

CREA faces, with multidisciplinary expertise, the major challenges of the 21<sup>st</sup> century associated with the sustainability of the agricultural, forestry and fish productive systems, the production of foodstuffs meeting the nutritional needs of an ever growing world population and the use of biomasses and discards for the production of materials and energy.



COUNCIL FOR AGRICULTURAL  
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Italy's most important research Institution for food and agriculture

CREA is organised into 12 Research Centres located throughout Italy.

**AGRICULTURE AND ENVIRONMENT** – It carries out studies and research for the characterization, sustainable management and the space-temporal modelling of agricultural and forestry ecosystems by means of an inter and multi-disciplinary approach.

**FOOD AND NUTRITION** – It carries out studies on technological and nutritional enhancement of agro-food products with particular focus on quality, functionality and food sustainability. It analyzes the relationships between food, nutrition and human health, promotes nutritional education campaigns and provides scientific support in terms of nutrition. It develops scenarios and indices on population's dietary behaviour.

**CEREAL AND INDUSTRIAL CROPS** – It deals, with multidisciplinary approach, the supply chains of cereals and industrial crops for human and animal consumption, as well as for non-food uses, thus ensuring the enhancement of productions also through genetic improvement and "omics" sciences for the preservation and management of biodiversity.

**PLANT PROTECTION AND CERTIFICATION** – It deals with the safeguard of agricultural, ornamental and forestry plants, as well as of the safeguard of foodstuffs from biotic and abiotic agents. It fosters the preservation and enhancement of the vegetal agri-biodiversity, with a particular focus on the assessment of stress-resilience features. It represents a national referent point for the defence and certification of premultiplication materials and of seeds, including the assessment for the enrollment or the release of ownership rights for vegetable varieties.

**FORESTRY AND WOOD** – It carries out studies and research for the sustainable management of woods and wood arboriculture. It deals with the genetic improvement of forest trees and maintenance /management of biodiversity, enhancement of wood and non-wood productions of forests and forestry plantations.

**GENOMICS AND BIOINFORMATICS** – It deals with genetics, genomic research, bioinformatics, biotechnologies and plant physiology. It carries out activities aimed at increasing knowledge on the structure and functions of genes and genomes and it carries out activities aimed at applying molecular genetics to agricultural species.

**ENGINEERING AND AGRO-FOOD PROCESSING** – It carries out activities in the field of the engineering of biosystems, of the agro-industrial processes and of transformation

tions, mainly fruit, vegetables, cereals and olives ones, for a sustainable management of agro-eco-systems, and of the agricultural, agri-food and agro-industrial supply chains.

**OLIVE, FRUIT AND CITRUS CROPS** – It deals with wood crops: fruit, citrus and olive tree. It carries out research activities for the improvement of the supply chains, by developing technologies for genetic improvement, propagation, sustainability of productions and quality of fruit, up to the enhancement of by-products. It takes care of conservation, characterization and valorisation of fruit, citrus and olives.

**VEGETABLE AND ORNAMENTAL CROPS** – It carries out research with integrated and multi-disciplinary approaches for genetic improvement, enhancement of biodiversity, agronomic innovation and eco-friendly safeguard of the species cultivated in open fields and in nurseries, horticultural crops, aromatic plants, flower and ornamental crops, urban furnishings and nursery production.

**AGRICULTURAL POLICIES AND BIOECONOMY** – It develops cognitive and interpretative analysis of economic and social dynamics related to the agro-food, forestry and fish sectors. It carries out surveys on the features and evolution of rural areas and the respective competitive factors. It provides support in the processing of sectorial policies, monitoring their evolution and assessing the effects on the systems. It represents the reference for CREA in terms of creation of sectorial data banks within the national statistical system.

**VITICULTURE AND ENOLOGY** – It deals with viticulture with reference to table grapes and wine grapes, wine-making process included. It carries out activities of preservation and enhancement of the national viticulture germplas. It fosters innovative growing techniques aimed at achieving food safety and at promoting environmental sustainability, including the relationship soil-landscape-viticulture. It carries out chemical, biological and sensorial studies related to the transformation of grapes through the enhancement of biodiversity and of fermentation microorganisms.

**ANIMAL PRODUCTION AND AQUACULTURE** – It deals with animal husbandry and aquaculture, implementing programmes of genetic improvement and developing innovations in the field of animal products and of the control of their sophistication, as well as of the plants and technologies for the optimisation of breedings. The Centre carries out activities related to the maintenance of animal biodiversity, as well as genetic improvement of fodder and proteic species for animal feeding.