





an Open Access Journal by MDPI

Metabolic Engineering of Plants

Guest Editors:

Prof. Dr. Maria Lourdes Gómez-Gómez

Department of Science and Agroforestal Technology and Genetics, Botanical Institute, University of Castilla-La Mancha, Campus Universitario s/n, 02071 Albacete, Spain

Dr. Gianfranco Diretto

ENEA (Italian National Agency for New Technologies, Energy and Sustainable Development), Biotechnologies and Agroindustry Division, Department for Sustainability, Casaccia Research Center, Post Bag 026 Via Anguillarese 301, 00123 S.M. di Galeria (Rome), Italy

Deadline for manuscript submissions:

closed (31 December 2020)

Message from the Guest Editors

Dear Colleagues,

Plants have the ability to use CO₂ and the energy derived from the Sun to produce a highly diverse range of compounds. Therefore, plants are the most obvious platform for the sustainable generation of food, chemicals, and valuable materials. Metabolic engineering emerged and developed over the past 20 years as a field in which methodologies for the rational engineering of biological systems have been applied to specific industrial, medical, or scientific problems. Metabolic engineering in plants involves direct and indirect modifications of endogenous pathways to redirect one or more enzymatic reactions in order to produce new compounds or improve/retard the production of known compounds.

Prof. Dr. Maria Lourdes Gómez-Gómez Dr. Gianfranco Diretto *Guest Editors*













an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us