

# New genetics to add value to agricultural and livestock production

ARGENTINA / CHILE / COLOMBIA / ECUADOR / PARAGUAY / URUGUAY / BRAZIL

 Webstory



## The technological solution

The project creates an inter-institutional platform for research and application of gene editing knowledge (GE) that will consolidate the regional research and innovation capacities in species of agricultural interest.



## Description

Genome edited based pilots oriented to: i) Obtain potato varieties with increased nutritional and industrial quality, ii) development of soybean with higher nutritional value suitable for humans, birds and fish iii) generation of animals with modified characteristics to generate products and/or by-products of interest



## Results

Despite the pandemic situation, in the first year 3 training instances were carried out involving researchers from Argentina, Ecuador, Peru, Chile and Colombia. Practices for the isolation and transfection of potato protoplasts were addressed; Protocols for soybean gene editing were generated and knowledge in animal cloning and gene editing was updated. These increased capacities allow us to envision important advances for the second year.

**+48**

Staff trained in gene editing

**+35**

Women trained in gene editing

**+6**

Workshops

**+56**

Members of the public-private GE Regional platform

**8**

Regenerated genotypes from protoplasts

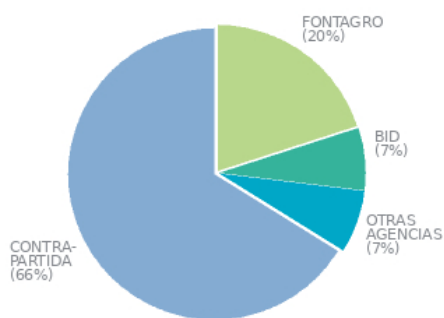
**4**

Potatoes with improved quality or health

## ABOUT FONTAGRO

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

### ORIGIN OF RESOURCES



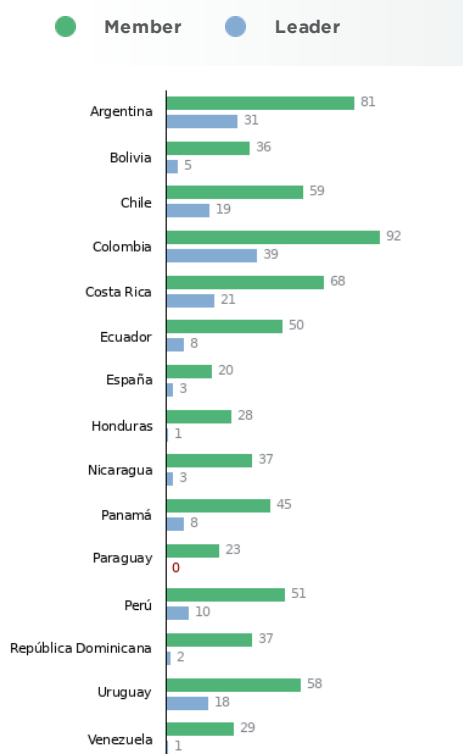
● **Counterpart contribution**  
99.076.177

● **FONTAGRO**  
30.879.468

● **IDB**  
9.922.700

● **Other agencies**  
11.140.612

### PARTICIPATION AND ROLE IN CONSORTIA SINCE 1998



### FONTAGRO IN NUMBERS

**205** Number of projects approved

**151.0** Approved total amount US\$  
MILLONES

**11.1** Contribution from other agencies  
MILLONES

**33** Benefited countries

**63** Generated technologies

**15** New technologies for LAC

**8** Technology of global relevance

### MEMBER COUNTRIES

Argentina

Bolivia

Chile

Colombia

Costa Rica

Dominican Republic

Ecuador

Honduras

Nicaragua

Panama

Paraguay

Peru

Spain

Uruguay

Venezuela