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## Exploring the Antimicrobial Resistance Phenomenon in Wildlife: The Need for a Holistic Perspective for Global Health

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Deadline for manuscript  
submissions:

**30 June 2024**

### Message from the Guest Editors

Antimicrobial resistance (AMR) in wildlife is an alarming situation with health, ecological, and economic consequences, raising the need for surveillance programs on resistance mechanisms in the environment. This phenomenon results from the antibiotic overuse in animal productions, human and veterinary medicine, affecting wild animals even without therapeutic antibiotic exposure.

Antimicrobial-resistant bacteria are part of a complex interplay involving different communities. The antibiotics in the environment can disrupt the balance among microbial populations. Anthropogenic disturbances can cause shifts in the wildlife gut microbiome and disrupt its natural homeostasis, making animals more susceptible to infectious diseases, including potential zoonoses.

This Special Issue aims at investigating the AMR and the related microbiota response in wildlife. We invite contributions from researchers in veterinary sciences, microbiology, infectious diseases, and genetics, encouraging advanced molecular techniques and sequence analysis, essential to deepen knowledge on AMR in wildlife microbial communities.



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# Special Issue



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## Message from the Editor-in-Chief

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