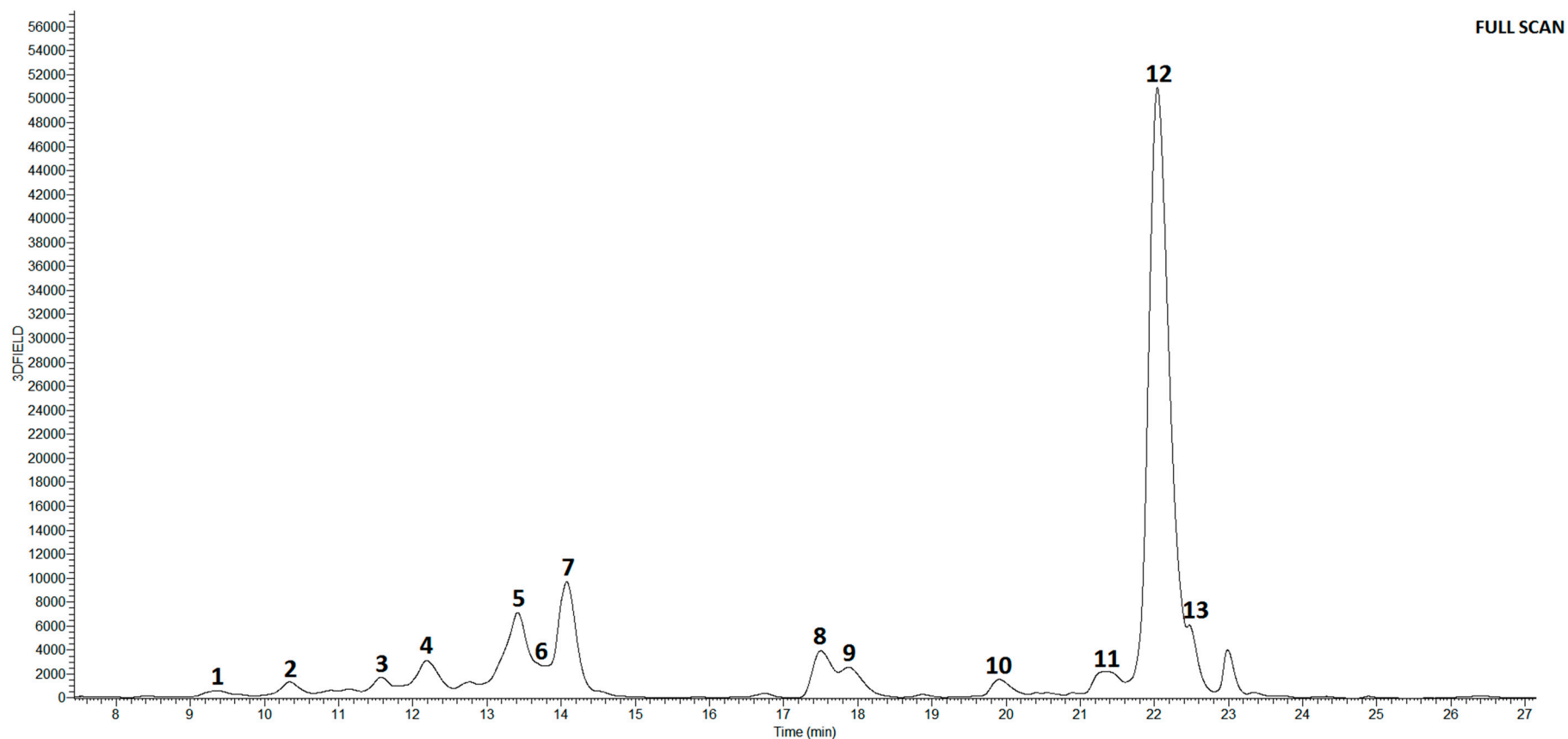
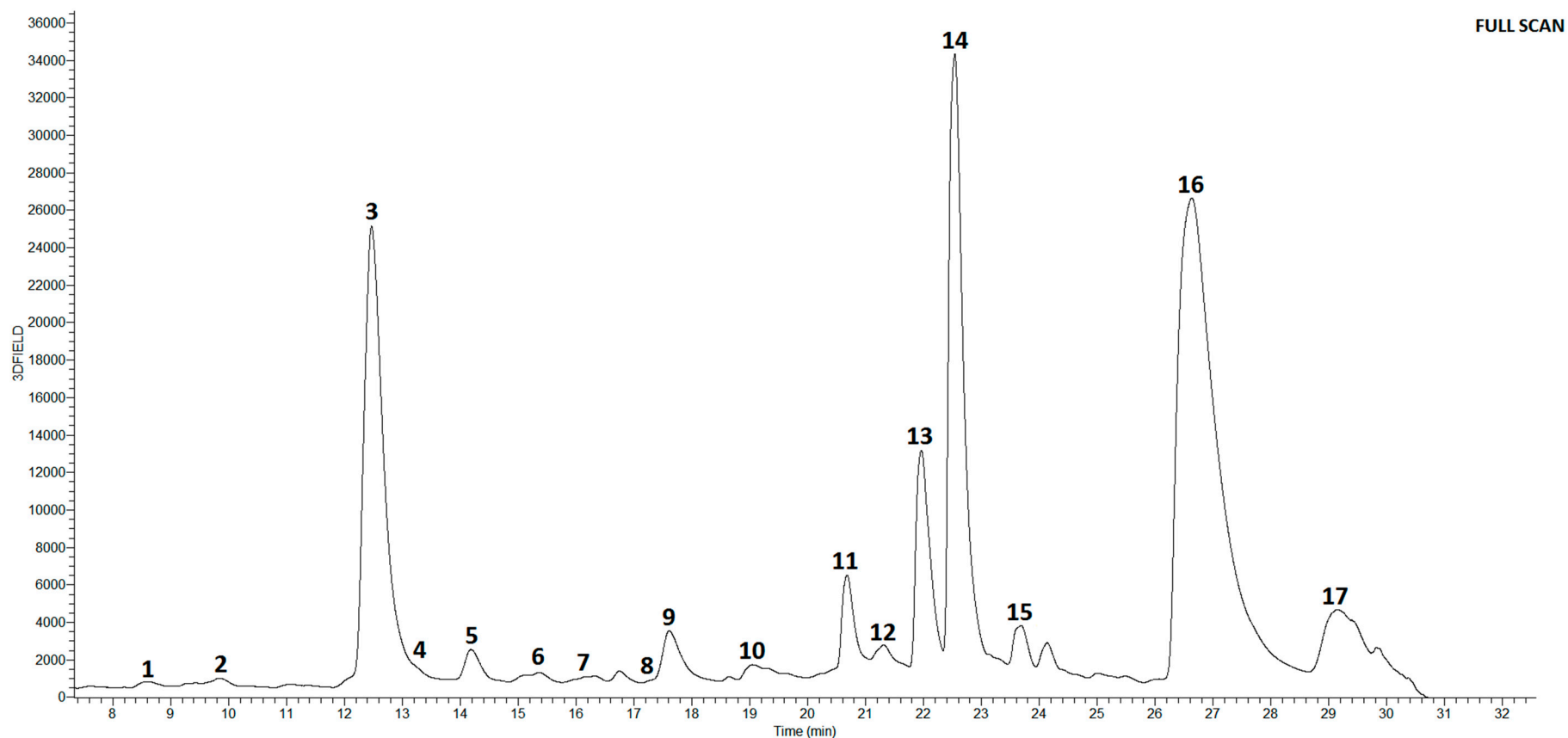


