How Antibiotic Use in Animals Is Contributing to Antibiotic Resistance

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The overuse of veterinary antibiotics in animal production and the subsequent land applications of manure contribute to increased antibiotic resistance in soil. A new review published in the European Journal of Soil Science examines the results of recent studies on veterinary antibiotic use, the concentrations of antibiotics, and the abundance and diversity of antibiotic resistance genes in animal manure and in soil that receives manure or manure composts.

The review also discusses the need for more stringent regulations on the use of veterinary antibiotics and future research directions on the mechanisms of antibiotic resistance and resistance management.

"Recycling of animal manures to soil is good for soil quality, but the spread of antibiotic resistance needs to be tackled urgently," said co-author Dr. Fang-Jie Zhao, of Nanjing Agricultural University, in China.

Additional Information


About Journal

The European Journal of Soil Science is an international journal that publishes outstanding papers that contain one or more of the following: new knowledge, new concepts, new understanding or novel technology.

Original research papers must include some novel concepts and be scientifically sound and of good scientific quality. Review and position papers that cover aspects of soil science are also considered.

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