



integrate di post-genomica" (GENOPOMPRO) (Strengthening the tomato supply chain through integrated post-genomic applications) and *"Valorizzazione di produzioni ortive campane di eccellenza con strumenti di gnomica avanzata"* (GENHORT) (Enhancement of Campania horticultural productions of excellence with advanced gnomics tools);

- PON-MIUR project *"Sviluppo di tecnologie verdi per la produzione di BIOchemicals per la sintesi e l'applicazione industriale di materiali POLImerici a partire da biomasse agricole ottenute da sistemi colturali Sostenibili nella Regione Campania- BioPoliS"* (Development of green technologies for the production of BIOchemicals for the synthesis and industrial application of POLYMER materials starting from agricultural biomass obtained from sustainable cultivation systems in the Campania Region - BioPoliS);
- European project Horizon 2020 program *"Traditional tomato varieties and cultural practices: a case for agricultural diversification with impact on food security and health of European population - TRADITOM"* (2015-2018).

In progress

- Project financed by Regione Campania under the 2014-2020 PSR measure 10.2.1 "AgroBiodiversità Campania";
- projects funded by the Campania Region Dissemination and technology transfer under the 2014-2020 PSR measure 16.5.1;
- European project PRIMA program "BRINGING INNOVATION AND SUSTAINABILITY ALONG THE WHOLE VALUE CHAIN IN THE MEDITERRANEAN TOMATO INDUSTRY";
- Projects financed by the Campania Region for the validation and transfer of innovation to the primary sector under the 2014-2020 PSR measure 16.1.2;
- Projects financed by the GAL Alto Tammaro Scarl :Dissemination and technology transfer Measure 16 Cooperation - Submeasures 16.9 and 16.5.1;
- Project funded by the Ministry of University and Research "PRIN /



RHIZOBIOREM: caratterizzazione di dettaglio e validazione di protocolli di bio-fitorisanamento di suoli contaminati "sito di Acerra" (PRIN / RHIZOBIOREM: detailed characterization and validation of bio-phytoremediation protocols of contaminated soils "Acerra site");

- Program of functional requalification and restitution to ordinary agricultural use of the San Giuseppiello area (NA) through the application and validation of the "Life-Ecoremed" rehabilitation protocol - client Ciram Consorzio interuniversitario Federico II University;
- Project for the operational safety of the land in area "E" and of the flower beds in area "B" of the Ecobat plant by applying the "Life-Ecoremed" protocol - client Ciram Consortium of the Federico II University.

Staff

Legal representative: **Dr. Rachele Badile**

Researchers: **Dr. Patrizia Spigno - Dr. Riccardo Riccardi**

D.ssa Gabriella Fucci

Technicians: Agricultural Expert **Raffaele Perreca**

Technical Collaborator **Rita Liberatore**

Administration and services: **Dr. Leandro Badile**

The experimental farm

ARCA 2010 uses an experimental farm of about 53.000 square meters (offices, warehouses and rented agricultural land) located in Acerra (NA) used for experimental field tests on horticultural and agro-energy crops equipped with offices, warehouses for the shelter of agricultural machines and tools, warehouse for the storage of fertilizers, pesticides and various materials, agricultural and operating machines, irrigation system over the entire surface, scales and instruments for the detection of technical data.



RESEARCH, DEVELOPMENT AND EXPERIMENTATION IN AGRICULTURE

SOCIETA' COOPERATIVA arl

Sede legale:

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ARCA 2010 società cooperativa a responsabilità limitata (limited liability cooperative company) deals with research and development and experimentation in agriculture, in the agri-food chains and in the agro-energy and environmental chains.

Together with the Regione Campania, it is a founding member of the Consortium for Applied Research in Agriculture (CRAA), which also includes the University of Naples Federico II, the University of Salerno, the University of Sannio, the Vanvitelli University. It participated in the (Centro Orticolo Campano), born on the initiative of the Department of Agriculture of the Regione Campania, together with the public bodies CRA - Alternative tobacco crops of Scafati and CRA - Orticoltura di Pontecagnano, and assumed responsibility for the thematic area "Variety Orientation in Horticulture". It collaborates and has collaborated with the main public research institutions in Campania and on the national territory, and with the Chambers of Commerce of Naples, Caserta and Salerno. It created, registered and patented a variety of San Marzano tomato (Kiros) and a variety of beans (Dragone).

ARCA 2010 is the site of the Herbaceous Germplasm Bank of the Campania Region.

Area of expertise

It has acquired professional experience and possesses skills in numerous areas of research, experimentation, training and services, including:

- varietal technical orientation in horticulture;
- creation of pilot fields for the dissemination of eco-compatible production techniques (integrated, organic);
- testing and optimization of innovative cultivation techniques;
- relaunch of horticultural and industrial crops in Southern Italy;
- enhancement and creation of traditional local production chains;



- recovery and enhancement of indigenous plant genetic resources;
- professional training courses and post-graduate training internships in the agro-industrial sector;
- training internships on agro-industrial issues as part of a Master managed by SDOA - Scuola d'organizzazione aziendale (School of Business Organization) of Vietri sul Mare (SA);
- training internships in the agro-industrial field for undergraduates as part of the international project "ERASMUS"; specific theoretical and practical training projects for the benefit of dozens of trainees (researchers and technicians) awarded scholarships as part of research projects funded by the Ministry of Scientific and Technological Research (MURST / MIUR);
- training and orientation internships as part of the degree course in Agricultural Sciences and Technologies of the Federico II University of Naples.

Range of services

ARCA 2010 cooperative society can offer various activities of experimentation and technology transfer services to companies and public and private research bodies in the agri-food, agro-energy and environmental sector:

- service activities for the recovery of analytical data (chemical-physical analysis of soils, agricultural production, etc.), already existing in private entities (farms) and public entities (Regione Campania, Chamber of Commerce, CREA);
- compilation of databases with analytical data linked to GIS files that can be consulted for the purpose of processing at different scales (spatial and temporal) to obtain thematic maps (map of organic matter, soil texture, etc.) for the purpose of evaluating fertility soils;
- supply of goods and services for the plant and the management of "phytoremediation" activities in polluted and uncultivated areas;



- setting up demonstration fields for the dissemination of plant species in cultivation and for the dissemination of technical innovations in agriculture;
- consultancy and technical support for the qualification of vegetable production;
- field varietal evaluations and drafting of varietal lists of plant species;
- drafting of optimized cultivation protocols;
- reintroduction and cultivation of traditional Campania vegetable ecotypes;
- development of traditional and non-traditional agri-food product chains;
- development of agro-energy and agri-environmental chains;
- constitution of new plant varieties;
- production of experimental batches of traditional and non-traditional vegetable seeds.

The Projects

ARCA 2010 has conducted and conducts, also in collaboration with public research bodies and universities, research and experimentation projects funded by the European Union, the Ministries and the Campania Region, in the agricultural, agri-food, agroenergetic and environmental sectors, including: *carried out in recent years*

- PON project "Creazione di filiere e implementazione di processi per la produzione di biopolimeri, biocarburanti e bio-products ad alto valore aggiunto da colture dedicate" (Creation of supply chains and implementation of processes for the production of biopolymers, biofuels and bio-products with high added value from dedicated crops);
- Project "LIFE11 / ENV / IT / 275 - ECOREMED - Implementation of eco-compatible protocols for agricultural soil remediation in the coast domizio-agro aversano nips";
- Project "Potenziamento della filiera del pomodoro attraverso applicazioni