

Timing-Dependent Effects of Salicylic Acid Treatment on Phytohormonal Changes, ROS Regulation, and Antioxidant Defense in Salinized Barley (*Hordeum vulgare* L.)

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Supplementary Table S1

Effects of pre- and co-treatment with salicylic acid (SA) on growth parameters (shoot length (L; cm), shoot fresh weight (FW; g) and dry weight (DW; g)) of *Hordeum vulgare* L. cultivars grown under control (C) and saline (150 and 300 mM NaCl) conditions. Values are means \pm SE ($n = 7$). Asterisks denote significant differences from controls ($P < 0.05$).

	C	150	300	pSAC	pSA150	pSA300	cSAC	cSA150	cSA300
Akhisar									
L	48.0 \pm 0.5	35.7 \pm 5.1*	35.5 \pm 1.6*	47.0 \pm 4.7	38.8 \pm 3.3*	40.8 \pm 4.4*	47.7 \pm 1.1	41.7 \pm 2.3*	41.3 \pm 1.2*
FW	2.33 \pm 0.22	1.17 \pm 0.41*	0.93 \pm 0.24*	1.73 \pm 0.50*	1.48 \pm 0.23*	1.32 \pm 0.25*	1.93 \pm 0.18	1.40 \pm 0.25*	1.40 \pm 0.01*
DW	0.27 \pm 0.06	0.15 \pm 0.05*	0.14 \pm 0.04*	0.17 \pm 0.04*	0.23 \pm 0.01	0.19 \pm 0.04*	0.20 \pm 0.05	0.31 \pm 0.10	0.33 \pm 0.03
Erginel									
L	43.8 \pm 1.52	37.9 \pm 1.01*	34.9 \pm 3.96*	45.3 \pm 1.88	41.4 \pm 1.91	37.8 \pm 4.68*	47.6 \pm 1.56*	40.3 \pm 3.25	32.3 \pm 0.07*
FW	3.00 \pm 0.11	1.26 \pm 0.16*	1.41 \pm 0.17*	3.67 \pm 0.34*	2.13 \pm 0.08*	1.77 \pm 0.63*	2.90 \pm 0.83	2.15 \pm 0.52	1.80 \pm 0.26
DW	0.36 \pm 0.01	0.17 \pm 0.02*	0.17 \pm 0.05*	0.45 \pm 0.05*	0.29 \pm 0.01*	0.34 \pm 0.13	0.52 \pm 0.21*	0.36 \pm 0.12	0.44 \pm 0.02
Kalaycı									
L	44.8 \pm 1.84	38.5 \pm 1.15*	43.0 \pm 0.65	44.2 \pm 0.74	44.8 \pm 3.75	41.6 \pm 4.10*	45.3 \pm 1.25	45.5 \pm 0.21	42.7 \pm 1.62*
FW	3.33 \pm 0.22	2.13 \pm 0.59*	1.93 \pm 0.16*	2.15 \pm 0.74*	2.18 \pm 0.41*	2.09 \pm 0.22*	2.64 \pm 0.74*	2.06 \pm 0.09*	2.14 \pm 0.27*
DW	0.52 \pm 0.04	0.39 \pm 0.14*	0.31 \pm 0.04*	0.19 \pm 0.02*	0.40 \pm 0.13*	0.29 \pm 0.06*	0.29 \pm 0.08*	0.25 \pm 0.03*	0.42 \pm 0.07*

Supplementary Table S2

Effect of pre- and co-treatment with salicylic acid (SA) on endogenous cytokinin (CK) levels of *Hordeum vulgare* L. cultivars under control (C) and saline (150 mM and 300 mM NaCl) conditions. Values are means \pm SE ($n = 7$). Asterisks denote significant differences from controls ($P < 0.05$).

