

**Table S1.** Free sugar content (mg/g DW) in investigated lettuce varieties grown under normal and stress conditions.

CPD	Growing conditions	Altenbursky	Kamenáč	Jupiter	Dubaček	Pražan	Robin
Saccharose	control	21.12	10.78	12.77	11.64	26.96	21.27
		± 0.42	± 0.53	± 0.22	± 0.45	± 1.22	± 1.62
	drought	19.81	10.47	18.24	13.94	15.76	18.73
		± 0.25	± 0.12	± 0.13	± 0.20	± 0.41	± 1.97
	salt	32.37	13.57	25.55	24.24	26.71	17.23
		± 0.74	± 0.59	± 0.62	± 1.22	± 1.07	± 0.42
Glucose	control	85.97	81.24	93.96	77.6	73.43	78.44
		± 2.33	± 9.77	± 1.75	± 1.89	± 1.97	± 10.49
	drought	67.77	66.88	76.2	83.22	89.56	93.54
		± 1.47	± 2.40	± 0.70	± 0.20	± 4.10	± 6.35
	salt	60.18	64.88	77.62	63.77	75.18	88.62
		± 0.45	± 1.25	± 2.10	± 6.05	± 2.47	± 2.27
Fructose	control	86.01	89.42	107.74	87.84	91.23	59.75
		± 1.51	± 5.05	± 0.28	± 1.42	± 3.17	± 1.61
	drought	83.61	95.58	83.78	88.83	115.34	41.04
		± 5.18	± 3.20	± 1.29	± 1.88	± 4.50	± 2.80
	salt	77.23	83.33	72.67±	62.99	101.4	48.98
		± 4.92	± 3.27	1.65	± 1.84	± 7.45	± 1.23

**Table S2.** Free amino acid content ( $\mu\text{g/g DW}$ ) in investigated lettuce varieties grown under normal and stress conditions.

