

Table S1. Germination of different seeds (50 seeds is 100% germination).

	day 1	day 2	day 3	day 5	day 7	day 9	day 11	day 13
<i>Lactuca sativa</i> L.								
LEAF (10^{-3})	34.3 ± 3.9 b	47.8 ± 0.9 b	47.8 ± 0.9 b	47.8 ± 0.9 b	47.8 ± 0.9 b			
10 ⁻³	NG a	2.0 ± 0.6 a	4.5 ± 0.5 a	8.0 ± 0.7 a	10.8 ± 0.8 a			
10 ⁻⁴	49.0 ± 0.6 c	49.5 ± 0.3 bc	50.0 ± 0.0 c	50.0 ± 0.0 c	50.0 ± 0.0 c			
10 ⁻⁵	49.3 ± 0.3 c	49.5 ± 0.3 bc	50.0 ± 0.0 c	50.0 ± 0.0 c	50.0 ± 0.0 c			
K1	50.0 ± 0.0 c	50.0 ± 0.0 c	50.0 ± 0.0 c	50.0 ± 0.0 c	50.0 ± 0.0 c			
K2	49.0 ± 0.4 c	49.3 ± 0.3 bc						
<i>Lens culinaris</i> Medik.								
LEAF (10^{-3})	NG a	19.5 ± 2.9 a	44.0 ± 1.4 a	46.0 ± 0.8 a	46.0 ± 0.8 a	46.0 ± 0.8 a		
10 ⁻³	1.0 ± 0.4 ab	31.3 ± 2.3 ab	46.8 ± 0.8 a	47.5 ± 0.6 a	47.5 ± 0.6 a	47.5 ± 0.6 a		
10 ⁻⁵	2.3 ± 0.3 b	36.0 ± 1.9 b	46.3 ± 1.5 a	47.0 ± 0.8 a	47.0 ± 0.8 a	47.0 ± 0.8 a		
K1	1.0 ± 0.4 ab	29.0 ± 6.8 ab	44.3 ± 2.4 a	47.0 ± 0.4 a	47.0 ± 0.4 a	47.0 ± 0.4 a		
K2	2.0 ± 0.6 b	37.3 ± 2.1 b	47.3 ± 0.8 a					
<i>Brassica rapa</i> L. var. <i>japonica</i>								
LEAF (10^{-3})	NG a	1.5 ± 0.3 a	2.8 ± 0.8 a	3.5 ± 1.0 a	4.5 ± 1.6 a	5.0 ± 1.6 a		
10 ⁻³	NG a	2.3 ± 0.6 a	7.5 ± 1.6 a	13.5 ± 1.8 b	29.3 ± 2.4 b	32.0 ± 2.1 b		
10 ⁻⁵	1.3 ± 0.5 b	28.0 ± 1.2 b	44.5 ± 1.3 b	46.8 ± 0.8 c	46.8 ± 0.8 c	46.8 ± 0.8 c		
K1	NG a	23.3 ± 2.4 b	43.5 ± 1.4 b	47.5 ± 0.3 c	47.5 ± 0.3 c	47.5 ± 0.3 c		
K2	3.3 ± 1.3 b	41.0 ± 0.7 c	48.3 ± 0.9 b	48.5 ± 0.6 c	48.5 ± 0.6 c	48.5 ± 0.6 c		
<i>Solanum lycopersicum</i> L.								
LEAF (10^{-3})		NG a	NG a	0.5 ± 0.5 a	1.8 ± 0.5 a	4.5 ± 1.2 a		
LEAF (10^{-4})		2.0 ± 0.4 ab	15.5 ± 0.6 bc	31.8 ± 1.7 b	38.3 ± 1.7 bc	38.3 ± 1.7 bc		
10 ⁻³		1.3 ± 0.9 ab	12.0 ± 0.9 b	34.0 ± 0.9 b	36.5 ± 0.9 b	36.5 ± 0.9 b		
10 ⁻⁵		7.0 ± 2.0 bc	15.0 ± 0.8 bc	32.0 ± 3.1 b	41.0 ± 0.4 c	41.0 ± 0.4 c		
K1		5.3 ± 1.9 ab	16.0 ± 1.1 c	35.8 ± 1.7 b	41.3 ± 1.1 c	41.3 ± 1.1 c		
K2		11.8 ± 1.9 c	31.3 ± 1.1 d	44.8 ± 0.8 c	46.3 ± 0.5 d	46.3 ± 0.5 d		
<i>Valerianella locusta</i> Laterr.								
LEAF (10^{-3})		NG a	0.5 ± 0.3 a					
10 ⁻³		NG a	2.8 ± 1.3 b	24.5 ± 1.7 b	24.8 ± 1.5 b	24.8 ± 1.5 b		
10 ⁻⁵		NG a	3.5 ± 0.9 b	19.8 ± 2.8 b	21.0 ± 2.5 b	21.0 ± 2.5 b		
K1		0.5 ± 0.3 a	3.8 ± 0.9 b	25.5 ± 1.9 b	26.8 ± 2.1 b	26.8 ± 2.1 b		

