



*cells*



an Open Access Journal by MDPI

## Alteration of Growth, Physiological, Biochemical and Molecular Responses of Phototropic Organisms to Environmental Stress

Guest Editors:

**Dr. Chien Van Ha**

Institute of Genomics for Crop Abiotic Stress Tolerance, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409, USA

**Prof. Dr. Lam-Son Phan Tran**

Institute for Genomics of Crop Abiotic Stress Tolerance (IGCAST), Texas Tech University, Lubbock, TX 79409, USA

**Dr. Swarup Roy Choudhury**

Indian Institute of Science Education and Research (IISER) Tirupati, Tirupati, Andhra Pradesh, India

Deadline for manuscript submissions:

**closed (30 September 2023)**

### Message from the Guest Editors

Phototropic organisms are regularly exposed to changing environmental conditions during their lifetime. Environmental stresses cause adverse effects on growth, development, survival, and yield. Studies are needed on the morphological, physiological, biochemical, molecular, and metabolic responses observed in phototropic species and accessions that are tolerant or resistant to environmental stresses with a view to the functional characterization of genes involved in adaptation processes.

This Special Issue aims to bring together knowledge on phenotypic, genomic, genetic, and metabolomic responses to environmental stresses. The information of morphological, physiological, biochemical, metabolomic, and genetic mechanisms for tolerance and the associated problem of environmental stress will be addressed.



[mdpi.com/si/134655](https://mdpi.com/si/134655)

**Special** Issue



*cells*



an Open Access Journal by MDPI

## Editors-in-Chief

### **Dr. Alexander E. Kalyuzhny**

Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE, Minneapolis, MN 55455, USA

### **Prof. Dr. Cord Brakebusch**

Biotech Research & Innovation Centre, The University of Copenhagen, Copenhagen, Denmark

## Message from the Editorial Board

*Cells* has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

## 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](#), [MEDLINE](#), [PMC](#), [CAPus / SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (Cell Biology) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

## Contact Us

---

*Cells* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/cells](http://mdpi.com/journal/cells)  
[cells@mdpi.com](mailto:cells@mdpi.com)  
[X@Cells\\_MDPI](#)