Aims and Scope of the Journal *Environmental and Experimental Botany*:

*Environmental and Experimental Botany* (EEB) publishes research papers on the physical, chemical, biological, molecular mechanisms and processes involved in the responses of plants to their environment.

In addition to research papers, the journal includes review articles. Submission is in agreement with the Editors-in-Chief.

The Journal also publishes special issues which are built by invited guest editors and are related to the main themes of EEB.

The areas covered by the Journal include:

1. Responses of plants to heavy metals and pollutants
2. Plant/water interactions (salinity, drought, flooding)
3. Responses of plants to radiations ranging from UV-B to infrared
4. Plant/atmosphere relations (ozone, CO2, temperature)
5. Global change impacts on plant ecophysiology

Each submitted manuscript related to these areas should be preferably based on an explicitly elaborated mechanistic hypothesis. The purely descriptive and following types of manuscripts are not suitable for *EEB*: field monitoring surveys, pure mathematical modeling without experimentations, pure correlative works, applied papers on agriculture and phytopathology, studies of plant biology, gene expression and molecular works without considering environmental aspects. The research should be based on a clear hypothesis and provide new insights on plant responses to the environment, preferably providing evidence of new mechanisms underlying plant stress resistance. Ecological studies are also encouraged if they provide a sound basis of physiological processes involved in the plant response to the environment.
AUDIENCE

Plant scientists, physiologists and molecular biologists.

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Heavy metals/trace elements in soils and plants, rhizosphere processes involved in metal/trace element acquisition, soil remediation technologies / phytoremediation

Joaquim Albenisio Gomes Silveira, Federal University of Ceara Plant Metabolism Laboratory, FORTALEZA, Brazil

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Joaquim Albenisio Gomes Silveira, Federal University of Ceara Plant Metabolism Laboratory, FORTALEZA, Brazil

Plant-soil relationships, plant mineral nutrition, salinity, ion toxicity, trace elements

Marián Brestić, Slovak University of Agriculture, Faculty of Agrobiology and Food Resources, Department of Plant Physiology, Nitra, Slovakia
photosynthesis, crop physiology, plant phenotyping, plant stress physiology, drought tolerance, high temperature stress, salinity, heavy metal toxicity, nano-biotechnology, cereals, wheat

Redox regulation of photosynthesis under abiotic stress

Kunming Chen, Northwest A&F University, College of Life Sciences, State Key Laboratory of Crop Stress Biology in Arid Areas, Yangling, China
Abiotic stress, ROS signaling and Redox balance, Stress physiology and molecular biology, Biosafety and environmental phytoremediation

Ilaria Colzi, University of Florence Department of Biology, Firenze, Italy
Main research interests: molecular and physiological studies on metal tolerance strategies of wild plants adapted to grow on heavy metals-enriched soils (e.g. mines or serpentine outcrops), and their potential for application in environmental technologies; metal exclusion and hyperaccumulation; plant responses and signalling under abiotic stress.

Danilo Menezes Daloso, Federal University of Ceará, Department of Biochemistry and Molecular Biology, Fortaleza, Brazil

Plant metabolism: Stomata regulation, metabolomics and inter-organelle thiol-metabolism

Thomas A. Day, Arizona State University, Tempe, Arizona, United States

climate change, deserts, biogeochemistry, ecology, ecosystems

Liumin Fan, Peking University, Beijing, China

mechanisms underlying plant stress and phytohormone gibberellin signal transduction; functional genomics, molecular genetics, biochemical and other approaches, stress and gibberellin signaling pathways, epigenetic regulatory machinery for gibberellin and stress-responsive gene expression; cross-talk between gibberellin and stress hormone abscisic acid

Renwei Feng, Fujian Agriculture and Forestry University, China

Antimony; Selenium; phytoremediation; in situ passivation; risk assessment of heavy metal contamination

Lorenzo Ferroni, University of Ferrara Department of Life Sciences and Biotechnology, Ferrara, Italy

Photosynthesis, Thylakoid membrane, Chlorophyll fluorescence, Acclimation

Etelvina Figueira, University of Aveiro, Aveiro, Portugal

mechanisms of tolerance to metals; oxidative stress; bacterial volatiles; plant bacteria interactions; plant growth promoting bacteria

