

# Special Issue

## Novel Disinfectants and Antiviral Agents

### Message from the Guest Editor

Currently, medical instruments are sterilized by autoclaving, gamma-ray treatment and, UV exposure, and the use of gases such as ethylene oxide, as hydrogen peroxide, formaldehyde, peracetic acid. Autoclaving is really quick, highly penetrative, and generate no toxic residues, but temperature of 120 °C could damage the material being sterilized. Treatment with gamma rays is highly penetrative, and involves low temperatures with no associated residues, but it could induce no changes in the properties of the materials and is a relatively slow process. UV treatment is fast, low cost with no toxic residues, and involves low temperatures, but the effectiveness of the sterilization is poor and may result in damage to the material. Although novel techniques have been developed, such as chemical treatment with supercritical carbon dioxide as well as freeze-drying and other methods, these procedures are often ineffective and may damage the materials being sterilized. Plasma is effective against a broad spectrum of pathogens. New kinds of herb extracts also will open the new fields in biological disinfection.

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### Guest Editor

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### Deadline for manuscript submissions

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## Microorganisms

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### Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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