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G4007.21: Genotyping Support Service

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Collaborating institutions and scientists

GCP Subprogramme Leaders

Generation Challenge Programme (GCP) studies the genetic diversity of germplasm using genomics to discover the genes and alleles controlling the expression of complex agronomic traits. The results are useful for the plant sciences in general but especially for crop breeding because they contribute to the better understanding of traits controlling plant performance, and at the same time they facilitate the job of breeders, i.e. to create varieties faster and more suited to the users' needs. The GCP strives to transfer these results to crop scientists in the developing countries.

The Genotyping Support Service (GSS) facilitates the access of national agricultural research systems (NARS) to technologies developed by the GCP, bridging the gap between research in advanced facilities and that closer to the fields of developing countries. With these services, GCP offers cost-efficient genotyping services worldwide, access to data, support and training in statistics for proper interpretation of genotype and phenotype data. The aim is to raise the capacity of developing country researchers to access and use modern and more efficient tools and technologies.

In its second call, GSS received 78 applications, out of which 32 were selected and are being processed:

Crop	No Proposals
Barley	1
Coconuts	1
Sorghum	1
Sweet potatoes	2
Yams	1
Rice	2
Cassava	3
Musa	3
Phaseolus	3
Potatoes	4
Maize	5
Cowpeas	6

These applications were received from the following countries:

Country	No Proposals
Bolivia	2

Brazil	1
Bulgaria	2
Chile	3
Ecuador	1
Ethiopia	2
Ghana	5
India	4
Kenya	2
Malaysia	1
Mexico	1
Mozambique	1
Nigeria	1
Peru	1
Philippines	2
Sri Lanka	1
Thailand	1
Uruguay	1

Twenty two of these applications aim to conduct molecular characterisation of germplasm and ten address plant breeding issues such as marker assisted selection or gene tagging.

The GSS is considering the possibility to announce a new call for proposals .