

Special Issue

Analytical Microbiology

Message from the Guest Editor

Since its initial scope as a branch of microbiology in which microorganisms were used as ‘reagents’ for the quantitative determination of certain compounds in health and ecological environments, analytical microbiology has evolved, together with the development of analytical chemistry, towards its application in microorganism identification, systematics, and diagnosis.

Miniaturization and computer-assisted processing of large sets of analytical data from highly sensitive techniques, especially innovative mass spectrometry combined with highthroughput gas or liquid chromatography, are advancing analytical microbiology towards a new level of understanding of how microorganisms, individually or in communities such as the microbiome, react to their environment, and how changes in their growth conditions can affect the molecular networks they produce.

This Special Issue of *Molecules* aims to cover current analytical microbiology and how chemical innovations and big data processing may open future trends in the field.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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