







an Open Access Journal by MDPI

# **Plant Metabolic Genetic Engineering**

Guest Editors:

#### Dr. Yanjie Zhang

School of Agricultural Sciences, Zhengzhou University, Kexue Avenue 100, Zhengzhou 450001, China

#### Dr. Yan Li

The Center of Advanced Analysis and Gene Sequencing, Zhengzhou University, Kexue Avenue 100, Zhengzhou 450001, China

Deadline for manuscript submissions:

closed (31 July 2023)

## **Message from the Guest Editors**

Dear Colleagues,

Plant metabolic engineering is an effective and beneficial strategy in producing desired chemicals or other products. To boost the development of genetically modified plants, there is an urgent need to invent new technologies for the rapid identification of metabolites and isolate the key genes involved in the biosynthesis or regulation of these metabolites.

In this Special Issue, we ask for contributions relating to **plant metabolic engineering** and **synthetic biology**. We would like to focus on metabolite identification, the isolation of key structural and/or regulatory genes, and precise genome engineering. We believe that quantitative approaches in metabolite analysis will help to reduce the time required to establish an efficient whole-cell biocatalyst, and the systems biology approach is helpful in reducing these unnecessary experiments at the wet-lab level and refining our targets (genes/enzymes) in the application of metabolic engineering. Therefore, successful examples of plant metabolic engineering using synthetic biology tools are also welcomed.

Dr. Yanjie Zhang Dr. Yan Li Guest Editors













an Open Access Journal by MDPI

## **Editor-in-Chief**

#### Dr. Amedeo Lonardo

1. Formerly Director of the Simple Operating Unit "Metabolic Syndrome", Azienda Ospedaliero-Universitaria, 41126 Modena, Italy 2. Formerly Professor of Internal Medicine, School of Specialization of Allergology and Clinical Immunology, University of Modena and Reggio Emilia, 41121 Modena, Italy

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

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies shown utility for elucidating have mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

### **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, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q2 (*Biochemistry & Molecular Biology*) / CiteScore - Q2 (*Endocrinology, Diabetes and Metabolism*)

## **Contact Us**