



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



### OPEN CALL #3

#### Marker-Assisted Selection (MAS) and Genome wide association studies (GWAS) in Raspberry

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 more efficiently. In BreedingValue, we will identify molecular markers which can be useful to breeders across all raspberry breeding programmes for traits such as fruit size, softening, timings of fruit development stages, cane diseases or fungal diseases such as yellow rust.

The objective of the Open Call#3 is to offer breeders an opportunity to screen and select their genotypes of interest against a suite of markers, which can help breeders to better select parental material depending on the trait of interest. Genome wide association studies (GWAS) delves further into the genetic variants within screened markers across different individuals to determine if any of these variants are associated with a particular trait or disease such as yellow rust susceptibility.



#### Applications

31 March–30 June 2021,  
17:00 CET



#### Funding

2 projects à 20.000 €



#### Project duration

2021–2024



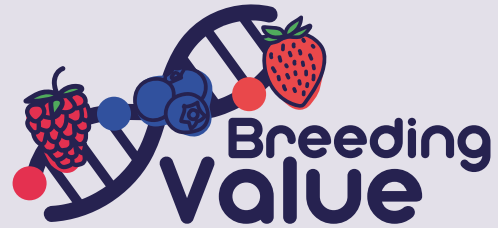
#### More infos

[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:



**31 March**  
Opening of  
Open Call #3

**30 June at  
17:00 (CET time)**  
Deadline for  
Submissions

**July–August**  
Evaluation of  
applications

**September**  
Set up of  
Contract

**October**  
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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