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Education:

- **PhD-Molecular Biology, (2012)** National Centre of Excellence in Molecular Biology, University of the Punjab, Lahore, Pakistan with research title: “Comparative Expression Analysis of Erythropoietin in CHO and Huh-7 Cell Lines”
- **Master in Science - Microbiology, (2004)** the University of Karachi, Pakistan.

Publications

1. H. Momand, S. Javaid , M. Munawar, **Kausar, H** and A. Farzand. 2024. “Exploring the Dual Benefits of 'TOMESORAL': Photo-Protective and Skin Lightening Potential of Carotenoids and Flavonoids in a Preliminary Controlled Trial”. *Kurdish Studies* 12 (5):949-65. <https://doi.org/10.53555/ks.v12i5.3380>.
2. Naqvi, S. I. Z., **Kausar, H.**, Afzal, A., Hashim, M., Mujahid, H., Javed, M., ... & Anjum, S. Antifungal Activity of Juglans-regia-Mediated Silver Nanoparticles (AgNPs) against Aspergillus-ochraceus-Induced Toxicity in In Vitro and In Vivo Settings. *Journal of Functional Biomaterials*, 14(4), 221. **(14 April. 2023)**. Impact factor: **4.8**
3. Asma Ahmed Farah Naz Tahir, **Humera Kausar**, Sania Riaz, Rehana Badar, Anam Naz “Therapeutic Potential Of Partially Processed Camellia Sinensis (L.) Leaves to Treat Diabetic Hepato-Renal Complications.” *Journal of Xi'an Shiyou University, Natural Sciences Edition*. 8 Apr. **2023**. Impact factor: **0.37**
4. M Ansar, S Javed, H. M.Azhar Baig, M Quinodoz, M.Ullah, Ji Hoon Han, M. Rahim, **Humera Kausar**, G. Calzetti & Carlo Rivolta. A new nonsense mutation in HMX1 in two siblings with oculoauricular syndrome, *Ophthalmic Genetics*, 43:5, 720-723, Aug, **2022**. DOI: 10.1080/13816810.2022. Impact factor: **1.2**
5. Ansar Abbas, Ammarah Hasnain, Sarosh Malik, **Humera Kausar**, Maria Farid Siddiqui and Riffat Mehboob. Comparison of the Antibacterial Activities of Different Antibiotics Against Clinical Isolates. *Pakistan Biomedical Journal* Volume 5, Issue 1 June, **2022**. <https://www.pakistanbmj.com/journal/index.php/pbmj/index>
6. Afia Muhammad Akram, Asma Chaudhary, **Humera Kausar**, Fayeze Althobaiti, *et al* Analysis of RAS gene mutations in cytogenetically normal de novo acute myeloid leukemia patients reveals some novel alterations, *Saudi Journal of Biological Sciences*, **2021**. Impact factor: **4.4** <https://pubmed.ncbi.nlm.nih.gov/34220225/>
7. **Humera Kausar (2021)** Nano-based Masks, Disinfectants and Sanitizers Effectively Combat Covid-19 *Asian Journal of Allied Health Sciences (AJAHS)*. <https://sites2.uol.edu.pk/journals/index.php/AJAHS/article/view/799>

8. Ansar Abbas, **Humera Kausar**, Uzma Rafi, Ammarah Hasnain, Frequency and Gram Categorywise Distribution of Clinical Isolates from Patient samples in tertiary care Hospital of Lahore. Markhor- *The Journal of Zoology*. Volume 2, Issue 1 Jan-Jun **2021** Impact factor: 2

9. Bakhtawar Attique, Shan Elahi and **Humera Kausar**. Evaluation of Hypothyroidism and Hyperthyroidism in Children Below Five Year of Age Residing in Lahore, *Pakistan Journal of Health Sciences*, 2(02). PJHS Vol.2 Issue 2 July-Dec **2021**
<https://doi.org/10.54393/pjhs.v2i02.28>

10. **Humera Kausar**, Shabbir Hussain and Afia Muhammad Akram. Detection of Metallo-Beta-Lactamase Gene in Carbapenem Resistant Pseudomonas Aeruginosa Isolated From Lahore, Pakistan *PBMJ Vol 3 Issue 1 Jan-Jun 2020*

