

D1.4 Defined new varieties for cultivation in specific EU areas and cultivation systems (strawberry, raspberry, blackberry, currant and blueberry) (P1, P2, P3, P5, P6). Month 40.

- Sub-Task 1.1.2 Assessment of pre-commercial material
- Additionally to the collation of existing data within the partnership, we hold substantial amounts of potentially useful genetic material: both advanced (elite) breeding lines and interspecific hybrids that represent a resource for future cultivar development, as well as new cultivars from non-EU sources. This material is utilised in identifying new, promising varieties with special characteristics suitable for fresh consumption, and for elite material for further breeding.

D1.4 Defined New Varieties













- **Defined new varieties for cultivation in specific EU areas and cultivation systems (strawberry, raspberry, blackberry, currant and blueberry) (P1, P2, P3, P5, P6). Month 40.**
- D1.4 Defined new varieties – it means best new germplasm for growers: new released varieties and advanced selections about to be released as new cvs. Please report new varieties, if you have, or at least few new advanced selections for all berries you have been involved. Report for each genotype the main traits for plant, flower and fruit quality
- Some of the genotypes you include for this deliverable can be also of interest for D1.2 Characterized germplasm
- **For D1.2 we intend the best germplasm for breeders (breeding Lines: cvs and selections)**
- **For D1.4 we intend the best germplasm for growers (new cultivars and advanced selections)**
- **D1.1. The exiting germplasm during the project.**
- **Data on fruit sensorial and nutritional quality can be can be then used also for deliverable 3.4 Characterization and quantification of germplasm quality**

D1.4 Defined New Varieties




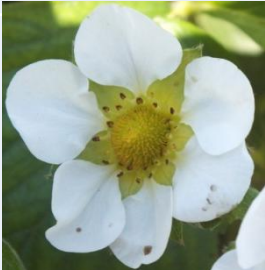





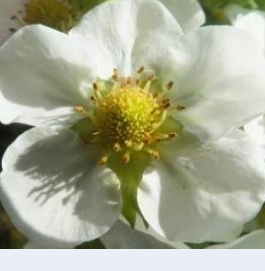

P1 UNIVPM-IT Strawberry

VARIETIES	Plant	Flowering	Fruit Sensorial	Fruit Nutritional	Picture
Cristina	High vigour, dense habit growth.	Very late	Very good taste	Medium rich in Vit. C.	  
Romina	Vigorous, erect habit growth.	Very early	Very good taste	High content in anthocyanins.	  
ADVANCED SELECTIONS					
AN06,164,52	Vigorous, high production, dense habit growth.	Medium late	Medium taste	Medium rich in Anthocyanins and Vit. C. Poor in TAC and Phenols.	
AN08,108,55	Medium vigorous	Medium	Good taste	Low content in TAC, Phenols and Vit.C. Medium rich in anthocyanins.	
AN08,113,53	Medium vigorous	Medium	Very good taste	High content in Vit. C, TAC and phenols. Poor in anthocyanins.	
AN05,032,55	Vigorous, chlorosis	Medium	Good taste	Medium high rich in TAC, Phenols and Anthocyanins, Poor in Vit. C	

D1.4 Defined New Varieties



P2 IO-PL Strawberry

VARIETIES	Plant	Flowering	Fruit Sensorial	Fruit Nutritional	Picture		
Grandarosa (T-03021-12)	Very vigorous, tolerant to low temperatures in the field	Medium early	Very good taste	Medium rich in vit. C, TAC and phenols, poor in anthocyanins			
Pink Rosa (T-04052-06)	Vigorous, medium tolerant to low temperatures in the field	Late	Good taste	Medium rich in vit. C, TAC and phenols, poor in anthocyanins			
Panvik (T-04048-01)	Vigorous, medium tolerant to low temperatures in the field	Late	Very good taste	Medium rich in vit. C, TAC and phenols, poor in anthocyanins			

D1.4 Defined New Varieties











P6 INRA-CIREF-FR Strawberry

VARIETIES	Plant	Flowering	Fruit Sensorial	Fruit Nutritional	Picture
Rubis des Jardins	Strong plant, excellent hardiness. For organic production	June bearer, medium maturity (Darselect)	Good taste and flavour	Average	
Lorette (CIR112)	Medium size. Powdery mildew tolerant	Everbearer	Excellent taste, high brix	High in vitamin C	
ADVANCED SELECTIONS					
CIR107	Vigorous plant, low chilling, good powdery mildew tolerance	June bearer, early maturity (Clery)	Average taste, good shelf life	High in total phenols	
CIR118	Strong plant, good powdery mildew tolerance, high yield	June bearer, medium maturity (Darselect)	Good taste, good shelf life	Average	
CIR121	Vigorous plant, low chilling, good powdery mildew tolerance	June bearer, early maturity (Gariguette)	Excellent taste, high brix	Average	
CIR104	Strong plant. Powdery mildew tolerant. High yield	Everbearer	Average taste, good shelf life	High in vitamin C and total phenols	