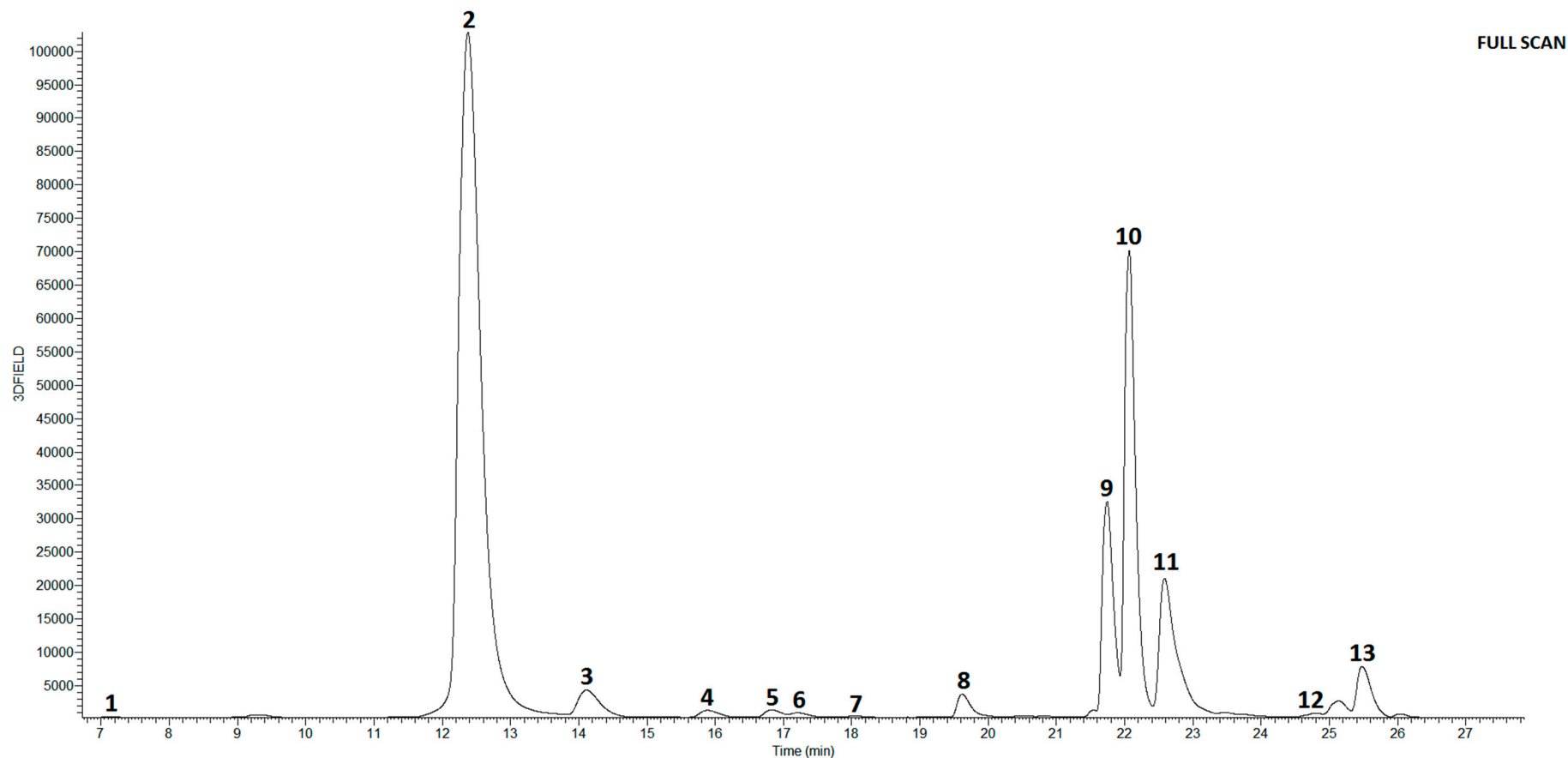
**Figure S1.** Representative full scan for the HPLC–MS analysis, and identification of the phenolic compounds for *Beta vulgaris* L.. **1**, *p*-coumaroylcaffeic acid; **2**, *p*-coumaric acid hexoside; **3**, ferulic acid hexoside; **4**, vitexin hexoside; **5**, ferulic acid; **6**, ferulic acid derivative 1; **7**, ferulic acid derivative 2; **8**, vitexin hexoside; **9**, luteolin dihexoside and vitexin pentoside; **10**, vitexin (apigenin-C-hexoside isomer); **11**, isorhamnetin dihexoside; **12**, vitexin hexoside derivative; **13**, isorhamnetin rutinoside; **14**, malonyl pentosylvitexin.



**Figure S2.** Representative full scan for the HPLC–MS, and identification of the phenolic compounds for *Brassica rapa* L. var. *japonica*. **1**, neochlorogenic acid (3-caffeoylquinic acid); **2**, kaempferol-3-*O*-diglucoside-7-*O*-glucoside; **3**, gluconapin; **4**, kaempferol-3-*O*-caffeoyldiglucoside-7-*O*-glucoside; **5**, kaempferol-3-*O*-sinapoyldiglucoside-7-*O*-glucoside and sinapoylglycoside; **6**, kaempferol diglucoside; **7**, kaempferol-3-*O*-feruoylglycoside-7-*O*-glucoside and isorhamnetin-3-*O*-glucoside-7-*O*-glucoside; **8**, caffeoylmalate; **9**, hydroxyferuoylmalate; **10**, kaempferol hexoside derivative; **11**, coumaroylmalate; **12**, sinapoylmalate; **13**, feruloylmalate.



**Figure S3.** Representative full scan for the HPLC–MS, and identification of the phenolic compounds for *Lactuca sativa* L. **1**, dihydroxybenzoic acid hexoside; **2**, esculetin glucoside; **3**, chlorogenic acid (5-caffeoylquinic acid); **4**, galloyl hexoside; **5**, cryptochlorogenic acid (4-caffeoylquinic acid); **6**, synapoyl hexoside derivative; **7**, *p*-coumaroylquinic acid 1; **8**, *p*-coumaroylquinic acid 2; **9**, caffeoylmalic acid; **10**, quercetin-3-*O*-galactoside; **11**, quercetin-3-*O*-glucoside; **12**, kaempferol-3-*O*-glucuronoside; **13**, quercetin-3-*O*-glucuronide; **14**, quercetin 3-(6"-malonylglucoside); **15**, quercetin-3-(6"-acetylglucoside); **16**, caffeoyltartaric acid hexoside 1; **17**, caffeoyltartaric acid hexoside 2.



**Figure S4.** Representative full scan for the HPLC–MS, and identification of the phenolic compounds for *Valerianella locusta* Laterr. **1**, 4-hydroxyphenylaoyl glucoside derivative; **2**, chlorogenic acid (5-caffeoylquinic acid); **3**, cryptochlorogenic acid (4-caffeoylquinic acid); **4**, *cis* 5-*O-p*-coumaroylquinic acid; **5**, *cis* 5-*O*-feruoylquinic acid; **6**, *trans* 5-*O-p*-coumaroylquinic acid; **7**, *trans* 5-*O*-feruoylquinic acid; **8**, luteolin-7-rutinoside; **9**, diosmetin apiosylglucoside; **10**, diosmin (diosmetin-7-*O*-rutinoside); **11**, dicaffeoylquinic acid; **12**, apigenin-rutinoside; **13**, caffeic acid hexoside derivative.

**Table S1.** Yields for the different crop vegetables in terms of leaf fresh weight and dry matter, and root dry weight.

Measure	Crop vegetable	Treatment				
		Controls		Control juglone		Leaf juglone
		K1	K2	1 mM	10 $\mu$ M	10 $\mu$ M
Leaf fresh weight (g/plant)	<i>Beta vulgaris</i> L.	17.7 $\pm$ 3.7 b	31.0 $\pm$ 3.2 c	13.3 $\pm$ 3.2 a	18.5 $\pm$ 4.0 b	22.0 $\pm$ 1.6 b
	<i>Brassica rapa</i> L. var. <i>japonica</i>	47.7 $\pm$ 1.9 b	51.2 $\pm$ 5.7 b	23.9 $\pm$ 1.8 a	28.0 $\pm$ 1.3 a	66.8 $\pm$ 4.8 c
	<i>Lactuca sativa</i> L.	25.1 $\pm$ 1.4 b	27.3 $\pm$ 2.0 b	14.5 $\pm$ 3.9 a	23.0 $\pm$ 2.1 b	48.4 $\pm$ 8.4 c
	<i>Valerianella locusta</i> Laterr.	9.8 $\pm$ 0.7 ab	12.8 $\pm$ 0.5 c	9.3 $\pm$ 0.9 a	9.2 $\pm$ 0.6 a	12.2 $\pm$ 0.5 bc
Leaf dry matter (%/plant)	<i>Beta vulgaris</i> L.	34.0 $\pm$ 3.9 b	24.0 $\pm$ 1.5 a	46.1 $\pm$ 7.7 c	35.7 $\pm$ 4.0 b	29.7 $\pm$ 1.6 ab
	<i>Brassica rapa</i> L. var. <i>japonica</i>	17.8 $\pm$ 0.4 a	17.6 $\pm$ 1.0 a	28.6 $\pm$ 1.2 b	25.9 $\pm$ 0.6 b	14.7 $\pm$ 0.5 a
	<i>Lactuca sativa</i> L.	25.7 $\pm$ 1.1 a	24.2 $\pm$ 1.3 a	45.3 $\pm$ 7.0 b	30.0 $\pm$ 2.1 ab	16.9 $\pm$ 1.8 a
	<i>Valerianella locusta</i> Laterr.	52.6 $\pm$ 1.8 ab	42.8 $\pm$ 1.3 a	56.0 $\pm$ 4.1 b	57.5 $\pm$ 3.3 b	44.8 $\pm$ 1.5 a
Root dry weight (g/overall plants)	<i>Beta vulgaris</i> L.	0.08	0.10	0.02	0.05	0.13
	<i>Brassica rapa</i> L. var. <i>japonica</i>	0.12	0.13	0.04	0.04	0.19
	<i>Lactuca sativa</i> L.	0.17	0.15	0.02	0.08	0.35
	<i>Valerianella locusta</i> Laterr.	0.02	0.08	0.01	0.02	0.07

Data are means  $\pm$ standard error (where appropriate).

