation between Leptospira.Canicola & icteroheamorrhagiae serovars*. 11<sup>th</sup> Iranian Genetic Congress, 22- 24 May 2010, Tehran, Iran.
- **Meghdad Abdollahpour-Alitappeh**, Pejvak Khaki, Sohiela Moradi bidhendi, Hamid Najminejad,Majid Esmaelizad, Keivan Tadayon. *Molecular differentiation between Leptospira Canicola & Leptospira icteroheamorrhagiae serovars by Variable-Number Tandem-Repeat (VNTR) analysis*. 2<sup>nd</sup> National Congress on Leptospirosis, Mazandaran University of Medical Sciences.
- Mehdi Ghamgosha, Hamid Najminejad, **Meghdad Abdollahpour-Alitappeh**. The first Case Report of Mycetoma in Zahedan. 6<sup>th</sup> Iranian Congress of Clinical Microbiology & The First International Congress of Clinical Microbiology.
- **Meghdad Abdollahpour-Alitappeh**, Sohiela Moradi bidhendi,Majid Esmaelizad, Keivan Tadayon, Pejvak Khaki. *Genomic characterization of pathogenic Leptospira spp.by Variable–Number of Tandem-Repeat method*. VII<sup>th</sup> meeting of the International Leptospirosis Society, September 19<sup>th</sup>- 22<sup>nd</sup>, 2011. Mérida, Yucatán, MEXICO.
- **Meghdad Abdollahpour-Alitappeh**, Mazaher Gholipourmalekabadi, Mohamad Eftekhary, Amir Zarebkohan, Jamal Adiban, Behrouz Farhadihosseinabadi. *Amniotic epithelial cell encapsulation in the anti-MAdCAM-1coated alginate microcapsules; a new strategy for IBD therapy*. 4<sup>th</sup> National Congress on the Development of Medical and Reconstructive Medical Engineering in Iran; Tehran, Iran; 2019.
- **Meghdad Abdollahpour-Alitappeh**, Zahra Keshtkaran, Esmaeil Kavi, Azade Amini Kadijani, Mohammad Hossein karimi. *Personalized medicine in patients with colorectal cancer*. The 3<sup>rd</sup> Iranian International Personalized Medicine Congress; Tehran; Iran; 2019.
- **Meghdad Abdollahpour-Alitappeh**, Majid Lotfinia, Sina Ostevar. *Antibody–drug conjugates (ADCs) for cancer therapy; consideration for ADC synthesis*. National Conference on New Technologies in the Field of Chemical Engineering and Life Sciences; Tehran; Iran; 2019.
- Esmaeil Kavi, Gholamhossein Teimouri, Zahra Keshtkaran, Mohammad Hossein karimi, **Meghdad Abdollahpour-Alitappeh**. *Biomarkers Expressed in Cancer Stem Cells in Colorectal Cancer*. International Congress of Updates in common Gastrointestinal Cancers; Golestan; Iran; 2019.
- **Meghdad Abdollahpour-Alitappeh**, Zahra Keshtkaran, Mohammad Hossein karimi, Gholamhossein Teimouri, Esmaeil Kavi. *Panitumumab-conjugated antibodies for the treatment of colorectal cancer patients*. International Congress of Updates in common Gastrointestinal Cancers; Golestan; Iran; 2019.
- **Meghdad Abdollahpour-Alitappeh**, Gholamhossein Teimouri, Farshad Bargrizaneh, Hossein Shayesteh. *Herbs suitable for the treatment of type 2 diabetes: a review*. The 8th international conference on green gold; Tehran; Iran; 2019.
- Behrouz Farhadihosseinabadi, Mozhdeh Mohammadian, Ameneh Jafari, **Meghdad Abdollahpour-Alitappeh**, Mazaher Gholipuormalekabadi, Koushan Sineh Sepehr, Ali Samadikuchaksaraei, Hassan Niknejad. *Type 2 Immune Response and Skin Tissue Engineering*. TISSUE ENGINEERING: Part A. Volume 28, Supplement 1, 2022. Mary Ann Liebert, Inc.
- Sina Ostevar. **Meghdad Abdollahpour-Alitappeh**. Treatment of diabetic ulcers with honey: A systematic review. The first research congress of students of Hormozgan University of Medical Sciences. 2019.

