Salvare il Fagiolo di Lamon da virosi distruttive che compromettono la coltivazione, il reddito e la sua storica biodiversità (Bando Leader) https://www.innovarurale.it/pei-agri/gruppi-operativi/bancadati-go-pei/salvare-il-fagiolo-di-lamon-da-virosi-distruttive-che

Save the Lamon bean from destructive viruses that prevent its economical cultivation and historical biodiversity

Riferimenti Tipo di progetto Gruppo Operativo - Leader

Acronimo FALARES

Tematica Difesa da malattie e infestazioni

Information Time frame 2019 - 2021

Durata 24 months

Partners (no.) 2

Regione Veneto

Comparto Orticoltura

Localizzazione ITH33 - Belluno

Costo totale €258.820,00

Fonte di finanziamento principale Programma di sviluppo rurale

Programma di sviluppo rurale 2014IT06RDRP014: Italy - Rural Development Programme (Regional) - Veneto

Parole chiave Pest /disease control Biodiversity and nature management Plant production and horticulture Food quality / processing and nutrition Genetic resources Agricultural production system

Sito web http://www.fagiolodilamon.it

Project status completed



Objectives

The Lamon bean is subject to recurrent virus epidemics with severe productive losses. Virus diseases cannot be cured and actually cultivated ecotypes lacking in genetic resistance. In the present project we intend select plants that in fields, under high infective pressure conditions, shown resistance or tolerance to viruses. The selection process of plants under conditions of high infection pressure may be continuous, leading in the medium term to the selection of tolerant or resistant ecotypes. The farmers will have healthy seeds available, deriving from a process of "guided coevolution" with pathogens and therefore with enhanced resilience.

Activities

The main activities are organized in three WP and sumarized as:

• Search of Lamon bean plants that behave as resistant or tolerant to viral plant pathogens in the field.

• Experimental confirmation of the status of resistance/tolerance in induced plants by artificial inoculations and application of laboratorial techniques in order to select induced and healthy plants.Molecular studies aimed to investigated origin of resistance/tolerance mechanisms.

• Improved virus-free seeds with enhanced resilience will be supplied to growers, annually.

• Diffused knowldege's by organizing local meetings and by means of several publications and a dedicated website http://www.fagiolodilamon.it



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Partenariato

Role	Azienda	Address	Telephone	E-mail
Leader	Consorzio per la tutela del fagiolo di Lamon	Via C. Rizzarda Feltre 32032 Feltre BL Italy	328 4013143	info@fagiolodilamon.it
Partner	Università degli studi di Udine - Dipartimento di Scienze AgroAlimentari, Ambientali e Animali	Via delle Scienze 206 33100 Udine UD Italy	0432 558804	psegreteria.di4a@uniud.it

Pratice abstract

Description

Selection of ecotypes of Lamon bean under virus infection pressure conditions. The selection of bean lines under controlled virus infection pressure (eg BCMV) represents an innovation from the point of view of the propagation of seeds. Usually in fact the seed propagation activity aims to obtain materials free from seed transmissible pathogens by excluding the contact between mother plant and a given pathogen. By this way the result is effective for the production of seeds free from the pathogen but at the same time there is no selection pressure exercised by the pathogen that could orient the selection of more tolerant genotypes. This innovative selection process can also be considered as "assisted" breeding, in fact the modern diagnostic techniques for pathogens will contribute to guarantee the absence of certain pathogens in the seed obtained. Consequently the seeds obtained by this process may be, as far as regards the absence of important pathogens, similar to those obtained in controlled cultivation environments but more resilient.

Link utili

Titolo/Descrizione	Url	Tipologia
Sito del Capofila	http://www.fagiolodilamon.it/it/	Link ad altri siti che ospitano informazioni del progetto