Luisa Ghelardini, University of Florence Department of Agrarian Management Systems Food and Forestry, Firenze, Italy

Plant pathology, Tree phenology, (Alien) Plant pathogens, Emerging plant diseases

Cristina Gonnelli, University of Florence Department of Biology, Firenze, Italy

Race metals, Metallophytes, Exclusion, Hyperaccumulation

Robert Hänsch, Braunschweig University of Technology, Braunschweig, Germany

sulphite detoxification, nitrate assimilation, protein localization, protein-protein interaction, plant defensin - molecular plant physiology and plant cell biology

Henrik Hartmann, Max-Planck Institute for Biogeochemistry, Biogeochemical Processes, Jena, Germany

Tree mortality, drought, carbon allocation, carbohydrates, isotope labeling

Matthew Haworth, The National Research Council of Italy, Institute for Sustainable Plant Protection, Firenze, Italy

stomatal control; stomatal evolution; photosynthesis; elevated [CO2]; drought

David Jespersen, University of Georgia College of Agricultural and Environmental Sciences - Griffin Campus, Griffin, Georgia, United States

Turfgrass, grass physiology, Abiotic stress

Yuan-Qing Jiang, Northwest Agriculture and Forestry University, Yangling, Shaanxi, China

abiotic stress, abscisic acid, reactive oxygen species, biotic stress, transcription factor

Hazem M. Kalaji, Warsaw University of Life Sciences, Institute of Biology, Department of Plant Physiology, Warszawa, Poland

Photosynthesis, Chlorophyll fluorescence, Stress physiology, Plant talk, Machine learning

M.B. Kirkham, Kansas State University Department of Agronomy, Manhattan, Kansas, United States

Soil-plant-water relations, Drought stress, Elevated carbon dioxide, Uptake of heavy metals by plants

Hans-Werner Koyro, University of Giessen, Gießen, Germany

cash crop halophytes

Jörg Leipner, Zürich, Switzerland

breeding for abiotic and biotic stress tolerance; testing of effects and efficacy of agro-chemicals; studying the effects of climate change on plants; screening and characterization of mutants

Chunyang Li, Hangzhou Normal University, College of Life and Environmental Sciences, Hangzhou, China

Plant ecophysiology, Tree physiology, Stress physiology

Cornelius Lütz, University of Innsbruck Institute of Botany and Botanical Garden, Innsbruck, Austria

Plant anatomy and cell biology; Stress physiology of plants; Metabolic mechanisms of adaptations

Annamari Markkola, University of Oulu, Oulu, Finland

plant-fungal interactions, mycorrhizal ecology, forest ecology

Jordi Martinez-Vilalta, Center for Ecological Research and Forestry Applications, Barcelona, Spain

drought, ecophysiology, forest ecology, hydraulics, water transport

Andy A. Meharg, Queen’s University Belfast The Institute for Global Food Security, Belfast, United Kingdom

My research is focused around how pollutants & nutrients cycle in the environment. Arsenic biogeochemistry is of particular interest.

Cristina Nali, University of Pisa Department of Agricultural Food and Agro-environmental Sciences, Pisa, Italy
Air pollution, Abiotic stress, Plant pathology, Ecosystem services, Urban forestry

Abdallah Oukarroum, Mohammed VI Polytechnic University, Ben Guerir, Morocco
Plant Physiology, Plant stress, Photosynthesis, Chlorophyll a fluorescence, Ecotoxicology

Martina Pollastrini, University of Florence Department of Agrarian Management Systems Food and Forestry, Firenze, Italy
plant physiology, ecology, plant stress, forest biodiversity, forest monitoring, photosynthesis, chlorophyll fluorescence, drought, ozone, growth

Fernando Rivas, National Agricultural Research Institute of Uruguay, Salto, Uruguay
Cultivo; Genética vegetal y fitomejoramiento; Fisiología y bioquímica de la planta

Piotr Rozpadek, Jagiellonian University in Krakow Malopolska Centre of Biotechnology, Kraków, Poland
Endophytes, Symbiosis, Heavy metals, Gene expression

Eric Ruebland, Sorbonne University Pierre and Marie Curie Campus, Paris, France
My interest is lipid signaling in plants, and more precisely phosphoglycerolipid signalling.