CPD	Growing conditions	Altenbursky	Kamenač	Jupiter	Dubaček	Pražan	Robin
Leucine	control	7.33	5.03	6.76	2.78	4.80	0.38
		$\pm 0.53$	$\pm 0.13$	$\pm 1.42$	$\pm 0.49$	$\pm 0.29$	$\pm 0.12$
	drought	7.36	9.74	6.18	5.67	6.69	0.61
		$\pm 1.27$	$\pm 1.63$	$\pm 2.04$	$\pm 0.69$	$\pm 2.13$	$\pm 0.14$
	salt	3.13	3.02	3.95	3.01	2.84	0.36
		$\pm 0.40$	$\pm 0.14$	$\pm 0.58$	$\pm 0.43$	$\pm 0.89$	$\pm 0.05$
Isoleucine	control	0.40	1.96	5.59	2.38	2.74	0.45
		$\pm 0.18$	$\pm 0.39$	$\pm 1.16$	$\pm 0.27$	$\pm 0.39$	$\pm 0.11$
	drought	0.38	1.40	6.09	5.53	5.10	0.37
		$\pm 0.26$	$\pm 0.24$	$\pm 1.04$	$\pm 1.12$	$\pm 0.90$	$\pm 0.08$
	salt	1.07	1.59	3.64	1.27	2.49	0.21
		$\pm 0.46$	$\pm 0.01$	$\pm 0.70$	$\pm 0.86$	$\pm 0.59$	$\pm 0.07$
Phenylalanine	control	12.34	5.94	9.06	3.63	5.31	1.10
		$\pm 3.77$	$\pm 0.96$	$\pm 2.28$	$\pm 0.26$	$\pm 0.50$	$\pm 0.30$
	drought	10.99	7.57	5.70	5.79	5.43	1.12
		$\pm 2.60$	$\pm 0.94$	$\pm 0.84$	$\pm 0.35$	$\pm 0.44$	$\pm 0.31$
	salt	7.14	4.75	2.53	6.17	1.25	1.18
		$\pm 0.66$	$\pm 0.17$	$\pm 0.32$	$\pm 1.28$	$\pm 0.31$	$\pm 0.28$
Tryptophan	control	9.01	2.63	14.34	5.64	7.70	1.85
		$\pm 0.60$	$\pm 0.47$	$\pm 1.41$	$\pm 0.60$	$\pm 0.91$	$\pm 0.54$
	drought	16.09	5.23	20.95	8.69	11.84	2.43
		$\pm 0.94$	$\pm 1.15$	$\pm 7.30$	$\pm 0.72$	$\pm 2.38$	$\pm 0.36$
	salt	9.96	4.57	5.39	7.36	2.41	2.78
		$\pm 1.10$	$\pm 0.29$	$\pm 1.23$	$\pm 3.09$	$\pm 0.47$	$\pm 0.94$
Methionine	control	0.40	0.31	0.14	0.01	0.06	0.08
		$\pm 0.18$	$\pm 0.12$	$\pm 0.03$	$\pm 0.01$	$\pm 0.01$	$\pm 0.02$
	drought	0.52	0.17	0.09	0.02	0.15	0.05
		$\pm 0.22$	$\pm 0.05$	$\pm 0.02$	$\pm 0.01$	$\pm 0.09$	$\pm 0.01$
	salt	0.29	0.11	0.05	0.03	0.12	0.03
		$\pm 0.15$	$\pm 0.02$	$\pm 0.03$	$\pm 0.00$	$\pm 0.10$	$\pm 0.02$
Valine	control	15.68	11.95	22.56	2.02	3.41	1.20
		$\pm 2.46$	$\pm 1.26$	$\pm 2.46$	$\pm 0.23$	$\pm 0.84$	$\pm 0.36$
	drought	15.36	13.27	14.44	3.44	4.66	1.24
		$\pm 2.75$	$\pm 1.66$	$\pm 6.33$	$\pm 0.35$	$\pm 1.55$	$\pm 0.20$
	salt	7.10	7.56	0.53	5.02	0.35	0.70
		$\pm 0.89$	$\pm 0.52$	$\pm 0.14$	$\pm 0.75$	$\pm 0.14$	$\pm 0.50$
Proline	control	42.59	36.44	194.73	60.65	154.37	11.69
		$\pm 3.11$	$\pm 0.72$	$\pm 32.49$	$\pm 9.46$	$\pm 14.70$	$\pm 0.33$
	drought	125.61	161.46	209.76	72.63	194.00	36.20
		$\pm 39.03$	$\pm 71.85$	$\pm 4.66$	$\pm 17.27$	$\pm 18.67$	$\pm 2.94$
	salt	92.07	85.77	15.68	169.74	6.29	33.63
		$\pm 11.12$	$\pm 9.25$	$\pm 0.32$	$\pm 78.67$	$\pm 3.87$	$\pm 7.57$
Tyrosine	control	5.41	3.93	2.92	8.23	34.11	3.46
		$\pm 2.22$	$\pm 0.65$	$\pm 0.40$	$\pm 2.62$	$\pm 6.06$	$\pm 1.19$
	drought	2.66	4.21	2.16	5.26	18.35	5.08
		$\pm 0.91$	$\pm 0.94$	$\pm 1.27$	$\pm 3.18$	$\pm 4.22$	$\pm 1.18$
	salt	3.43	1.97	4.27	15.15	2.43	5.08
		$\pm 0.89$	$\pm 0.25$	$\pm 0.44$	$\pm 2.58$	$\pm 0.62$	$\pm 0.40$

Table S2. Continued.

