



inov3PT
SEED POTATO
FOR THE FUTURE

CRYOPOT

Cryoconservation of the national potato collection



Abstract

France is the second largest producer of ware potatoes in Western Europe, with almost 450 varieties multiplied and produced. The BrACySol Biological Resources Centre maintains a large collection of potato genetic resources, built up since 1949, which today includes around 1200 old and modern varieties with a high level of genetic diversity. These resources are maintained in the form of tubers and vitro plants.

To maintain them, tubers need to be planted and harvested every year, or in vitro plants transplanted every 12 to 15 months. There is a real risk of losing certain accessions due to health problems. The aim of the project is to secure all the varieties in the National Collection, 88 varieties, in the cryobank.

Actions

Action 1 : preparing cuttings

Action 2 : ELISA tests

Action 3 : molecular profiles

Action 4 : apex cryopreservation

Action 5 : field compliance tests

TECHNICAL MEMO

Call for projects:

Fonds Collections et Biodiversité
2022

Project leader:



Project duration: 48 months

Start/End of project:

01/01/2023 – 31/12/2026

Partners:

- FN3PT/inov3PT
- Bretagne Plants Innovation
- Grocep
- SIPRE
- Germicopa Breeding

Financial support:



FN3PT/inov3PT project leaders:
Sylvie Marhadour, Yves Le Hingrat

Project website:



April 2024