Means followed by different letters between different treatments (within rows) are significantly different (p <0.05).

K1: extraction medium control (0.17% DMSO, 0.17% ethanol in H<sub>2</sub>O); K2: water control.

**Table S2.** Individual phenolic compounds quantified in *Beta vulgaris* L.

Phenolic compound	Quantification according to treatment (mg/kg dry weight)								
	Control juglone						Leaf juglone		
	1 mM			10 $\mu$ M			10 $\mu$ M		
	Young leaves	Semi-old leaves	Old leaves	Young leaves	Semi-old leaves	Old leaves	Young leaves	Semi-old leaves	Old leaves
<i>p</i> -Coumaroylcaffeic acid	15.4 $\pm$ 3.0 ab	2.9 $\pm$ 1.8 ab	19.4 $\pm$ 5.5 ab	9.1 $\pm$ 3.3 ab	0.3 $\pm$ 0.1 a	35.6 $\pm$ 12.4 b	6.1 $\pm$ 0.9 ab	10.6 $\pm$ 8.8 ab	16.5 $\pm$ 11.1 ab
<i>p</i> -Coumaric acid hexoside	19.5 $\pm$ 0.2 b	11.3 $\pm$ 1.9 ab	8.2 $\pm$ 4.5 ab	12.3 $\pm$ 0.4 ab	1.6 $\pm$ 0.2 a	18.5 $\pm$ 5.4 b	9.9 $\pm$ 0.6 ab	7.2 $\pm$ 5.2 ab	7.7 $\pm$ 4.7 ab
Ferulic acid hexoside 1	81.2 $\pm$ 1.6 bc	94.9 $\pm$ 2.7 cd	135.8 $\pm$ 3.9 de	36.7 $\pm$ 1.0 ab	57.8 $\pm$ 2.8 ac	271.3 $\pm$ 7.2 h	23.6 $\pm$ 7.7 a	181.8 $\pm$ 16.9 ef	199.3 $\pm$ 4.9 fg
Vitexin hexoside 1	14.7 $\pm$ 3.1 ab	15.0 $\pm$ 2.2 ab	2.3 $\pm$ 0.8 a	27.3 $\pm$ 4.5 ac	76.0 $\pm$ 10.7 de	93.9 $\pm$ 1.2 e	33.2 $\pm$ 8.0 acd	40.2 $\pm$ 6.9 acd	49.5 $\pm$ 7.4 bcd
Ferulic acid	0.6 $\pm$ 0.2 a	0.2 $\pm$ 0.0 a	0.7 $\pm$ 0.3 a	13.5 $\pm$ 0.2 ac	22.8 $\pm$ 2.1 bc	7.2 $\pm$ 2.2 ab	76.9 $\pm$ 6.8 f	32.2 $\pm$ 1.1 cd	16.2 $\pm$ 0.8 ac
Ferulic acid derivative 1	102.2 $\pm$ 11.5 df	95.8 $\pm$ 7.3 cf	150.1 $\pm$ 11.8 g	120.1 $\pm$ 11.8 efg	54.1 $\pm$ 11.1 ab	112.3 $\pm$ 3.6 dfg	59.1 $\pm$ 5.9 ac	77.7 $\pm$ 4.3 bcd	20.5 $\pm$ 4.3 a
Ferulic acid derivative 2	123.8 $\pm$ 2.6 ef	82.8 $\pm$ 2.1 bc	136.2 $\pm$ 3.6 f	104.3 $\pm$ 5.4 ce	43.7 $\pm$ 4.5 a	130.5 $\pm$ 6.4 ef	67.3 $\pm$ 1.6 ab	80.9 $\pm$ 3.6 bc	41.2 $\pm$ 8.9 a
Vitexin hexoside 2	428.7 $\pm$ 10.0 fh	430.2 $\pm$ 31.8 fh	524.8 $\pm$ 18.3 h	427.6 $\pm$ 28.6 fg	239.0 $\pm$ 14.8 bc	330.6 $\pm$ 3.9 cde	356.4 $\pm$ 26.6 df	301.1 $\pm$ 6.4 cde	88.2 $\pm$ 25.2 a
Vitexin pentoside	1204.8 $\pm$ 23.9 ef	1103.7 $\pm$ 33.0 de	1429.4 $\pm$ 25.3 g	1093.0 $\pm$ 43.6 de	696.8 $\pm$ 41.7 b	812.4 $\pm$ 14.8 bc	676.4 $\pm$ 66.4 b	698.1 $\pm$ 24.9 b	306.8 $\pm$ 21.5 a
Luteolin dihexoside	1246.4 $\pm$ 24.7 ef	1141.8 $\pm$ 34.1 de	1478.7 $\pm$ 26.1 g	1130.8 $\pm$ 45.1 de	720.8 $\pm$ 43.1 b	840.5 $\pm$ 15.3 bc	699.8 $\pm$ 68.7 b	722.1 $\pm$ 25.7 b	317.4 $\pm$ 22.3 a
Vitexin (apigenin-C-hexoside isomer)	156.9 $\pm$ 2.6 de	155.5 $\pm$ 8.3 de	86.7 $\pm$ 10.0 bc	192.1 $\pm$ 5.9 e	323.0 $\pm$ 17.3 f	39.5 $\pm$ 6.3 ab	410.0 $\pm$ 22.8 g	160.8 $\pm$ 8.8 de	27.1 $\pm$ 8.6 a
Isorhamnetin dihexoside	255.5 $\pm$ 4.2 ce	292.1 $\pm$ 14.7 e	174.1 $\pm$ 22.9 b	175.5 $\pm$ 3.9 b	583.2 $\pm$ 11.5 f	66.3 $\pm$ 14.0 a	242.0 $\pm$ 8.9 ce	171.3 $\pm$ 21.1 b	19.9 $\pm$ 4.3 a
Vitexin hexoside derivative	126.4 $\pm$ 4.0 be	184.2 $\pm$ 18.4 ef	100.8 $\pm$ 4.6 abc	115.5 $\pm$ 4.7 bd	161.5 $\pm$ 9.4 cde	242.6 $\pm$ 25.9 f	132.7 $\pm$ 19.2 be	99.4 $\pm$ 13.6 ab	46.7 $\pm$ 11.7 a
Isorhamnetin rutinoside	145.7 $\pm$ 2.1 ab	422.0 $\pm$ 35.3 de	194.6 $\pm$ 19.0 ac	189.3 $\pm$ 8.4 ac	110.1 $\pm$ 9.1 a	266.1 $\pm$ 18.4 c	365.5 $\pm$ 20.5 d	437.3 $\pm$ 30.5 df	132.8 $\pm$ 18.2 a
Malonyl pentosylvitexin	3278.3 $\pm$ 59.0 ce	3634.3 $\pm$ 132.1 ef	1285.3 $\pm$ 35.7 a	6208.6 $\pm$ 309.5 h	3388.6 $\pm$ 258.3 de	2523.8 $\pm$ 41.5 bcd	4975.3 $\pm$ 456.7 g	3658.1 $\pm$ 120.0 ef	1369.4 $\pm$ 13.9 a
<b>Total hydroxycinnamic acids</b>	342.6 $\pm$ 9.8 bcd	287.8 $\pm$ 4.5 ac	450.4 $\pm$ 23.8 def	296.0 $\pm$ 16.4 bc	180.2 $\pm$ 7.1 a	575.4 $\pm$ 30.1 h	242.9 $\pm$ 15.9 ab	390.3 $\pm$ 18.6 ce	301.5 $\pm$ 24.0 bc
<b>Total flavonols</b>	401.2 $\pm$ 5.4 cd	714.2 $\pm$ 49.1 fg	368.6 $\pm$ 41.8 c	364.8 $\pm$ 11.2 c	693.3 $\pm$ 17.3 fg	332.5 $\pm$ 29.2 bc	607.5 $\pm$ 24.6 ef	608.6 $\pm$ 16.0 ef	152.6 $\pm$ 22.5 a
<b>Total flavones</b>	6456.2 $\pm$ 106.1 eg	6664.7 $\pm$ 239.4 fg	4907.9 $\pm$ 96.9 cde	9194.9 $\pm$ 427.6 h	5605.7 $\pm$ 367.7 cdef	4883.3 $\pm$ 65.0 cd	7283.8 $\pm$ 654.2 g	5679.9 $\pm$ 177.3 cdef	2205.1 $\pm$ 100.0 a
<b>TAPC</b>	7200.0 $\pm$ 115.1 df	7666.7 $\pm$ 259.8 ef	5727.0 $\pm$ 152.9 cd	9855.6 $\pm$ 451.6 gh	6479.2 $\pm$ 382.0 cde	5791.1 $\pm$ 122.9 cd	8134.2 $\pm$ 677.2 ef	6678.8 $\pm$ 200.1 cf	2659.2 $\pm$ 142.2 a
	<b>K1</b>			<b>K2</b>					
<i>p</i> -Coumaroylcaffeic acid	5.9 $\pm$ 1.7 ab	0.6 $\pm$ 0.2 a	27.0 $\pm$ 2.4 ab	12.1 $\pm$ 1.7 ab	13.4 $\pm$ 5.2 ab	34.6 $\pm$ 15.8 b			
<i>p</i> -Coumaric acid hexoside	10.9 $\pm$ 0.4 ab	1.9 $\pm$ 0.6 a	14.7 $\pm$ 1.8 ab	12.1 $\pm$ 0.2 ab	5.7 $\pm$ 2.0 ab	14.9 $\pm$ 5.7 ab			
Ferulic acid hexoside 1	23.1 $\pm$ 6.8 a	98.1 $\pm$ 3.0 cd	202.5 $\pm$ 6.5 fg	97.9 $\pm$ 23.4 cd	219.8 $\pm$ 8.6 fg	239.9 $\pm$ 10.4 gh			
Vitexin hexoside 1	65.7 $\pm$ 16.3 ce	23.6 $\pm$ 1.6 ac	47.5 $\pm$ 7.0 bcd	72.9 $\pm$ 21.0 de	24.4 $\pm$ 8.5 ac	8.9 $\pm$ 2.2 ab			
Ferulic acid	169.6 $\pm$ 9.1 h	62.2 $\pm$ 2.7 ef	49.0 $\pm$ 3.2 de	194.9 $\pm$ 9.5 i	101.3 $\pm$ 4.5 g	16.8 $\pm$ 0.2 ac			
Ferulic acid derivative 1	103.7 $\pm$ 10.7 df	111.6 $\pm$ 7.2 dfg	81.0 $\pm$ 9.0 bcde	85.4 $\pm$ 2.2 bcf	123.7 $\pm$ 6.7fg	60.0 $\pm$ 1.2 ac			
Ferulic acid derivative 2	80.5 $\pm$ 10.9 bc	116.5 $\pm$ 6.4 def	89.2 $\pm$ 3.0 bc	139.3 $\pm$ 5.9 f	95.7 $\pm$ 4.1 cd	52.1 $\pm$ 0.7 a			
Vitexin hexoside 2	307.7 $\pm$ 25.2 cde	382.9 $\pm$ 12.7 ef	279.7 $\pm$ 7.3 cd	671.3 $\pm$ 3.7 i	489.2 $\pm$ 25.6 gh	168.5 $\pm$ 8.0 ab			
Vitexin pentoside	794.9 $\pm$ 41.3 bc	924.6 $\pm$ 31.5 cd	695.0 $\pm$ 7.4 b	1373.6 $\pm$ 25.5 fg	1129.7 $\pm$ 61.7 e	479.7 $\pm$ 9.5 a			
Luteolin dihexoside	822.3 $\pm$ 42.7 bc	956.5 $\pm$ 32.6 cd	719.0 $\pm$ 7.6 b	1421.0 $\pm$ 26.4 fg	1168.7 $\pm$ 63.9 e	496.3 $\pm$ 9.8 a			
Vitexin (apigenin-C-hexoside isomer)	199.9 $\pm$ 6.4 e	188.7 $\pm$ 10.9 e	127.2 $\pm$ 17.9 cd	524.4 $\pm$ 15.8 h	103.3 $\pm$ 4.7 cd	39.9 $\pm$ 7.2 ab			