## ***Books***

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- **Authored Book**
  - [Meghdad Abdollahpour-Alitappeh](#), Ali Karimi, Zahra Pakbaz, and Sajjad Yaghoubi. Descriptive textbook of medical microbiology.
- **Translated Books**
  - Medical biotechnology; Bernard R. Glick, Terry L. Delovitch, Cheryl L. Patten (Translated into Persian by [Meghdad Abdollahpour-Alitappeh](#), Hamid Madanchi, Faezeh Maghsoud, Mohadeseh Mohsenabadi Farahani, Farnaz Khodabakhsh, Narges Hosseini, Saeed Zanganeh, Zohreh Soltanpour, Mehdi Kadivar, Amineh Khoshnazar, Kimia Rafiei Bozhani, Amirhossein)
  - A Comprehensive Overview of Basic and Advanced Molecular Cell Techniques (Translated into Persian by Behrouz Johari, Saeed Kargozar, Jamil Zargan, Zohreh Soltanatpour, Mehdi Kadivar, [Meghdad Abdollahpour-Alitappeh](#), Majid Lotfinia, Mohammad Moradi, Daniel Ashiani)

## ***Professional Experiences***

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- Familiar with specialized softwares
- DNA & RNA purification
- PCR and Real-time PCR
- Agarose and polyacrylamide gel electrophoresis
- Molecular Cloning
- Primer design
- Cell culture (Cell bank of Pasteur Institute of Iran)
- Production of monoclonal antibody (hybridoma and large scale)
- Bioconjugation techniques (lysine- and cysteine-based conjugation)
- Production of Antibody-Drug Conjugate (In-vitro scale)
- Handling, feeding, and collecting specimen from mouse, rat, rabbit, etc.
- Animal manipulation: Immunization, creating Tumor, feeder layer
- Immunological techniques: such as MTT, western blotting, ELISA, TUNEL and Flow cytometry
- Biochemistry techniques: PAGE, SDS-PAGE, purification techniques, including affinity chromatography, FPLC and HPLC (size exclusion, reverse phase and HIC)
- Design, establishment and setup of Cellular and Molecular Biology Research Center at Larestan University of Medical Sciences, Larestan, Iran
- Design and establishment of animal house for research at Larestan University of Medical Sciences, Larestan, Iran

## Projects

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- **As a PI**
  - Development and Characterization of STING agonist-Conjugated Rituximab (an Immuno-stimulating Rituximab Conjugate) (**PI; Pasteur Institute of Iran, Iran; 2025**)
  - Antibody-drug conjugates against breast cancer in clinical trials (**PI; Larestan University of Medical Sciences, Larestan, Iran; 2022**)
  - The evaluation of Engineered scaffold by 3D Printing of human placenta extracellular matrix-fibroin silk-alginate for deep wound healing in mouse model (**PI; Larestan University of Medical Sciences, Larestan, Iran; 2021**)
  - Design, construction, and evaluation of Covid-19 real-time PCR diagnostic kit (**PI; Larestan University of Medical Sciences, Larestan, Iran; 2021**)
  - Evaluation of immune responses following administration of non-parenteral pertussis nano-vaccine prepared by CpG in an animal model (**PI; Grash University of Medical Sciences, Grash, Iran; 2020**)
  - Investigation and comparison of the effect of metformin and everolimus in age-associated phenotypical and functional features of T lymphocytes in vitro and in vivo (**PI; Larestan University of Medical Sciences, Larestan, Iran; 2020**)
  - Synthesis and evaluation of anti-microbial peptide against Multidrug-resistant Pseudomonas aeruginosa strains using combined Filtering Database Technology and Template-Assisted Approach methods (**PI; Grash University of Medical Sciences, Grash, Iran; 2019**)
  - Development and biological assessment of MMAE-trastuzumab antibody–drug conjugates (ADCs) (**PI; Research Grant Award for Young Assistant Professor; Ministry of Health and Medical Education; 2019**)
  - Production of PEI-miR-126 nanoplex and evaluation of its effects on function, survival and angiogenesis of Human Langerhans Island cells (**PI; Larestan University of Medical Sciences, Larestan, Iran; 2018**)
  