Cytokinin type	Endogenous cytokinin content (pmol g ⁻¹ FW)								
	C	150	300	pSAC	pSA150	pSA300	cSAC	cSA150	cSA300
Akhisar									
Total CK Bases	3.57 \pm 0.22	3.02 \pm 0.25*	2.34 \pm 0.81*	4.09 \pm 0.53	2.41 \pm 0.15	1.93 \pm 0.41	3.50 \pm 0.56	1.96 \pm 0.02	1.65 \pm 0.41
Total CK Ribosides	3.28 \pm 0.41	5.40 \pm 0.16*	7.97 \pm 2.05*	6.89 \pm 1.81*	3.52 \pm 0.07	5.03 \pm 0.63	8.60 \pm 1.81*	3.01 \pm 0.37	3.42 \pm 0.64
Total CK Nucleotides	2.55 \pm 0.54	0.65 \pm 0.00*	1.75 \pm 0.20*	2.03 \pm 0.26*	0.99 \pm 0.01	1.43 \pm 0.10	1.02 \pm 0.07*	1.03 \pm 0.05	2.27 \pm 0.34
Total CK <i>O</i> -glucosides	50.68 \pm 1.82	45.18 \pm 3.90	39.77 \pm 1.27*	38.32 \pm 0.80*	42.19 \pm 1.90	57.57 \pm 6.87	49.55 \pm 3.73	49.44 \pm 1.69	61.25 \pm 4.70
Total CK 9-glucosides	6.75 \pm 0.14	3.05 \pm 0.21*	2.54 \pm 0.07*	5.12 \pm 0.15*	3.64 \pm 0.11	2.98 \pm 0.09	2.26 \pm 0.08	3.66 \pm 0.08	2.93 \pm 0.18
Total CK	66.83 \pm 1.77	57.29 \pm 4.02*	54.37 \pm 4.40*	56.44 \pm 1.95*	52.75 \pm 1.72*	68.94 \pm 5.85	64.93 \pm 1.38	59.10 \pm 1.95*	71.52 \pm 4.30
Erginel									
Total CK Bases	8.99 \pm 1.87	22.14 \pm 0.16*	9.15 \pm 0.47	7.51 \pm 0.15*	7.63 \pm 0.47	12.71 \pm 0.70	7.86 \pm 0.36	17.02 \pm 1.23	12.04 \pm 0.21
Total CK Ribosides	31.68 \pm 6.46	68.75 \pm 2.53*	33.12 \pm 3.16	36.76 \pm 2.48	31.27 \pm 1.09	57.26 \pm 0.88	35.55 \pm 1.72	95.49 \pm 5.85	50.35 \pm 3.09
Total CK Nucleotides	2.96 \pm 0.06	1.34 \pm 0.02*	2.34 \pm 0.16*	2.06 \pm 0.56*	1.37 \pm 0.08	2.13 \pm 0.41	2.08 \pm 0.14	3.19 \pm 0.21	1.85 \pm 0.45
Total CK <i>O</i> -glucosides	65.49 \pm 2.16	39.04 \pm 0.86*	53.04 \pm 1.33*	51.19 \pm 1.53*	44.96 \pm 0.04	56.19 \pm 4.43	44.39 \pm 1.51	55.49 \pm 1.40	61.31 \pm 1.38
Total CK 9-glucosides	6.90 \pm 0.10	6.95 \pm 0.14	3.41 \pm 0.07*	4.57 \pm 0.06*	5.44 \pm 0.09	6.04 \pm 0.12	7.16 \pm 0.42	4.81 \pm 0.04	4.89 \pm 0.32
Total CK	116.0 \pm 6.1	138.2 \pm 1.7*	101.1 \pm 5.1*	102.1 \pm 3.7*	90.7 \pm 1.5*	134.3 \pm 4.5*	97.0 \pm 0.3*	176.0 \pm 8.7*	130.4 \pm 4.6*
Kalaycı									
Total CK Bases	2.36 \pm 0.00	5.21 \pm 1.64*	2.85 \pm 0.02*	2.81 \pm 0.00*	5.77 \pm 0.83	9.80 \pm 2.07	5.99 \pm 0.26	4.12 \pm 0.62	4.42 \pm 0.38
Total CK Ribosides	1.74 \pm 0.24	13.58 \pm 4.28*	14.06 \pm 1.62*	9.40 \pm 1.30*	21.45 \pm 4.11	28.04 \pm 7.87	16.66 \pm 1.21	7.56 \pm 1.10	10.48 \pm 1.76
Total CK Nucleotides	0.70 \pm 0.05	2.13 \pm 0.18*	3.58 \pm 0.58*	2.66 \pm 0.20*	2.51 \pm 0.15	7.64 \pm 0.40	2.61 \pm 0.44	0.95 \pm 0.06	1.63 \pm 0.31
Total CK <i>O</i> -glucosides	44.99 \pm 1.93	46.72 \pm 1.54	64.37 \pm 4.58*	59.08 \pm 5.18*	45.69 \pm 0.26	75.62 \pm 0.17	57.43 \pm 4.03	48.12 \pm 0.95	65.23 \pm 0.09
Total CK 9-glucosides	6.80 \pm 0.06	9.16 \pm 0.11*	7.51 \pm 0.17*	4.99 \pm 0.03*	6.17 \pm 0.17	6.45 \pm 0.16	4.48 \pm 0.04	5.52 \pm 0.15	4.47 \pm 0.02
Total CK	56.60 \pm 2.29	76.79 \pm 4.67*	92.38 \pm 6.97*	78.94 \pm 6.72*	81.59 \pm 4.99*	127.5 \pm 9.5*	87.18 \pm 5.98*	66.27 \pm 0.67*	86.24 \pm 2.52*