CPD	Growing conditions	Altenbursky	Kamenáč	Jupiter	Dubaček	Pražan	Robin
Alanine	control	74.84 ± 11.76	313.55 ± 63.55	532.81 ± 175.17	278.89 ± 181.71	1938.89 ± 538.73	21.80 ± 4.89
	drought	19.10 ± 3.40	428.81 ± 130.66	291.14 ± 131.54	214.74 ± 13.90	1612.82 ± 1043.29	9.65 ± 2.24
	salt	56.41 ± 9.60	268.89 ± 32.56	253.04 ± 41.85	929.93 ± 115.49	119.56 ± 40.24	10.22 ± 5.51
		0.93 ± 0.20	1.44 ± 0.41	1.87 ± 0.48	86.44 ± 30.61	179.62 ± 81.01	8.58 ± 2.43
Hydroxyproline	control	0.93 ± 0.20	1.44 ± 0.41	1.87 ± 0.48	86.44 ± 30.61	179.62 ± 81.01	8.58 ± 2.43
	drought	1.41 ± 0.46	1.71 ± 0.76	0.18 ± 0.10	89.01 ± 19.59	32.45 ± 16.23	3.58 ± 1.64
	salt	0.61 ± 0.16	0.92 ± 0.08	26.61 ± 0.07	126.14 ± 16.97	21.76 ± 6.30	4.84 ± 1.15
Threonine	control	60.89 ± 8.54	157.72 ± 39.45	247.43 ± 61.29	30.15 ± 3.55	241.94 ± 102.42	32.71 ± 8.51
	drought	126.29 ± 19.80	213.47 ± 37.67	157.38 ± 46.02	11.77 ± 2.13	79.71 ± 29.71	6.08 ± 1.05
	salt	58.92 ± 22.44	240.36 ± 34.63	113.30 ± 46.51	72.78 ± 4.75	89.03 ± 7.08	6.59 ± 1.94
		8.14 ± 0.92	15.34 ± 5.16	32.31 ± 11.69	6.25 ± 1.84	21.16 ± 5.46	1.04 ± 0.41
Glycine	control	8.14 ± 0.92	15.34 ± 5.16	32.31 ± 11.69	6.25 ± 1.84	21.16 ± 5.46	1.04 ± 0.41
	drought	12.74 ± 2.28	26.23 ± 9.58	16.88 ± 6.11	3.51 ± 1.04	12.21 ± 1.84	0.46 ± 0.09
	salt	2.80 ± 0.46	15.36 ± 0.70	9.64 ± 1.74	7.36 ± 1.88	2.26 ± 0.71	0.43 ± 0.14
Glutamate	control	24.60 ± 1.63	29.09 ± 8.71	3.99 ± 0.66	24.90 ± 5.73	3.72 ± 1.12	21.17 ± 6.67
	drought	10.97 ± 2.10	26.28 ± 0.75	5.24 ± 0.24	15.07 ± 3.08	3.13 ± 0.34	3.11 ± 0.62
	salt	19.07 ± 3.13	58.63 ± 6.15	15.91 ± 0.85	13.15 ± 3.57	15.90 ± 1.94	0.60 ± 0.16
		17.03 ± 9.64	45.10 ± 2.58	26.89 ± 2.56	17.01 ± 3.50	9.38 ± 11.66	16.89 ± 5.66
Serine	control	17.03 ± 9.64	45.10 ± 2.58	26.89 ± 2.56	17.01 ± 3.50	9.38 ± 11.66	16.89 ± 5.66
	drought	8.78 ± 4.09	42.48 ± 5.44	16.15 ± 0.76	16.65 ± 1.57	1.76 ± 0.27	2.27 ± 0.69
	salt	24.91 ± 2.99	72.73 ± 6.35	21.97 ± 2.94	22.94 ± 6.99	6.98 ± 0.02	0.72 ± 0.20
Asparagine	control	4.16 ± 0.54	29.07 ± 2.73	33.88 ± 4.25	5.29 ± 1.26	8.25 ± 5.38	10.04 ± 1.65
	drought	5.07 ± 2.29	32.05 ± 2.51	15.73 ± 1.74	15.99 ± 1.33	7.70 ± 1.40	1.25 ± 0.37
	salt	10.70 ± 1.48	34.02 ± 3.33	18.88 ± 3.55	24.45 ± 12.67	8.25 ± 1.38	0.34 ± 0.06
		70.57 ± 25.95	208.26 ± 85.96	144.63 ± 39.02	93.10 ± 25.49	155.56 ± 38.58	82.99 ± 20.74
Glutamine	control	70.57 ± 25.95	208.26 ± 85.96	144.63 ± 39.02	93.10 ± 25.49	155.56 ± 38.58	82.99 ± 20.74
	drought	43.44 ± 7.09	125.80 ± 11.73	61.81 ± 2.80	123.61 ± 51.58	88.27 ± 4.06	7.30 ± 4.19
	salt	127.37 ± 22.84	194.74 ± 19.21	150.10 ± 22.48	184.42 ± 93.64	152.74 ± 18.58	6.83 ± 3.35

Table S2. Continued.

