



State-of-the-Art Research on Fungal, Bacterial, and Viral Stresses in the USA

Guest Editor:

Dr. Luz E. de-Bashan

Bashan Institute of Sciences,
1730 Post Oak Ct, Auburn, AL
36830, USA

Deadline for manuscript
submissions:

closed (30 September 2022)

Message from the Guest Editor

Dear Colleagues,

This Special Issue aims to provide a comprehensive overview of recent advances in research on fungal, bacterial, and viral responses to biotic and abiotic stresses in the USA. We invite contributions from American research institutes/laboratories that consolidate our understanding of this area.

Potential topics include, but are not limited to:

- Oxidative stress, osmotic stress, nutritional stress, and mechanical stress in fungi
- Host-related stress survival mechanisms
- **Heat shock** response in bacteria
- Envelope stress response in bacteria
- Cold shock response in bacteria
- Bacterial stress response to changes in temperature, pH, nutrients, salts, and oxidation
- Plant stress homeo-regulating rhizobacteria

Dr. Luz E. de-Bashan

Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Dr. Monica Ruffini Castiglione

Department of Biology, University of Pisa, Via Luca Ghini 13, I-56126 Pisa, Italy

Message from the Editor-in-Chief

Stresses is an open access international journal publishing top quality research covering all aspects of how humans, animals, plants, algae, fungi, bacteria, and viruses respond to abiotic and biotic stresses. The thinking behind *Stresses* is substantially inspired by the pioneering studies on the effects and responses to various stressors performed by the eminent scientist Hans Selye. Submissions from basic and applied research are welcome, as long as they are based on a clearly defined mechanistic hypothesis. Review manuscripts are encouraged, but they must be a critical review of existing literature and not just a summary. All submitted manuscripts will be subjected to a thorough peer-reviewing process.

Author Benefits

Open Access: free for readers, with **article processing charges (APC)** paid by authors or their institutions.

High Visibility: indexed within **Scopus** and **other databases**.

Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 22 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).

Contact Us

Stresses Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/stresses
stresses@mdpi.com