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Antimicrobial Use in the Swine Production Chain and Implications for Environmental Impacts and Human Health: Current Status, Challenges, and Future Prospects

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Message from the Guest Editors

Dear Colleagues,

In recent years, an increasing demand for animal protein has taken place, leading to an increased practice of intensive farming. This has provoked the extensive use of antimicrobial chemotherapy in production animals, such as in the swine production chain, leading to antibiotic residues that have been deployed in the environment, significantly contributing to the insurgency of antimicrobial resistances (AMR).

Therefore, this Special Issue will focus on the current situation regarding the use of antibiotics and biocides in swine farming, abattoirs, and processing plants linked to the swine production chain, from a holistic point of view. In addition to this, ongoing research regarding specific strategies and alternatives aiming to mitigate the increasing level of AMR worldwide will be also covered.

We kindly invite original research articles, critical reviews, and commentaries from specialists worldwide. Research areas may include but are not limited to topics such as efforts to reduce animal stress during farming to reduce the use of antibiotics, environmental control in slaughterhouses and processing plants, and risk assessment linked to AMR and MDR bacteria.

Special Issue



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Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in ‘Agriculture, Dairy & Animal Science’; 21/170 (Q1) in ‘Veterinary Sciences’), 5-Year Impact Factor: 3.2.

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