Luigi Sanità di Toppi, University of Pisa, Pisa, Italy
Metal stress, adaptation and resistance

Dimitrios Savvas, Agricultural University of Athens, Athens, Greece
Irrigation of greenhouse crops, Greenhouse microclimate, Slinity management and strategies for improving the use of saline water in agriculture, Soilless culture, Nutrition and fertilization of vegetable crops, Implications of groundwater and surface water management on nutrient cycling, Physical properties of growing media and their impact on irrigation management of crops grown on substrates, Cultural practices in vegetable crops

Henk Schat, VU Amsterdam, Amsterdam, Netherlands
Mainly focused on the genetics, and physiological and molecular mechanisms, of metal hyperaccumulation and hypertolerance in (facultative) metallophytes

Rachid Serraj, CGIAR Independent Science & Partnership Council, Rome, Italy
Physiology; Stress tolerance; drought, nitrogen fixation; rice; dryland; water use efficiency; climate change; food security.

Sergey Shabala, University of Tasmania, Hobart, Australia
stress physiology (salinity; waterlogging; drought; oxidative stress; soil acidity; Al toxicity); membrane transport (ion channels and pumps); plant nutrition; stomata physiology; circadian and ultradian rhythms and oscillations

Arun K. Shanker, Central Research Institute for Dryland Agriculture, Hyderabad, Andhra Pradesh, India
Cr–plant interactions and various other abiotic stresses in crops and plants; gene finding and data mining to identify candidate genes for multiple abiotic stress tolerance in the family Poacea

Joseph Sullivan, University of Maryland at College Park, College Park, Maryland, United States
UV radiation, Plant Physiological Ecology, Global Climate Change, Stress Physiology

Ismail TURKAN, Ege University, İzmir, Turkey
Plant Physiology, Plant Biology, Physiology, Antioxidants, Botany, Reactive Oxygen Species, Abiotic Stress Tolerance, Plant Environmental Stress Physiology, Photosynthesis, Drought, Molecular Plant Physiology, Abiotic Stress, Environmental Stresses, Stress Physiology, Salinity, Salt-Tolerance, Redox Signaling, Redox Regulation, Salt Stress, Plant Stress, Glutathione Reductase, Plant Abiotic Stress

Massimiliano Tattini, Research Institute for the Sustainable Protection of Plants National Research Council Florence Unit, Sesto Fiorentino, Italy
oxidative stress, light quality, environmental stress, cold acclimation and deacclimation

Michael Tausz, Central Queenslands University Science Environment and Agriculture, Gladstone, Australia
plant physiologist interested in how trees and crops cope with environmental stress and changing climate

Timothy Tschaplinski, Oak Ridge National Laboratory, Oak Ridge, Tennessee, United States
Plant molecular physiologist experienced in biochemistry, specifically the application of mass spectrometry to research problems in genomics, bioenergy crop production, environmental stress physiology, and plant-microbe signaling. Current research includes metabolomics for phenotypic characterization of genetically-modified Populus, Arabidopsis, Eucalyptus, Castanea, switchgrass, and numerous bioenergy-relevant microbial species

Luis Valledor, University of Oviedo, Oviedo, Spain
abiotic stress, systems biology, proteomics, metabolomics, epigenomics

Joseph C.V. Vu, University of Florida, Gainesville, Florida, United States
Climate Change; Elevated Growth CO2; Water and Temperature Stresses; Leaf Photosynthesis; Carbon Metabolism

Ruigang Wang, Agro-Environmental Protection Institute Ministry of Agriculture and Rural Affairs, Tianjin, China
remediation of heavy metal contaminated soil, plant stress physiology and biochemistry, global climate change and plant adaptability

Yucheng Wang, Shenyang Agricultural University, College of forestry, Shenyang, China
Abiotic stress; Molecular biology; Transcription factor; Physiology