K2	1.3 ± 0.5 a	24.0 ± 1.6 c	35.0 ± 1.8 c	35.3 ± 2.1 c	35.3 ± 2.1 c
Data are means ± standard error. Means followed by different letters across the variety (within columns) are significantly different ($p < 0.05$). NG; not germinated, K2; control 2 (100% H ₂ O), K1; control 1 (0.17% DMSO (Dimethyl sulfoxide) and 0.17% EtOH (Ethanol) dissolved in H ₂ O), LEAF (10 ⁻³); leaf extract dissolved in (0.17% DMSO and 0.17% EtOH in H ₂ O) with juglone content measured at 10 ⁻³ M, LEAF (10 ⁻⁴); leaf extract dissolved in (0.17% DMSO and 0.17% EtOH in H ₂ O) with juglone content measured at 10 ⁻⁴ M, 10 ⁻³ ; standard of juglone dissolved in (0.17% DMSO and 0.17% EtOH in H ₂ O) with juglone content at 10 ⁻³ M, 10 ⁻⁴ ; standard of juglone dissolved in (0.17% DMSO and 0.17% EtOH in H ₂ O) with juglone content at 10 ⁻⁴ M, 10 ⁻⁵ ; standard of juglone dissolved in (0.17% DMSO and 0.17% EtOH in H ₂ O) with juglone content at 10 ⁻⁵ M.					

