PROJECT TITLE

Genomic Selection for increase flavour in cultivated strawberry

CONSORTIUM

P 1	Amparo Monfort		
P 2	Laura Zingaretti		
P 3	Miguel Pérez-Enciso		

SUMMARY OF THE REPORT

Genomic prediction (GP) is the procedure whereby the genetic merits of untested candidates are predicted using genome wide marker information. Although numerous examples of GP exist in plants and animals, applications to polyploid organisms are still scarce, partly due to limited genome resources and the complexity of this system. Therefore, the ultimate goal of this project is to apply genomic selection in octoploid strawberry. However, as we do not yet have information on molecular markers, in a first approximation of analysis, we aim to estimate the heritability of quality-related parameters in octoploid strawberry using linear models; we also resort to Principal Component Analysis (PCA) to explore the population structure.