CPD	Growing conditions	Altenbursky	Kamenáč	Jupiter	Dubaček	Pražan	Robin
Aspartate	control	14.08	172.11	59.85	160.71	375.04	173.49
		± 6.92	± 37.29	± 12.41	± 17.64	± 52.00	± 41.18
	drought	14.23	163.89	53.34	153.64	60.37	4.76
		± 4.98	± 9.69	± 2.20	± 22.16	± 10.69	± 0.50
	salt	79.83	330.31	157.70	251.09	142.51	0.83
		± 1.61	± 80.40	± 20.91	± 46.20	± 28.67	± 0.36
Arginine	control	16.59	19.42	21.15	16.10	24.14	25.30
		± 1.08	± 3.93	± 5.31	± 1.43	± 2.10	± 4.10
	drought	29.52	27.73	12.24	30.67	14.11	3.72
		± 2.54	± 11.44	± 1.82	± 10.15	± 2.57	± 1.77
	salt	7.51	14.19	4.42	24.21	7.51	2.63
		± 1.88	± 1.56	± 0.95	± 5.49	± 0.01	± 1.17
Histidine	control	3.86	5.59	6.25	2.91	3.58	1.80
		± 0.79	± 2.48	± 1.41	± 0.56	± 0.51	± 0.30
	drought	2.59	4.19	4.05	7.54	2.07	0.33
		± 0.44	± 1.87	± 0.84	± 2.09	± 0.93	± 0.14
	salt	2.87	3.87	2.27	7.66	0.65	0.18
		± 0.61	± 0.63	± 0.91	± 3.37	± 0.04	± 0.09
Ornithine	control	0.31	0.28	0.21	0.18	0.28	0.16
		± 0.14	± 0.15	± 0.11	± 0.02	± 0.13	± 0.04
	drought	0.16	0.22	0.07	0.43	0.18	0.16
		± 0.04	± 0.12	± 0.02	± 0.04	± 0.03	± 0.09
	salt	0.22	0.20	0.04	0.35	0.05	0.18
		± 0.03	± 0.04	± 0.02	± 0.18	± 0.00	± 0.08
Lysine	control	8.21	11.77	7.00	4.59	7.70	2.59
		± 1.29	± 3.22	± 1.48	± 0.38	± 1.58	± 0.60
	drought	6.77	13.50	2.99	11.81	3.21	0.24
		± 3.35	± 5.79	± 1.09	± 4.93	± 1.39	± 0.22
	salt	4.08	4.67	2.23	11.32	1.79	0.05
		± 0.28	± 0.53	± 0.61	± 4.79	± 0.37	± 0.02

**Table S3.** Fatty acid content ( $\mu\text{g/g DW}$ ) in investigated lettuce varieties grown under normal and stress conditions.