Isorhamnetin dihexoside	278.2 ± 12.1 de	206.2 ± 4.3 bc	224.4 ± 11.4 bcd	261.3 ± 4.3 ce	302.6 ± 17.4 e	67.9 ± 14.3 a
Vitexin hexoside derivative	118.3 ± 5.3 bd	165.4 ± 9.4 de	102.0 ± 5.5 abc	144.3 ± 9.0 be	167.7 ± 10.1 de	51.1 ± 7.0 a
Isorhamnetin rutinoside	232.3 ± 21.3 bc	406.2 ± 24.3 de	197.0 ± 10.9 ac	521.4 ± 12.4 f	502.2 ± 15.8 ef	142.7 ± 18.6 ab
Malonyl pentosylvitexin	4021.9 ± 230.5 eg	4590.5 ± 180.4 fg	2312.0 ± 4.7 ac	9171.1 ± 207.0 i	6251.5 ± 340.4 h	1853.0 ± 25.9 ab
<b>Total hydroxycinnamic acids</b>	393.8 ± 24.7 ce	390.9 ± 15.0 ce	463.3 ± 9.1 eg	541.8 ± 35.9 fgh	559.5 ± 22.1 gh	418.3 ± 32.3 de
<b>Total flavonols</b>	510.4 ± 25.4 de	612.4 ± 25.4 ef	421.3 ± 21.3 cd	782.8 ± 14.2 g	804.9 ± 32.8 g	210.6 ± 12.4 ab
<b>Total flavones</b>	6330.7 ± 346.5 dg	7232.1 ± 264.2 g	4282.4 ± 13.1 bc	13378.7 ± 292.2 i	9334.5 ± 500.2 h	3097.5 ± 35.4 ab
<b>TAPC</b>	7234.9 ± 380.8 df	8235.4 ± 297.8 fg	5167.0 ± 37.8 bc	14703.3 ± 331.2 i	10698.8 ± 554.0 h	3726.4 ± 56.5 ab

Data are means ±standard error.

Means followed by different letters within rows are significantly different (p <0.05).

TAPC, total analysed phenolics content.

K1: extraction medium control (0.17% DMSO, 0.17% ethanol in H<sub>2</sub>O); K2: water control.

Young leaves, undeveloped leaves; semi-old leaves, remaining fully developed leaves; old leaves, four outer fully developed leaves.