Varieties







P2 IO-PL Blackcurrant

VARIETIES	Plant	Flowering	Fruit Sensorial	Fruit Nutritional	Picture
Gofert (PC-1)	Very vigorous, semi-erect habit, winter hardy, resistant to fungal diseases	Early	Large fruit, good taste ,for fresh market and processing	rich in extract and vit. C, TAC , medium content of anthocyanins and acids	 
Polares (PC-7/13)	Small ,compact bush, erect habit, winter hardy, resistant to gall mite and powdery mildew	Late	Processing (fruit concentrat)	Medium content of extract, rich in vit. C, anthocyanins and acidy	 
Tihope (PC-425)	Very Vigorous, semi-erect habit, winter hardy, resistant to fungal diseases	Medium-early	Large fruit, pretty good taste , for fresh market and processing and freezing	Rich in extract, and vit. C, medium rich in anthocyanins and acids	 
ADVANCED SELECTIONS					
D 13B/11	Small bush, spreading habit, winter hardy, resistant to powdery mildew	Early	Very large fruit, dessert type, for fresh market	Rich in extract, medium rich in vit. C, anthocyanins and acids	 

Varieties



P2 IO-PL RASPBERRY

VARIETIES	Plant	Flowering	Fruit Sensorial	Fruit Nutritional	Picture
Polana	Vigorous	Primocane-fruiting variety	Very good taste	Medium rich in vit. C and Brix	
Polka	Vigorous	Primocane-fruiting variety	Very good taste	Medium rich in vit. C, rich in Brix	
Polesie	Very vigorous	Primocane-fruiting variety	Good taste	Rich in vit. C, medium rich in Brix	
ADVANCED SELECTIONS					
M-2009-02 (Polana x Polka)	Vigorous	Primocane-fruiting variety	Very good taste	Medium rich in vit. C and Brix	

D1.4 Defined New Varieties

P3 JHI-UK Raspberry

VARIETIES	Plant	Flowering	Fruit Sensorial	Fruit Nutritional	Picture
Glen Fyne	Floricanne				
Glen Ericht	Floricanne				
Glen Dee	Floricanne				
ADVANCED SELECTIONS					
0485K-1	Floricanne				
0019E2	Floricanne				

D1.4 Defined New Varieties











P3 JHI-UK Blackcurrant (fresh-market)

VARIETIES	Plant	Flowering	Fruit Sensorial	Fruit Nutritional	Picture
Big Ben		Early	Sweet	Moderate anthocyanins	
Ben Maia		Mid	Medium-sweet	Moderate anthocyanins	
Ben Hope		Mid	High flavour	Good anthocyanins	
Ben Finlay	Gall mite-resistant	Early	High flavour	High anthocyanins	
ADVANCED SELECTIONS JHI 9998-1		Mid-late			
JHI P8/5/24	Leaf-curling midge resistant	Early-mid		Moderate anthocyanins	

D1.4 Defined New Varieties



- P1 UNIVPM-IT Blueberries

VARIETIES	Plant	Flowering	Fruit Sensorial	Fruit Nutritional	Picture
BLUE RAY	Medium vigour	Medium	Good flavor and high sugar content	Medium high in TAC and phenols, medium content of ACY	
EARLY BLUE	Medium vigour	Medium early	Good flavor and medium sugar content	Medium rich in TAC, high value of Phenols and ACY	
NUI	Low vigour	Medium	Good flavor	Medium rich in TAC, high value of Phenols and ACY	
PATRIOT	Medium vigour	Medium late	Good flavor, low sugar content	Medium content in all nutritional parameters	
REKA	Medium vigour	Early	Good flavor	Medium content in TAC, phenols, low ACY	
COSMOPOLITAN	Low vigour	Medium late	Good flavor	Medium content in all nutritional parameters	
CIPRIA	Medium vigour	Early	Good flavor	Low content in TAC, Phenols and Anthocyanins	
HORTBLUE PETITE	Low vigour,	Very early	Acid taste	High content in TAC, phenols and ACY	

FOR THE FINAL REPORT

The state of database

The state of germplasm characterization

The state of new breeding lines

The state of new cultivars

What are the major output of the project.