- **As a Co-PI**
  - In silico prediction of multi-epitope subunit vaccine using structural and non-structural viral proteins to prevent Ebstein-Barr virus-related malignancies (**Co-PI; Shahrekord University of Medical Sciences, Shahrekord, Iran; 2024**)
  - A review of new approaches in gastric cancer immunotherapy (**Co-PI; Shahrekord, Iran; 2022**)
  - The role of the immune system in the pathogenesis of schizophrenia: a review (**Co-PI; Shahrekord University of Medical Sciences, Shahrekord, Iran; 2022**)
  - Evaluation of changes in IL-10 and TNF-alpha cytokines in response to injection of polytopic structures containing HPV E5 and E7 genes in C57BL/6 tumor mice model (**Co-PI; Shahrekord University of Medical Sciences, Shahrekord, Iran; 2022**)
  - Design and Performance Evaluation of a Chemical Autoclave Indicator Strip (**Co-PI; Larestan University of Medical Sciences, Larestan, Iran; 2022**)
  - Liver Cancer Stem Cells: A Review of Biomarkers, Signaling Pathways, and Targeted Therapeutic Strategies (**Co-PI; Shahrekord University of Medical Sciences, Shahrekord, Iran; 2021**)
  - The evaluation of 3D Printing scaffold by human placenta extracellular matrix- fibroin silk-alginate on osteogens of mesenchymal stem cells in vivo (**Co-PI; Larestan University of Medical Sciences, Larestan, Iran; 2021**)
  - Evaluation of Survival rate of patients with Kidney cancer in Asian countries A systematic review and meta-analysis (**Co-PI; Larestan University of Medical Sciences, Larestan, Iran; 2021**)

- Investigating the Epidemiological status of COVID-19 in Larestan University of Medical Sciences in the period February 2020 to June 2021 (Co-PI; Larestan University of Medical Sciences, Larestan, Iran; 2021)
- Evaluation of cytotoxicity effects of Trastuzumab (Herceptin) on various breast cancer cell lines (Co-PI; Zanzan University of Medical Sciences, Zanzan, Iran; 2018)
- Serotyping of Salmonella spp. Isolated from Livestock and Poultry in Fars Province, Iran (Co-PI; Razi Vaccine and Serum Research Institute, Iran; 2010)
- Field Evaluation of a Trivalent Inactivated Klebsiella Vaccine for Poultry (Co-PI; Razi Vaccine and Serum Research Institute, Iran; 2009)
- Isolation and Identification of Pathogenic Leptospira Serovars in Tehran Province (Co-PI; Razi Vaccine and Serum Research Institute, Iran; 2008)

