Genomic location of resistance to **Yellow Rust and Spot Blotch in Barley**

URUGUAY / PERU / SYRIA / UNITED STATES















Webstory

The technological solution

Identification, characterization and localization of QTLs for resistance to Yellow Rust (Puccinia striiformis) and Spot Blotch (Cochliobolus sativus).



Description

A barley population of 330 lines was phenotypically characterized for resistance to Rust and Spot. Genotypic characterization was carried out using 1536 SNPs.



Results

- 22 QTLs were detected for resistance to Spot and Rust, the majority in genomic regions without previous reports, which allows to conclude that they are new resistances.
- A resistance gene pyramid construction process was started using the already known resistance and some of the new resistance detected.
- A network of collaboration and technical support was consolidated between the project participants and other collaborators.
- Human resources were trained in the use of genomic tools in support of genetic improvement.

Yellow Rust resistance QTLS

Publications

Spot Blotch resistance QTLS

Conference **Presentations**









ABOUT FONTAGRO

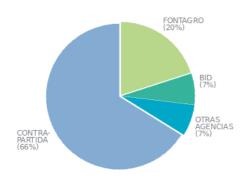
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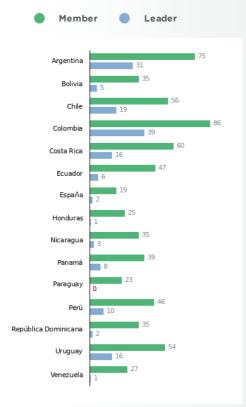
ORIGIN OF RESOURCES

PARTICIPATION AND ROLE IN CONSORTIUMS SINCE 1998

FONTAGRO IN NUMBERS



- Ocunterpart contribution 93.177.555
- FONTAGRO 28.989.468
- 9.922.700
- Other agencies 9.809.078



193 Number of projects approved

141.9 Approved tota amount US\$

Contribution from the other agencies

32 Benefited countries

63 Generated technologie

8

New technologies for ALC

Technology of global relevance

MEMBER COUNTRIES

