

Dr. Mamta Choudhary, Scientist (Veterinary Pathology)

I did my B.V.Sc & A.H in year 2001, my masters in year 2004 majoring in Veterinary Pathology from Indira Gandhi Agricultural University, Raipur, Chhattisgarh. I served the same university as an assistant professor in the Department of Veterinary Pathology for around 2 years. I taught UG and PG students and guided 4 M.V.Sc students as co-guide. I was associated with investigation pathology of infectious and anatomical origin for farm and wild animals including poultry. I qualified ARS-NET in 2006 and joined Agricultural Research Services as scientist in 8th January 2007. I served as a scientist at Veterinary type culture collections, ICAR-National Research Centre on Equines, Hisar Haryana for 7 years. I had been associated with procurement, authentication and accession of ruminal, dairy and pathogenic microorganisms of animal origin. I was associated with maintaining bacterial and viral repository of the institute along with the research work on different aspects of equine health. I enrolled for Ph.D as in-service candidate at Chhattisgarh Kamdhenu Vishwavidyalaya, Durg and carried out my Ph.D. and institutional research work at Veterinary type culture collections, ICAR-NRCE Hisar. Presently, I am working at ICAR-NIBSM, Raipur. I had been associated with more than 10 institutional funded and externally funded projects. My contributions towards the science are as below:

- First report of isolation and characterization of Multi-drug resistant opportunistic pathogen *Leclercia adecarboxylata* from animals worldwide, published in *Letters in Applied Microbiology*, 66(1):44-48.
- First report of isolation and characterization of MDR *Raoultella ornithinolytica* from Indian Major Carp in India and second report in world and published in *Current Science*, 114:1818-1821.
- First isolation and characterization of *Bordetella bronchiseptica* from horse and published in *Journal of Equine Science*, 29(1), 25-31.
- Prevalence of Q fever in goats and humans of Chhattisgarh and Odisha have been studied and reported in *Comparative Immunology Microbiology and Infectious Diseases*, 60 (2018) 46-51
- Compiled the spectrum of bacterial pathogens causing respiratory disease in bovine of Chhattisgarh and published in *Microbial Pathogenesis*, 134 (2019) 103577.
- *Myroides odoratimimus* was isolated from pneumonia outbreaks in piglets and it has been reported in animals for the first time in the world and has been published in *Journal of Applied Microbiology*, doi:10.1111/jam.14448
- *Porcine Circovirus 3* has been isolated from pig herd of Chhattisgarh, The occurrence of viral infection in India has been reported for the first time and published in *Transboundary and Emerging Diseases*, 2020;00:1-6.
- First isolation and characterization of *Actionobacillus equilli* from foal.
- First isolation and characterization of *Staphylococcus hyicus* from pig.
- First detection of Methicillin-resistant Coagulase Negative *Staphylococcus sciuri* from pigs
- Detection of methicillin-resistant *Staphylococcus spp.* from goat milk.
- Atypical *Rhodococcus spp.* was isolated from Camel.

Presently we are exploring host microbial interaction in agroecosystem and simultaneous in other project focusing on characterization of microbial secondary metabolites as an alternate tool to combat with biotic stresses in agricultural production system.

Research gate: https://www.researchgate.net/profile/Mamta_Choudhary2/scores