Special Issue

Advanced Research in Plant Physiology, Metabolism and Signal Transduction

Message from the Guest Editor

Plants play an irreplaceable role in ecological balance and human life. However, frequent extreme weather events, such as droughts, heatwaves, floods, etc., as well as increased demand for food due to population growth, are currently becoming increasingly prominent issues. Therefore, we need to gain a deeper understanding of the mechanisms of plant development and their interactions with the environment to improve plant resilience, enhance agricultural productivity, and protect ecosystems. Therefore, this Special Issue will feature original theoretical and experimental research findings in the various fields of plant physiology and metabolism (including physiology, biochemistry, development, genetics, structure, plant-microbe interactions, etc.), covering various integration levels from molecular, subcellular, cellular, organ, whole plant to environmental levels. The present Special Issue of Life will primarily focus on three research directions: i. The molecular mechanism of plant development. ii. Plant adaptation to biotic and abiotic stresses and their signaling transduction. lii. The mechanism of plantmicroorganism interactions.

Guest Editor

Prof. Dr. Xiaomin Wang

School of Life Sciences, Lanzhou University, Tianshui Road 222, Lanzhou 730000, China

Deadline for manuscript submissions

30 April 2026



Life

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.0
Indexed in PubMed



mdpi.com/si/253210

Life
Editorial Office
MDPI, Grosspeteranlage 9
4052 Basel, Switzerland
Tel: +41 61 683 77 34
life@mdpi.com

mdpi.com/journal/ life





Life

an Open Access Journal by MDPI

Impact Factor 3.4 CiteScore 6.0 Indexed in PubMed



About the Journal

Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology, 08028 Barcelona, Spain

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, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biology) / CiteScore - Q1 (Paleontology)

