



Microbial Biofilms in Healthcare: Formation, Prevention and Treatment

Guest Editor:

Dr. Karen Vickery

Surgical Infection Research
Group, Faculty of Medicine and
Health Sciences, Macquarie
University, Sydney, NSW,
Australia

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Message from the Guest Editor

Dear Colleagues,

Biofilms are ubiquitous and cause many problems in industry. However, no where do biofilms impact on human health and welfare as much as those that are found contaminating the healthcare environment, surgical instruments, equipment and medical implantable devices. Approximately 70% of healthcare associated infections are due to biofilm formation resulting in increased patient morbidity and mortality. Biofilms formed on reusable surgical instruments, such as endoscopes, have been shown to transmit infection from patient to patient while biofilms formed medical implants are recalcitrant to antibiotic treatment, which leaves implant removal as the principal treatment option. Research has focused on preventing biofilm contamination of equipment and implants by physical surface modification of materials or impregnation of biocides into materials whilst treatment options have investigated combination therapy involving dispersal agents and biocides. This Special Issue will detail recent advances in biofilm prevention, removal and treatment strategies practical for use in healthcare.

Prof. Karen Vickery
Guest Editor





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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Materials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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