

## **Dr Mamta Choudhary**

Dr. Mamta Choudhary is a Principal Scientist in the discipline of Veterinary Pathology associated with ICAR institutions, with more than two decades of experience in veterinary pathology, microbiology, zoonotic diseases, antimicrobial resistance, aquaculture health, and One Health research. She completed her Ph.D. in Veterinary Pathology and has served in prestigious institutions including ICAR-National Institute of Biotic Stress Management, Raipur; ICAR-National Institute on Foot and Mouth Disease, Bhubaneswar; ICAR-Veterinary Type Culture Collections, Hisar; ICAR-NAARM, Hyderabad; and Indira Gandhi Krishi Vishwavidyalaya, Raipur. Her research has significantly contributed to the understanding of emerging and multidrug-resistant pathogens in livestock and aquaculture systems. She reported multidrug-resistant *Leclercia adecarboxylata* and *Myroides odoratimimus* from animals for the first time worldwide, reported *Raoultella ornithinolytica* in Indian Major Carps for the first time in India, and contributed to the first report of Porcine Circovirus-3 (PCV-3) infection in pigs in India. Her work on bovine pneumonia, Q fever, African swine fever, opportunistic bacterial pathogens, and antimicrobial resistance has strengthened disease diagnostics, surveillance, and public health understanding. She has also carried out pioneering studies on phytochemicals such as *Piper betle* extracts as alternative antimicrobial agents against multidrug-resistant pathogens and explored their mechanisms of action at ultrastructure and genomic basis.

Dr. Choudhary has successfully handled several research projects as Principal Investigator and Co-Principal Investigator in the areas of antimicrobial resistance mitigation, climate change and One Health, microbial diversity, fish and livestock health, zoonotic diseases, and development of alternative therapeutics. She has published extensively in reputed national and international journals along with books, technical bulletins, extension folders and popular science articles. In addition to her scientific contributions, she has played an active role in extension and social development activities for farming and tribal communities under SCSP and TSP programmes in Chhattisgarh. She has promoted sustainable livestock and fish farming, natural farming practices, personal hygiene awareness, and livelihood generation among economically weaker sections and tribal populations. She has also served in several important institutional responsibilities and contributing significantly to institutional development, scientific outreach, and farmer welfare.