### **Course Teaching**

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- ADC Design and Development (M.Sc.-level course in Medical Biotechnology- Shahid Beheshti University- May 2025)
- ADC Design and Development (Ph.D.-level course in Pharmaceutical Biotechnology-Pasteur Institute of Iran-April 2025)
- Lectures for Talented Students at Larestan University of Medical Sciences (Personalized Medicine, 2019)
- Lectures for Professors at Larestan University of Medical Sciences ("Biology for Peace, 2019", "Ethics in Biotechnology" and "Introduction to Biotechnology, 2019")
- Microbiology (Laboratory) for B.Sc.. nursing students (2019; Larestan University of Medical Sciences)
- Information Technology (IT) for B.Sc.. Anesthesia Technology students (2019, 2021, 2022; Larestan University of Medical Sciences)
- Information Technology (IT) for B.Sc. operation room students (2018, 2019, 2021, 2022; Larestan University of Medical Sciences)
- Information Technology (IT) for B.Sc. nursing students (2018, 2019, 2021, 2022; Larestan University of Medical Sciences)
- Biochemistry for B.Sc. Anesthesia Technology students (2022; Larestan University of Medical Sciences)
- Biochemistry for B.Sc. operation room students (2021, 2022; Larestan University of Medical Sciences)
- Biochemistry for B.Sc. nursing students (2018, 2019, 2021, 2022; Larestan University of Medical Sciences)
- Immunology Principles for B.Sc. Nutritional Sciences students (2019, 2021, 2022; Larestan University of Medical Sciences)
- Immunology for B.Sc. operation room students (2019, 2021, 2022; Larestan University of Medical Sciences)
- Immunology & Genetics for B.Sc. nursing students (2018, 2019, 2021, 2022; Larestan University of Medical Sciences)
- Medical Microbiology course for medical students (2013; Islamic Azad University, Zahedan Branch)
- Genetic Engineering course for M.Sc. students (2011; Islamic Azad University, East Tehran Branch)
- Specialized English language course for M.Sc. students (2011; Islamic Azad University, East Tehran Branch)
- Translation Techniques in English, TOEFL (MSRT & MHLE) preparation courses (2009-2017)
- Immunology course for M.Sc. students (2008; Razi Vaccine and Serum Research Institute)
- Molecular and Cellular Biology course for M.Sc. students (2008; Razi Vaccine and Serum Research Institute)

### **Workshop Instructors**

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- Design and Construction of Antibody-Drug Conjugate (ADC) (August 2025; Biotechnology Society of the Islamic Republic of Iran)
- Design and Optimization of Antimicrobial Peptides (April 2025; Gerash University of Medical Sciences)
- Strategies for making antibody-drug conjugates (ADCs; March 2025; Pasteur Institute of Iran)
- Design and Optimization of Antimicrobial Peptides (January 2025; Neyshabur University of Medical Sciences)

### **Supervised Master's/PhD Theses**

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- **Supervised Theses**
  - **Fatemian, Fatemeh Sadat** (Expected: August 2025). *Synthesis and Mechanistic Evaluation of an Anti-CD20 Antibody-Drug Conjugate (Rituximab-SMCC-DM1) in Non-Hodgkin Lymphoma: Impact on Apoptotic Signaling via qPCR and Protein Analysis*. [Master's Thesis in Cellular and Molecular Biology, Islamic Azad University, Science and Research Branch, Tehran, Iran]. **Role: Principal Supervisor.** (Thesis Ongoing)
  - **Asadollahi, Negar** (Expected: June 2024). *Development and Assessment of a Trastuzumab-CL2A-SN-38 Conjugate for the Treatment of Breast Cancer: Evaluation in SKBR3 and MDA-MB-468 Cell Lines*. [Master's Thesis in Medical Biotechnology, Islamic Azad University, Tehran Medical Branch, Tehran, Iran]. **Role: Principal Supervisor.** (Thesis Ongoing)
  - **Rastegar Moghadam Barkharaman, Zeinab** (Expected: April 2025). *Synthesis and Evaluation of the Antitumor Activity of the Antibody-Drug Conjugate Rituximab-CL2A-SN38 Against CD20-Positive Cancer Cells for the Treatment of Non-Hodgkin Lymphoma*. [Master's Thesis in Biochemistry, Islamic Azad University, Tehran Medical Branch, Tehran, Iran]. **Role: Principal Supervisor.** (Thesis Ongoing)
  - **Javaher, Saleh** (Defended: September 2023). *Identification, Evaluation, and Modification of Plant-Derived Cyclic Peptides with Anticancer Properties Using a Combined Database Filtering and Template-Based Approach: A Computational Modeling Study*. [Master's Thesis in Plant Biotechnology, Shahid Beheshti University of Medical Sciences, Tehran, Iran]. **Role: Principal Supervisor.**
- **Co-Supervised Theses**
  - **Shirini, Elahe** (Defended: February 2024). *Evaluation of Changes in IL-10 and TNF-alpha Cytokines in Response to Injection of Polytopic Construct Containing HPV E5 and E7 Genes in a C57BL/6 Mouse Tumor Model*. [Master's Thesis in Immunology, Shahrekord University of Medical Sciences, Shahrekord, Iran]. **Role: Thesis Advisor.** (Main Supervisor: Dr. Nader Bagheri).
  - **Ghiyath-Zadeh, Amir Mohammad** (Defended: February 2024). *Investigating the Synergistic Effects of Metabolites Derived from Pichia Yeast Isolated from Horse Milk in Combination with Antibiotics on Gram-Positive and Gram-Negative Bacteria*. [Doctor of Veterinary Medicine (DVM) Thesis, Islamic Azad University, Babol Branch, Babol, Iran]. **Role: Thesis Advisor.** (Main Supervisor: Main Supervisor: Dr. Seyed Masoud Hashemi Karouei).
  - **Maleki, Hossein** (Defended: February 2023). *Stimulation of the Immune System in Mice Using a Combination of Pediococcus acidilactici and Pichia Yeast Against Systemic Infection by Escherichia coli Bacteria*. [Master's Thesis in Microbiology, Islamic Azad University, Babol Branch, Babol, Iran]. **Role: Thesis Advisor.** (Main Supervisor: Dr. Seyed Masoud Hashemi Karouei).