Supplementary Table S3

Effects of pre- and co-treatment with salicylic acid (SA) on endogenous cytokinin levels of *Hordeum vulgare* L. ‘Akhisar’ leaves grown under control (C) and saline (150 and 300 mM NaCl) conditions. Values are means \pm SE ($n = 7$).

Cytokinin type	Endogenous cytokinin content (pmol g ⁻¹ FW)								
	C	150	300	pSAC	pSA150	pSA300	cSAC	cSA150	cSA300
<i>tZ</i>	2.61 \pm 0.04	1.28 \pm 0.25	0.81 \pm 0.00	1.80 \pm 0.09	1.32 \pm 0.01	0.71 \pm 0.00	0.87 \pm 0.18	1.12 \pm 0.11	0.82 \pm 0.00
<i>tZR</i>	0.44 \pm 0.00	0.14 \pm 0.01	0.11 \pm 0.02	0.39 \pm 0.05	0.22 \pm 0.02	0.09 \pm 0.00	0.06 \pm 0.01	0.21 \pm 0.02	0.05 \pm 0.00
<i>tZ9G</i>	6.37 \pm 0.11	2.51 \pm 0.04	2.10 \pm 0.00	4.54 \pm 0.09	2.98 \pm 0.08	2.37 \pm 0.08	1.87 \pm 0.05	3.08 \pm 0.16	2.47 \pm 0.21
<i>tZOG</i>	0.99 \pm 0.04	0.30 \pm 0.08	0.18 \pm 0.04	0.34 \pm 0.01	0.18 \pm 0.00	0.20 \pm 0.05	0.15 \pm 0.01	0.34 \pm 0.02	0.18 \pm 0.02
<i>tZROG</i>	0.53 \pm 0.01	0.11 \pm 0.04	<LOD	0.98 \pm 0.20	0.29 \pm 0.09	0.28 \pm 0.05	<LOD	0.40 \pm 0.02	0.39 \pm 0.05
<i>tZR'5MP</i>	0.43 \pm 0.08	0.11 \pm 0.00	0.16 \pm 0.03	0.69 \pm 0.12	0.24 \pm 0.01	<LOD	0.21 \pm 0.00	0.45 \pm 0.01	0.23 \pm 0.01
Total <i>tZ</i>	11.37 \pm 0.05	4.40 \pm 0.24	2.95 \pm 0.31	8.74 \pm 0.37	5.23 \pm 0.02	3.29 \pm 0.43	3.06 \pm 0.02	5.60 \pm 0.24	3.73 \pm 0.68
<i>cZ</i>	0.76 \pm 0.17	1.52 \pm 0.03	1.81 \pm 0.38	1.96 \pm 0.61	0.91 \pm 0.15	1.42 \pm 0.08	2.47 \pm 0.34	0.63 \pm 0.12	1.07 \pm 0.01
