

DR. MUHAMMAD ASAD ALI

Associate Professor / Director Students' Affairs

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Dr. Muhammad Asad Ali is PhD in Microbiology and serving at Institute of Microbiology for the last fourteen years as a faculty member. He is secretary, Board of Faculty, Faculty of Veterinary Science. He has 60 publications in national and international impact factor and HEC recognized journals on his credit. He is editor of Pakistan Journal of Science and reviewer of different national and international Impact Factor journals. He is focal Person / Incharge, BSL-3 Laboratory for Emerging Pathogens, Institute of Microbiology, UVAS, Lahore, involved in the testing of COVID-19 suspected human samples and has been awarded the certificate of appreciation from CM, Punjab, Secretary P&S Health Department, Punjab and President, Pakistan Veterinary Medical Council for his outstanding performance in fight against COVID-19. He is coordinator of Virology Section, IOM, UVAS. He also has co-authored one extension booklet; one popular press publication, two manuals, won 04 research grants including one as PI and three as Co-operative scientist; supervised 32 M.Phil students; currently supervising 01 PhD and 06 M.Phil students. He has participated in more than 50 national and international conferences as organizer, presenter or invited speaker.

Area of Interest

- Isolation, Identification, characterization and antimicrobial resistance profiling of pathogenic microbes of veterinary and human importance.
- Isolation, characterization and development of biologics for animals, poultry and human beings

Publications

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3. Sarwar N., K. Muhammad, M. Rabbani, M.Y. Rana, M. Sarwar, **M.A. Ali**, K. Hanif and M. Kamran. 2013. Optimization of physico-chemical factors augmenting in vitro biomass production of *Pasteurella multocida*. *J. Anim. Plant Sci.*, 23(4): 1085-1088.