11. Faheem Hadi, Sana Javaid Awan, Asima Tayyeb₃, Tahir Maqboo, Somia Shehzadi, Sabeen Malik, **Humera Kausar** and Arif Malik. Hepato-protective role of itraconazole mediated cytochrome p450 pathway inhibition in liver fibrosis. *Pak. J. Pharm. Sci.*, Vol.33, No.6 (Suppl), November **2020**, pp.2751-2758

12. Amna Komal Khan, **Humera Kausar**, Syada Samra Jaferi, Samantha Drouet, Christophe Hano, Bilal Haider Abbasi and Sumaira Anjum "An Insight into the Algal Evolution and Genomics" *biomolecules*. **2020** Impact factor: 5.5

13. Sumaira Anjum, Amna Komal, Samantha Drouet, **Humera Kausar**, Christophe Hano, and Bilal Haider Abbasi. "Feasible Production of Lignans and Neolignans in Root-derived In Vitro Cultures of Flax (*Linum usitatissimum* L.)." *Plants* 9, **2020**: 409. Impact factor: 4.6

14. Bushra Adeel, Sahar Mudassar, Nazma Kiran, Qurat ul Ain Javaid, Farheen Ansari, **Humera Kausar**, Shakeel Waqqar. Prevalence of Plasmodium vivax associated Malaria and screening of positive isolates for pvmdr-1 gene. *Rawal Medical Journal*. **2019**; 44(1): 57-60 Impact factor: 0.12

15. Afia Muhammad Akram, **Humera kausar**, Asma Chaudhary, Ahmad Mukhtar Khalid, M.Mudassar Shahzad¹, M. Waheed Akhtar, M. Farooq Sabar, Nadia Sajid, Nawaf Al Anazi, Aamir Aleem⁸, Zafar Iqbal. Detection of Exon 12 and 14 Mutations in Janus Kinase 2 Gene Including a Novel Mutant in V617F Negative Polycythemia Vera Patients from Pakistan. *Journal of Cancer*. **2018**; 9:23. 4341-4345 Impact factor: 3.9

16. Mushtaq M, **Humera Kasur**, Khan RA, Khalid A, Iqbal MK. Effect of Salmonella on decomposition of poultry litter. *Journal of Scientific Research*. **2018** Jan 1; 10(1):51-60.

17. **Humera Kausar**, Sana Gull, Waqar Ahmad, Sana Javaid Awan, Muhammad Tahir Sarwar, Bushra Ijaz, Muhammad Ansar, Sultan Asad, Sajida Hassan,. Role of Alternative Phosphorylation and O-Glycosylation of Erythropoietin Receptor in Modulating Its Function: An Insilco Study. *Turkish Journal of Biology* **2017** 5:41 816-825 Impact factor: 2.2

18. Sana Javaid Awan, Somia Shehzadi, Saba Boota, Kanza Tariq, Tahir Maqbool and **Humera Kausar**, "Growth Suppressing Effects of Conditioned Medium on Hepatocellular Carcinoma and Prostate Cancer Involve Induced Apoptosis and Decreased Angiogenesis" *Pakistan J. Mol. Med*, **2015**, 2:2. 1.

19. Hassan A, Mohammad M, **Humera Kausar**, Samina N, Ahmed A, Fridoon J, Riffat M. Prevalence, Antibiotic Susceptibility Pattern and Demographic Factors Related to Methicillin Resistant Staphylococcus aureus in Lahore, Pakistan. *International Journal of Microbiology & Advanced Immunology* **2014**, 2:301

