Special Issue

From Whisper to Resistance: Bacterial Dialogues Behind Biofilm

Message from the Guest Editor

Biofilms represent some of the most complex and resistant forms of microbial life, shaped by sophisticated communication networks that range from subtle chemical signals to coordinated actions of resistance. These interactions between bacteria, which are mainly regulated through quorum sensing, are responsible for the structural and functional diversity within biofilms, as well as for their remarkable capacity to resist antibiotics and evade host immune defences. Far from being passive cell aggregates, biofilms are dynamic communities where bacteria exchange signals, share nutrients, and adapt collectively to environmental and host-related stress. This Special Issue presents recent research and reviews on the molecular communication involved in the formation, maintenance, and adaptation of biofilms.

Guest Editor

Dr. Andrea Muras

Servicio de Microbiología, Instituto de Investigación Biomédica de A Coruña (INIBIC), Complexo Hospitalario Universitario de A Coruña (CHUAC), Sergas, 15006 A Coruña, Spain

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Pathogens
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pathogens@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Hinh Ly
Department of Veterinary & Biomedical Sciences, University of Minnesota, Twin Cities, MN, USA

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