

# DR. HAMID BASHIR

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## PUBLICATIONS IN IMPACT FACTOR JOURNALS

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1. Gul, Rabia, Wajeeha Khalid, Muhammad Sarfraz, Yousef A. Bin Jordan, Muhammad Ikram, Hamid Bashir, Nadeem Ahmad et al. "Human plasma-derived exosomal gel: a biomimetic cargo for the transdermal delivery of methotrexate." *Journal of Drug Targeting* 34, no. 3 (2026): 408-423.
2. Khalid, Wajeeha, Rabia Gul, Muhammad Sarfraz, Hamid Bashir, Nadeem Ahmad, Nayab Tahir, Aneela Javed et al. "Development and Characterization of Exosomes Mediated Transdermal Gel for Enhanced Delivery of Hydroxyurea." *Journal of Pharmaceutical Innovation* 21, no. 5 (2026): 450.
3. Rehman, Hafiz Muhammad, Muhammad Shoaib, Maria Ahmed, Ume Kalsoom, Ayesha Qayyum, and Hamid Bashir. "Precision-Engineered Fusion Peptide for Breast Cancer Therapy: A Molecular Docking and Simulation Study." *Biomedical Research and Therapy* 13, no. 4 (2026): 8531-8543.
4. Zaroon, Shakira Aslam, Hafsa, Usama Mustafa, Sana Fatima, and Hamid Bashir. "Interleukin in immune-mediated diseases: an updated review." *Molecular Biotechnology* 67, no. 12 (2025): 4403-4417.
5. Saihar, Aisha, Allah Rakha Yaseen, Muhammad Suleman, Rukhsana Parveen, and Hamid Bashir. "From bytes to bites: In-silico creation of a novel multi-epitope vaccine against Murray Valley Encephalitis Virus." *Microbial Pathogenesis* 198 (2025): 107171.
6. Rehman, Hafiz Muhammad, Sidra Ahmad, Azeem Sarwar, and Hamid Bashir. "Unlocking the potential of tumor-targeting peptides in precision oncology." *Oncology Research* 33, no. 7 (2025): 1547.
7. Rehman, Hafiz Muhammad, Memoona Naz, Ayesha Ghulam Ghous, Mahwash Malik, Sidra Ahmad, and Hamid Bashir. "Computational design and evaluation of a novel temporin 1CEa-IL24 fusion protein for anti-tumor potential." *Biomedical Research and Therapy* 12, no. 2 (2025): 7138-7152.
8. Zaroon, Hafsa, Tehreem Fatima, and Hamid Bashir. "Ribosomal-Inactivating Proteins, Their Sources, and Pharmacological Potential." *Revista Brasileira de Farmacognosia* 35, no. 2 (2025): 308-324.
9. Rehman, Hafiz Muhammad, Muhammad Bilal, Muhammad Shoaib, Tahir Latif, Rabbani Syed, Fahid Khalid, Muhammad Naveed Khan et al. "Development of an epitope-based vaccine from mycoplasma genitalium adhesion protein: addressing antibiotic resistance through immune-informatics." *Toxicology Research* 14, no. 4 (2025): tfaf102.
10. Mustafa, Usama, Shakira Aslam, and Hamid Bashir. "Recent Advancement, Mechanisms of Action and Applications of Tumor-Targeting Peptides." *Biomedical Research and Therapy* 12, no. 7 (2025): 7602-7620.
11. Nadeem, Tariq, Salma Shad, Shakira Aslam, Hamid Bashir, Shabana Wagi, Shaila Mehwish, and Shehla Khan. "The Role of Artificial Intelligence in Pharmaceutical Biotechnology." In *Pharmaceutical Biotechnology*, pp. 190-200. CRC Press, 2025.
12. Rehman, Hafiz Muhammad, and Hamid Bashir. "Development and characterization of Melittin-IL-24 fusion protein with synergistically enhanced anti-tumor activity." *Biomedical Research and Therapy* 12, no. 9 (2025): 7723-7731.
13. Kalsoom, Maria, Hafiz Muzzammel Rehman, Yasamin Al-Qassab, Hafiz Muhammad Rehman, Rabbani Syed, Nadeem Ahmed, Yurong Wu, Ahmed A. Al-Qahtani, Tariq Nadeem, and Hamid Bashir. "Structural insights and predictive modelling of a novel anti-HER2 scFv and Leptulipin: a newly designed immunotoxin protein for HER2 positive cancers." *Toxicology Research* 14, no. 3 (2025): tfaf060.
14. Fatima, Tehreem, Mian Muhammad Mubasher, Hafiz Muhammad Rehman, Sakina Niyazi, Abdullah R. Alanzi, Maria Kalsoom, Sania Khalid, and Hamid Bashir. "Computational modeling study of IL-15-NGR peptide fusion protein: a targeted therapeutics for hepatocellular carcinoma." *AMB Express* 14, no. 1 (2024): 1-15.X
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16. Aslam, Shakira, Faisal Zulfiqar, Warda Hameed, Shahnaila Qureshi, Zaroon, and Hamid Bashir. "Fusion proteins development strategies and their role as cancer therapeutic agents." *Biotechnology and applied biochemistry* 71, no. 1 (2024): 81-95.
17. Rehman, Hafiz Muhammad, Numan Yousaf, Syeda Mahlaqa Hina, Tariq Nadeem, Mushtaq Ahmad Ansari, Afeefa Chaudry, Iram Kafait, Sania Khalid, Abdullah R. Alanzi, and Hamid Bashir. "Design and computational

