

New genetics to add value to agricultural and livestock production

ARGENTINA, CHILE, COLOMBIA, ECUADOR, PARAGUAY, URUGUAY, BRAZIL



Webstory



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.



Technological 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



Impacts and 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.



+ 65

Staff trained in gene editing



+ 6

Workshops



+ 56

Members of the public-private GE Regional platform



8

Soybeans with increased quality through GE



4

Potatoes with improved quality or health



2

Soybeans with increased quality through GE



4

RNA guides to edit cattle



+ 1.4 m

New Project Mobilization (USD)

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