<i>cZR</i>	1.11 \pm 0.23	3.37 \pm 0.14	5.52 \pm 1.47	4.22 \pm 1.46	1.51 \pm 0.03	3.11 \pm 0.04	5.81 \pm 1.48	1.72 \pm 0.44	2.59 \pm 0.43
<i>cZ9G</i>	0.08 \pm 0.00	0.05 \pm 0.00	0.05 \pm 0.00	0.08 \pm 0.01	0.06 \pm 0.00	0.07 \pm 0.01	0.04 \pm 0.00	0.06 \pm 0.01	0.06 \pm 0.00
<i>cZOG</i>	46.36 \pm 1.49	39.51 \pm 3.67	31.82 \pm 0.89	33.64 \pm 0.89	38.15 \pm 1.56	48.42 \pm 6.32	45.27 \pm 3.91	44.74 \pm 1.69	49.20 \pm 3.93
<i>cZROG</i>	2.80 \pm 0.28	5.25 \pm 0.20	7.77 \pm 0.42	3.36 \pm 0.11	3.57 \pm 0.24	8.67 \pm 0.56	4.12 \pm 0.19	3.96 \pm 0.00	11.48 \pm 0.71
<i>cZR'5MP</i>	1.96 \pm 0.65	0.51 \pm 0.04	1.48 \pm 0.19	1.14 \pm 0.15	0.65 \pm 0.03	1.32 \pm 0.10	0.89 \pm 0.16	0.47 \pm 0.05	1.89 \pm 0.32
Total <i>cZ</i>	53.07 \pm 1.53	50.22 \pm 3.73	48.44 \pm 3.34	44.39 \pm 1.22	44.85 \pm 1.70	63.02 \pm 6.85	58.60 \pm 1.74	51.59 \pm 2.21	66.28 \pm 3.88
<i>iP</i>	0.20 \pm 0.01	0.22 \pm 0.04	0.13 \pm 0.03	0.34 \pm 0.02	0.18 \pm 0.01	0.16 \pm 0.02	0.16 \pm 0.04	0.20 \pm 0.01	0.17 \pm 0.00
<i>iPR</i>	1.74 \pm 0.18	1.89 \pm 0.31	2.34 \pm 0.60	2.28 \pm 0.30	1.78 \pm 0.07	1.83 \pm 0.59	2.73 \pm 0.32	1.08 \pm 0.09	0.78 \pm 0.21
<i>iP9G</i>	0.29 \pm 0.03	0.49 \pm 0.16	0.39 \pm 0.08	0.50 \pm 0.05	0.61 \pm 0.03	0.54 \pm 0.00	0.35 \pm 0.03	0.52 \pm 0.07	0.40 \pm 0.03
<i>iPR'5MP</i>	0.16 \pm 0.02	0.08 \pm 0.02	0.12 \pm 0.04	0.20 \pm 0.02	0.11 \pm 0.03	0.11 \pm 0.00	0.03 \pm 0.01	0.10 \pm 0.02	0.15 \pm 0.03
Total <i>iP</i>	2.39 \pm 0.19	2.67 \pm 0.53	2.98 \pm 0.74	3.31 \pm 0.35	2.68 \pm 0.00	2.63 \pm 0.57	3.27 \pm 0.34	1.91 \pm 0.02	1.50 \pm 0.26