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18. Khalid, Sania, Hafiz Muhammad Rehman, Yasamin Al-Qassab, Irfan Ahmad, Tehreem Fatima, Mian Muhammad Mubasher, Maria Kalsoom, Tariq Nadeem, and Hamid Bashir. "Design and computational analysis of a novel Leptulipin-p28 fusion protein as a multitarget anticancer therapy in breast cancer." *Toxicology Research* 13, no. 5 (2024): tfae174.
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  20. Shakoor, Rafia, Nazim Hussain, Hamid Bashir, and Muhammad Hamza Ashraf. "Plant biomass materials in cosmetic application." In *Plant Biomass Applications*, pp. 185-208. Academic Press, 2024.
  21. Bilal, M., H. Bashir, R. Ameen, A. Sumrin, M. Hussain, and S. Manzoor. "Atividade anti-HCV e inibição da expressão de marcadores HCC por extrato de proteína de Iberis gibraltárica." *Brazilian Journal of Biology* 84 (2024): e252676.
  22. Gul, Rabia, Hamid Bashir, Muhammad Sarfraz, Ahson Jabbar Shaikh, Yousaf A. Bin Jordan, Zahid Hussain, Muhammad Hassham Hassan Bin Asad et al. "Human plasma derived exosomes: Impact of active and passive drug loading approaches on drug delivery." *Saudi Pharmaceutical Journal* (2024): 102096. **Category W**
  23. Rehman, Hafiz Muhammad, Wardah Shoaib, Muhammad Naveed Khan, Numan Yousaf, Fareeha Bashir, Hamid Bashir, Qurban Ali, and Shiming Han. "A Comprehensive In Silico Study of the NDB-IL-24 Fusion Protein for Tumor Targeting: A Promising Anti-Cancer Therapeutic Candidate." (2024). **Category X**
  24. Bashir, Hamid. "Investigation of antibacterial and hepatoprotective activity of Lectin protein from *Lepidium sativum* seeds." *Arabian Journal of Medicinal and Aromatic Plants* 9, no. 3 (2023): 41-53. **X**
  25. REHMAN, HAFIZ MUHAMMAD, HAFIZ MUZZAMMEL REHMAN, NADEEM AHMED, MUHAMMAD IMRAN., SHAKIRA ASLAM & HAMID BASHIR<sup>1,\*</sup> "In silico Design and Evaluation of Novel Cell Targeting Melittin-Interleukin-24 Fusion Protein: A Potential Drug Candidate Against Breast Cancer." *Sains Malaysiana* 52, no. 11 (2023): 3223-3237 **Category W**
  26. Zaron, Numan yousaf, Shakira Aslam, Shahnaila Qureshi, and **Hamid Bashir**. "In silico investigation of a novel anti-EGFR scFv-IL-24 fusion protein induces apoptosis in malignant cells." *Journal of Molecular Modeling* 29, no. 9 (2023): 282. **Category X**
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  29. NADEEM, TARIQ, NADEEM AHMED, MUHAMMAD ISLAM KHAN, and **HAMID BASHIR**. "ESTABLISHMENT OF POTENT ANTI-INFLAMMATORY IL-1RA SUPERKINE ANTAGONIST USING E. COLI BL21 (DE3) STRAIN." **Category X**
  30. The Use of Forensic Musicology in Criminal Investigations; Zaron; Jumana Rashid; Anwaar Iftikhar; Hamid Bashir; Rukhsana Parveen\* *Austin Journal of Forensic Science and Criminology*, June 20, 2023
  31. Saeed, Muhammad Usama, **Hamid Bashir**, Nazim Hussain, Amjad Nawaz, Muhammad Adnan Ali, Ajaz Ahmad, Saiful Malook, and Qurban Ali. "Developing a Subunit Vaccine against SARS-CoV-2 Using Bioinformatics Insights on Cytotoxic T-Lymphocytes (CTLs) Epitopes." (2023). **Category X**
  32. Aslam, Shakira, Faisal Zulfiqar, Warda Hameed, Shahnaila Qureshi, Zaron, and **Hamid Bashir**. "Fusion proteins development strategies and their role as cancer therapeutic agents." *Biotechnology and Applied Biochemistry* (2023). **Category X**
  33. Aslam, Shakira, Ali Umair, Zaid Aslam, Muhammad Zafar Saleem, and **Hamid Bashir**. "CRISPR/Cas System: An Effective Tool Against Pathogenic Diseases." *Postępy Mikrobiologii-Advancements of Microbiology* 62, no. 2 (2023): 87-99. **Category X**

