EUROPEAN JOURNAL OF SOIL BIOLOGY

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DESCRIPTION

The European Journal of Soil Biology covers all aspects of soil biology which deal with microbial and faunal ecology and activity in soils, as well as natural ecosystems or biomes connected to ecological interests: biodiversity, biological conservation, adaptation, impact of global changes on soil biodiversity and ecosystem functioning and effects and fate of pollutants as influenced by soil organisms. Different levels in ecosystem structure are taken into account: individuals, populations, communities and ecosystems themselves. At each level, different disciplinary approaches are welcomed: molecular biology, genetics, ecophysiology, ecology, biogeography and landscape ecology.

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INTRODUCTION

The European Journal of Soil Biology covers all aspects of soil biology which deal with microbial and faunal ecology and activity in soils, as well as natural ecosystems or biomes connected to ecological interests: biodiversity, biological conservation, adaptation, impact of global changes on soil biodiversity and ecosystem functioning and effects and fate of pollutants as influenced by soil organisms. Different levels in ecosystem structure are taken into account: individuals, populations, communities and ecosystems themselves. At each level, different disciplinary approaches are welcomed: molecular biology, genetics, ecophysiology, ecology, biogeography and landscape ecology.

The following main fields are distinguished:

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- Soil zoology and functional ecology. Community diversity and ecology of all faunal groups resident in soil at levels of species, communities and functional groups.
- Interactions between soil organisms among each other including symbiosis and pathogenecity and between soil organisms and their abiobic environment (mineral and organic compounds) and between below- and above ground processes. Importance of physicochemical parameters and soil surface properties on biological processes and population behaviour.
- Importance of biological processes for soil structuration, transport processes and conservation or mobilization of soil organic carbon. Biological transformations and mobilizations of organic and inorganic molecules. Cycling of carbon, nitrogen, sulfur, phosphate, iron and heavy metals.
- Utilization of soil biological activities to improve soil structure, prevent erosion, increase soil fertility or enhance other beneficial activities, including effects of composts or otherwise treated organic waste.
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