Below the limit of detection (< LOD), *trans*-Zeatin (*tZ*), *trans*-Zeatin riboside (*tZR*), *trans*-Zeatin-9-glucoside (*tZ9G*), *trans*-Zeatin-*O*-glucoside (*tZOG*), *trans*-zeatin-*O*-glucoside riboside (*tZROG*), *trans*-Zeatin-9-riboside-5'-monophosphate (*tZR5'MP*), *cis*-Zeatin (*cZ*), *cis*-zeatin riboside (*cZR*), *cis*-Zeatin-9-glucoside (*cZ9G*), *cis*-Zeatin-*O*-glucoside (*cZOG*), *cis*-Zeatin-*O*-glucoside riboside (*cZROG*), *cis*-Zeatin-9-riboside-5'-monophosphate (*cZR5'MP*), *N*⁶-isopentenyladenine (*iP*), *N*⁶-isopentenyladenosine (*iPR*), *N*⁶-isopentenyladenine-9-glucose (*iP9G*) and *N*⁶-isopentenyladenosine-5'-monophosphate (*iPR5'MP*).

Supplementary Table S4

Effects of pre- and co-treatment with salicylic acid (SA) on endogenous cytokinin levels of *Hordeum vulgare* L. ‘Erginel’ leaves grown under control (C) and saline (150 and 300 mM NaCl) conditions. Values are means \pm SE ($n = 7$).