**Table S3.** Individual compounds quantified in *Brassica rapa* L. var. *japonica*.

Phenolic compound	Quantification according to treatment (mg/kg dry weight)								
	Control juglone						Leaf juglone		
	1 mM			10 $\mu$ M			10 $\mu$ M		
	Young leaves	Semi-old leaves	Old leaves	Young leaves	Semi-old leaves	Old leaves	Young leaves	Semi-old leaves	Old leaves
Neochlorogenic acid (3-caffeoylquinic acid)	335.3 $\pm$ 47.1 e	146.9 $\pm$ 12.1 bc	7.6 $\pm$ 1.5 a	172.4 $\pm$ 23.9 c	42.4 $\pm$ 21.6 a	11.1 $\pm$ 0.4 a	81.7 $\pm$ 16.8 ab	16.1 $\pm$ 8.5 a	10.5 $\pm$ 1.5 a
Kaempferol-3-O-diglucoside-7-O-glucoside	464.8 $\pm$ 16.3 h	279.3 $\pm$ 13.0 efg	122.8 $\pm$ 11.7 ab	288.0 $\pm$ 23.4 g	206.4 $\pm$ 21.2 cde	78.1 $\pm$ 2.8 a	224.6 $\pm$ 11.3 cdg	163.4 $\pm$ 15.3 bc	109.2 $\pm$ 13.0 ab
Gluconapin	225.6 $\pm$ 8.5 fg	201.1 $\pm$ 5.0 ef	70.2 $\pm$ 5.2 ab	235.7 $\pm$ 12.2 fg	161.7 $\pm$ 18.9 de	77.7 $\pm$ 2.8 ac	197.5 $\pm$ 5.1 ef	109.3 $\pm$ 11.2 bc	84.8 $\pm$ 6.3 ac
Kaempferol-3-O-caffeoyldiglucoside-7-O-glucoside	785.2 $\pm$ 18.4 f	611.1 $\pm$ 14.5 e	322.5 $\pm$ 12.3 b	598.8 $\pm$ 18.2 de	528.3 $\pm$ 26.3 ce	264.3 $\pm$ 12.9 ab	715.8 $\pm$ 13.8 f	457.5 $\pm$ 17.7 c	326.6 $\pm$ 8.5 b
Kaempferol-3-O-sinapoyldiglucoside-7-O-glucoside	492.9 $\pm$ 15.2 f	311.8 $\pm$ 21.2 de	181.7 $\pm$ 2.7 acd	191.4 $\pm$ 65.9 acd	140.0 $\pm$ 60.4 ac	47.9 $\pm$ 4.2 a	298.4 $\pm$ 56.4 de	177.5 $\pm$ 8.0 acd	197.3 $\pm$ 5.4 bce
Kaempferol diglucoside	77.8 $\pm$ 2.1 j	43.1 $\pm$ 0.3 g	10.4 $\pm$ 0.3 ab	55.9 $\pm$ 2.0 hi	39.1 $\pm$ 2.1 fg	14.9 $\pm$ 0.6 bc	50.9 $\pm$ 1.2 h	21.8 $\pm$ 0.7 d	13.7 $\pm$ 0.6 ac
Sinapoylglycoside	39.1 $\pm$ 1.1 j	21.7 $\pm$ 0.2 g	5.2 $\pm$ 0.2 ab	28.1 $\pm$ 1.0 hi	19.7 $\pm$ 1.1 fg	7.5 $\pm$ 0.3 bc	25.6 $\pm$ 0.6 h	10.9 $\pm$ 0.4 d	6.9 $\pm$ 0.3 ac
Isorhamnetin-3-O-glucoside-7-O-glucoside	170.6 $\pm$ 5.5 i	118.9 $\pm$ 3.7 h	54.4 $\pm$ 1.3 bc	77.7 $\pm$ 2.0 ef	76.0 $\pm$ 4.4 df	47.2 $\pm$ 1.6 ab	92.4 $\pm$ 2.4 g	56.8 $\pm$ 2.0 bc	47.0 $\pm$ 0.6 ab
Kaempferol-3-O-feruoylglycoside-7-O-glucoside	184.0 $\pm$ 5.9 i	128.3 $\pm$ 4.0 h	58.7 $\pm$ 1.4 bc	83.8 $\pm$ 2.1 ef	82.0 $\pm$ 4.7 df	50.9 $\pm$ 1.7 ab	99.7 $\pm$ 2.6 g	61.2 $\pm$ 2.2 bc	50.7 $\pm$ 0.7 ab
Caffeoylmalate	49.9 $\pm$ 2.0 ab	167.9 $\pm$ 9.1 g	100.8 $\pm$ 5.5 e	43.5 $\pm$ 7.2 a	211.8 $\pm$ 11.9 h	139.3 $\pm$ 7.0 f	76.4 $\pm$ 2.7 bce	57.5 $\pm$ 1.3 ac	77.5 $\pm$ 2.6 ce
Hydroxyferuoylmalate	31.1 $\pm$ 0.6 bce	75.5 $\pm$ 5.0 g	37.2 $\pm$ 4.0 de	20.0 $\pm$ 3.1 ab	58.8 $\pm$ 7.6 f	39.9 $\pm$ 3.1 e	20.8 $\pm$ 0.5 ac	16.1 $\pm$ 1.3 a	21.9 $\pm$ 0.5 acd
Kaempferol hexoside derivative	56.3 $\pm$ 2.4 cd	55.4 $\pm$ 0.4 cd	97.3 $\pm$ 15.3 e	38.1 $\pm$ 4.3 ad	18.5 $\pm$ 6.2 ab	27.6 $\pm$ 1.4 abc	47.5 $\pm$ 3.9 bd	11.0 $\pm$ 0.3 a	13.5 $\pm$ 0.8 ab
Coumaroylmalate	189.2 $\pm$ 4.5 ce	400.9 $\pm$ 15.9 i	280.1 $\pm$ 6.8 gh	199.2 $\pm$ 5.5 e	371.7 $\pm$ 16.4 i	313.0 $\pm$ 13.4 h	253.2 $\pm$ 6.1 fg	96.9 $\pm$ 4.9 a	110.9 $\pm$ 6.1 ab
Sinapoylmalate	837.4 $\pm$ 16.7 cd	1238.9 $\pm$ 52.7 f	728.5 $\pm$ 18.3 bc	846.4 $\pm$ 16.1 cd	1398.3 $\pm$ 51.6 g	903.5 $\pm$ 19.7 d	1106.7 $\pm$ 21.7 e	475.1 $\pm$ 12.9 a	657.2 $\pm$ 8.6 b
Feruloylmalate	255.6 $\pm$ 7.1 i	98.8 $\pm$ 6.9 ef	125.6 $\pm$ 7.0 f	263.6 $\pm$ 13.8 i	87.0 $\pm$ 7.3 de	62.0 $\pm$ 4.3 cd	211.0 $\pm$ 3.0 gh	14.9 $\pm$ 0.4 a	32.1 $\pm$ 1.0 ab
<b>Total hydroxycinnamic acids</b>	1738.5 $\pm$ 27.0 h	2150.5 $\pm$ 76.6 i	1285.0 $\pm$ 41.1 ef	1573.2 $\pm$ 49.7 gh	2189.7 $\pm$ 111.3 i	1476.3 $\pm$ 44.9 fg	1775.4 $\pm$ 27.4 h	687.5 $\pm$ 17.7 ab	916.9 $\pm$ 19.4 bc
<b>Total flavonols</b>	2231.7 $\pm$ 63.2 i	1547.9 $\pm$ 51.7 g	847.9 $\pm$ 40.0 cd	1333.7 $\pm$ 92.4 fg	1090.4 $\pm$ 73.8 def	531.0 $\pm$ 24.3 ab	1529.2 $\pm$ 55.1 g	949.2 $\pm$ 44.8 ce	758.0 $\pm$ 25.9 bc
<b>TAPC</b>	4195.7 $\pm$ 72.3 i	3899.5 $\pm$ 123.2 ghi	2203.1 $\pm$ 80.3 bc	3142.6 $\pm$ 146.3 ef	3441.8 $\pm$ 186.9 fg	2085.0 $\pm$ 71.7 bc	3502.1 $\pm$ 71.5 fh	1746.0 $\pm$ 70.8 b	1759.8 $\pm$ 49.8 b
	<b>K1</b>			<b>K2</b>					
Neochlorogenic acid (3-caffeoylquinic acid)	200.2 $\pm$ 27.8 cd	51.4 $\pm$ 8.4 a	34.2 $\pm$ 3.1 a	277.6 $\pm$ 5.9 de	68.6 $\pm$ 8.7 ab	0.1 $\pm$ 0.0 a			
Kaempferol-3-O-diglucoside-7-O-glucoside	177.3 $\pm$ 20.2 bd	209.2 $\pm$ 9.4 cdf	171.0 $\pm$ 2.3 bd	280.6 $\pm$ 8.5 fg	237.2 $\pm$ 22.2 dg	54.6 $\pm$ 2.1 a			
Gluconapin	273.4 $\pm$ 13.6 g	165.8 $\pm$ 4.7 de	126.0 $\pm$ 3.5 cd	324.0 $\pm$ 9.8 h	170.9 $\pm$ 18.2 de	49.7 $\pm$ 3.5 a			
Kaempferol-3-O-caffeoyldiglucoside-7-O-glucoside	583.0 $\pm$ 17.2 de	599.4 $\pm$ 12.6 de	508.1 $\pm$ 5.9 cd	926.2 $\pm$ 42.7 g	551.1 $\pm$ 11.6 de	211.7 $\pm$ 10.0 a			
Kaempferol-3-O-sinapoyldiglucoside-7-O-glucoside	265.8 $\pm$ 11.7 ce	270.5 $\pm$ 7.3 ce	259.5 $\pm$ 5.1 bce	341.9 $\pm$ 7.7 e	226.5 $\pm$ 4.8 bce	119.5 $\pm$ 4.4 ab			
Kaempferol diglucoside	32.8 $\pm$ 1.6 e	35.6 $\pm$ 0.6 ef	19.3 $\pm$ 0.2 cd	59.5 $\pm$ 1.7 i	31.0 $\pm$ 0.7 e	8.3 $\pm$ 0.5 a			
Sinapoylglycoside	16.5 $\pm$ 0.8 e	17.9 $\pm$ 0.3 ef	9.7 $\pm$ 0.1 cd	29.9 $\pm$ 0.9 i	15.6 $\pm$ 0.3 e	4.2 $\pm$ 0.2 a			
Isorhamnetin-3-O-glucoside-7-O-glucoside	78.2 $\pm$ 3.0 ef	78.4 $\pm$ 1.4 ef	71.7 $\pm$ 1.0 de	87.5 $\pm$ 2.3 fg	63.9 $\pm$ 1.0 cd	35.3 $\pm$ 1.5 a			
Kaempferol-3-O-feruoylglycoside-7-O-glucoside	84.3 $\pm$ 3.2 ef	84.6 $\pm$ 1.5 ef	77.3 $\pm$ 1.0 de	94.4 $\pm$ 2.5 fg	69.0 $\pm$ 1.1 cd	38.1 $\pm$ 1.6 a			
Caffeoylmalate	42.9 $\pm$ 1.4 a	79.7 $\pm$ 3.4 ce	85.6 $\pm$ 4.6 de	56.5 $\pm$ 2.0 ac	81.8 $\pm$ 3.7 ce	64.9 $\pm$ 4.0 acd			
Hydroxyferuoylmalate	14.5 $\pm$ 0.6 a	18.4 $\pm$ 2.6 ab	22.1 $\pm$ 0.7 acd	9.4 $\pm$ 0.2 a	36.2 $\pm$ 3.0 ce	23.4 $\pm$ 2.0 acd			
Kaempferol hexoside derivative	38.8 $\pm$ 6.4 ad	15.2 $\pm$ 3.8 a	24.6 $\pm$ 3.3 ab	59.4 $\pm$ 10.9 d	39.4 $\pm$ 5.5 ad	10.1 $\pm$ 4.4 a			

