**Herbal Approaches for Tackling Antimicrobial Resistance in Livestock**

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**Abstract:**

Antimicrobial resistance is a serious global concern. Antimicrobial agents are used heavily in livestock for various conditions. In countries with poor access to quality animal health services, they are often used injudiciously, with disregard for antimicrobial sensitivity patterns, and insufficiently, with disregard for therapeutic end-points and safety. Antimicrobial agents also continue to be used as growth promoters for food animals in many regions of the world. Hence, the use of antimicrobials in the livestock sector contributes substantially to antimicrobial resistance, which spills in the environment and is transmitted onwards to humans through direct contact, animal-derived foods, and various other routes.

Herbal and phytogenic veterinary practices can be used in several instances to boost local or general immunity of the animals as well as to specifically counteract microbial pathogens. There are several health conditions of livestock where the timely use of quality herbal agents can prevent disease progression and reduce or eliminate the use of antimicrobials at a later stage. Specific applications of herbal veterinary and nutritional solutions shall be discussed for livestock problems that account for the greatest consumption of antimicrobial agents, including but not limited to mastitis, female reproductive infections, enteritis and diarrheal complexes, respiratory infections, and growth promotion.

**Biography of presenting author**

Dr. Bhaskar Ganguly heads the Clinical Research activities of Ayurvet Limited – a major Indian herbal veterinary pharma and feed supplement manufacturer. He received his Ph.D. in Veterinary Biochemistry from G.B. Pant University of Agriculture and Technology, India, in 2015. He has 13+ years of research experience and his fields of interest include phytotherapeutics of immunosuppressive poultry viral diseases and the application of omics tools to different veterinary problems. Besides, he has also worked on oncolytic virotherapy of canine tumors, molecular profiling of endectoparasiticide resistance, and assisted reproductive technologies in water buffaloes. He has published 12 first author research articles. He has also been a recipient of Publons Sentinel of Science award for his avid reviewing contributions to several journals of repute.

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