



an Open Access Journal by MDPI

Innovative Strategies to Counteract Microbial Biofilm Growth

Guest Editors:

**Dr. Gutiérrez-Pacheco María
Melissa**

Unidad académica de San Luis
Río Colorado, Universidad Estatal
de Sonora, San Luis Río
Colorado, Sonora, Mexico

**Dr. Ariadna Thalía Bernal-
Mercado**

Departamento de Investigación y
Posgrado en Alimentos,
Universidad de Sonora,
Hermosillo, Mexico

Deadline for manuscript
submissions:

closed (15 March 2024)

Message from the Guest Editors

Dear Colleagues,

Microbial biofilms are an important worldwide problem because of their high incidence and prevalence in healthcare and food-related environments. Biofilms are communities of microorganisms embedded in a self-produced matrix of extracellular polymeric substances. This mode of microbial growth makes the microorganisms resistant to environmental stresses such as desiccation, pH, nutrient deficiency, host immune system, antibiotics, and antimicrobial compounds. For this reason, the microbial contamination of surfaces and the incidence of infections continue to occur despite conventional antimicrobial methods. This Special Issue invites researchers to publish innovative approaches to inhibit the growth of microbial biofilms. Articles will be compiled that include the use of physical, chemical, and biological strategies to counteract microbial biofilms.

Original research and review articles will be accepted. Topics of interest include (but are not limited to) the following areas:

- Novel plant-derived compounds;
- New synthetic antimicrobials;
- Physical methods;
- Microbial enzymes and bacteriocins;



mdpi.com/si/164927

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Hinh Ly

Department of Veterinary &
Biomedical Sciences, University
of Minnesota, Twin Cities, MN,
USA

Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics. *Pathogens* is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, PubAg, CaPlus / SciFinder, AGRIS, and other databases.

Journal Rank: JCR - Q2 (*Microbiology*) / CiteScore - Q2 (*General Immunology and Microbiology*)

Contact Us

Pathogens Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/pathogens
pathogens@mdpi.com
[X@Pathogens_MDPI](https://twitter.com/Pathogens_MDPI)