Coumaroylmalate	145.7 ± 3.3 bcd	191.7 ± 6.1 de	181.0 ± 6.4 ce	223.0 ± 10.1 ef	143.5 ± 12.7 ac	125.4 ± 5.9 ab
Sinapoylmalate	616.4 ± 18.8 b	708.2 ± 7.5 b	625.3 ± 14.8 b	955.9 ± 22.5 d	624.1 ± 13.0 b	419.5 ± 22.4 a
Feruloylmalate	193.6 ± 5.3 g	45.0 ± 1.2 bc	46.5 ± 1.3 bc	239.0 ± 4.1 hi	32.0 ± 1.1 ab	9.1 ± 1.6 a
<b>Total hydroxycinnamic acids</b>	1229.8 ± 52.5 de	1112.2 ± 14.6 ce	1004.3 ± 27.0 cd	1791.3 ± 38.5 h	1001.7 ± 35.0 cd	646.6 ± 35.6 a
<b>Total flavonols</b>	1260.1 ± 59.8 f	1292.9 ± 35.6 fg	1131.5 ± 13.2 ef	1849.4 ± 62.9 h	1218.1 ± 45.3 f	477.6 ± 22.9 a
<b>TAPC</b>	2763.4 ± 125.2 de	2570.9 ± 51.5 cd	2261.8 ± 43.2 c	3964.7 ± 106.9 hi	2390.7 ± 82.9 cd	1173.8 ± 61.5 a

Data are means ±standard error.

Means followed by different letters within rows are significantly different (p <0.05).

TAPC, total analysed phenolics content.

K1: extraction medium control (0.17% DMSO, 0.17% ethanol in H<sub>2</sub>O); K2: water control.

Young leaves, undeveloped leaves; semi-old leaves, remaining fully developed leaves; old leaves, four outer fully developed leaves.

**Table S4.** Individual compounds quantified in *Lactuca sativa* L.

Phenolic compound	Quantification according to treatment (mg/kg dry weight)								
	Control juglone						Leaf juglone		
	1 mM			10 μM			10 μM		
	Young leaves	Semi-old leaves	Old leaves	Young leaves	Semi-old leaves	Old leaves	Young leaves	Semi-old leaves	Old leaves
Dihydroxybenzoic acid hexoside	662.3 ± 75.8 d	253.4 ± 9.8 b	535.0 ± 26.1 c	52.4 ± 4.0 a	39.0 ± 7.0 a	91.3 ± 3.3 a	86.4 ± 2.4 a	34.8 ± 0.4 a	37.6 ± 1.3 a
Esculetin glucoside	39.2 ± 4.2 ab	55.0 ± 1.0 ab	69.8 ± 12.7 ac	74.2 ± 14.5 ac	103.8 ± 11.8 c	47.8 ± 15.5 ab	29.5 ± 11.8 a	42.1 ± 2.5 ab	81.0 ± 3.3 bc
Chlorogenic acid (5-caffeoylquinic acid)	744.7 ± 58.4 a	1437.7 ± 70.8 c	1515.8 ± 59.8 cd	1095.7 ± 42.2 b	2228.3 ± 45.8 e	2241.3 ± 37.4 e	527.2 ± 25.1 a	1032.8 ± 10.7 b	1703.2 ± 33.0 cd
Galloyl hexoside	72.9 ± 10.4 a	187.1 ± 4.6 ef	226.9 ± 27.7 f	106.9 ± 4.3 ab	200.1 ± 15.8 ef	129.4 ± 14.0ad	84.1 ± 12.9 a	117.2 ± 5.1 ad	167.1 ± 4.8 cde
Cryptochlorogenic acid (4-caffeoylquinic acid)	676.7 ± 49.1 f	1778.4 ± 75.7 h	1341.9 ± 27.1 g	508.9 ± 16.1 e	503.4 ± 20.8 de	167.5 ± 13.4 a	358.9 ± 30.1 cd	158.9 ± 3.2 a	166.6 ± 2.3 a
Sinapoyl hexoside derivative	0.6 ± 0.4 a	3.8 ± 0.2 ab	18.7 ± 5.4 cde	1.4 ± 0.1 ab	22.5 ± 1.8 df	8.8 ± 2.3 abc	2.1 ± 1.0 ab	4.7 ± 0.8 ab	25.1 ± 1.2 ef
p-Coumaroylquinic acid 1	0.2 ± 0.1 a	2.3 ± 0.5 ab	8.5 ± 1.0 ac	0.3 ± 0.0 a	2.6 ± 0.5 ab	13.8 ± 2.7 bc	2.1 ± 0.5 ab	2.9 ± 0.9 ab	36.8 ± 7.6 d
p-Coumaroylquinic acid 2	24.7 ± 3.3 ac	32.8 ± 1.3 bcd	50.4 ± 1.6 de	43.6 ± 1.4 ce	53.4 ± 0.5 e	32.8 ± 0.9 bcd	12.2 ± 0.4 a	20.2 ± 1.6 ab	42.0 ± 5.8 ce
Caffeoylmalic acid	85.0 ± 8.1 ab	98.9 ± 4.3 ac	190.5 ± 5.2 ef	158.0 ± 5.7 cde	226.7 ± 4.6 f	155.1 ± 2.6 cde	46.3 ± 1.6 a	159.1 ± 2.5 cde	380.2 ± 9.8 g
Quercetin-3- <i>O</i> -galactoside	81.0 ± 7.5 e	26.1 ± 6.0 abc	84.1 ± 6.1 e	51.7 ± 2.3 cd	35.5 ± 4.0 bd	136.4 ± 11.8 f	27.2 ± 6.7 ad	8.2 ± 0.9 a	34.8 ± 0.9 ad
Quercetin-3- <i>O</i> -glucoside	111.4 ± 9.3 ac	205.7 ± 19.3 dg	235.9 ± 12.5 fg	160.0 ± 2.2 bedef	162.5 ± 14.7 bcd	426.0 ± 20.9 h	405.1 ± 15.9 h	171.2 ± 5.5 cdef	128.9 ± 3.4 ad
Kaempferol-3- <i>O</i> -glucuronoside	336.7 ± 23.9 bc	662.3 ± 35.4 gh	640.1 ± 23.7 fg	472.3 ± 14.0 de	462.6 ± 12.5 de	763.3 ± 17.3 h	1153.1 ± 38.2 i	547.9 ± 11.7 ef	317.7 ± 12.0 ac
Quercetin-3- <i>O</i> -glucuronide	200.4 ± 16.4 bc	377.6 ± 22.0 f	482.1 ± 17.2 g	280.0 ± 9.6 de	493.8 ± 10.7 g	802.3 ± 15.4 h	361.6 ± 11.7 f	189.3 ± 5.9 bc	193.6 ± 6.6 bc
Quercetin 3-(6"-malonylglucoside)	788.6 ± 57.7 b	1512.3 ± 82.1 de	1779.1 ± 57.3 ef	1118.8 ± 39.8bc	1927.8 ± 48.8 f	3572.4 ± 74.8 g	1207.4 ± 50.7 c	795.2 ± 30.0 b	538.4 ± 17.8 ab
Quercetin-3-(6"-acetylglucoside)	40.0 ± 2.3 a	92.2 ± 4.4 ab	135.9 ± 9.9 ac	54.7 ± 4.0 a	123.3 ± 12.2 ac	628.2 ± 56.0 e	70.6 ± 11.9 a	257.6 ± 24.8 cd	389.1 ± 40.2 d
Caffeoyltartaric acid hexoside 1	814.6 ± 67 a	895.1 ± 86.1 ab	1408.8 ± 53.7 acd	1951.9 ± 16.1 ce	1674.5 ± 565.0 bcd	2788.4 ± 134.0 e	2226.9 ± 126.0 de	1223.7 ± 60.1 ac	831.5 ± 44.3 ab
Caffeoyltartaric acid hexoside 2	59.3 ± 6.9 ab	23.8 ± 10.4 a	101.7 ± 6.1 ac	140.8 ± 23.0 acd	196.3 ± 35.0 ce	526.9 ± 52.4 f	184.1 ± 41.3 bce	105.0 ± 24.3 ac	142.0 ± 12.3 acd
Total hydroxycinnamic acids	2405.7 ± 192.7 a	4272.9 ± 216.7 bd	4636.2 ± 146.7 cde	3900.7 ± 50.4 bc	4907.7 ± 545.0 cdef	5934.5 ± 206.9 fg	3359.8 ± 214.5 ab	2707.3 ± 96.0 a	3327.3 ± 81.0 ab
Total flavonols	1558.0 ± 116.2 ac	2876.2 ± 156.3 fgh	3357.2 ± 113.7 h	2137.5 ± 66.4 ce	3205.6 ± 86.0 gh	6328.5 ± 182.7 i	3225.0 ± 131.9 gh	1969.3 ± 67.2 cd	1602.5 ± 50.1 bc
TAPC	4738.2 ± 397.3 a	7644.6 ± 372.9 cdf	8825.0 ± 306.5 f	6271.7 ± 121.0 abc	8456.2 ± 572.2 ef	12531.5 ± 383.4 g	6784.8 ± 365.5 bd	4870.7 ± 152.4 a	5215.4 ± 105.3 ab