Table S2. Length of the seedlings in different days of germination

	day 3	day 5	day 7	day 9	day 11
<i>Lactuca sativa</i> L.					
LEAF (10 ⁻³)	9.01 ± 0.71 b	12.70 ± 1.11 b	19.25 ± 1.55 b		
10 ⁻³	5.66 ± 0.91 a	7.03 ± 0.87 a	13.32 ± 2.44 a		
10 ⁻⁴	25.26 ± 0.62 c	33.38 ± 1.14 c	50.37 ± 1.39 c		
10 ⁻⁵	25.59 ± 0.68 c	33.66 ± 1.17 c	50.12 ± 1.49 c		
K1	24.48 ± 0.73 c	33.16 ± 0.73 c	51.34 ± 1.46 c		
K2	27.16 ± 0.29 c	34.40 ± 0.71 c	52.36 ± 1.62 c		
<i>Lens culinaris</i> Medik.					
LEAF (10 ⁻³)	12.86 ± 0.63 a	15.43 ± 0.51 a	27.02 ± 0.92 a	34.88 ± 1.13 a	
10 ⁻³	13.74 ± 0.47 a	20.83 ± 0.78 b	33.52 ± 1.40 b	47.53 ± 2.43 b	
10 ⁻⁵	14.58 ± 0.83 ab	24.21 ± 0.80 c	34.85 ± 1.16 b	50.94 ± 2.28 b	
K1	17.16 ± 0.87 bc	22.85 ± 0.74 bc	40.57 ± 1.99 c	59.63 ± 4.52 c	
K2	19.79 ± 0.66 c	24.52 ± 0.59 c	44.67 ± 2.84 c	58.56 ± 3.46 c	
<i>Brassica rapa</i> L. var. <i>japonica</i>					
LEAF (10 ⁻³)	3.86 ± 0.58 a	4.92 ± 0.55 a	9.66 ± 0.42 a		
10 ⁻³	6.02 ± 1.02 b	8.71 ± 1.26 b	31.65 ± 1.74 b		
10 ⁻⁵	14.22 ± 1.13 cd	21.07 ± 0.80 c	51.39 ± 3.85 c		
K1	11.87 ± 0.91 c	22.03 ± 0.71 c	60.47 ± 5.86 c		
K2	17.15 ± 0.84 d	21.54 ± 0.95 c	54.33 ± 4.54 c		
<i>Solanum lycopersicum</i> L.					
LEAF (10 ⁻³)	NG a	4.90 ± 0.80 a	6.16 ± 1.36 a	7.56 ± 0.43 a	
LEAF (10 ⁻⁴)	6.97 ± 0.29 c	32.12 ± 2.08 c	66.87 ± 5.17 c	85.71 ± 2.69 d	
10 ⁻³	4.26 ± 0.37 b	20.86 ± 1.84 b	30.23 ± 1.14 b	48.33 ± 1.76 b	
10 ⁻⁵	6.98 ± 0.24 c	32.81 ± 2.19 c	59.02 ± 4.25 c	71.45 ± 3.44 c	

K1	7.03 ± 0.41 c	32.42 ± 2.09 c	69.62 ± 6.43 c	85.80 ± 4.27 d
K2	11.12 ± 0.33 d	38.01 ± 1.83 c	75.81 ± 6.85 c	94.13 ± 4.63 d

Data are means ± standard error. Means followed by different letters across the variety (within columns) are significantly different ($p < 0.05$). NG; not germinated, K2; control 2 (100% H₂O), K1; control 1 (0.17% DMSO (Dimethyl sulfoxide) and 0.17% EtOH (Ethanol) dissolved in H₂O), LEAF (10⁻³); leaf extract dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content measured at 10⁻³ M, LEAF (10⁻⁴); leaf extract dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content measured at 10⁻⁴ M, 10⁻³; standard of juglone dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content at 10⁻³ M, 10⁻⁴; standard of juglone dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content at 10⁻⁴ M, 10⁻⁵; standard of juglone dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content at 10⁻⁵ M.

Table S3. Root and shoot lenght of the seedlings of *Solanum lycopersicum* L. and *Lens culinaris* Medik. on the last day of the measurments

	day 9		day 11	
	shoot lenght (mm)	root lenght (mm)	shoot lenght (mm)	root lenght (mm)
<i>Lens culinaris</i> Medik.				
LEAF (10 ⁻³)	18.87 ± 1.22 a	16.01 ± 0.84 a		
10 ⁻³	32.76 ± 1.86 b	14.78 ± 1.55 a		
10 ⁻⁵	25.03 ± 1.76 ab	25.91 ± 2.40 b		
K1	32.95 ± 3.22 b	26.68 ± 2.50 b		
K2	29.29 ± 2.16 b	29.3 ± 2.33 b		
<i>Solanum lycopersicum</i> L.				
LEAF (10 ⁻³)			3.26 ± 0.15 a	4.30 ± 0.44 a
LEAF (10 ⁻⁴)			38.14 ± 3.14 b	47.57 ± 1.32 d
10 ⁻³			39.40 ± 1.28 bc	8.93 ± 1.02 a
10 ⁻⁵			45.45 ± 2.31 bd	26.00 ± 1.57 b
K1			47.61 ± 2.68 cd	38.18 ± 2.80 c
K2			49.22 ± 1.51 d	44.91 ± 3.98 cd