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5. Najeeb M.F., A. A. Anjum, M. U. D. Ahmad, H. M. Khan, **M. A. Ali**, and M. M. K. Sattar, 2013. Bacterial etiology of subclinical mastitis in dairy goats and multiple drug resistance of the isolates. *J. Anim. Plant Sci.*, 23(6): 1541-1544.
6. Rauf M., Z. I. Chaudhary, M. Younus, A. A. Anjum, **M. A. Ali**, A. N. Ahmad and M. U. R. Khan, 2013. Identification of *Mycoplasma gallisepticum* by polymerase chain reaction and conventional diagnostics from white leghorn layer flocks. *J. Anim. Plant Sci.*, 23(2): 393-397.
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8. Ahmad M.U.D., A. Sarwar, M.I. Najeeb, M. Nawaz, A.A. Anjum, **M.A. Ali** and N. Mansur, 2013. Assessment of microbial load of raw meat at abattoirs and retail outlets. *J. Anim. Plant Sci.*, 23(3): 745-748.
9. Rauf M., Z.I. Chaudhary, M. Younus, A.A. Anjum, H.M. Khan and **M.A. Ali**, 2014. Polypeptide mapping and western blot analysis of *Mycoplasma gallisepticum* field isolates. *J. Anim. Plant Sci.*, 24(1): 154-158.
10. Sabir S., A.A. Anjum, T. Ijaz, **M.A. Ali**, M.R. Khan and M. Nawaz. 2014. Isolation and antibiotic susceptibility of *E. coli* from urinary tract infections in a tertiary care hospital. *Pak. J. Med. Sci.*, 30(2): 389-392.
11. Rauf M., Z. I. Chaudhary, M. Younas, A.A. Anjum, H.M. Khan and **M.A. Ali**. 2014. Detection of *Mycoplasma gallisepticum* in experimentally inoculated layer birds by immunohistochemistry. *J. Anim. Plant Sci.*, 24(2): 385-391.
12. Ahmad M.S., A. Maqbool, A.A. Anjum, N. Ahmad, M.R. Khan, R. Sultana and **M.A. Ali**, 2014. Occurrence of *Hymenolepis diminuta* in rats and mice captured from urban localities of Lahore, Pakistan. *J. Anim. Plant Sci.* 24(2): 392-396.
13. Kamran M., M.D. Ahmad, A.A. Anjum, A. Maqbool, K. Muhammad, H.M. Khan, N. Hudda, M. Nawaz and **M.A. Ali**, 2014. Antigenic variation among *Pasteurella multocida* isolates from diseased buffaloes by protein profiling and cluster analysis. *J. Anim. Plant Sci.*, 24(4): 1101-1109.
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 18. Zeshan M.Q., M. Ashraf, M.O. Omer, H.M. Khan, **M.A. Ali** and A.A. Anjum, 2015. Efficacy of anti-bacterial compounds and plant extracts against methicillin resistant *Staphylococcus aureus* isolates from nosocomial infections. *J. Anim. Plant Sci.*, 25(4): 1100-1106.
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 22. Khan H.M., S. Rehman, S. Sana, **M.A. Ali** and A.A. Anjum. 2016. Diversity of bacterial contamination on in-animate surfaces of a tertiary care hospital and their sensitivity to disinfectants. *Pak. J. Sci.*, 68(4): 372-376.
 23. Shabbir M.Z., S. Akram, Z. Hassan, K. Hanif, M. Rabbani, J. Muhammad, M.H. Chaudhary, T. Abbas, M.T. Ghori, H. Rashid, T. Jamil, Z. Islam, H. Rasool, A. Bano, A. Ahmad, **M.A. Ali**, T. Yaqub, W. McVey, and B.M. Jayarao. 2016. Evidence of *Coxiella burnetii* in Punjab province, *Pakistan. Acta. Trop.*, 163: 61-69.
 24. **Ali M.A.**, K. Muhammad, A.A. Anjum, M.D. Ahmad, M. Rabbani, M.Z. Shabbir, A. Ahmad, M. Nawaz, M.T. Ghori, J. Muhammad, H.R. Chaudhry, T. Jamil, M. Haisem, T. Awan, R. Ahmad and B.M. Jayarao. 2017. Association of soil chemistry and other factors with spatially distributed *Burkholderia mallei* DNA in Punjab province, Pakistan. Proceedings of 2017 14th International Bhurban Conference on Applied Sciences & Technology (IBCAST) Islamabad, Pakistan, 10th -14th January, 2017.
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33. Sana S., A.A. Anjum, A. Ahmad, M.I. Najeeb, H.F. Majeed, A. Razzaq, S. Ahmad, M. Ahmad, A.I. Aqib and **M.A. Ali**. 2018. Optimization of culture conditions for *Penecillium* isolated from soil to enhance amylase production potential. *Pak. J. Sci.*, 70(2).
34. Rashid H., K. Muhammad, M. Rabbani, M. S. Khan, T. Ghori, M. Chaudhry, H.B. Rashid, M.Z. Shabbir, M.H. Chaudhary, **M.A. Ali**, M.M.K. Sattar, J. Muhammad and B. Jayarao, 2018. Prevalence and Distribution of Soil-Borne *Bacillus anthracis* in Different Districts of Punjab, Pakistan. *Pak. J. Zool.*, 50(6) : 1-4.
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38. Khan M, Anjum AA, Nawaz M, Awan AR and **Ali MA**, 2019. Effect of newly characterized probiotic lactobacilli on weight gain, immunomodulation and gut microbiota of *Campylobacter jejuni* challenged broiler chicken. *Pak. Vet. J.* <http://dx.doi.org/10.29261/pakvetj/2019.051>.

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In pediatric patients, cytotoxicity and mutagenicity of Aloe Vera and *Allium sativum*. *Pak. J. Pharm. Sci.*, 34(1): 257-263.

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60. Zeshan, M.Q., Ashraf, M., Omer, M.O., Anjum, A.A., **Ali, M.A.**, Najeeb, M.2, Majeed, J. Antimicrobial activity of essential oils of *Curcuma longa* and *Syzygium aromaticum* against multiple drug-resistant pathogenic bacteria. *Tropical Biomedicine* 40(2): 1-9 (2023).

RESEARCH PROJECTS

Sr. #	Title of Project	Funding Agency	Amount (Rs. Million)	Status

1	Development and Preclinical Studies of Inactivated COVID-19 Vaccine	Government of Punjab	100	Team member, (In progress)
2	Evaluation of anti- <i>Campylobacter</i> activity of indigenous probiotic lactobacilli alone and in combination with different organic acids in poultry (PI)	HEC (NRPU)	3.4	P.I. (Completed)
3	Development of inactivated polyvalent vaccines for the control of mastitis in dairy cattle (CO-PI)	PARB	10.905	Team leader (Completed)
4	Optimization of smart surveillance for smart lock down strategy through monitoring SARS-CoV2 from Sewage water	P&SHD, Punjab	16.9	Team member, (Completed)