Cytokinin type	Endogenous cytokinin content (pmol g ⁻¹ FW)								
	C	150	300	pSAC	pSA150	pSA300	cSAC	cSA150	cSA300
<i>tZ</i>	0.80 \pm 0.01	1.53 \pm 0.17	0.87 \pm 0.01	0.65 \pm 0.05	0.77 \pm 0.01	0.95 \pm 0.00	0.10 \pm 0.08	1.46 \pm 0.25	<LOD
<i>tZR</i>	0.20 \pm 0.02	0.29 \pm 0.00	0.22 \pm 0.00	0.11 \pm 0.00	0.15 \pm 0.02	0.17 \pm 0.02	0.16 \pm 0.03	0.21 \pm 0.00	0.24 \pm 0.02
<i>tZ9G</i>	6.60 \pm 0.11	6.69 \pm 0.10	3.10 \pm 0.11	4.28 \pm 0.02	5.05 \pm 0.17	5.85 \pm 0.16	6.64 \pm 0.35	4.07 \pm 0.11	4.52 \pm 0.35
<i>tZOG</i>	0.92 \pm 0.15	0.41 \pm 0.04	0.23 \pm 0.00	0.35 \pm 0.00	0.50 \pm 0.02	0.41 \pm 0.12	0.64 \pm 0.06	0.43 \pm 0.01	0.38 \pm 0.05
<i>tZROG</i>	1.05 \pm 0.05	0.80 \pm 0.10	<LOD	<LOD	0.37 \pm 0.07	0.32 \pm 0.01	0.31 \pm 0.04	0.95 \pm 0.27	0.40 \pm 0.01
<i>tZR'5MP</i>	0.38 \pm 0.03	<LOD	0.15 \pm 0.00	0.14 \pm 0.00	0.19 \pm 0.04	0.21 \pm 0.07	0.18 \pm 0.00	0.53 \pm 0.08	0.32 \pm 0.06
Total <i>tZ</i>	9.95 \pm 0.14	9.72 \pm 0.40	4.50 \pm 0.02	5.45 \pm 0.10	7.05 \pm 0.10	7.43 \pm 0.50	8.93 \pm 0.22	7.66 \pm 0.33	5.86 \pm 0.35
<i>cZ</i>	7.85 \pm 1.79	20.19 \pm 0.31	8.07 \pm 0.45	6.60 \pm 0.19	6.57 \pm 0.44	11.93 \pm 0.25	6.52 \pm 0.41	14.83 \pm 0.95	11.72 \pm 0.21
<i>cZR</i>	23.42 \pm 4.65	46.19 \pm 2.04	25.49 \pm 2.02	24.15 \pm 0.72	23.60 \pm 0.62	39.20 \pm 0.40	25.55 \pm 1.15	55.02 \pm 0.97	33.82 \pm 2.13
<i>cZ9G</i>	0.06 \pm 0.00	0.04 \pm 0.00	0.03 \pm 0.01	0.04 \pm 0.01	0.05 \pm 0.01	0.06 \pm 0.01	0.04 \pm 0.00	0.07 \pm 0.01	0.07 \pm 0.00
<i>cZOG</i>	56.09 \pm 1.70	30.86 \pm 0.86	43.90 \pm 0.89	42.86 \pm 1.29	37.16 \pm 0.09	45.74 \pm 4.24	36.86 \pm 1.16	42.22 \pm 1.10	48.49 \pm 1.82
<i>cZROG</i>	7.42 \pm 0.36	6.97 \pm 0.14	8.92 \pm 0.44	7.98 \pm 0.24	6.92 \pm 0.04	9.73 \pm 0.04	6.58 \pm 0.44	11.89 \pm 0.03	12.05 \pm 0.48
<i>cZR'5MP</i>	2.43 \pm 0.01	1.18 \pm 0.04	2.05 \pm 0.06	1.88 \pm 0.46	1.06 \pm 0.10	1.86 \pm 0.28	1.92 \pm 0.03	2.47 \pm 0.29	1.35 \pm 0.33
Total <i>cZ</i>	97.28 \pm 4.37	105.42 \pm 1.58	88.45 \pm 3.87	83.53 \pm 1.97	75.36 \pm 1.02	108.50 \pm 4.40	77.47 \pm 0.01	126.49 \pm 3.33	107.50 \pm 3.35
<i>iP</i>	0.33 \pm 0.08	0.42 \pm 0.01	0.21 \pm 0.01	0.26 \pm 0.01	0.29 \pm 0.02	0.31 \pm 0.02	0.25 \pm 0.03	0.74 \pm 0.03	0.32 \pm 0.01
<i>iPR</i>	8.05 \pm 1.79	22.27 \pm 0.49	7.41 \pm 1.13	12.49 \pm 1.76	7.53 \pm 0.45	17.90 \pm 0.47	9.84 \pm 0.54	40.25 \pm 4.88	16.28 \pm 0.94
<i>iP9G</i>	0.24 \pm 0.00	0.23 \pm 0.04	0.27 \pm 0.03	0.25 \pm 0.05	0.34 \pm 0.09	0.13 \pm 0.04	0.48 \pm 0.07	0.68 \pm 0.16	0.30 \pm 0.03
<i>iPR'5MP</i>	0.15 \pm 0.03	0.16 \pm 0.02	0.22 \pm 0.03	0.11 \pm 0.03	0.12 \pm 0.03	0.13 \pm 0.00	0.08 \pm 0.02	0.19 \pm 0.00	0.18 \pm 0.06
Total <i>iP</i>	8.78 \pm 1.90	23.08 \pm 0.49	8.11 \pm 1.20	13.12 \pm 1.80	8.27 \pm 0.59	18.40 \pm 0.37	10.64 \pm 0.52	41.86 \pm 5.06	17.08 \pm 0.86