Data are means ± standard error. Means followed by different letters across the variety (within columns) are significantly different ($p < 0.05$). NG; not germinated, K2; control 2 (100% H₂O), K1; control 1 (0.17% DMSO (Dimethyl sulfoxide) and 0.17% EtOH (Ethanol) dissolved in H₂O), LEAF (10⁻³); leaf extract dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content measured at 10⁻³ M, LEAF (10⁻⁴); leaf extract dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content measured at 10⁻⁴ M, 10⁻³; standard of juglone dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content at 10⁻³ M, 10⁻⁴; standard of juglone dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content at 10⁻⁴ M, 10⁻⁵; standard of juglone dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content at 10⁻⁵ M

Table S4. Individual compounds quantified in *Lens culinaris* Medik. at different days expressed as g/kg dry weight.

Compounds	LEAF (10 ⁻³)	10 ⁻³	10 ⁻⁵	K1	K2
phenyl butryryl glutamine	2.21 ± 0.04 a	2.42 ± 0.05 ab	2.91 ± 0.07 c	2.65 ± 0.11 bc	2.75 ± 0.09 c
kaempferol dirhamnoside dihexoside 1	2.73 ± 0.03 c	3.44 ± 0.04 d	2.48 ± 0.04 b	2.39 ± 0.04 b	2.10 ± 0.05 a
kaempferol glycoside. acylated hexoside	0.03 ± 0.00 a	0.07 ± 0.00 b	0.09 ± 0.00 c	0.09 ± 0.01 c	0.10 ± 0.00 c
kaempferol rhamnoside dihexoside	0.08 ± 0.00 c	0.04 ± 0.00 ab	0.03 ± 0.00 a	0.07 ± 0.01 bc	0.08 ± 0.00 c
kaempferol glycoside. acylated 1	0.53 ± 0.02 a	0.71 ± 0.02 b	0.94 ± 0.04 c	0.84 ± 0.01 bc	0.85 ± 0.06 bc
kaempferol glycoside. acylated rhamnoside 1	day 3	0.57 ± 0.01 b	0.45 ± 0.01 a	0.53 ± 0.01 b	0.57 ± 0.02 b
kaempferol trirhamnoside dihexoside 1		0.58 ± 0.01 d	0.39 ± 0.01 a	0.39 ± 0.01 ab	0.43 ± 0.01 b
kaempferol glycoside. acylated rhamnoside 2	0.26 ± 0.01 a	0.28 ± 0.01 a	0.33 ± 0.01 c	0.31 ± 0.01 bc	0.29 ± 0.00 ab
kaempferol trirhamnoside dihexoside 2	1.24 ± 0.05 a	1.32 ± 0.02 a	1.64 ± 0.05 b	1.54 ± 0.04 b	1.50 ± 0.04 b
