

Discipline Committee 5 (DC5) – Agricultural and Biological- Environmental Sciences – Panel Specialization

P501 Plant Physiology and Genetics, Plant Medicine

Plant physiology and genetics and plant medicine includes molecular, cellular and developmental plant biology, genetics, plant breeding and plant biochemistry, both of agricultural crops and of model plants used in basic research.

P502 Animal Physiology and Genetics, Veterinary Medicine

Animal physiology and genetics, veterinary medicine also includes the study of causative agents of diseases of livestock and wildlife. However, this panel does not include the study of special zoology focused on individual species/groups of organisms, which are covered in panel P506.

P503 Food science, Ecotoxicology and Environmental Chemistry

In addition to the topics of food science, ecotoxicology and environmental chemistry, the panel also includes projects focused on chemical, biochemical and microbiological analysis of food, biotic and abiotic remediations, bio-waste utilization, speciation of elements in the environment including their interactions with biological systems, agrochemical residues, phytochemicals and natural toxins.

The panel does not include, for example, only the development or use of analytical procedures or synthesis of compounds, technical or applied projects.

P504 Landscape Management, Forestry and Soil Biology, Ecosystem Ecology

The subject of panel P504 is the study of landscape management, landscape ecology, forestry, pedology, soil biology, hydrobiology, microbial ecology and ecosystem ecology. The panel does not include plant and animal autecology (excluding soil invertebrates) and geobotany. Projects focusing exclusively on geographic and/or socio-economic aspects of landscape management are not evaluated..

P505 Animal and Plant Ecology

Animal and plant ecology involves the study of the relationships between organisms and the environment at different levels of organisation (populations, species, communities and ecosystems).

The panel does not include the ecology of soil invertebrates (covered in panel P504).

P506 Botany and Zoology

The subject of the botany and zoology panel is the study of the biodiversity of eukaryotic organisms in terms of physiology, phylogeny, taxonomy and systematics, biogeography, interspecific interactions, ethology and evolutionary mechanisms.

However, this panel does not deal with the study of agricultural crops and livestock, which is covered in panels P501 and P502.