







an Open Access Journal by MDPI

# **Phytomicrobiome Research for Disease and Pathogen Management**

Guest Editors:

## Dr. Wen Chen

1. Ottawa Research and Development Centre, AAFC, Ottawa, ON K1A 0C6, Canada 2. Department of Biology, University of Ottawa, Ottawa, ON, Canada

#### **Dr. Adeline Picot**

Laboratoire Universitaire de Biodiversité et Écologie Microbienne, Univ Brest, INRAE, F-29280 Plouzané. France

Deadline for manuscript submissions:

closed (30 October 2023)

## **Message from the Guest Editors**

Plant health and productivity require a holistic view and an in-depth understanding of the diversity and functions of microorganisms associated with soil and plants, also known as phytomicrobiome, which include beneficial members that provide critical ecosystem services and pathogens threatening food safety and security. Highthroughput omics tools, ranging from metabarcoding, metagenomics, metatranscriptomics, metaproteomics, to metabolomics. allow identify bioindicators (microorganisms, genes, and/or molecules) associated with ecosystem functioning, reveal synergisms and antagonisms among community members across kingdoms, and assess the impact of environmental (e.g. climate) and anthropological factors (e.g. agronomic practices).

This special issue looks forward to receiving contributions about

- 1) phytomicrobiomes, their functions and dynamics in agroecosystems or forests
- 2) the impact of environmental and anthropogenic factors
- 3) interactions among community members and, notably, towards phytopathogen communities (e.g. viruses, bacteria, fungi, oomycetes, protozoa, nematodes) or pests.













an Open Access Journal by MDPI

## **Editor-in-Chief**

# Prof. Dr. Dilantha Fernando Department of Plant Science, University of Manitoba, Winnipeg, MB R3T 2N2. Canada

# **Message from the Editor-in-Chief**

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

## **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)

## **Contact Us**