CPD	Growing conditions	Altenbursky	Kamenač	Jupiter	Dubaček	Pražan	Robin
C12:0	control	1.10	2.01	2.01	1.51	1.06	6.03
		$\pm 0.25$	$\pm 0.49$	$\pm 0.87$	$\pm 0.12$	$\pm 0.19$	$\pm 1.05$
	drought	0.84	1.38	2.90	0.84	0.53	4.53
		$\pm 0.37$	$\pm 0.09$	$\pm 0.38$	$\pm 0.09$	$\pm 0.11$	$\pm 0.21$
	salt	1.00	1.54	3.86	2.55	1.49	4.19
		$\pm 0.05$	$\pm 0.12$	$\pm 0.73$	$\pm 0.27$	$\pm 0.43$	$\pm 0.76$
C14:0	control	0.34	0.37	0.53	0.27	0.47	0.74
		$\pm 0.08$	$\pm 0.08$	$\pm 0.22$	$\pm 0.01$	$\pm 0.10$	$\pm 0.13$
	drought	0.46	0.45	0.56	0.39	0.47	0.64
		$\pm 0.21$	$\pm 0.02$	$\pm 0.07$	$\pm 0.04$	$\pm 0.10$	$\pm 0.01$
	salt	0.44	0.55	0.56	0.44	0.66	0.77
		$\pm 0.03$	$\pm 0.03$	$\pm 0.05$	$\pm 0.05$	$\pm 0.17$	$\pm 0.44$
C16:1 ( $\Delta 9$ )	control	0.55	0.86	0.59	0.55	0.77	0.88
		$\pm 0.13$	$\pm 0.20$	$\pm 0.27$	$\pm 0.04$	$\pm 0.10$	$\pm 0.14$
	drought	0.35	0.47	0.28	0.69	0.59	0.70
		$\pm 0.29$	$\pm 0.04$	$\pm 0.24$	$\pm 0.07$	$\pm 0.13$	$\pm 0.03$
	salt	0.73	0.67	0.59	0.98	1.08	0.92
		$\pm 0.04$	$\pm 0.05$	$\pm 0.12$	$\pm 0.09$	$\pm 0.23$	$\pm 0.46$
C16:0	control	14.01	19.38	17.24	14.23	20.83	22.96
		$\pm 2.96$	$\pm 4.20$	$\pm 7.21$	$\pm 0.52$	$\pm 3.29$	$\pm 4.63$
	drought	10.82	13.11	11.58	14.80	13.59	15.02
		$\pm 4.57$	$\pm 1.72$	$\pm 1.86$	$\pm 2.42$	$\pm 2.48$	$\pm 0.32$
	salt	18.56	19.31	17.24	22.70	24.85	14.63
		$\pm 0.95$	$\pm 1.05$	$\pm 2.99$	$\pm 2.11$	$\pm 6.07$	$\pm 0.86$
C18:2 ( $\Delta 9,12$ )	control	16.47	27.01	20.83	21.99	29.46	30.05
		$\pm 3.54$	$\pm 5.72$	$\pm 8.94$	$\pm 1.20$	$\pm 4.60$	$\pm 6.54$
	drought	11.72	10.02	13.01	16.63	16.47	17.23
		$\pm 5.21$	$\pm 6.82$	$\pm 2.17$	$\pm 1.76$	$\pm 3.35$	$\pm 0.54$
	salt	21.62	20.64	20.66	28.05	31.01	19.08
		$\pm 1.14$	$\pm 1.35$	$\pm 4.21$	$\pm 2.08$	$\pm 8.43$	$\pm 2.69$
C18:3 ( $\Delta 9,12,15$ )	control	51.28	59.05	53.91	44.15	59.04	74.41
		$\pm 11.39$	$\pm 12.46$	$\pm 23.25$	$\pm 2.75$	$\pm 9.78$	$\pm 16.05$
	drought	33.96	36.79	30.91	36.99	32.52	43.85
		$\pm 14.86$	$\pm 5.74$	$\pm 5.17$	$\pm 3.89$	$\pm 6.91$	$\pm 1.67$
	salt	66.07	74.51	55.36	67.69	70.66	48.48
		$\pm 3.53$	$\pm 4.66$	$\pm 11.27$	$\pm 4.69$	$\pm 19.54$	$\pm 4.74$
C18:0	control	1.17	1.41	1.49	0.99	1.73	2.04
		$\pm 0.25$	$\pm 0.31$	$\pm 0.65$	$\pm 0.08$	$\pm 0.27$	$\pm 0.35$
	drought	0.92	1.06	0.93	1.21	1.22	1.36
		$\pm 0.39$	$\pm 0.16$	$\pm 0.15$	$\pm 0.19$	$\pm 0.25$	$\pm 0.01$
	salt	1.51	1.96	1.32	1.57	2.07	1.45
		$\pm 0.04$	$\pm 0.11$	$\pm 0.25$	$\pm 0.16$	$\pm 0.52$	$\pm 0.38$
C22:0	control	0.45	0.53	0.54	0.45	0.53	0.60
		$\pm 0.09$	$\pm 0.10$	$\pm 0.32$	$\pm 0.01$	$\pm 0.06$	$\pm 0.17$
	drought	0.36	0.25	0.13	0.54	0.37	0.44
		$\pm 0.30$	$\pm 0.21$	$\pm 0.21$	$\pm 0.12$	$\pm 0.13$	$\pm 0.02$
	salt	0.51	0.48	0.30	0.58	0.64	0.55
		$\pm 0.06$	$\pm 0.01$	$\pm 0.24$	$\pm 0.11$	$\pm 0.22$	$\pm 0.29$

**Table S3.** Continued.

CPD	Growing conditions	Altenbursky	Kamenáč	Jupiter	Dubaček	Pražan	Robin
C24:0	control	0.60	0.58	0.62	0.60	0.60	0.64
		± 0.16	± 0.05	± 0.63	± 0.18	± 0.07	± 0.25
	drought	0.30	0.14	0.12	0.45	0.15	0.36
		± 0.25	± 0.23	± 0.18	± 0.12	± 0.23	± 0.05
	salt	0.62	0.59	0.31	0.63	0.74	0.59
		± 0.14	± 0.02	± 0.26	± 0.24	± 0.37	± 0.31

C12:0 – dodecanoic acid, C14:0 – tetradecanoic acid, C16:1 ( $\Delta$ 9) – palmitoleic acid, C16:0 – palmitic acid, C18:2 ( $\Delta$ 9,12) – linoleic acid, C18:3 ( $\Delta$ 9,12,15) –  $\alpha$ -linolenic acid, C18:0 – stearic acid, C22:0 – behenic acid, C24:0 – lignoceric acid.

