Special Issue

Bioengineering on Study and Development of Innovative Antimicrobial Concepts

Message from the Guest Editors

Antimicrobial-resistant (AMR) bacteria are globally causing a substantial amount of death and a huge cost to public healthcare systems every year. Hence, insightful studies considering innovative antimicrobial concepts are important to discover the interaction mechanism between bacteria and materials, leading to new concepts for developing innovative antimicrobial materials. The mechanisms found regarding bacteriabacteria interaction and bacteria-material interaction are helpful in designing new concepts to impede bacterial colonization on material surfaces. The obtained knowledge can guide the design of new materials to prevent bacterial colonization or effectively kill bacteria, which can be moreover applied in broad fields, e.g., implant design, water purification, biosensor development, and food packaging. This Special Issue "Bioengineering on Study and Development of Innovative Antimicrobial Concepts" will promote original research studies and comprehensive reviews that focus on, but are not limited to: bacterial interaction regarding bacterial colonization/infection and new concept design of preventing bacterial colonization/infection bacterial sensing.

Guest Editors

Dr. Fei Pan

Prof. Dr. Yen-Hsun Su

Prof. Dr. Fangwei Guo

Deadline for manuscript submissions

closed (16 October 2023)



Bioengineering

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

mdpi.com/journal/ bioengineering





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Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

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