Below the limit of detection (< LOD), *trans*-Zeatin (*tZ*), *trans*-Zeatin riboside (*tZR*), *trans*-Zeatin-9-glucoside (*tZ9G*), *trans*-Zeatin-*O*-glucoside (*tZOG*), *trans*-zeatin-*O*-glucoside riboside (*tZROG*), *trans*-Zeatin-9-riboside-5'-monophosphate (*tZR5'MP*), *cis*-Zeatin (*cZ*), *cis*-zeatin riboside (*cZR*), *cis*-Zeatin-9-glucoside (*cZ9G*), *cis*-Zeatin-*O*-glucoside (*cZOG*), *cis*-Zeatin-*O*-glucoside riboside (*cZROG*), *cis*-Zeatin-9-riboside-5'-monophosphate (*cZR5'MP*), *N*⁶-isopentenyladenine (*iP*), *N*⁶-isopentenyladenosine (*iPR*), *N*⁶-isopentenyladenine-9-glucose (*iP9G*) and *N*⁶-isopentenyladenosine-5'-monophosphate (*iPR5'MP*).

Supplementary Table S5

Effects of pre- and co-treatment with salicylic acid (SA) on endogenous cytokinin levels of *Hordeum vulgare* L. ‘Kalaycı’ leaves grown under control (C) and saline (150 and 300 mM NaCl) conditions. Values are means \pm SE ($n = 7$).

Cytokinin type	Endogenous cytokinin content (pmol g ⁻¹ FW)								
	C	150	300	pSAC	pSA150	pSA300	cSAC	cSA150	cSA300
<i>tZ</i>	1.76 \pm 0.09	1.77 \pm 0.54	0.69 \pm 0.00	0.55 \pm 0.02	1.24 \pm 0.16	0.88 \pm 0.12	1.15 \pm 0.17	1.10 \pm 0.00	0.71 \pm 0.00
<i>tZR</i>	0.25 \pm 0.02	0.61 \pm 0.08	0.22 \pm 0.02	0.12 \pm 0.03	0.32 \pm 0.03	0.29 \pm 0.00	0.32 \pm 0.01	0.26 \pm 0.06	0.15 \pm 0.04
<i>tZ9G</i>	6.36 \pm 0.07	8.31 \pm 0.12	6.98 \pm 0.04	4.52 \pm 0.03	5.67 \pm 0.02	6.02 \pm 0.04	3.93 \pm 0.11	5.14 \pm 0.04	4.13 \pm 0.02
<i>tZOG</i>	0.66 \pm 0.02	0.99 \pm 0.01	0.63 \pm 0.04	0.45 \pm 0.09	0.50 \pm 0.02	0.78 \pm 0.06	0.68 \pm 0.00	0.58 \pm 0.04	0.38 \pm 0.03
<i>tZROG</i>	0.26 \pm 0.06	1.09 \pm 0.15	0.69 \pm 0.06	0.34 \pm 0.08	0.26 \pm 0.00	1.05 \pm 0.26	0.52 \pm 0.04	<LOD	<LOD
<i>tZR'5MP</i>	0.30 \pm 0.20	0.73 \pm 0.09	0.38 \pm 0.00	0.20 \pm 0.02	<LOD	0.78 \pm 0.10	0.32 \pm 0.00	0.74 \pm 0.03	<LOD
Total <i>tZ</i>	9.59 \pm 0.08	13.50 \pm 0.78	9.25 \pm 0.20	6.19 \pm 0.08	7.99 \pm 0.020	9.80 \pm 0.49	6.75 \pm 0.05	7.83 \pm 0.08	5.01 \pm 0.37
<i>cZ</i>	0.46 \pm 0.11	3.08 \pm 0.99	2.30 \pm 0.34	2.10 \pm 0.02	4.35 \pm 0.66	8.60 \pm 2.17	4.59 \pm 0.42	2.83 \pm 0.62	3.88 \pm 0.70