**Table S4.** Free phenolic compounds content ( $\mu\text{g/g DW}$ ) in investigated lettuce varieties grown under normal and stress conditions.

CPD	Growing conditions	Altenbursky	Kamenač	Jupiter	Dubaček	Pražan	Robin
GA	control	0.99	1.24	0.35	0.36	0.44	0.97
		$\pm 0.53$	$\pm 0.39$	$\pm 0.07$	$\pm 0.10$	$\pm 0.06$	$\pm 0.19$
	drought	0.50	0.31	0.54	0.29	0.43	0.32
		$\pm 0.08$	$\pm 0.03$	$\pm 0.05$	$\pm 0.16$	$\pm 0.02$	$\pm 0.07$
	salt	0.75	0.33	0.69	0.30	0.57	0.61
		$\pm 0.30$	$\pm 0.07$	$\pm 0.46$	$\pm 0.03$	$\pm 0.05$	$\pm 0.37$
4HBA	control	4.72	5.51	2.80	2.87	4.09	3.98
		$\pm 0.05$	$\pm 0.62$	$\pm 0.39$	$\pm 1.05$	$\pm 1.09$	$\pm 0.68$
	drought	4.45	5.77	4.29	5.66	4.16	5.82
		$\pm 0.40$	$\pm 1.02$	$\pm 0.46$	$\pm 1.78$	$\pm 0.24$	$\pm 0.46$
	salt	3.73	2.00	3.30	5.04	3.27	6.49
		$\pm 0.32$	$\pm 0.35$	$\pm 1.69$	$\pm 0.88$	$\pm 0.09$	$\pm 1.49$
CGA	control	6767.15	5014.27	4899.48	3452.11	6102.26	9695.02
		$\pm 263.99$	$\pm 441.47$	$\pm 325.74$	$\pm 356.04$	$\pm 1334.38$	$\pm 339.77$
	drought	7052.45	2484.92	6232.81	5029.72	5027.13	10221.29
		$\pm 411.21$	$\pm 510.98$	$\pm 90.82$	$\pm 485.42$	$\pm 572.41$	$\pm 525.70$
	salt	6470.83	2323.49	2998.99	6992.18	4866.85	14581.63
		$\pm 755.79$	$\pm 331.54$	$\pm 1329.47$	$\pm 1976.32$	$\pm 348.02$	$\pm 4615.50$
CA	control	421.16	605.38	563.90	215.06	547.52	167.18
		$\pm 9.05$	$\pm 33.63$	$\pm 29.19$	$\pm 8.10$	$\pm 81.35$	$\pm 1.88$
	drought	711.65	404.54	431.72	497.04	508.56	289.61
		$\pm 49.60$	$\pm 12.27$	$\pm 73.49$	$\pm 37.59$	$\pm 95.50$	$\pm 29.90$
	salt	293.63	174.23	67.62	374.25	55.01	401.69
		$\pm 17.41$	$\pm 12.03$	$\pm 32.92$	$\pm 67.20$	$\pm 2.79$	$\pm 161.43$
VA	control	6.27	6.05	8.07	5.88	8.99	9.18
		$\pm 2.03$	$\pm 0.29$	$\pm 1.60$	$\pm 2.95$	$\pm 1.16$	$\pm 0.58$
	drought	7.77	7.20	6.66	14.54	9.03	12.08
		$\pm 0.56$	$\pm 1.32$	$\pm 1.17$	$\pm 3.57$	$\pm 2.07$	$\pm 2.76$
	salt	5.71	6.69	7.30	10.25	8.03	13.80
		$\pm 2.25$	$\pm 1.91$	$\pm 2.28$	$\pm 3.64$	$\pm 2.20$	$\pm 5.39$
COU	control	0.80	6.71	7.00	0.92	4.40	1.02
		$\pm 0.03$	$\pm 0.30$	$\pm 1.13$	$\pm 0.06$	$\pm 0.12$	$\pm 0.03$
	drought	1.26	14.33	4.72	7.93	8.34	1.17
		$\pm 0.14$	$\pm 0.54$	$\pm 0.28$	$\pm 4.93$	$\pm 1.19$	$\pm 0.05$
	salt	0.94	2.26	0.95	3.46	0.59	1.03
		$\pm 0.06$	$\pm 0.15$	$\pm 0.66$	$\pm 4.45$	$\pm 0.06$	$\pm 0.42$
FA	control	5.82	14.57	17.74	2.66	8.29	0.49
		$\pm 0.90$	$\pm 1.79$	$\pm 0.05$	$\pm 0.06$	$\pm 1.05$	$\pm 0.05$
	drought	8.72	14.41	12.59	6.49	8.58	0.92
		$\pm 0.08$	$\pm 3.10$	$\pm 2.18$	$\pm 1.59$	$\pm 1.89$	$\pm 0.11$
	salt	5.66	5.22	1.48	11.90	0.32	2.48
		$\pm 1.43$	$\pm 0.10$	$\pm 0.43$	$\pm 4.08$	$\pm 0.02$	$\pm 1.63$
SA	control	2.39	5.98	5.65	5.06	5.71	4.74
		$\pm 0.30$	$\pm 0.29$	$\pm 0.70$	$\pm 0.51$	$\pm 2.71$	$\pm 0.39$
	drought	3.24	9.69	9.96	3.93	9.47	8.80
		$\pm 0.18$	$\pm 0.84$	$\pm 1.70$	$\pm 1.46$	$\pm 0.63$	$\pm 0.71$
	salt	3.23	7.35	7.63	2.54	13.25	7.75
		$\pm 0.57$	$\pm 1.40$	$\pm 3.89$	$\pm 0.88$	$\pm 1.42$	$\pm 1.77$

