

## Special Issue

# Emerging Biocide Resistance-Frequency, Drivers, Relevant Outcomes and Containment Strategies

### Message from the Guest Editor

Biocidal products are relevant for the control of infections and should be used in a targeted way. During the pandemic, however, many hand and surface disinfectants were used in a general non-targeted way in public and private areas. Depending on the type of biocidal agents, exposure to subinhibitory concentration may cause an adaptive bacterial response resulting in a lower cellular susceptibility to the biocidal agent or to other biocidal agents, or even to antibiotics (cross-resistance). Potential topics include but are not limited to:

- Frequency and relevance of biocide resistance;
- Mechanisms of tolerance;
- Case reports (reduced cellular susceptibility, e.g., resulting in infection or food contamination);
- Adaptive cellular effects of excessive disinfection measures in public places;
- Evidence-based proposals for a targeted use of biocidal agents for the prevention of infectious disease;
- Relevance of antimicrobial surface coating on bacterial tolerance;
- Strategies for containment of biocide resistance;
- Relevance of biofilms for biocide resistance;
- Proposals for evidence-based definitions of biocidal tolerance and resistance.

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### Guest Editor

Prof. Dr. Günter Kampf

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### Deadline for manuscript submissions

closed (31 July 2024)



## Hygiene

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## About the Journal

### Message from the Editor-in-Chief

The global burden of healthcare-associated infections remains an issue. The increase in the incidence of antibiotic resistance may result in the development of novel concepts to control the transmission of multi-resistant pathogens in various fields. Antiseptic tolerance towards some biocidal agents used for disinfection is being found more and more in selected bacterial species. It is therefore important to carefully balance the expected health benefits of specific hygiene measures against the likely risks and consequences associated with their implementation. I very much hope that this journal can contribute substantial knowledge on the various different aspects of hygiene. The Editorial Board Members and myself cordially invite you to share your latest findings by submitting original research and review articles as well as proposals for Special Issues.

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### Editor-in-Chief

Prof. Dr. Fernando Pérez-Rodríguez

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