Quercetin-3- <i>O</i> -galactoside	13.4 ± 2.9 sb	17.2 ± 1.4 ab	53.3 ± 2.5 d	14.5 ± 5.2 ab	11.6 ± 1.7 ab	51.8 ± 5.0 cd
Quercetin-3- <i>O</i> -glucoside	257.0 ± 12.7 g	90.5 ± 2.0 ab	70.8 ± 7.2 a	403.8 ± 34.2 h	218.2 ± 23.1 eg	157.8 ± 8.2 bcde
Kaempferol-3- <i>O</i> -glucuronoside	720.8 ± 36.3 gh	245.2 ± 10.1 ab	212.1 ± 14.0 a	1104.4 ± 27.4 i	514.1 ± 11.8 e	382.7 ± 8.6 cd
Quercetin-3- <i>O</i> -glucuronide	221.7 ± 11.4 bd	107.7 ± 2.8 a	146.4 ± 13.8 ab	895.9 ± 38.6 i	347.3 ± 12.6 ef	266.7 ± 3.2 cd
Quercetin 3-(6"-malonylglucoside)	759.3 ± 35.8 b	455.9 ± 13.8 a	406.1 ± 30.9 a	3294.2 ± 111.1 a	1343.7 ± 62.8 g	794.1 ± 12.9 cd
Quercetin-3-(6"-acetylglucoside)	46.5 ± 1.1 a	64.0 ± 12.3 a	269.9 ± 44.1 cd	229.1 ± 19.5 bc	234.7 ± 43.4 bc	714.6 ± 53.5 e
Caffeoyltartaric acid hexoside 1	2744.3 ± 107.3 e	1542.6 ± 63.4 acd	1364.9 ± 92.7 ac	4460.6 ± 141.9 f	1825.5 ± 38.3 cd	1824.5 ± 31.8 cd
Caffeoyltartaric acid hexoside 2	134.3 ± 7.6 acd	106.9 ± 4.5 ac	96.8 ± 14.5 ac	302.9 ± 7.8 e	108.7 ± 34.4 ac	236.5 ± 22.0 de
<b>Total hydroxycinnamic acids</b>	4260.5 ± 180.3 bd	4542.4 ± 152.7 cde	5349.6 ± 242.8 def	6676.6 ± 215.7 g	5294.9 ± 158.4 def	5639.2 ± 115.8 eg
<b>Total flavonols</b>	2018.7 ± 94.9 cd	980.5 ± 29.2 a	1158.7 ± 105.4 ab	5941.9 ± 227.0 i	2669.6 ± 120.0 eg	2367.7 ± 77.2 def
<b>TAPC</b>	6522.2 ± 260.7 bc	5825.3 ± 184.0 ab	6818.0 ± 333.7 bde	12899.0 ± 445.1 g	8276.4 ± 287.1 df	8362.8 ± 189.2 df

Data are means ±standard error.

Means followed by different letters within rows are significantly different (p <0.05).

TAPC, total analysed phenolics content.

K1: extraction medium control (0.17% DMSO, 0.17% ethanol in H<sub>2</sub>O); K2: water control.

Young leaves, undeveloped leaves; semi-old leaves, remaining fully developed leaves; old leaves, four outer fully developed leaves.