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35. Mahmood, Tehreem, Areej Shahbaz, Nazim Hussain, Rahat Ali, **Hamid Bashir**, and Komal Rizwan. "Recent advancements in fusion protein technologies in oncology: A review." *International Journal of Biological Macromolecules* (2023): 123161. **Category W**
36. Fujimura, Nao Akusa, Seerat E. Fatima, Nadeem Ahmed, Muhammad Akram, Saad Tahir, Mohsin Ahmad Khan, Imran Amirzada, Tariq Nadeem, **Hamid Bashir**, and Kausar Malik. "Evaluation of exosomes encapsulated recombinant Interleukin-29 for its in vitro anticancer studies." *Journal of Biotechnology* 373 (2023): 24-33. **Category X**
37. Bilal, M., **H. Bashir**, R. Ameen, A. Sumrin, M. Hussain, and S. Manzoor. "Anti HCV activity and expression inhibition of HCC markers by protein extract from *Iberis gibraltaria*." *Brazilian Journal of Biology* 84 (2022): e252676. **Category X**
38. Khan, Muhammad Taffim, Zia Uddin, Muhammad Arslan Javed, Nabi Shah, **Hamid Bashir**, Ahson Jabbar Shaikh, Muhammad Shahid Riaz Rajoka, Muhammad Imran Amirzada, and Muhammad Hassam Hassan Bin Asad. "PEGylated protamine letrozole nanoparticles: a promising strategy to combat human breast cancer via MCF-7 cell lines." *BioMed Research International* 2022 (2022). **Category W**
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41. Yasin, Unzila, Muhammad Bilal, **Hamid Bashir**, Muhammad Imran Amirzada, Aleena Sumrin, and Muhammad Hassam Hassan Bin Asad. "Preparation and Nanoencapsulation of Lectin from *Lepidium sativum* on Chitosan-Tripolyphosphate Nanoparticle and Their Cytotoxicity against Hepatocellular Carcinoma Cells (HepG2)." *BioMed Research International* 2020 (2020). **Category W**
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48. Ahmed, Nadeem, Rabbia Abbas, Mohsin Ahmad Khan, Hamid Bashir, Saad Tahir, and Ahmad Usman Zafar. "Enhancing recombinant interleukin- 6 production yield by fermentation optimization, two- step denaturing, and one- step purification." *Biotechnology and applied biochemistry* 65, no. 3 (2018): 490-496.

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