**Table S4.** Continued.

CPD	Growing conditions	Altenbursky	Kamenáč	Jupiter	Dubaček	Pražan	Robin
LUT	control	3.80	2.12	11.91	1.28	9.06	3.05
		± 0.14	± 0.04	± 1.84	± 0.06	± 1.32	± 0.08
	drought	9.00	6.29	11.38	28.73	17.28	8.36
		± 1.30	± 1.08	± 2.04	± 9.79	± 3.51	± 1.98
	salt	0.66	2.55	1.23	10.79	1.73	7.05
		± 0.04	± 0.06	± 0.65	± 1.58	± 0.24	± 1.30
QUE	control	2.94	5.92	58.60	4.46	19.58	9.75
		± 0.08	± 1.10	± 15.80	± 0.10	± 5.60	± 0.53
	drought	4.25	0.77	58.37	6.50	9.12	13.41
		± 0.75	± 0.07	± 3.45	± 6.63	± 1.34	± 2.32
	salt	2.81	10.98	2.25	34.21	3.32	14.91
		± 0.08	± 0.21	± 0.85	± 14.61	± 0.11	± 2.99
NAR	control	0.02	0.03	0.05	0.01	0.03	0.04
		± 0.00	± 0.01	± 0.00	± 0.00	± 0.01	± 0.00
	drought	0.03	0.04	0.06	0.04	0.03	0.06
		± 0.00	± 0.01	± 0.01	± 0.02	± 0.01	± 0.01
	salt	0.01	0.02	0.01	0.04	0.02	0.07
		± 0.00	± 0.01	± 0.00	± 0.00	± 0.00	± 0.02

GA – gallic acid, 4HBA – 4-hydroxybenzoic acid, CGA – chlorogenic acid, CA – caffeic acid, VA – vanillic acid, COU – *p*-coumaric acid, FA – ferulic acid, SA – salicylic acid, LUT – luteolin, QUE – quercetin, NAR – naringenin.

**Table S5.** Vitamin content ( $\mu\text{g/g}$  DW) in investigated lettuce varieties grown under normal and stress conditions.

