

Dr. Zahra Hasan

Section of Molecular Pathology

Department of Pathology and Laboratory Medicine

SUMMARY:

Publication

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Publications

Year 2023

1. Sequential viral introductions and spread of BA.1 across Pakistan provinces during the Omicron wave. Bukhari AR, Ashraf J, Kanji A, Rahman YA, Trovão NS, Thielen PM, Yameen M, Kanwar S, Khan W, Kabir F, Nisar MI, Merritt B, Hasan R, Spiro D, Rasmussen Z, Aamir UB and **Hasan Z**. BMC Genomics. 2023 Aug 3;24(1):432. DOI: [10.1186/s12864-023-09539-3](https://doi.org/10.1186/s12864-023-09539-3)
2. Effectiveness of inactivated COVID-19 vaccines against SARS-CoV-2 infections among healthcare personnel in Pakistan: a test-negative case-control study. Khan UI, Niaz M, Azam I, **Hasan Z**, Hassan I, Mahmood SF and Ali A. BMJ Open. 2023 Jun 27;13(6):e071789. DOI: [10.1136/bmjopen-2023-071789](https://doi.org/10.1136/bmjopen-2023-071789)
3. Tracking SARS-CoV-2 variants through pandemic waves using RT-PCR testing in low-resource settings. Nasir A, Aamir UB, Kanji A, Bukhari AR, Ansar Z, Ghanchi NK, Masood KI, Samreen A, Islam N, Ghani S, Syed MA, Wassan M, Mahmood SF and **Hasan Z**. PLOS Glob Public Health. 2023 Jun 1;3(6):e0001896. DOI: [10.1371/journal.pgph.0001896](https://doi.org/10.1371/journal.pgph.0001896)
4. Whole-genome sequencing reveals genotypic resistance in phenotypically susceptible Mycobacterium tuberculosis clinical isolates. **Hasan Z**, Razzak SA, Kanji A, Shakoor S and Hasan R. Int J Mycobacteriol. 2023 Apr-Jun;12(2):179-183. DOI: [10.4103/ijmy.ijmy_101_23](https://doi.org/10.4103/ijmy.ijmy_101_23)
5. Correction: Ceftriaxone resistant Salmonella enterica serovar Paratyphi A identified in a case of enteric fever: first case report from Pakistan. BMC Infect Dis. 2023 May 23;23(1):346. Irfan S, **Hasan Z**, Qamar FN, Ghanchi N, Ashraf J, Kanji A, Razzak SA, Greig D, Nair S and Hasan R. BMC Infect Dis. 2023 May 23;23(1):346. DOI: [10.1186/s12879-023-08321-w](https://doi.org/10.1186/s12879-023-08321-w)
6. Ceftriaxone resistant Salmonella enterica serovar Paratyphi A identified in a case of enteric fever: first case report from Pakistan. Irfan S, **Hasan Z**, Qamar F, Ghanchi N, Ashraf J, Kanji A, Razzak S, Greig D, Nair S and Hasan R. BMC Infect Dis. 2023 Apr

26;23(1):267. DOI: [10.1186/s12879-023-08152-9](https://doi.org/10.1186/s12879-023-08152-9)

7. Using rapid antigen testing for early, safe return-to-work for healthcare personnel after SARS-CoV-2 infection in a healthcare system in Pakistan: A retrospective cross-sectional study. Khan UI, Mahmood SF, Khan S, **Hasan Z**, Cheema A, Hakim A and Ali SI. PLOS Glob Public Health. 2023 Mar 22;3(3):e0001746. DOI: [10.1371/journal.pgph.0001746](https://doi.org/10.1371/journal.pgph.0001746).
8. Identifying the current status and future needs of clinical, educational, and laboratory genetics services in Pakistan: a web-based panel discussion. Ashfaq M, Ahmed SA, Aziz-Rizvi R, **Hasan Z**, Kirmani S, Munim S, Naeem R, Raza J and Furqan A. J Community Genet. 2023 Feb;14(1):71-80. DOI: [10.1007/s12687-022-00615-x](https://doi.org/10.1007/s12687-022-00615-x).
9. Assessing the effectiveness of COVID-19 vaccines in Pakistan: a test-negative case-control study. J Infect. Nisar MI, Ansari N, Malik AA, Shahid S, Lalani KRA, Chandna MA, Younus AM, **Hasan Z**, Khan U, Khalid F, Mahesar M, Qazi MF, Yildirim I, Jehan F and Omer SB. 2023 Jan 25:S0163-4453(23)00021-X. DOI: [10.1016/j.jinf.2023.01.016](https://doi.org/10.1016/j.jinf.2023.01.016).

