



## Pre-breeding strategies for obtaining new resilient and added value berries



### OPEN CALL #1

#### Marker-Assisted Selection (MAS) in strawberry

Marker assisted selection is a method used to select desirable individuals in a breeding programme based on DNA molecular marker patterns in addition to their trait values. This can serve as a valuable tool to assist breeders to select new genotypes more efficiently. In this project, we will evaluate the predictive capacity of molecular markers and their usefulness for MAS. The selected markers are either already published or currently under research within the BreedingValue consortium, and have been validated in diverse strawberry germplasm for a reduced number of cases. We will focus on identifying molecular markers for the traits listed in the call fiche, such as disease resistances, fruit quality as well as vegetative and production traits.

For the project, a low-density SNP array for Marker Assisted Selection (MAS) is currently under development in cooperation with an external facility, that will perform the genotyping for the breeders selected in this Open Call. The genotyping costs will be covered by the BreedingValue consortium. The objective of this Open Call #1 is to share this easy-to-use tool with the selected external breeders to facilitate the selection of superior breeding material. In return, the results obtained by the breeders will allow the BreedingValue consortium to validate the low-density SNP array in larger genetic backgrounds.



#### Applications

30 September–31 December 2021,  
17:00 CET



#### Funding

3 projects à 20.000 €



#### Project duration

2022–2024



#### More infos

[www.breedingvalue.eu/opencalls](http://www.breedingvalue.eu/opencalls)



The BreedingValue project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101000747.

## Application, evaluation and project preparation timeline:



**30 September**  
Opening of  
Open Call #1

**31 December at  
17:00 (CET time)**  
Deadline for  
Submissions

**January–  
February 2022**  
Evaluation of  
applications

**March 2022**  
Set up of  
Contract

**April 2022**  
Project Start

### About BreedingValue

The BreedingValue project aims to address the current berry breeding challenges for strawberries, raspberries and blueberries brought on by climate change, environmental preservation and the need for new cultivation systems as well as high-quality produce. The project will identify and introduce superior germplasm for European berry breeding programmes, as a valuable source to develop cultivars ensuring high yield combined with high sensorial quality by sustainable production methods under different climatic environments.

[www.breedingvalue.eu](http://www.breedingvalue.eu)



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