



inov3PT
SEED POTATO
FOR THE FUTURE

POPEYE

Project sheet

For the selection of multi-resistant potatoes
requiring less use of plant protection products



Abstract

The potato plays a key role in the global food system. It is ranked as the third most important food crop in the world (FAO, 2024). It can be attacked by numerous pathogens, the most damaging of which are late blight, caused by *Phytophthora infestans*, and the Potato virus Y (PVY). In this context, the development of potato varieties that are multiresistant to these two pathogens in particular is one of the key strategies for protecting the crop whilst reducing the use of synthetic plant protection products. This project aims to generate knowledge and develop tools with a view to selecting multi-resistant potato varieties. It focuses on the genetic resistance of potatoes to late blight and the PVY virus, and aims to diversify the resistance factors, thereby helping to improve their sustainability.

Actions

Action 1 : Research and identification of new factors conferring resistance to late blight and PVY through phenotyping and genotyping

Action 2 : A study of the response to potato elicitation

Action 3 : Overview and distribution of resistance in registered varieties

Action 4 : Knowledge transfer for the development of new multi-resistant varieties

Action 5 : Project coordination

TECHNICAL MEMO

Call for projects :
CASDAR Connaissances 2025

Project leader :

INRAE



Project duration : 42 months

Start/End of project :
01/01/2026 – 30/06/2029

Partners :

- INRAE UMR 1349 IGEPP
- INRAE UE 1346 RGCO
- inov3PT
- Arvalis
- ACVNPT
- GEVES

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CASDAR

 **MINISTÈRE
DE L'AGRICULTURE
ET DE LA SOUVERAINETÉ
ALIMENTAIRE**
*Liberté
Égalité
Fraternité*

INRAE project manager :
F. Esnault

inov3PT project team :
S. Marhadour, L. Glais, C. Borrelli, J.
Simon, A. Méar, M. Urvoy, F. Boulard

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www.inov3pt.fr
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