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11. COVID-19 age-dependent immunology and clinical outcomes: implications for vaccines. Sarfraz A, Hasan Siddiqui S, Iqbal J, Ali SA, **Hasan Z**, Sarfraz Z, Iqbal NT. J Dev Orig Health Dis. 2022 Jun;13(3):277-283. DOI: [10.1017/S2040174421000398](https://doi.org/10.1017/S2040174421000398).
12. Characterisation of drug-resistant Mycobacterium tuberculosis mutations and transmission in Pakistan. Napier G, Khan AS, Jabbar A, Khan MT, Ali S, Qasim M, Mohammad N, Hasan R, **Hasan Z**, Campino S, Ahmad S, Khattak B, Waddell SJ, Khan TA, Phelan JE, Clark TG. Sci Rep. 2022 May 11;12(1):7703. DOI: [10.1038/s41598-022-11795-4](https://doi.org/10.1038/s41598-022-11795-4)
13. Latent M. tuberculosis infection is associated with increased inflammatory cytokine and decreased suppressor of cytokine signalling (SOCS)-3 in the diabetic host. Masood KI, Irfan M, Masood Q, Yameen M, Jamil B, Ram N, Rao S, Rottenberg M and **Hasan Z**. Scandinavian journal of immunology. 2022 April;95(4), e13134. <https://doi.org/10.1111/sji.13134>.
14. The 2021 WHO catalogue of Mycobacterium tuberculosis complex mutations associated with drug resistance: Walker TM, Miotto P, Köser CU, Fowler PW, Knaggs J, Iqbal Z, Hunt M, Chindelevitch L, Farhat M, Cirillo DM, Comas I, Posey J, Omar SV, Peto TE, Suresh A, Uplekar S, Laurent S, Colman RE, Nathanson CM, Zignol M and Rodwell TC. (2022). A genotypic analysis. The Lancet. Microbe. 2022 April;3(4), e265–e273. [https://doi.org/10.1016/S2666-5247\(21\)00301-3](https://doi.org/10.1016/S2666-5247(21)00301-3). (Collaboration)
15. Evolutionary history and introduction of SARS-CoV-2 Alpha VOC/B.1.1.7 in Pakistan through international travelers. Nasir A, Bukhari AR, Trovão NS, Thielen PM, Kanji A, Mahmood SF, Ghanchi NK, Ansar Z, Merritt B, Mehoke T, Razzak SA, Syed MA, Shaikh SR, Wassan M, Aamir UB, Baele G, Rasmussen Z, Spiro D, Hasan R and **Hasan Z**. Virus

- Evol. 2022 Mar 17;8(1):veac020. DOI: [10.1093/ve/veac020](https://doi.org/10.1093/ve/veac020).
16. Variants associated with Bedaquiline (BDQ) resistance identified in Rv0678 and efflux pump genes in Mycobacterium tuberculosis isolates from BDQ naïve TB patients in Pakistan. Saeed DK, Shakoor S, Razzak SA, **Hasan Z**, Sabzwari SF, Azizullah Z, Kanji A, Nasir A, Shafiq S, Ghanchi NK and Hasan R. BMC Microbiol. 2022 Feb 25;22(1):62. DOI: [10.1186/s12866-022-02475-4](https://doi.org/10.1186/s12866-022-02475-4).
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19. Comparison of clinical characteristics and outcomes between COVID-19 pneumonia and H1N1 influenza. Nasir N, Khanum I, Habib K, Ahmed R, Hussain M, **Hasan Z**, Irfan M. Advance in respiratory medicine. DOI: 10.5603/ARM.a2021.0049. Adv Respir Med. 2021;89(3):254-261. <https://doi.org/10.5603/ARM.a2021.0049>.
20. Increasing IgG antibodies to SARS-CoV-2 in asymptomatic blood donors through the second COVID-19 wave in Karachi associated with exposure and immunity in the population. Hasan M, Moiz B, Qaiser S, Ghous Z, Hussain A, Masood KI, Ali N, Simas JP, Veldhoen M, Alves P, Abidi SH, Ghias K, Khan E and **Hasan Z**. DOI: <https://doi.org/10.21203/rs.3.rs-941908/v1>.
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24. Latent M. tuberculosis infection is associated with increased inflammatory cytokine and decreased suppressor of cytokine signaling (SOCS)-3 in the diabetic host. Masood KI, Irfan M, Masood Q, Yameen M, Jamil B, Ram N, Rao S, Rottenberg M and **Hasan Z**. Scandinavian journal of immunology, e13134. 2021 Dec 24;e13134. Advance online publication. DOI: [10.1111/sji.13134](https://doi.org/10.1111/sji.13134).
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Omar SV, Peto TE, Suresh A, Uplekar S, Laurent S, Colman RE, Nathanson CM, Zignol M, Walker AS; CRyPTIC Consortium; Seq&Treat Consortium, Crook DW, Ismail N and Rodwell TC. *The Lancet Microbe*. March 8, 2022; S2666-5247(21)00301-3.

DOI: [10.1016/S2666-5247\(21\)00301-3](https://doi.org/10.1016/S2666-5247(21)00301-3). (Collaboration)

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