- **Bozorgi, Mohammad Hossein** (Defended: February 2023). *Immune System Stimulation by *Pediococcus acidilactici* Bacteria and *Pichia kudriavzevii* Against Candidiasis Through Interleukin-17 Production and Cellular Respiration*. [Doctor of Veterinary Medicine (DVM) Thesis, Islamic Azad University, Babol Branch, Babol, Iran]. **Role: Thesis Advisor.** (Main Supervisor: Dr. Seyed Masoud Hashemi Karouei).
- **Shokri Bashli, Amirhossein** (Defended: February 2023). *Stimulation of the Immune System in Mice Using *Pediococcus acidilactici* Bacteria Against *Staphylococcus aureus**. [Master's Thesis in Microbiology, Islamic Azad University, Babol Branch, Babol, Iran]. **Role: Thesis Advisor.** (Main Supervisor: Dr. Seyed Masoud Hashemi Karouei).
- **Abdi, Golrokh** (Defended: February 2023). *Stimulation of the Immune System in Mice Using *Pichia* Yeast Against Systemic Infection Induced by *E. coli**. [Master's Thesis in Microbiology, Islamic Azad University, Babol Branch, Babol, Iran]. **Role: Thesis Advisor.** (Main Supervisor: Dr. Seyed Masoud Hashemi Karouei).
- **Nematzadeh Gharakhili, Faizeh** (Defended: April 2021). *Evaluation of the Drug Interaction Between a Metabolite Derived from *Lactobacilli* and Antibiotics on Bacteria Causing Urinary Tract Infections*. [Master's Thesis in Microbiology, Islamic Azad University, Babol Branch, Babol, Iran]. **Role: Thesis Advisor.** (Main Supervisor: Dr. Seyed Masoud Hashemi Karouei).
- **Azizi Alamdari, Mohammadrasoul** (Defended: April 2021). *Evaluation of the Drug Interaction Between a Metabolite Derived from *Pediococcus* and Antibiotics on Bacteria Isolated from Urinary Tract Infections*. [Master's Thesis in Microbiology, Islamic Azad University, Babol Branch, Babol, Iran]. **Role: Thesis Advisor.** (Main Supervisor: Dr. Seyed Masoud Hashemi Karouei).
- **Vase'i, Maryam** (Defended: November 2020). *Evaluation of the Antifungal Effects of Aqueous and Alcoholic Extracts of *Rue (Ruta graveolens)* on the Growth of Standard and Pathogenic *Candida albicans**. [Doctor of Veterinary Medicine (DVM) Thesis, Islamic Azad University, Babol Branch, Babol, Iran]. **Role: Thesis Advisor.** (Main Supervisor: Dr. Seyed Masoud Hashemi Karouei).
- **Rajabi, Amirreza** (Defended: September 2020). *Isolation and Identification of *Penicillium chrysogenum* and *Penicillium notatum* with Antibacterial Effects from Citrus Fruits*. [Doctor of Veterinary Medicine (DVM) Thesis, Islamic Azad University, Babol Branch, Babol, Iran]. **Role: Thesis Advisor.** (Main Supervisor: Dr. Seyed Masoud Hashemi Karouei).
- **Pazoki, Nasrin** (Defended: December 2020). *Investigating the Association of Y Chromosome Microdeletions in AZF Regions with Male Infertility in Patients with Azoospermia and Oligospermia using STS Sequencing and Multiplex PCR in Tehran*. [PhD Thesis in Molecular Genetics, Islamic Azad University, Science and Research Branch, Tehran, Iran]. **Role: Thesis Advisor.** (Main Supervisor: Dr. Mitra Salehi).
- **Najminejad, Hamid** (Defended: September 2019). *Development of a Non-Injectable Nanovaccine for Pertussis and Evaluation of its Immune Responses in an Animal Model*. [PhD Thesis in Molecular Medicine, Yazd University of Medical Sciences, Yazd, Iran]. **Role: Thesis Advisor.** (Main Supervisor: Dr. Mohammad Hasan Sheikhha).

