Special Issue

Gene Regulation in Biofilms

Message from the Guest Editor

For a long time, bacteria have only been considered to live a planktonic lifestyle as floating or actively swimming single organisms. Over the past five decades, however, it has become increasingly clear that many bacteria can live in multicellular communities, e.g., through the formation of stress-resistant biofilms. Biofilm formation is a tightly regulated process found both in Gram-negative and Gram-positive bacteria that involves several steps: (i) attachment of planktonic bacteria to biotic or abiotic surfaces; (ii) microcolony formation through replication and cell-to-cell adhesion; (iii) development into highly organized mature biofilms embedded in an extracellular polymeric matrix; and (iv) dispersal of biofilm cells by switching to the planktonic state.

This Special Issue focuses on the latest state-of-art developments and current knowledge in the field of gene regulation in bacterial biofilms, both in vitro and in vivo. We invite authors to submit research or review manuscripts covering thes

Guest Editor

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Deadline for manuscript submissions

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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

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