

Supplementary Table S1. Information on the plant material (bud explants per treatment) used in 2017 experiments

Experiment	Location / Species	Transport/ Processing	Collection (Cryo) date	Genotypes	Fresh buds	Prep. date	Cryo buds	Prep. (thaw) date
Media experiment (Figure 3) Multiple hormone combinations with both MS and WPM (2016)	Punkaharju research park / <i>U. laevis</i>	Less than 10 min transport by car, storage as 1 m long branches in a bucket with water in cold storage room (+2 °C)	Fresh buds: Sept. 2016 For cryo Oct. 2016 (cryo date 25 Oct. 2016)	E11630	9-11	Sept. 12-Oct. 18	14	Nov. 1-2
				E11631	10	Sept. 12-Oct. 17	14	Nov. 2
				E11632	8-12	Sept. 13-Oct. 17	14	Nov. 2-7
				E11633	10	Sept. 16-Oct. 17	14	Nov. 7-8
				E11634	10	Sept. 20-Oct. 17	14	Nov. 9-10
Cryopreservation experiment (2017)	Gene reserve collections 205 and 232 in Paimio / Preitilä / <i>U. laevis</i> ,	Transferred by car in a cool box with cold blocks, with twigs (5-20 cm) placed in plastic bags with snow / moistened tissue paper, stored in cold room in -5 °C	24 Jan 2017 (cryo date 9 Feb. 2017)	0125 01	10	Feb. 13	11	Feb. 28
				0139 02	10	Feb. 22	10	Feb. 28
				0344 01	10	Feb. 14	10	Feb. 28
				0357 05	10	Feb. 10	11	Mar. 2
				0359 08	10	Feb. 10	11	Mar. 2
				0360 01	10	Feb. 15	12	Mar. 3
				0360 04	10	Feb. 9	11	Mar. 3
				0361 09	10	Feb. 15	12	Mar. 3
				0362 02	10	Feb. 13	12	Mar. 6
				0363 01	10	Feb. 13	12	Mar. 6
				0511 01	10	Feb. 13	11	Mar. 7
				0512 04	10	Feb. 14	10	Mar. 7
				0512 06	10	Feb. 13	11	Mar. 7
				0513 01	10	Feb. 15	11	Mar. 13
				0514 01	10	Feb. 10	10	Mar. 13
				0515 01	10	Feb. 9	12	Mar. 13
				0516 01	10	Feb. 15	14	Mar. 13
				0516 03	10	Feb. 14	11	Mar. 14
				0516 08	10	Feb. 14	10	Mar. 14
				0517 07	10	Feb. 10	10	Mar. 14
Reduced light intensity and DKW test (2017)	Punkaharju research park / <i>U. laevis</i>	Less than 10 min transfer by car, storage as branches (approx. 1 m long) in a bucket with snow in cold storage room (-5 °C)	27 Nov. 2017 (cryo date 5 Dec. 2017)	E11630	4	Nov. 28	10	Dec. 19
				E11631	4	Nov. 28	10	Dec. 19
				E11632	6	Nov. 28	10	Dec. 19
				E11633	5	Nov. 28	10	Dec. 19
				E11634	8	Nov. 28	11	Dec. 19

Supplementary Table S2. Information on the plant material used in 2020 experiments

