

Potato clones for breeding programs with tolerance to abiotic stress

SPAIN / ARGENTINA / BOLIVIA / COSTA RICA / ECUADOR / PERU / URUGUAY

 Webstory



The technological solution

Identification and development of potato varieties with better adaptation to adverse environmental conditions (drought, heat and cold) in producing areas of seven countries.



Description

There are 280 progenitors and 350 promising progenies available for breeding programs as a basis for generating varieties with superior characteristics of adaptation to climate change. Genotypes with combined tolerances / resistance showing superior agronomic performance have been identified in the progeny.



Results

- An improved and consensual methodology was developed for the evaluation of adaptation to abiotic stresses.
- 59 candidate genes were identified for different abiotic stresses and the development of molecular markers for 31 superior alleles of these genes that can be applied in a marker assisted selection of materials adapted to climate change.

990

Trained people

26

Publications

74

Training events

ABOUT FONTAGRO

FONTAGRO is a unique cooperation mechanism for agricultural innovation in Latin America and the Caribbean (ALC) and Spain, that works through regional platforms. It is composed of 15 countries that have contributed capital exceeding 100 million dollars and the Inter-American Development Bank (IDB), which is its legal representative.

ORIGIN OF RESOURCES



Counterpart contribution
93.177.555

FONTAGRO
28.989.468

IDB
9.922.700

Other agencies
9.809.078

PARTICIPATION AND ROLE IN CONSORTIUMS SINCE 1998



FONTAGRO IN NUMBERS

193 Number of projects approved

141.9 Approved total amount US\$
MILLONES

9.8 Contribution from other agencies
MILLONES

32 Benefited countries

63 Generated technologies

15 New technologies for ALC

8 Technology of global relevance

MEMBER COUNTRIES

