

OUR LABORATORIES AND FACILITIES (SOME EXAMPLES...)



"Agriculture and Climate Change" is a relevant research topic of DISTAL. It concerns the interaction between climate change, agricultural, forestry, livestock productions and services and the innovations for a resilient and mitigating agriculture. This topic includes mitigation, adaptation and modeling issues.

Department of Agricultural
and Food Sciences

V. le Fanin 40-50, 40127 Bologna

CONTACTS

distal.ricerca@unibo.it



AGRICULTURE AND CLIMATE CHANGE



GTI Agriculture and Climate Change: the three pillars of DISTAL researches

ADAPTATION

- evaluation of the effects of climate change on crop productions, cultural practices, soil functionality and degradation, insect diffusion and livestock health and welfare
- maintenance or improvement of qualitative characteristics of crop and livestock productions (resilient agriculture)
- study of the behavior of new, local and ancient genotypes suitable for the changed climatic conditions

MITIGATION

- promotion of new solutions reducing the impact of the productive processes on ecosystem services in a circular economy perspective
- promotion of agricultural and forestry techniques able to reduce CO₂ emissions and to sequester carbon

MODELING

- study of past and current climate change on local and territorial scale, by environmental data and results of long-term field trials
- improvement of the models that evaluate the effects of nitrogen on carbon and water balance, taking into account the interactions between CO₂ and climate change
- study the impact of climate change on farm income and on economic regional or national economic indicators