20. Shahid I, Gull S, Ijaz B, Ahmad W, Ansar M, Asad S, **Humera Kausar** , Sarwar MT, Khan MK, Hassan S. Stable Huh-7 cell lines expressing non-structural proteins of genotype 1a of hepatitis C virus. *J Virol Methods*. **2013**,189:1. Impact factor: **3.1**
21. Asad, Sultan, Bushra Ijaz, Waqar Ahmad, **Humera Kausar**, Muhammad Tahir Sarwar, Sana Gull, Imran Shahid, Muhammad Kazim Khan, and Sajida Hassan. "Development of persistent HCV genotype 3a infection cell culture model in huh-7 cell." *Virology journal* 9, **2012**: 11. Impact factor: **4.8**
22. **Humera Kausar**, Sana Gull, Bushra Ijaz, Waqar Ahmad, Muhammad Tahir Sarwar, Zafar Iqbal, Zafar Nawaz, Sheikh Riazuddin, and Sajida Hassan. "Huh-7 cell line as an alternative cultural model for the production of human like erythropoietin (EPO)." *Journal of translational medicine* 9, **2011**: 186. Impact factor: **7.4**
23. Sarwar Muhammad T., **Humera Kausar**, Bushra Ijaz, Waqar Ahmad, Muhammad Ansar, Aleena Sumrin, Usman A. Ashfaq et al. "NS4A protein as a marker of HCV history suggests that different HCV genotypes originally evolved from genotype 1b." *Virology journal* 8, **2011**: 317. Impact factor: **4.8**
24. Ahmad, Waqar, Bushra Ijaz, Fouzia T. Javed, Sana Gull, **Humera Kausar**, Muhammad T. Sarwar, Sultan Asad et al. "A comparison of four fibrosis indexes in chronic HCV: development of new fibrosis-cirrhosis index (FCI)." *BMC gastroenterology* 11: 44. **2011** Impact factor: **2.4**
25. Sumrin Aleena, Waqar Ahmad, Bushra Ijaz, Muhammad Tahir Sarwar, Sana Gull, **Humera Kausar**, Imran Shahid et al. "Purification and medium optimization of α -amylase from *Bacillus subtilis* 168." *African Journal of Biotechnology* 10, 11: 2119-2129. **2011**
26. Ahmad, Waqar, Khadija Shabbiri, Bushra Ijaz, Sultan Asad, Muhammad T. Sarwar, Sana Gull, **Humera Kausar**, Kiran Fouzia, Imran Shahid, and Sajida Hassan. "Claudin-1 required for HCV virus entry has high potential for phosphorylation and O-glycosylation." *Virology journal* 8, 229. **2011** Impact factor: **4.8**
27. Ahmad, Waqar, Bushra Ijaz, Fouzia T. Javed, **Humera Kausar**, Muhammad T. Sarwar, Sana Gull, Sultan Asad, Imran Shahid, and Sajida Hassan. "HCV genotype-specific correlation with serum markers: higher predictability for genotype 4a." *Virology journal* 8, 293. **2011** Impact factor: **4.8**
28. Ahmad, Waqar, Bushra Ijaz, Sana Gull, Sultan Asad, Saba Khaliq, Shah Jahan, Muhammad T. Sarwar **Humera Kausar** et al. "A brief review on molecular, genetic and imaging techniques for HCV fibrosis evaluation." *Virology journal* 8: 53. **2011**. Impact factor: **4.8**
29. Ahmad, Waqar, Khadija Shabbiri, Bushra Ijaz, Sultan Asad, Noreen Nazar, Shazia Nazar, Kiran Fouzia **Humera Kausar** et al. "Serine 204 phosphorylation and O- β -GlcNAC interplay of IGFBP-6 as therapeutic indicator to regulate IGF-II functions in viral mediated hepatocellular carcinoma." *Virology journal* 8, **2011**: 208. Impact factor: **4.8**
30. Ijaz, Bushra, Waqar Ahmad, Fouzia T. Javed, Sana Gull, Muhammad T. Sarwar, **Humera Kausar**, Sultan Asad et al. "Association of laboratory parameters with viral factors in patients with hepatitis C." *Virology journal* 8, : 361. **2011** Impact factor: **4.8**

Interests and Techniques

Research interests includes Gene Cloning, Cell Culture Basic Techniques , Basic Microbiological Techniques, DNA and RNA Extraction, cDNA Construction, PCR Optimization, PAGE and Agarose Gel Electrophoresis , Restriction Digestion , Western Blotting, ELISA, Transformation and Transfection of vector in mammalian cell lines. Bioinformatics skills includes: BLAST, Clustal W, Primer Designing and Protein phosphorylation prediction.