**Table S5.** Individual compounds quantified in *Valerianella locusta* Laterr.

Phenolic compound	Quantification according to treatment (mg/kg dry weight)								
	Control juglone						Leaf juglone		
	1 mM			10 µM			10 µM		
	Young leaves	Semi-old leaves	Old leaves	Young leaves	Semi-old leaves	Old leaves	Young leaves	Semi-old leaves	Old leaves
4-Hydroxyphenylaoyl glucoside derivative	178.7 ± 11.4 a	958.0 ± 36.0 c	2673.7 ± 72.0 d	172.9 ± 3.9 a	366.1 ± 7.6 b	917.8 ± 17.7 c	134.2 ± 1.4 a	123.7 ± 5.1 a	126.7 ± 5.3 a
Chlorogenic acid (5-caffeoylquinic acid)	6340.9 ± 172.2 ab	7458.2 ± 301.8 ce	8727.8 ± 343.1 f	5949.2 ± 154.7 ab	11243.8 ± 291.3 g	16895.5 ± 117.4 h	6151.3 ± 9.1 ab	6635.3 ± 106.5 ac	8884.2 ± 272.1 f
Cryptochlorogenic acid (4-caffeoylquinic acid)	354.1 ± 8.6 de	325.4 ± 13.0 cd	347.8 ± 22.7 ce	256.8 ± 7.1 ac	424.8 ± 17.5 e	523.1 ± 6.5 f	215.0 ± 1.1 a	223.9 ± 23.6 ab	302.1 ± 40.3 acd
<i>cis</i> 5-O-p-Coumaroylquinic acid	18.2 ± 0.7 ab	10.6 ± 0.6 a	38.0 ± 5.8 bcd	18.1 ± 0.6 ab	38.7 ± 2.3 bcd	63.2 ± 1.9 e	11.1 ± 0.1 a	28.7 ± 3.2 ac	42.7 ± 7.5 ce
<i>cis</i> 5-O-Feruoylquinic acid	14.7 ± 0.4 ab	29.5 ± 3.3 bd	46.2 ± 7.1 d	9.2 ± 1.0 a	46.2 ± 7.3 d	43.8 ± 0.5 d	9.1 ± 0.3 a	17.0 ± 0.8 ab	39.1 ± 4.6 cd
<i>trans</i> 5-O-p-Coumaroylquinic acid	9.7 ± 0.5 a	20.1 ± 0.8 ac	42.6 ± 4.5 ef	14.1 ± 0.9 ab	25.4 ± 2.7 bcd	52.1 ± 1.0 f	16.0 ± 0.2 ab	18.8 ± 0.5 ab	34.1 ± 1.2 de
<i>trans</i> 5-O-Feruoylquinic acid	13.9 ± 1.5 a	21.1 ± 0.9 ab	62.0 ± 12.9 c	10.3 ± 1.5 a	24.7 ± 4.8 ab	28.4 ± 0.5 ab	8.1 ± 1.0 a	10.6 ± 0.2 a	42.8 ± 6.9 bc
Luteolin-7-rutinoside	143.7 ± 22.7 a	132.2 ± 11.5 a	517.1 ± 43.7 c	240.8 ± 38.6 a	294.2 ± 51.7 ab	323.3 ± 6.7 ac	200.5 ± 12.9 a	153.4 ± 5.2 a	237.8 ± 65.4 a
Diosmetin apiosylglucoside	2487.4 ± 90.1 b	1563.5 ± 87.3 a	2839.2 ± 68.8 be	4171.8 ± 62.3 f	3096.5 ± 75.2 cde	2722.0 ± 60.9 bd	5103.4 ± 30.3 g	2949.8 ± 133.6 be	2594.5 ± 87.5 b
Diosmin (diosmetin-7-O-rutinoside)	3401.8 ± 113.5 bc	2364.9 ± 107.6 a	3472.0 ± 93.2 bc	7014.7 ± 107.5 f	4923.5 ± 77.3 d	3456.3 ± 38.6 bc	7540.8 ± 47.4 g	3293.1 ± 37.7 bc	3096.9 ± 84.6 b
Dicaffeoylquinic acid	827.1 ± 18.9 a	809.3 ± 34.4 a	1711.8 ± 48.0 gh	973.8 ± 19.9 ab	1448.6 ± 53.3 ef	1849.1 ± 23.5 h	1345.5 ± 17.8 de	1309.2 ± 13.9 ce	1743.3 ± 53.7 gh
Apigenin-rutinoside	95.6 ± 12.2 a	103.0 ± 14.0 a	619.4 ± 64.1 f	168.2 ± 10.9 ac	241.4 ± 23.2 bcd	699.7 ± 6.0 f	184.7 ± 11.9 ac	181.5 ± 21.1 ac	281.9 ± 11.2 cd
Caffeic acid hexoside derivative	269.2 ± 11.5 e	158.4 ± 7.2 ab	262.3 ± 8.2 e	429.2 ± 10.5 f	268.2 ± 8.6 e	163.2 ± 1.5 bc	544.4 ± 3.0 g	204.1 ± 3.7 d	122.7 ± 3.6 a
<b>Total hydroxycinnamic acids</b>	7847.8 ± 204.0 a	8832.6 ± 351.2 ac	11238.4 ± 441.8 d	7660.7 ± 170.2 a	13520.5 ± 361.9 e	19618.4 ± 148.7 f	8300.5 ± 24.0 ab	8447.5 ± 106.6 ab	11211.0 ± 370.0 d
<b>Total flavones</b>	6128.6 ± 149.8 b	4163.5 ± 183.5 a	7447.7 ± 186.9 cd	11595.5 ± 119.3 f	8555.6 ± 215.3 e	7201.3 ± 102.8 cd	13029.4 ± 77.5 g	6577.9 ± 146.8 bc	6211.0 ± 207.9 b
<b>TAPC</b>	14155.1 ± 355.6 a	13954.1 ± 559.6 a	21359 ± 696.9 fg	19429.2 ± 186.1 ef	22442.2 ± 560.2 gh	27737.4 ± 260.8 j	21464.0 ± 99.9 fg	15149.0 ± 197.6 ab	17548.8 ± 566.3 ce

K1			K2		
4-Hydroxyphenylaoyl glucoside derivative	103.0 ± 2.0 a	107.8 ± 1.9 a	94.3 ± 4.8 a	146.4 ± 8.3 a	99.0 ± 4.9 a
Chlorogenic acid (5-caffeoylquinic acid)	5775.3 ± 119.5 a	7682.9 ± 181.4 de	8137.2 ± 246.2 ef	6654.8 ± 143.1 acd	6843.3 ± 136.5 bcd
Cryptochlorogenic acid (4-caffeoylquinic acid)	255.8 ± 5.9 ac	299.0 ± 34.6 acd	313.6 ± 17.7 bcd	289.2 ± 9.3 acd	257.3 ± 3.5 ac
<i>cis</i> 5-O-p-Coumaroylquinic acid	20.5 ± 6.3 ac	27.1 ± 4.8 ac	55.2 ± 9.6 de	12.8 ± 2.8 a	10.1 ± 0.9 a
<i>cis</i> 5-O-Feruoylquinic acid	11.0 ± 3.3 ab	22.0 ± 1.4 abc	39.2 ± 5.2 cd	6.6 ± 1.1 a	15.1 ± 0.5 ab
<i>trans</i> 5-O-p-Coumaroylquinic acid	16.3 ± 3.6 ab	21.3 ± 0.9 ac	32.0 ± 5.5 ce	11.4 ± 2.6 a	13.5 ± 0.4 ab
<i>trans</i> 5-O-Feruoylquinic acid	15.0 ± 2.7 ab	13.4 ± 0.4 a	59.9 ± 12.3 c	12.0 ± 3.5 a	10.6 ± 1.4 a
Luteolin-7-rutinoside	279.2 ± 24.5 a	179.4 ± 5.8 a	739.3 ± 71.4 d	308.2 ± 16.1 ab	181.7 ± 52.8 a
Diosmetin apiosylglucoside	4200.6 ± 77.1 f	2670.8 ± 84.3 bc	3209.3 ± 178.3 e	5927.2 ± 102.5 h	3146.7 ± 72.1 de
Diosmin (diosmetin-7-O-rutinoside)	6344.2 ± 130.0 e	3045.0 ± 40.4 b	3707.8 ± 111.9 c	8483.7 ± 109.8 h	4552.0 ± 87.0 d

Dicaffeoylquinic acid	1346.2 ± 25.1 de	1116.0 ± 45.4 bc	1193.5 ± 67.6 cd	1434.6 ± 34.7 ef	1612.8 ± 45.4 fg	2705.2 ± 44.0 i
Apigenin-rutinoside	167.5 ± 17.9 ac	134.4 ± 21.4 ab	445.5 ± 36.3 e	167.4 ± 12.5 ac	198.5 ± 11.9 ac	360.6 ± 16.9 de
Caffeic acid hexoside derivative	424.8 ± 10.7 f	155.8 ± 8.3 ab	202.7 ± 10.6 cd	419.1 ± 11.3 f	158.2 ± 3.8 ab	165.6 ± 3.3 bd
<b>Total hydroxycinnamic acids</b>	7864.9 ± 167.0 a	9337.5 ± 253.0 bc	10033.3 ± 353.6 cd	8840.4 ± 182.8 ac	8920.8 ± 189.2 ac	14138.9 ± 257.5 e
<b>Total flavones</b>	10991.6 ± 235.5 f	6029.5 ± 107.3 b	8101.9 ± 383.0 de	14886.6 ± 209.4 h	8078.9 ± 211.2 de	10758.0 ± 164.9 f
<b>TAPC</b>	18959.6 ± 393.1 de	15474.8 ± 334.3 ac	18229.6 ± 734.2 de	23873.4 ± 363.4 hi	17098.7 ± 396.5 bcd	24997.2 ± 421.5 i

Data are means ±standard error.

Means followed by different letters within rows are significantly different (p <0.05).

TAPC, total analysed phenolics content.

K1: extraction medium control (0.17% DMSO, 0.17% ethanol in H<sub>2</sub>O); K2: water control.

Young leaves, undeveloped leaves; semi-old leaves, remaining fully developed leaves; old leaves, four outer fully developed leaves.