

New genotypes for sustainable fruit and vegetable crops

Riferimenti

Tipo di progetto

Gruppo Operativo

Acronimo

GENOTIPI

Tematica

Biodiversità

Information

Time frame

2016 - 2019

Durata

36 months

Partners (no.)

5

Regione

Emilia-Romagna

Comparto

Multifiliera

Localizzazione

ITH54 - Modena

ITH57 - Ravenna

ITH58 - Forlì-Cesena

Costo totale

€372.534,00

Fonte di finanziamento principale

Programma di sviluppo rurale

Programma di sviluppo rurale

2014IT06RDRP003: Italy - Rural Development

Programme (Regional) - Emilia Romagna

Parole chiave

Plant production and horticulture

Genetic resources

Sito web

<https://progetti.crpv.it/Home/ProjectDetail/3>

Project status

completed



Objectives

The overall objective of the proposed plan is to select new cultivars of apple, pear, strawberry and asparagus with improved characteristics in comparison to those being available and cultivated today. The new fruit varieties will be provided with: crop adaptability to regional environment, tolerance to main pests, compact growth habit (for apple and pear) tree, fruit high quality and shelf-life, long harvest period. For the asparagus, the goal is to increase/maintain the crop profitability helping to increase/maintain the income of companies and the market competitiveness.

Activities

The new varieties are obtained by evaluating, in the field or in the laboratory, genotypes obtained from breeding programs carried out by CREA. The results of these programs (seedlings, selections, seeds and hybrids) were positive both in terms of agro-bio-pomological aspects, and in terms of phytosanitary aspects. Therefore they will be made available to this Operational Group for a following cycle of selection. The transfer of results will be carried out through a publishing plan, based on articles, technical meetings and guided tours in the fields, while the training activity will be linked to seminar forms.

Partenariato

Role	Azienda	Address	Telephone	E-mail
Leader	CRPV Soc. Coop. Centro Ricerche Produzioni Vegetali	Via dell'Arrigoni 120 47522 Cesena FC Italy	0547313571	ortofrutticola@crpv.it
Partner	ASTRA Innovazione e Sviluppo s.r.l.	Via Tebano 45 48018 Faenza RA Italy	054647169	info@astrainnovazione.it
Partner	CREA-CIN - Centro di Ricerca per le Colture Industriali	Via di Corticella 133 40128 Bologna BO Italy	051 6316811	cin@crea.gov.it
Partner	CREA-OFA - Unità di ricerca per Olivicoltura, Frutticoltura e Agrumicoltura	Via La Canapona 1 bis 47121 Forlì FC Italy	0543 89428	ofa.forli@crea.gov.it
Partner	New Plant	Via Malpighi 5 47122 Forlì FC Italy	0543798991	mirco.montefiori@newplant.it

Pratiche abstract

Description

At least 2 apple selections to release as new varieties.

At least 2 pear selections to release as new varieties.

At least 2 Strawberry selections to release as new varieties.

3-4 superior hybrids, one of which is to be included into the National Register of varieties

Main project benefits/opportunities for the end-user:

- Increasing the competitiveness of agricultural companies - The expected results would cause
- firstly the increase in competitiveness of the farms belonging to the OPs (Apofruit Italia, Apoconerpo and Orogel Fresco) involved in the Operational Group, established for the cultivation of new varieties of apple, pear, strawberry and new hybrids of asparagus.
- Decrease in costs of production and increase in productivity. The availability of new apple, pear and strawberry cultivars genetically resistant to biotic and abiotic stresses and suitable
- for regional cultural areas, could reduce the production costs thanks to the lower amount of chemical treatments as well as the supply of water, fertilizers, thinning, etc .. Similarly, a compact plant growth habit may facilitate pruning and harvesting operations with positive effects on the costs of such operations.

Results

Link utili

Titolo/Descrizione	Url	Tipologia
Sito web del progetto	https://progetti.crpv.it/Home/ProjectDetail/3	Sito web
Video - Nuovi genotipi per la frutticoltura e l'orticoltura sostenibile: Fragola in coltura protetta	https://progetti.crpv.it/File/DownloadFile/158?name=FragolaSaporidi%20bosco.pdf...	Materiali utili
Video - Nuovi genotipi per la frutticoltura e l'orticoltura sostenibile: Asparago	https://www.youtube.com/watch?v=cwCL32QSuS4%29	Materiali utili
Video - Nuovi genotipi per la frutticoltura e l'orticoltura sostenibile: Melo e Pero	https://www.youtube.com/watch?v=EkePWph_324%29	Materiali utili
Video - Nuovi genotipi per la frutticoltura e l'orticoltura sostenibile: Fragola in coltura di pieno campo	https://www.youtube.com/watch?v=Fc-J96AlPvU&t=66s%29	Materiali utili
Fragola: Saperi di bosco per le nuove varietà (Rivista Agricoltura aprile 2017)	https://progetti.crpv.it/File/DownloadFile/158?name=FragolaSaporidi%20bosco.pdf...	Materiali utili
Nuove selezioni di pere presso il Crea Ofa di Forlì (Frutticoltura dicembre 2018)	https://progetti.crpv.it/File/DownloadFile/189?name=5004722-Nuovi%20genotipi_Pe...	Materiali utili

Titolo/Descrizione	Url	Tipologia
Update on pear breeding program at CREA - XIII Pear Symposium ISHS Montevideo 4/7 dicembre 2018	https://progetti.crpv.it/File/DownloadFile/333?name=NuovigenotipiCaraccioloet%2...	Materiali utili
Nuovi ibridi di asparago per un'orticoltura sostenibile - L'Informatore Agrario 6-2020	https://progetti.crpv.it/File/DownloadFile/335?name=NuoviGenAsparagoInfAgr13_2_...	Materiali utili
CREA 305: la nuova mela del programma di breeding di Forlì (Frutticoltura ottobre 2018)	https://progetti.crpv.it/File/DownloadFile/178?name=5004722-Nuovi%20genotipi_Fr...	Materiali utili
Poster RRN - 22 Maggio 2018 Mestre (VE)	https://progetti.crpv.it/File/DownloadFile/237?name=Nuovi%20genotipi_poster_232...	Materiali utili
Superficial scald development in pear fruit during cold storage - XIII Pear Symposium ISHS Montevideo 4/7 dicembre 2018	https://progetti.crpv.it/File/DownloadFile/290?name=Pettriccione%20et%20al%20ISH...	Materiali utili
Updates on Italian Strawberry Breeding Programs coordinated by CREA - IX International Strawberry Symposium Rimini maggio 2020	https://progetti.crpv.it/File/DownloadFile/334?name=NuovigenotipiFragolaAbsract...	Materiali utili

Titolo/Descrizione	Url	Tipologia
Asparago: nuovi ibridi per la redditività delle aziende agricole - AgriCulture FIDAF 14-02-2020	https://progetti.crpv.it/File/DownloadFile/336?name=Asparago%20nuovi%20ibridi%20...	Materiali utili