



CELL AND PLANT PHYSIOLOGY LABORATORY

UMR 5168


Université
Grenoble Alpes

UMR 1417

 Plant Algae Chloroplast Lipid biogenesis Flower development Cytoskeleton Stress and metals

KEY FIGURES:

32 permanent researchers
and lecturers**21** technical and
administrative staff**34** PhD students and
postdoctoral researchers**40** publications per year
(on average)**4** patents over the last 5
years

OVERVIEW

The *Cell and Plant Physiology Laboratory* (LPCV) investigates the functional organization of cells, particularly plant cells. This research, conducted at both the molecular and cellular levels, is then placed in the broader context of the entire plant during its development. The effects of fluctuating environmental conditions are also studied. The aim is to better understand cellular mechanisms, including metabolic pathways and processes of division and morphogenesis at the cellular and tissue levels.

RESEARCH TOPICS

- **Photosynthesis and metabolism:** physiology and ecophysiology related to light capture, CO₂ assimilation, and metabolism in photosynthetic organisms; synthesis of membrane and storage lipids.
- **Morphogenesis and development:** cell polarity, cytoskeleton, dynamics of gene expression, (epi)genomic control of development.
- **Response and adaptation to fluctuating abiotic environments:** photosynthesis, phytoremediation and phytomanagement, organism responses to climate change.

<https://www.lpcv.fr/>