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Development of Novel Anti-microbials to Reduce Bacterial Contamination of Food

Guest Editor:

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Deadline for manuscript submissions:
closed (31 January 2021)

Message from the Guest Editor

The CDC keeps listing an impressive number of food borne disease outbreaks despite all current techniques to control bacterial contamination on food and food products. Such contamination can occur during the pre-harvest environment or in the processing facility post-harvest. Current treatments are only partially effective because of the development of bacterial resistance, the formation of bacterial biofilm, and inactivation of the treatment compound (*e.g.* chlorine) by the food products themselves.

This Special Issue will include basic research approaches that are aimed at enhancing our understanding of how contamination occurs during the food processing chain, as well as more immediate and applied approaches to the development and use of novel anti-microbials.

An example of a more immediate approach could be the screening of large libraries of chemical compounds. Applied research may outline how an already identified compound can be used during food processing. Overall, we are seeking a broad spectrum of novel approaches to reduce bacterial contamination on food at all stages of their development.

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Editor-in-Chief

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Message from the Editor-in-Chief

There are very few fields that attract as much attention as scientific endeavor related to antibiotic discovery, use and preservation. The public, patients, scientists, clinicians, policy-makers, NGOs, governments, and supra-governmental organizations are all focusing intensively on it: all are concerned that we use our existing agents more effectively, and develop and evaluate new interventions in time to face emerging challenges for the benefit of present and future generations. We need every discipline to contribute and collaborate: molecular, microbiological, clinical, epidemiological, geographic, economic, social scientific and policy disciples are all key. *Antibiotics* is a nimble, inclusive and rigorous indexed journal as an enabling platform for all who can contribute to solving the greatest broad concerns of the modern world.

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