<i>cZR</i>	0.77 \pm 0.25	8.40 \pm 3.15	8.01 \pm 2.01	5.71 \pm 0.78	13.96 \pm 2.71	18.56 \pm 4.69	11.24 \pm 1.10	5.31 \pm 0.86	7.70 \pm 1.07
<i>cZ9G</i>	0.04 \pm 0.00	0.06 \pm 0.00	0.05 \pm 0.00	0.03 \pm 0.01	0.03 \pm 0.00	0.08 \pm 0.01	0.04 \pm 0.01	0.02 \pm 0.00	0.04 \pm 0.00
<i>cZOG</i>	40.38 \pm 2.09	39.85 \pm 1.93	50.50 \pm 3.13	51.86 \pm 6.17	38.99 \pm 0.71	65.40 \pm 0.05	50.55 \pm 3.90	42.65 \pm 1.43	55.75 \pm 0.64
<i>cZROG</i>	3.70 \pm 0.08	4.79 \pm 0.27	12.55 \pm 1.35	6.43 \pm 1.01	5.94 \pm 0.46	8.38 \pm 0.10	5.69 \pm 0.17	4.89 \pm 0.44	9.10 \pm 0.52
<i>cZR'5MP</i>	0.30 \pm 0.11	1.26 \pm 0.28	2.91 \pm 0.60	2.26 \pm 0.22	2.28 \pm 0.10	6.20 \pm 0.44	2.31 \pm 0.28	0.21 \pm 0.03	1.57 \pm 0.37
Total <i>cZ</i>	45.65 \pm 2.26	57.45 \pm 2.76	76.31 \pm 7.45	68.38 \pm 6.14	65.55 \pm 3.22	107.21 \pm 6.57	74.42 \pm 5.85	55.92 \pm 0.52	87.03 \pm 2.26
<i>iP</i>	0.14 \pm 0.02	0.36 \pm 0.10	0.20 \pm 0.02	0.16 \pm 0.04	0.18 \pm 0.01	0.32 \pm 0.02	0.25 \pm 0.01	0.18 \pm 0.00	0.19 \pm 0.03
<i>iPR</i>	0.72 \pm 0.01	4.57 \pm 1.05	5.83 \pm 0.40	3.57 \pm 0.56	7.17 \pm 1.37	9.18 \pm 3.17	5.10 \pm 0.12	1.99 \pm 0.18	2.63 \pm 0.66
<i>iP9G</i>	0.40 \pm 0.01	0.79 \pm 0.01	0.48 \pm 0.13	0.44 \pm 0.07	0.47 \pm 0.15	0.35 \pm 0.12	0.51 \pm 0.06	0.36 \pm 0.10	0.31 \pm 0.01
<i>iPR'5MP</i>	0.10 \pm 0.03	0.13 \pm 0.01	0.30 \pm 0.03	0.19 \pm 0.01	0.23 \pm 0.04	0.67 \pm 0.13	0.14 \pm 0.01	<LOD	0.14 \pm 0.00
Total <i>iP</i>	1.35 \pm 0.06	5.85 \pm 1.13	6.81 \pm 0.28	4.36 \pm 0.67	8.05 \pm 1.57	10.53 \pm 3.45	6.00 \pm 0.08	2.53 \pm 0.08	3.20 \pm 0.63

Below the limit of detection (< LOD), *trans*-Zeatin (*tZ*), *trans*-Zeatin riboside (*tZR*), *trans*-Zeatin-9-glucoside (*tZ9G*), *trans*-Zeatin-*O*-glucoside (*tZOG*), *trans*-zeatin-*O*-glucoside riboside (*tZROG*), *trans*-Zeatin-9-riboside-5'-monophosphate (*tZR5'MP*), *cis*-Zeatin (*cZ*), *cis*-zeatin riboside (*cZR*), *cis*-Zeatin-9-glucoside (*cZ9G*), *cis*-Zeatin-*O*-glucoside (*cZOG*), *cis*-Zeatin-*O*-glucoside riboside (*cZROG*), *cis*-Zeatin-9-riboside-5'-monophosphate (*cZR5'MP*), *N*⁶-isopentenyladenine (*iP*), *N*⁶-isopentenyladenosine (*iPR*), *N*⁶-isopentenyladenine-9-glucose (*iP9G*) and *N*⁶-isopentenyladenosine-5'-monophosphate (*iPR5'MP*).