

Supplementary Table S2. Effect of studied stimulants applied at the beginning of flowering (I term) or at full flowering stage (II term) on volume of nectar in flowers of buckwheat PA16 plants [ $\mu\text{l}/50$  flowers], nectar weight [ $\text{mg}/50$  flowers], glycerol content, total sugars [ $\text{mg cm}^{-3}$ ] and the percentage share of individual sugars in the total pool of soluble carbohydrates [%]. Means ( $n=3$ ) for each parameter within each term marked with the same letter do not differ significantly (multiple Duncan's test;  $p<0.05$ ).

Stimulant	Volume of nectar [μl/50 flowers]	Mass of nectar [mg/50 flowers]	Glycerol [g cm <sup>-3</sup> ]	Percentage content of individual sugars [%]				Total sum of sugars [mg cm <sup>-3</sup> ]
				Glucose	Fructose	Sucrose	Fructans	
I term								
Control	63.1 a	65.1 a	1.23 b	6.80 a	8.61a	0.70 b	3.11 a	20.06 a
NAA	63.6 a	65.3 a	1.27 b	4.76 c	6.39 b	0.30 e	3.54 a	15.81 d
BAP	40.2 c	41.5 d	1.20 b	5.11bc	7.12 ab	0.16 f	3.04 a	16.24 cd
NaCl	50.5 b	52.0 b	1.22 b	5.31 b	6.91 ab	0.59 c	3.44 a	17.05 c
ASAHI SL	53.9 b	55.2 bc	1.27 b	6.04 a	7.89 a	0.86 a	2.67 b	18.25 bc
Cysteine	47.4 bc	47.9 cd	1.29 b	7.25 a	8.91 a	0.52 c	3.73 a	21.08 a
TYTANIT	57.5 ab	59.5 a	1.42 a	5.73 bc	7.48 a	0.51 c	3.00 a	17.48 c
GA <sub>3</sub>	50.9 b	52.1 b	1.48 a	5.89 bc	8.04 a	0.41d	3.21 a	18.40 bc
Putrescine	67.1 a	69.3 a	1.36 ab	4.56 c	6.16 b	0.13 f	3.74 a	15.37 d
II term								
Control	54.3 ab	55.9 ab	1.25 b	5.95 b	7.60 a	1.95 b	2.13 a	18.44 b
NAA	62.4 a	64.3 a	1.22 b	6.48 a	8.29 a	1.53 b	2.84 a	19.92 a
BAP	51.7 ab	51.9 bc	1.23 b	6.32 ab	7.26 a	1.50 b	2.11 a	18.02 b
NaCl	45.3 b	46.5 c	1.16 bc	5.21 b	6.62 b	1.55 b	2.27 a	16.55 cd
ASAHI SL	44.9 b	46.0 c	1.46 a	6.45 a	7.86 a	1.14 c	2.90 a	19.28 ab
Cysteine	59.6 a	60.7 a	1.22 b	6.19 ab	7.51 a	2.70 a	2.59 a	19.86 ab
TYTANIT	51.7 ab	52.6 b	1.09 c	6.56 a	8.03 a	1.30 b	1.75 b	18.53 b
GA <sub>3</sub>	54.0 ab	54.7 ab	1.21 b	7.07 a	8.03 a	2.40 a	2.39 a	20.82 a
Putrescine	62.5 a	63.2 a	1.10 bc	4.07 c	5.41 c	0.80 d	2.44 a	13.61 e

BAP – 6-benzylaminopurine; NAA – 1-naphthaleneacetic acid; cysteine, GA<sub>3</sub> – gibberellic acid, NaCl – sodium chloride), ASAHI SL and TYTANIT – commercial preperates. Data marked with green colour show positive effect of stimulant comparing to control value separative for each control.