

Table 1. Suppl. Plant species, temperature ranges, and brassinosteroids used in the experiments (d/n - day/night, MS - Murashige and Skoog medium).

Authors (year)	Plant species	Temperature and exposure	Brassinosteroid/ concentration/ application method
Janeczko <i>et al.</i> (2007)	<i>Brassica napus</i> (cv. Lycosmos) - primary leaves and cotyledons	2 °C - 4 d	24-epibrassinolide/0.05 and 1 µM/ injection into the apoplast of cotyledons or primary leaves, before low temperature treatment
Janeczko <i>et al.</i> (2009)	<i>B. napus</i> (cv. Górczański) - callus culture	5 °C - 2 weeks	24-epibrassinolide/ 100 nM/ culture medium
Liu <i>et al.</i> (2009)	<i>Chorispora bungeana</i> - cultured cells	4 °C - 5 d 0 °C - 5 d	24-epibrassinolide / 0.05 mg dm ⁻³ / transfer on liquid MS medium with hormone 3 d before low temperature treatment
Hu <i>et al.</i> (2010)	<i>Cucumis sativus</i> (cv. Jinyan No 4) - leaves	12/8 °C (d/n) - 3 d	24-epibrassinolide / 0.1 mg dm ⁻³ / foliar spraying before cold treatment
Farriduddin <i>et al.</i> (2011)	<i>C. sativus</i> (cv. Summer best) - leaves	8/10 °C - 18 h 3/5 °C - 18 h	28-homobrassinolide / 10 ⁻⁸ or 10 ⁻⁶ M/ foliar spraying 48 h before low temperature treatment (3 cm ³ plant ⁻¹)
Liu <i>et al.</i> (2011)	<i>Chorispora bungeana</i> - cultured cells	4 °C - 3 d 0 °C - 3 d	24-epibrassinolide / 0.1 µM/ transfer on liquid MS medium with hormone, before low temperature treatment
Qu <i>et al.</i> (2011)	<i>Arabidopsis thaliana</i> (Col-00 <i>bzr1-D</i> - BZR1 stabilized mutant	0 °C - 24 h	24-epibrassinolide / 1 µM/ incubation of the seedlings in solution before low temperature treatment
Aghdam <i>et al.</i> (2012)	<i>Solanum lycopersicum</i> (cv. Newton) - fruits	stored at 1 °C - 3 weeks	brassinolide / 3 and 6 µM/ immersing of the fruits in solution for 5 min before low temperature treatment
Li <i>et al.</i> (2012)	<i>Magnifera indica</i> (cv. Zill) - fruits	stored at 5 °C - 28 d	brassinolide / 10 µM/ immersing of the fruits in aqueous solution of brassinolide for 10 min; before low temperature treatment
Singh <i>et al.</i> (2012)	<i>Zea mays</i> (line LM-17) - leaves	net house: max. 17.6 - 24.5 °C min. 2.8 - 7.4 °C - 21 d	24-epibrassinolide/ 0.1 µM, 1 µM, and 10 µM/ foliar spray (10-d-old plants (10 cm ³ plant ⁻¹))
Wang <i>et al.</i> (2012)	<i>Capsicum annuum</i> (cv. Zhongjiao 7) - fruits	stored at 3 °C - 18 d	brassinolide/ 5, 10, and 15 µM/ immersing of the fruits in solution for 20 min before low temperature treatment
Jiang <i>et al.</i> (2013)	<i>Cucumis sativus</i> (cv. Jinchun No 4) - leaves	10/7 °C (d/n) - 6 d	24-epibrassinolide / 0.1 µM/ foliar spraying after 5 d of the low temperature treatment (5 cm ³ plant ⁻¹)
Wu <i>et al.</i> (2014a)	<i>Solanum melongena</i> - leaves	10/5 °C (d/n) - 8 d	24-epibrassinolide / 0, 0.5, 0.1, 0.2, and 0.4 µM/ foliar spray 1 d before the low temperature treatment
