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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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 Martínez-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 Rozpądek, Jagiellonian University in Krakow Malopolska Centre of Biotechnology, Kraków, Poland
Endophytes, Symbiosis, Heavy metals, Gene expression

Eric Ruelland, 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

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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 Poaceae

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

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 Queensland 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

Ismail Turkan, Ege University, Izmir, 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

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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