Location / Species	Transport/ Processing	Collection (Cryo) date	Genotype	Buds used	Prep. date (2020)
Gene reserve collections 205 and 232 in Paimio / Preitilä / <i>U. laevis</i> ,	Transport by mail in a cool box with cold blocks, with twigs (5-20 cm) placed in plastic bags with snow / moistened tissue paper, stored in water bowls in cold room in +2 °C	Fresh buds, 10 Jan. 2020	0139 02	10	Jan. 21
			0328 04	10	Jan. 22
			0357 01	10	Jan. 22
			0359 08	10	Jan. 23
			0360 03	10	Jan. 22
			0361 09	10	Jan. 22
			0511 03	10	Jan. 21
			0514 08	10	Jan. 22
			0515 05	10	Jan. 23
			0517 07	10	Jan. 22
	Transport by mail in a cool box with cold blocks, with twigs (5-20 cm) placed in plastic bags with snow and moist tissue paper, stored in cold room (-5 °C)	24 Jan. 2017 (cryo date 9 Feb. 2017)	0139 02	12	Jan. 7
			0359 08	10	Jan. 7
			0361 09	10	Jan. 8
			0517 07	12	Jan. 8
		27 February 2019 (cryo date 14 Mar. 2019)	0328 04	10	Jan. 8
			0357 01	10	Jan. 8
			0360 03	10	Jan. 9
			0511 03	10	Jan. 9
			0514 08	10	Jan. 9
			0515 05	10	Jan. 9
Gene reserve collection 184 in Paimio / Preitilä / <i>U. glabra</i>	Transport by mail in a cool box with cold blocks, with twigs (5-20 cm) placed in plastic bags with snow / moistened tissue paper, stored in water bowls in cold room in +2 °C	Fresh buds: 10 Jan. 2020	0107 01	10	Jan. 21
			0210 07	10	Jan. 16
			0212 09	10	Jan. 21
			0213 03	10	Jan. 16
			0331 02	10	Jan. 16
	Transport by mail in a cool box with cold blocks, with twigs (5-20 cm) placed in plastic bags with snow and moist tissue paper, stored in cold room (-5 °C)	26 Feb. 2019 (cryo date 14 Mar. 2019)	0107 01	10	Jan. 9
			0210 07	10	Jan. 10
			0212 09	9	Jan. 9
			0213 03	10	Jan. 10
			0331 02	9	Jan. 10
Gene reserve collection 192 in Solböle / <i>U. glabra</i>	Transport by mail in a cool box with cold blocks, with twigs (5-20 cm) placed in plastic bags with snow / moistened tissue paper, stored in water bowls in cold room in +2 °C	Fresh buds: 9 January 2020	E3032	10	Jan. 16
			E3033	10	Jan. 15
			E3034	10	Jan. 15
			E3571	10	Jan. 15
			K421	10	Jan. 15
	Transport by mail in a cool box with cold blocks, with twigs (5-20 cm) placed in plastic bags with snow and moist tissue paper, stored in cold room (-5 °C)	1 Mar. 2019 (cryo date 14 Mar. 2019)	E3032	10	Jan. 10
			E3033	10	Jan. 10
			E3034	10	Jan. 10
			E3571	10	Jan. 10
			K421	10	Jan. 10

Supplementary Table S3. Information on the plant material used in 2021 experiments

Location / Species	Transport/ Processing	Collection (Cryo) date	Genotype	Buds used (EtOH sterilized)	Prep. (thaw) date	Buds used (H <sub>2</sub> O <sub>2</sub> sterilised )	Prep. (thaw) date
Paimio/ Preitilä 205 and 232 <i>U. laevis</i>	Transport by mail in a cool box with cold blocks, with twigs (5-20 cm) placed in plastic bags with snow and <b>moist</b> tissue paper, stored in cold room (-5 °C)	18 Jan. 2021 (cryo date 27 Jan. 2021)	0357 06	10	Feb. 10	11	Feb. 16
			0359 11	10	Feb. 10		
			0363 09	10	Feb. 9	10	Feb. 16
			0512 08	10	Feb. 9	10	Feb. 16
			0516 09	10	Feb. 10	10	Feb. 16
	Transport by mail in a cool box with cold blocks, with twigs (5-20 cm) placed in plastic bags with <b>dry</b> tissue paper, stored in cold room (-5 °C)	18 Jan. 2021 (cryo date 27 Jan. 2021)	0357 06	10	Feb. 10		
			0359 11	10	Feb. 10		
			0363 09	10	Feb. 9		
			0512 08	10	Feb. 9		
			0516 09	10	Feb. 10		
Preitilä/ Preitilä 184 <i>U. glabra</i>	Transport by mail in a cool box with cold blocks, with twigs (5-20 cm) placed in plastic bags with snow and <b>moist</b> tissue paper, stored in cold room (-5 °C)	18 Jan. 2021 (cryo date 27 Jan. 2021)	0106 02	9	Feb. 11	9	Feb. 17
			0107 01	10	Feb. 12		
			0109 04	8	Feb. 11	8	Feb. 17
			0207 07	10	Feb. 15		
			0210 07	10	Feb. 11	9	Feb. 17
			0212 09	6	Feb. 15	8	Feb. 17
	Transport by mail in a cool box with cold blocks, with twigs (5-20 cm) placed in plastic bags with <b>dry</b> tissue paper, stored in cold room (-5 °C)	18 Jan. 2021 (cryo date 27 Jan. 2021)	0213 03	10	Feb. 12		
			0106 02	7	Feb. 11		
			0107 01	8	Feb. 12		
			0109 04	8	Feb. 11		
			0207 07	10	Feb. 12		
			0210 07	10	Feb. 11		
			0212 09	7	Feb. 12		
			0213 03	9	Feb. 12		