IMPROVe

Methodological innovation for assessing resistance to virus Y in potatoes

Abstract

The evaluation of the level of sensitivity/resistance of new potato varieties to PVY is the responsability of the 'Commission Technique Permanente de la Sélection des plantes cultivées' (CTPS). To carry out this task, the CTPS exposes the genotypes to be studied to viral pressure under natural conditions by planting them close to rows of PVY-infected potatoes, thus acting as 'infecting' plants. The aim of the IMPROVe project is to improve the methodology used to ensure the reliability of the results of the assessment of the varietal susceptibility to virus Y of the varieties being studied for inclusion in the French Catalogue. Given the current context, this criterion will be decisive in the future for the development of new varieties in an already highly competitive market.

The aim of this project is to provide growers with reliable and accurate information on varieties, to help them choose which varieties to grow to better combat this virus.

Actions

Action 1 : identify new sites for experimentation

Action 2 : have an inoculum representative of viral diversity

Action 3 : define a new range of control varieties

Action 4 : assess the relevance of technological developments to improve the reliability of genotype classification

Action 5 : general coordination and promotion

TECHNICAL MEMO

Call for projects :
CASDAR Connaissances 2023

Project leader :

Project duration : 42 months

Start/End of project :

01/03/2022 – 31/08/2025

Partners :

- 3 regional growers organisations: Comité Centre et Sud, Comité Nord, Bretagne Plants
- GEVES
- INRAE IGEPP

Financial support :

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Project supported by:

InnoPlant

FN3PT/inov3PT project leader:
Laurent Glais

FN3PT/inov3PT project team:
Maryse Urvoy, Frédéric Boulard

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