**Michael Wisniewski**, USDA-ARS Appalachian Fruit Research Station, Kearneysville, West Virginia, United States
stress physiology of fruit trees, cold hardiness, and frost protection, host-pathogen interactions, biological control of postharvest diseases, microbiome, apple biotechnology

**Yi Xu**, Texas A&M AgriLife Research and Extension Center at Dallas, Dallas, Texas, United States
plant physiology, abiotic stress, bioinformatics, molecular biology, antioxidants

**Hong-Xia Zhang**, Ludong University, College of Agriculture, Yantai, China
Abiotic stress, Transgenic plant, Xylem, Salt

**Sheng Zhang**, Sichuan University School of Life Sciences, Chengdu, China
Tree physiology, Proteomics, Metabolome, Biotic and abiotic stresses, Sexual difference

**Marek Živčák**, Slovak University of Agriculture in Nitra Department of Plant Physiology, Nitra, Slovakia
Stress, Photosynthesis, Phenotyping, Fluorescence, Crop physiology
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INTRODUCTION
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(5) Ecophysiology of Northern plants under global change and environmental stress

Each submitted manuscript related to these areas should be based on an explicitly elaborated mechanistic hypothesis.

The following types of manuscripts are not suitable for EEB: purely descriptive studies, use of unicellular or micro-organisms as models, agricultural investigations, phytopathological studies, ecological reports, studies of plant biology without considering environmental factors.

Types of issues
Alongside the standard issues, the journal publishes two other types of issues: Special issues and Virtual special issues. Special issues focus on a specific research topic and are organised by a guest editor. Virtual special issues bring together content already published on ScienceDirect. Articles appearing in virtual special issues have been selected by the Journal editor, highlighting topics that are of particular interest to the readers. The virtual issues are hosted on Elsevier.com, linking directly to the original articles on ScienceDirect.

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Original papers should report the results of original research. The material should not have been previously published elsewhere, except in a preliminary form.

Reviews should be related to an area covered by the journal. These are written on invitation or after initial contact with the Editor-in-Chief.

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Contributions
All persons designated as authors should qualify for authorship, and all those who qualify should be listed as authors. Each author should have participated sufficiently in the work to take public responsibility for appropriate parts of the content.

All authors should have made substantial contributions to all three of sections (1), (2) and (3) below:

the conception and design of the study, or acquisition of data, or analysis and interpretation of data drafting the article or revising it critically for important intellectual content final approval of the version to be submitted

Each manuscript should be accompanied by a declaration of each author's contributions relating to sections (1), (2) and (3) above. This declaration should also name one or more authors (including email addresses) who take responsibility for the integrity of the work as a whole, from inception to finished article. These declarations will be included in the published manuscript.

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**PREPARATION**

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Please ensure the figures and the tables included in the single file are placed next to the relevant text in the manuscript, rather than at the bottom or the top of the file. The corresponding caption should be placed directly below the figure or table.

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Divide your article into clearly defined and numbered sections. Subsections should be numbered 1.1 (then 1.1.1, 1.1.2, ...), 1.2, etc. (the abstract is not included in section numbering). Use this numbering also for internal cross-referencing: do not just refer to 'the text'. Any subsection may be given a brief heading. Each heading should appear on its own separate line.

Introduction
State the objectives of the work and provide an adequate background, avoiding a detailed literature survey or a summary of the results.

Material and methods
Provide sufficient details to allow the work to be reproduced by an independent researcher. Methods that are already published should be summarized, and indicated by a reference. If quoting directly from a previously published method, use quotation marks and also cite the source. Any modifications to existing methods should also be described.

Results
Results should be clear and concise.

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This should explore the significance of the results of the work, not repeat them. A combined Results and Discussion section is often appropriate. Avoid extensive citations and discussion of published literature.

Conclusions
The main conclusions of the study may be presented in a short Conclusions section, which may stand alone or form a subsection of a Discussion or Results and Discussion section.

Appendices
If there is more than one appendix, they should be identified as A, B, etc. Formulae and equations in appendices should be given separate numbering: Eq. (A.1), Eq. (A.2), etc.; in a subsequent appendix, Eq. (B.1) and so on. Similarly for tables and figures: Table A.1; Fig. A.1, etc.

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