

**Dr Khalid Ahmed Hameed**  
**Assistant Professor**

**Research interests**

Cancer Biology; Viral Oncology; Virulence factors & Immune Evasion Mechanisms in pathogens;  
Medical Education

**To date, 27 publications & one book authored:**

1. **Khalid Ahmed**, Sheikh A, Fatima S, Haider G, Ghias K, Abbas F, Mughal N, Abidi SH. Detection and characterization of latency stage of EBV and histopathological analysis of prostatic adenocarcinoma tissues. *Scientific Reports (Nature Portfolio Publishers)*. 2022 Jun 21;12(1):10399. doi: 10.1038/s41598-022-14511-4. PMID: 35729214; PMCID: PMC9213544. Impact factor (5.134)
2. Ghulam U, Nazim F, Farooqui N, Rizwan S, **Ahmed K**, Jamal A, Kayani HA, Mughal N, Hussain A, Sarria-Santamera A, Abidi SH. Analysis of differential gene expression of pro-inflammatory cytokines in the nasopharyngeal milieu of mild & severe COVID-19 cases. *PLoS One*. 2022 Dec 30;17(12): e0279270. doi: 10.1371/journal.pone.0279270. PMID: 36584119; PMCID: PMC9803207. Impact factor (3.752)
3. Mastoor S, Nazim F, Rizwan S, **Ahmed K**, Khan S, Ali SN, Abidi SH. Analysis of the Antimicrobial and Anti-Biofilm Activity of Natural Compounds and Their Analogues against *Staphylococcus aureus* Isolates. *Molecules*. 2022 Oct 13;27(20):6874. doi: 10.3390/molecules27206874. PMID: 36296467; PMCID: PMC9610881. Impact factor (4.927)
4. **Khalid Ahmed**, Alisalman Sheikh, Saira Fatima, Syed Hani Abidi et al. Assessment of histopathological parameters and survival difference in EBV-positive and EBV-negative prostate carcinoma, 16 May 2022, ResearchSquare (PrePrint published) [<https://doi.org/10.21203/rs.3.rs-1659745/v1>]
5. Ahmed MA, Nazim F, **Khalid Ahmed**, Bari MF, Abdulwahed A, AlMokhatieb AA, Alalvi Y, Abduljabbar T, Mughal N, Abidi SH. Association between the baseline gene expression profile in periapical granuloma and periapical wound healing after surgical endodontic treatment. *Scientific Reports (Nature Portfolio Publishers)*. 2022 Aug 15;12(1):13824. doi: 10.1038/s41598-022-17774-z. PMID: 35970906; PMCID: PMC9378616. Impact factor (5.134)
6. Mastoor S, Nazim F, **Khalid Ahmed**, Khan S, Ali SN, Abidi SH. Analysis of the Antimicrobial and Anti-Biofilm Activity of Natural Compounds and Their Analogues against *Staphylococcus aureus* Isolates. *Molecules*. 2022 Oct 13;27(20):6874. doi: 10.3390/molecules27206874. PMID: 36296467; PMCID: PMC9610881. Impact factor (4.927)
7. Ahmed MA, Anwar MF, **Khalid Ahmed**, Aftab M, Nazim F, Bari MF, Mustafa M, Vohra F, Alrahlah A, Mughal N, Abidi SH. Baseline MMP expression in periapical granuloma and its relationship with periapical wound healing after surgical endodontic treatment. *BMC Oral Health*. 2021 Nov 3;21(1):562. doi: 10.1186/s12903-021-01904-6. PMID: 34732191; PMCID: PMC8565031.

