

environmental microbiology

Call for papers

One Health Antimicrobial Drug Resistance

Guest Editors

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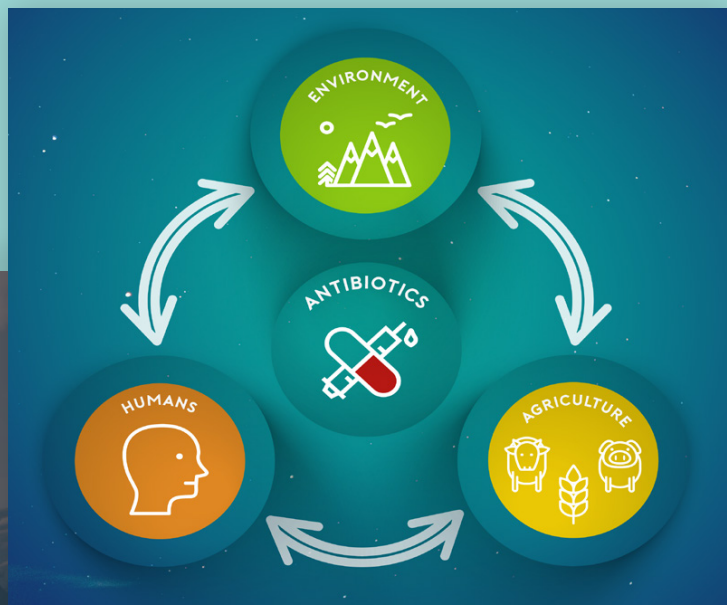
Macquarie University, Australia

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Examples of topics covered:

- Genome epidemiology of antibiotic-resistant bacteria from nonclinical settings
- Characterization of acquired antimicrobial resistance in different environments
- Analyses of mobile genetic elements associated with antimicrobial resistance
- Antibiotic-resistant microbe transmission between human and agricultural niches
- Microbiological and molecular biology studies on nonclinical resistomes



Antimicrobial resistance (AMR) is one of the major public health issues of the 21st century. However, AMR is not confined to clinical settings. On the contrary, resistance genes have been detected in almost every environment studied. These genes include those that are endemic to natural environments and those that are shed as pollutants from human-dominated ecosystems. At its heart, the AMR crisis is an ecological and evolutionary problem that needs to be tackled on multiple fronts, including human health, microbial ecology, agriculture and waste treatment.

The transdisciplinary 'One Health' concept connects the health of the environment to the health of animals and humans, and is a promising way to approach the complexities of managing antibiotic resistance. This special issue will center on metagenomic and population genomic studies on the environmental resistome and its connection to the clinical resistome. We are interested in the processes that drive the dissemination of AMR between animals, humans and the environment.

Environmental Microbiology and *Environmental Microbiology Reports* seek research papers, brief reports, opinions and minireviews on a broad range of topics relating to the environmental resistome and its dissemination.

Submit your manuscript online at:
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Deadline for submission: July 30, 2021

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