kaempferol glycoside. acylated 2	0.05 ± 0.00 c	0.02 ± 0.00 a	0.04 ± 0.00 b	0.04 ± 0.00 b	0.04 ± 0.00 b
kaempferol dirhamnoside dihexoside 2	0.11 ± 0.00 a	0.11 ± 0.01 a	0.17 ± 0.01 b	0.16 ± 0.01 b	0.12 ± 0.00 a
phenyl butryryl glutamine	3.24 ± 0.02 a	3.26 ± 0.05 a	3.71 ± 0.04 b	3.74 ± 0.03 b	3.77 ± 0.15 b
kaempferol dirhamnoside dihexoside 1	1.56 ± 0.02 c	1.74 ± 0.04 d	1.08 ± 0.01 a	1.33 ± 0.01 b	1.15 ± 0.03 a
kaempferol glycoside. acylated hexoside	0.16 ± 0.03 ab	0.22 ± 0.02 b	0.14 ± 0.00 a	0.21 ± 0.01 ab	0.17 ± 0.01 ab
kaempferol rhamnoside dihexoside	0.15 ± 0.02 a	0.21 ± 0.01 b	0.17 ± 0.01 ab	0.17 ± 0.01 ab	0.18 ± 0.02 ab
kaempferol glycoside. acylated 1	0.85 ± 0.05 a	1.35 ± 0.06 c	1.14 ± 0.02 b	1.39 ± 0.04 c	1.27 ± 0.04 bc
kaempferol glycoside. acylated rhamnoside 1	day 5	0.75 ± 0.02 a	0.71 ± 0.02 a	0.81 ± 0.07 a	0.70 ± 0.02 a
kaempferol trirhamnoside dihexoside 1		0.59 ± 0.00 c	0.35 ± 0.00 a	0.38 ± 0.00 a	0.38 ± 0.01 a
kaempferol glycoside. acylated rhamnoside 2	0.59 ± 0.01 a	0.48 ± 0.01 b	0.44 ± 0.01 ab	0.46 ± 0.01 b	0.47 ± 0.02 b
kaempferol trirhamnoside dihexoside 2	1.90 ± 0.08 a	1.87 ± 0.03 a	1.85 ± 0.03 a	1.90 ± 0.05 a	1.88 ± 0.06 a
kaempferol glycoside. acylated 2	0.11 ± 0.02 b	0.04 ± 0.01 a	0.08 ± 0.00 ab	0.06 ± 0.00 a	0.11 ± 0.01 b
kaempferol dirhamnoside dihexoside 2	0.19 ± 0.03 a	0.14 ± 0.01 a	0.15 ± 0.00 a	0.15 ± 0.00 a	0.16 ± 0.01 a
phenyl butryryl glutamine	3.67 ± 0.15 a	3.99 ± 0.13 a	3.90 ± 0.07 a	3.98 ± 0.06 a	3.99 ± 0.07 a
kaempferol dirhamnoside dihexoside 1	1.34 ± 0.04 b	0.80 ± 0.02 a	0.81 ± 0.02 a	0.80 ± 0.02 a	0.88 ± 0.02 a
kaempferol glycoside. acylated hexoside	day 7	0.17 ± 0.02 a	0.31 ± 0.02 b	0.22 ± 0.01 a	0.16 ± 0.01 a
kaempferol rhamnoside dihexoside		0.11 ± 0.01 a	0.16 ± 0.01 b	0.15 ± 0.01 ab	0.16 ± 0.00 b
kaempferol glycoside. acylated 1	1.00 ± 0.02 a	1.56 ± 0.04 c	1.31 ± 0.05 b	1.34 ± 0.01 b	1.37 ± 0.05 b