### **Honors and Awards**

- Head of the Student Research Committee, Pasteur Institute of Iran (2025 - Present)

- Head of Incubation and Innovation Center, Larestan University of Medical Sciences, Larestan, Iran (2022-2023)
- Head of Cellular and Molecular Biology Research Center, Larestan University of Medical Sciences, Larestan, Iran (2020-2023)
- Research Director at Larestan University of Medical Sciences (2018-2023)
- Top researcher at Larestan University of Medical Sciences, 2021
- Setup of Coronavirus Detection Laboratory in Larestan, 2020
- Top researcher at Larestan University of Medical Sciences, 2019
- Cover Image (Journal of Cellular Physiology-Cover Image, Volume 235, Number 1, January 2020; <https://onlinelibrary.wiley.com/doi/abs/10.1002/jcp.29259>)
- Cover Image (IUMB Journal- Cover Image, Volume 71, Number 11, January 2019)
- Top Cited Paper 2020-2021 (WILEY)-(*Potential drugs used in the antibody-drug conjugate (ADC) architecture for cancer therapy*)
- Top Downloaded Paper 2018-2019 (Journal of cellular physiology)-(*Antibody–drug conjugates (ADCs) for cancer therapy: Strategies, challenges, and successes*)
- Top professor at Larestan University of Medical Sciences, 2019 (Elected by Larestan University of Medical Sciences' students)
- Research Grant Award for Young Assistant Professor (Ministry of Health and Medical Education)
- Ranked 9<sup>th</sup> position in the countrywide PhD entrance exam, 2010
- Ranked 17<sup>th</sup> position in the countrywide M.Sc. entrance exam, 2007
- Ranked first position in the countrywide B.Sc.. entrance exam, 2004

### ***Scientific Webs***

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- <https://www.scopus.com/authid/detail.uri?authorId=56433588400>
- <https://scholar.google.com/citations?user=Yu8XQzUAAAAJ&hl=en>
- <https://www.researchgate.net/profile/Meghdad-Abdollahpour-Alitappeh>
- <https://orcid.org/0000-0002-5260-2527>
- <https://publons.com/researcher/1644187/meghdad-abdollahpour-alitappeh/>
- [https://isid.research.ac.ir/Meghdad\\_Abdollahpouralitappeh](https://isid.research.ac.ir/Meghdad_Abdollahpouralitappeh)

### ***Memberships***

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- Member of the Knowledge Translation Committee, Pasteur Institute of Iran (2025 - Present)
- A member of Faculty Members of Macro-region 5 Medical Universities in Iran (2018-2023)
- A member of Ethics Committee at Larestan University of Medical Sciences (2018-2023)
- A member of Research Committee at Larestan University of Medical Sciences (2018-2023)

### ***Computer and software Skills***

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- EndNote (reference management)
- GraphPad Prism (statistics software)
- SPSS 24 (statistics software)

- NCBI and PubMed
- Word
- Excel
- Power point

## ***References***

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- **Prof. Alireza Foroumadi**  
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