



Recent Research on Antimicrobial Stewardship

Guest Editors:

Dr. Erika Asperges

Division of Infectious Diseases I,
Fondazione IRCCS Policlinico
San Matteo, 27100 Pavia, Italy

Dr. Pietro Valsecchi

Fondazione IRCCS Policlinico
San Matteo, Pavia, Italy

Deadline for manuscript
submissions:

30 September 2024

Message from the Guest Editors

Antimicrobial stewardship (AMS) is now the topic of major interest within the scope of infectious diseases. In fact, the World Health Organisation considers antimicrobial resistance one of the top ten sanitary threats and the United Nations forecasts up to 10 million deaths by 2050 caused by this alone.

Antibiotic resistance is not limited to old beta-lactams and fluoroquinolones only; now, it also involves newer antibiotics, thus limiting greatly treatment options for multi-drug resistant pathogens, especially those of the ESKAPE group (*E. faecium*, *S. aureus*, *K. pneumoniae*, *A. baumannii*, *P. aeruginosa* and Enterobacteriaceae, the six bacteria at highest risk of developing resistance).

Anti-microbial resistance can be prevented and stopped only via coordinated action involving several actors. Within health systems, antimicrobial stewardship research should provide a solid basis to understand the mechanisms at the origin of resistance and a platform from which to launch programs that aim at improving health according to the One Health principles.





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Editor-in-Chief

Dr. Nico Jehmlich

Department of Molecular
Systems Biology, UFZ-Helmholtz
Centre for Environmental
Research, 04318 Leipzig,
Germany

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Microorganisms Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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