

SCOPE

The scope of this expert panel includes fundamental biological research, which focuses on research methodologies and/or by content on biological aspects from macromolecules to cellular level. The aim of the research is the fundamental knowledge of biological processes without immediate application goals (such as medical, bio-medical, agricultural and biotechnological).

In particular, the following topics are covered (not exhaustive):

TOPICS

- Research at the molecular level of the structure, function and turnover of biological macromolecules and metabolites.
- Research at the (sub)cellular level of biological phenomena.
- Research on methods and techniques at molecular-biological level..
- Computational biology for the processing, storage, visualisation and modelling of molecular biological data, bioinformatics, -omics technology and system-wide approaches.

EXAMPLES OF DISCIPLINES (NOT EXHAUSTIVE)

– MOLECULAR LEVEL

- » Biochemistry
- » Biomolecules
- » Biophysics (biological aspects and application of physics)
- » Molecular genetics
- » Structural biology
- » Systems biology

– CELLULAR LEVEL

- » Bioinformatics
- » Cellular biology
- » Computational biology
- » Glycobiology
- » Imaging
- » Molecular developmental biology
- » Molecular microbiology
- » Molecular modelling
- » Stem cell biology