Cui <i>et al.</i> (2016)	<i>Lycopersicum esculentum</i> (cv. Zhongza9 and Zhongshu4) - leaves	3, 6, 9, 12 d at temperature 12/6 °C (d/n)	24-epibrassinolide / 0.1 µM/ foliar spray before the low temperature treatment (10 cm ³ plant ⁻¹)
Pociecha <i>et al.</i> (2017)	<i>L. perenne</i> (cv. Amarant and Flinston) - leaves	4 °C - 6 weeks	24-epibrassinolide / 0.25 mg dm ⁻³ / foliar spray before low temperature treatment
Pociecha <i>et al.</i> (2016)	<i>Secale cereale</i> - leaves	-14 °C - 6 h	24-epibrassinolide / 0.25 mg dm ⁻³ / foliar spray before cold acclimation
Wilén <i>et al.</i> (1991)	<i>Bromus inermis</i> - cultured cells	40 °C - 45 or 90 min 42.5 °C - 45 or 90min 45 °C - 45 min	24-epibrassinolide / 10 µM/ culture medium
Dhaubhadel <i>et al.</i> (1999)	<i>Brassica napus</i> (cv. Westar) and <i>Lycopersicon esculentum</i> (cv. Bonny Best) - leaves	45 °C - 4 h	24-epibrassinolide/ 1 µM/nutrient medium (<i>in vitro</i> cultures)
Singh <i>et al.</i> (2003)	<i>Lycopersicon esculentum</i> (cv. CLN 2026E and Suncherry extra) - pollen	35 °C - 4 h	24-epibrassinolide/ 1 µM/ inoculation with pollen before high temperature treatment
Bajguz (2009)	<i>Chlorella vulgaris</i> - cultured cells	30 °C - 3 h 35 °C - 3 h 40 °C - 3 h	brassinolide / 10 nM/ culture medium
Janeczko <i>et al.</i> (2011)	<i>Hordeum vulgare</i> (cv. Sezam) - leaves	42 °C - 3 h	24-epibrassinolide/ 0.005 and 0.25 mg dm ⁻³ / application directly to apoplast by leaf infiltration; 3 d before high temperature treatment
Mazorra <i>et al.</i> (2011)	<i>Lycopersicon esculentum</i> (wild type Ailsa Craig and Money-maker; brassinosteroid mutants <i>d^{rc}</i> , 35SD, and <i>curl3^{abv}</i>) - leaves	45 °C - 4 to 8 h	24-epibrassinolide / 1 µM/ MS medium, before high temperature treatment
Zhang <i>et al.</i> (2013)	<i>Cucumis melo</i> (cv. Honglvzaocui and Baiyuxiang) - leaves	42/32 °C (d/n) - 2 d	24-epibrassinolide/ 0.5, 1, and 1.5 mg dm ⁻³ / foliar spray before high temperature treatment (50 cm ³ plant ⁻¹)
Zhang <i>et al.</i> (2014)	<i>ucumis melo</i> (cv. Baiyuixiang) - leaves	42/32 °C (d/n) - 2 d	24-epibrassinolide/ 0, 0.05, 0.1, 0.5, 1, and 1.5 mg dm ⁻³ / foliar spray before high temperature treatment (200 cm ³ plant ⁻¹)
Wu <i>et al.</i> (2014b)	<i>Solanum melongena</i> (cv. Huquie 9) - leaves	43/38 °C (d/n) - 8 d	24-epibrassinolide/ 0.4, 0.2, 0.1, and 0.005 µM/ foliar spray during the high temperature treatment (50 cm ³ plant ⁻¹)

Thussagunpanit <i>et al.</i> (2015a)	<i>Oryza sativa</i> (cv. Pathum Thani 1) - leaves	40/30 °C (d/n) - 7 d	24-epibrassinolide/ 1 nM/ foliar spray 5 d before high temperature treatment (15 cm ³ plant ⁻¹)
Thussagunpanit <i>et al.</i> (2015b)	<i>Oryza sativa</i> (cv. Pathum Thani 1) - leaves	40/30 °C (d/n) - 7 d	24-epibrassinolide/ 10 ⁻⁸ M/ foliar spray, 1 week before high temperature treatment (10 cm ³ plant ⁻¹)
Fahad <i>et al.</i> (2016)	<i>Oryza sativa</i> (cv. IR-64 and Huanghuazhan) - leaves	35/32 °C (d/n) - 12/12 h	Mixture of hormones containing brassinosteroid /4 mg dm ⁻³ / foliar spray before high temperature treatment, combination with other hormones