CPD	Growing conditions	Altenbursky	Kamenač	Jupiter	Dubaček	Pražan	Robin
B1	control	0.06	0.10	0.22	0.04	0.16	0.10
		$\pm 0.00$	$\pm 0.01$	$\pm 0.01$	$\pm 0.00$	$\pm 0.07$	$\pm 0.00$
	drought	0.27	0.17	0.33	0.28	0.28	0.36
		$\pm 0.01$	$\pm 0.0$	$\pm 0.00$	$\pm 0.01$	$\pm 0.15$	$\pm 0.04$
	salt	0.08	0.05	0.06	0.24	0.10	0.34
		$\pm 0.00$	$\pm 0.00$	$\pm 0.01$	$\pm 0.08$	$\pm 0.02$	$\pm 0.08$
B2	control	0.04	0.09	0.24	0.03	0.09	0.05
		$\pm 0.01$	$\pm 0.01$	$\pm 0.00$	$\pm 0.00$	$\pm 0.00$	$\pm 0.00$
	drought	0.11	0.34	0.16	0.31	0.15	0.10
		$\pm 0.00$	$\pm 0.02$	$\pm 0.00$	$\pm 0.03$	$\pm 0.09$	$\pm 0.01$
	salt	0.05	0.05	0.05	0.11	0.06	0.10
		$\pm 0.05$	$\pm 0.00$	$\pm 0.01$	$\pm 0.01$	$\pm 0.01$	$\pm 0.02$
B3	control	1.06	2.33	1.75	0.91	2.10	2.07
		$\pm 0.08$	$\pm 0.16$	$\pm 0.30$	$\pm 0.10$	$\pm 0.29$	$\pm 0.11$
	drought	1.95	0.91	1.03	1.30	0.78	4.84
		$\pm 0.21$	$\pm 0.34$	$\pm 0.30$	$\pm 0.17$	$\pm 0.25$	$\pm 0.41$
	salt	1.28	1.28	1.06	1.31	1.10	4.96
		$\pm 0.03$	$\pm 0.12$	$\pm 0.31$	$\pm 0.14$	$\pm 0.20$	$\pm 0.80$
B5	control	0.36	0.61	1.17	0.36	0.45	0.51
		$\pm 0.01$	$\pm 0.02$	$\pm 0.03$	$\pm 0.01$	$\pm 0.11$	$\pm 0.02$
	drought	0.52	1.17	1.24	0.82	0.98	0.57
		$\pm 0.01$	$\pm 0.01$	$\pm 0.03$	$\pm 0.04$	$\pm 0.70$	$\pm 0.02$
	salt	0.30	0.33	0.49	0.53	0.38	0.82
		$\pm 0.01$	$\pm 0.01$	$\pm 0.20$	$\pm 0.11$	$\pm 0.06$	$\pm 0.33$
B9	control	0.08	0.09	0.09	0.08	0.10	0.14
		$\pm 0.00$	$\pm 0.00$	$\pm 0.01$	$\pm 0.00$	$\pm 0.00$	$\pm 0.01$
	drought	0.09	0.08	0.10	0.09	0.10	0.13
		$\pm 0.00$	$\pm 0.00$	$\pm 0.00$	$\pm 0.00$	$\pm 0.04$	$\pm 0.01$
	salt	0.09	0.07	0.08	0.10	0.08	0.16
		$\pm 0.01$	$\pm 0.00$	$\pm 0.01$	$\pm 0.01$	$\pm 0.00$	$\pm 0.03$
C	control	36.30	59.89	0.79	21.74	15.85	31.08
		$\pm 1.26$	$\pm 9.33$	$\pm 0.11$	$\pm 4.48$	$\pm 3.01$	$\pm 11.03$
	drought	8.19	0.60	2.81	1.76	2.13	8.89
		$\pm 1.62$	$\pm 0.07$	$\pm 0.75$	$\pm 0.78$	$\pm 2.01$	$\pm 1.36$
	salt	20.78	17.30	13.78	22.16	10.12	32.50
		$\pm 6.51$	$\pm 0.92$	$\pm .36$	$\pm 4.94$	$\pm 3.21$	$\pm 10.31$
E	control	0.71	0.06	0.07	0.07	0.07	0.26
		$\pm 0.13$	$\pm 0.00$	$\pm 0.00$	$\pm 0.00$	$\pm 0.00$	$\pm 0.02$
	drought	0.08	0.07	0.16	0.14	0.08	0.11
		$\pm 0.02$	$\pm 0.00$	$\pm 0.03$	$\pm 0.02$	$\pm 0.01$	$\pm 0.01$
	salt	0.75	0.12	0.16	0.49	0.07	0.21
		$\pm 0.20$	$\pm 0.01$	$\pm 0.01$	$\pm 0.10$	$\pm 0.00$	$\pm 0.02$