



Genomics of New Potential Food Sources

Guest Editor:

Dr. Mark E. Samuels

Department of Medicine,
University of Montreal, Montreal,
QC H3T 1C5, Canada

Deadline for manuscript
submissions:

closed (31 December 2025)

Message from the Guest Editor

Although the total number of edible plants in the world is huge, only a relatively small number of these comprise all the major commercial food crops. From an ecological perspective, there is relatively little diversity in large-scale commercial farming. In light of the ongoing rapid climate change, improving the robustness of our food supply is critical. This will undoubtedly involve continued improvements or adaptations of major food plants, but it would also be wise to increase the diversity of our food supply by adding additional edible plants at a large economic scale. Traditional breeding to improve the domestication traits of wild plants, even those that are already edible, is typically very slow, requiring hundreds of generations. Genomics offers the potential to greatly reduce these timelines. We recognize that some plants may already be important food sources in parts of the world where they are not major commercial products; studies of such plants are also welcome. The emphasis should be on improving their potential as new or more important food sources, to supplement the current major commercial crops.





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

Plants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/plants
plants@mdpi.com
[X@Plants_MDPI](https://twitter.com/Plants_MDPI)