8. **Khalid Ahmed**, Ahmed H, Ahmed FA, Ali AA, Akbar J, Rana J, Tariq U, Abidi SH. Analysis of anti-microbial and anti-biofilm activity of hand washes and sanitizers against *S. aureus* and *P. aeruginosa*. J Pak Med Assoc. **2020** Jan;70(1):100-104. doi: 10.5455/JPMA.2776. PMID: 31954031.
9. Abidi SH, **Khalid Ahmed**, Kazmi SU. The antibiofilm activity of Acetylsalicylic acid, Mefenamic acid, Acetaminophen against biofilms formed by *P. aeruginosa* and *S. epidermidis*. J Pak Med Assoc. 2019 Oct;69(10):1493-1495. PMID: 31622303.
10. **Khalid Ahmed**, Qudsia SA, Rehman A, Abidi SH. Fatal *Elizabethkingia Meningoseptica* Cholangitis Following Biliary Stent Placement. J Coll Physicians Surg Pak. 2018 Mar;28(3):S35-S36. doi: 10.29271/jcpsp.2018.03.S35. PMID: 29482700.
11. Naz AS, Rehman R, Jamil Z, **Khalid Ahmed**, Surti A. Students' perceptions of usefulness of Anatomy demonstrations in traditional and hybrid undergraduate medical education curricula. J Pak Med Assoc. 2017 Mar;67(3):461-464. PMID: 28304001.
12. Rehman R, **Ahmed K**, Rehan R, Hassan F, Syed F. Learning approaches and performance of medical students. J Pak Med Assoc. 2016 Feb;66(2):198-202. PMID: 26819168.
13. Rehan R, **Ahmed K**, Khan H, Rehman R. A way forward for teaching and learning of Physiology: Students' perception of the effectiveness of teaching methodologies. Pak J Med Sci. 2016 Nov-Dec;32(6):1468-1473. doi: 10.12669/pjms.326.10120. PMID: 28083047; PMCID: PMC5216303.
14. Abidi SH, Ahmed K, Sherwani SK, Kazmi SU. Synergy between antibiotics and natural agents results in increased antimicrobial activity against *Staphylococcus epidermidis*. J Infect Dev Ctries. 2015 Sep 27;9(9):925-9. doi: 10.3855/jidc.5164. PMID: 26409732.
15. Abidi SH, **Ahmed K**, Sherwani SK, Kazmi SU. Reduction and removal of *Pseudomonas aeruginosa* biofilm by natural agents. International Journal of Chemical and Pharmaceutical Sciences. 2014 Mar. 5(1). 28-34.
16. **Ahmed K**, Qudsia SA, Abidi SH, Malik R, Awais M, Rehman A. Proteinase 3-antineutrophil cytoplasmic antibody positive necrotizing vasculitis induced by ciprofloxacin. International Journal of Basic and Clinical Pharmacology. 2016 5(3): 1145-1147. (DOI: 10.18203/2319-2003.ijbcp20161585)
17. Abidi SH, **Ahmed K**, Zehra F, Mughal N, Kazmi SU. Rabbit serum raised against *P. aeruginosa* biofilm exhibit significant biofilm reduction and removal activity. International Journal of Current Microbiology and Applied Sciences. 2016 5(7): 275-279. (DOI: 10.20546/ijcmas.2016.507.028)
18. Nazim F, Khan M, Usman N, Hashim M, Hanan E, Shah SA, Irfan S, **Ahmed K**, Abidi SH.

Detection and inhibition of *Staphylococcus aureus* biofilms by chemical agents. Pakistan Journal of Microbiology. 2020 Apr 11; 1(1):12-9. (Published by Pakistan Society for Microbiology)

19. **Ahmed K**, Shaikh S, Rehman R, Ali SM, Iftikhar R, Rana, Z. Knowledge and attitudes towards stethoscope hygiene and bacterial contamination. Pakistan Journal of Microbiology. 2020; 1(01):28-36. (Published by Pakistan Society for Microbiology)
20. **Ahmed K**, Shaikh S, Rehman R, Ali SM. Frequency of awareness and practice of stethoscope hygiene with regards to guideline among medical students, residents and doctors in Karachi. Journal of Bahria University Medical and Dental College Karachi 2018; 8(1):31-34.
21. Abidi SH, **Ahmed K**, Sherwani SK, Bibi N, Kazmi SU. Detection of *Mycobacterium Smegmatis* biofilm and its control by natural agents. International Journal of Current Microbiology and Applied Sciences. 2014. 3(4). 801-812.
22. Muhammad JS, Ishaq M, **Ahmed K**. Genetics and Epigenetics Mechanism in the Pathogenesis of Behçet's Disease. Curr Rheumatol Rev. 2019;15(1):7-13. doi: 10.2174/1573397114666180521090335. PMID: 29779484.
23. Jamil Z, Fatima SS, **Ahmed K**, Malik R. Anti-Mullerian Hormone: Above and Beyond Conventional Ovarian Reserve Markers. Dis Markers. 2016;2016:5246217. doi: 10.1155/2016/5246217. Epub 2016 Feb 10. PMID: 26977116; PMCID: PMC4764725.
24. Rehman R, Ahmed K, Shaikh S. Stethoscope as a Vector for Nosocomial Bacterial Infections. J Coll Physicians Surg Pak. 2019 Jun;29(6):592. doi: 10.29271/jcpsp.2019.06.592. PMID: 31133166.
25. **Ahmed K**, Ahmad HR. Where have all the cell organelles gone during the cell division? J Pak Med Assoc. 2018 Oct;68(10):1547. PMID: 30317363.
26. Rehman R, **Ahmed K**, Ali SM, Raza A, Rana Z. Stethoscope as vector of hospital infections. The Journal of the Pakistan Medical Association. 2018 Feb 1; 68(2):329-30. (DOI: 10.5455/JPMA)
27. **Ahmed K**. Could Acanthamoeba have hosted and trained Leishmania to evade innate immune response? Med Hypotheses. 2014 Sep;83(3):418-9. doi: 10.1016/j.mehy.2014.05.015. Epub 2014 Jun 7. PMID: 24962211.

**a. Book(s) authored:**

1. Abidi SH, **Ahmed K**, Kazmi SU. A Beginner's Guide to Microbial Biofilm Research: Overview – Protocols – Applications: Lambert Academic Publishing 2018 (March 09, 2018). 104 p. ISBN-10: 9786138341284. ISBN-13: 978-6138341284