kaempferol glycoside. acylated rhamnoside 1	0.72 ± 0.01 b	0.72 ± 0.01 b	0.62 ± 0.01 a	0.61 ± 0.01 a	0.64 ± 0.01 a
kaempferol trirhamnoside dihexoside 1	0.52 ± 0.01 d	0.28 ± 0.01 ab	0.29 ± 0.01 b	0.26 ± 0.01 a	0.38 ± 0.01 c
kaempferol glycoside. acylated rhamnoside 2	0.51 ± 0.01 b	0.56 ± 0.01 c	0.48 ± 0.01 ab	0.47 ± 0.01 a	0.51 ± 0.01 b
kaempferol trirhamnoside dihexoside 2	1.89 ± 0.04 b	1.73 ± 0.04 ab	1.60 ± 0.03 a	1.65 ± 0.01 a	1.85 ± 0.06 b
kaempferol glycoside. acylated 2	0.18 ± 0.01 b	0.09 ± 0.01 a	0.09 ± 0.00 a	0.08 ± 0.00 a	0.11 ± 0.01 a
kaempferol dirhamnoside dihexoside 2	0.18 ± 0.00 b	0.16 ± 0.01 ab	0.14 ± 0.00 a	0.15 ± 0.00 a	0.14 ± 0.01 a
phenyl butryryl glutamine	3.93 ± 0.04 b	3.77 ± 0.04 ab	3.79 ± 0.07 ab	3.92 ± 0.03 b	3.67 ± 0.09 a
kaempferol dirhamnoside dihexoside 1	0.51 ± 0.01 c	0.38 ± 0.02 a	0.39 ± 0.02 ab	0.50 ± 0.01 c	0.45 ± 0.01 bc
kaempferol glycoside. acylated hexoside	0.17 ± 0.02 a	0.24 ± 0.01 b	0.16 ± 0.01 a	0.16 ± 0.01 a	0.15 ± 0.01 a
kaempferol rhamnoside dihexoside	0.08 ± 0.01 a	0.12 ± 0.00 b	0.08 ± 0.01 ab	0.11 ± 0.01 ab	0.10 ± 0.01 ab
kaempferol glycoside. acylated 1	1.08 ± 0.00 a	1.31 ± 0.05 b	1.17 ± 0.03 ab	1.19 ± 0.02 ab	1.31 ± 0.05 b
kaempferol glycoside. acylated rhamnoside 1	day 10 0.52 ± 0.02 b	0.41 ± 0.01 a	0.40 ± 0.01 a	0.48 ± 0.00 b	0.40 ± 0.01 a
kaempferol trirhamnoside dihexoside 1	0.36 ± 0.00 d	0.12 ± 0.01 a	0.12 ± 0.00 a	0.18 ± 0.00 b	0.21 ± 0.01 c
kaempferol glycoside. acylated rhamnoside 2	0.51 ± 0.02 b	0.51 ± 0.00 b	0.45 ± 0.01 a	0.44 ± 0.01 a	0.53 ± 0.01 b
kaempferol trirhamnoside dihexoside 2	1.27 ± 0.07 ab	1.19 ± 0.02 a	1.16 ± 0.02 a	1.22 ± 0.04 ab	1.37 ± 0.03 b
kaempferol glycoside. acylated 2	0.19 ± 0.01 d	0.08 ± 0.00 a	0.11 ± 0.01 b	0.14 ± 0.00 c	0.13 ± 0.01 bc
kaempferol dirhamnoside dihexoside 2	0.13 ± 0.01 ab	0.12 ± 0.00 a	0.13 ± 0.01 ab	0.15 ± 0.00 b	0.14 ± 0.01 ab
phenyl butryryl glutamine	4.54 ± 0.07 b	3.97 ± 0.09 a	4.23 ± 0.07 ab	4.26 ± 0.10 ab	4.33 ± 0.08 b
kaempferol dirhamnoside dihexoside 1	0.53 ± 0.01 c	0.37 ± 0.02 a	0.35 ± 0.01 a	0.43 ± 0.02 b	0.36 ± 0.02 a
kaempferol glycoside. acylated hexoside	0.19 ± 0.02 a	0.21 ± 0.01 a	0.18 ± 0.01 a	0.17 ± 0.02 a	0.21 ± 0.01 a
kaempferol rhamnoside dihexoside	0.08 ± 0.01 a	0.13 ± 0.01 b	0.08 ± 0.01 a	0.11 ± 0.01 ab	0.13 ± 0.02 a
kaempferol glycoside. acylated 1	0.72 ± 0.04 a	0.12 ± 0.03 b	1.39 ± 0.02 c	1.18 ± 0.07 b	1.36 ± 0.02 c
kaempferol glycoside. acylated rhamnoside 1	day 13 0.65 ± 0.01 c	0.40 ± 0.01 ab	0.37 ± 0.01 a	0.45 ± 0.02 b	0.36 ± 0.01 a
kaempferol trirhamnoside dihexoside 1	0.31 ± 0.00 c	0.11 ± 0.00 a	0.11 ± 0.00 a	0.11 ± 0.00 a	0.15 ± 0.00 b
kaempferol glycoside. acylated rhamnoside 2	0.48 ± 0.01 b	0.47 ± 0.00 b	0.43 ± 0.00 a	0.45 ± 0.02 ab	0.46 ± 0.01 ab
kaempferol trirhamnoside dihexoside 2	1.20 ± 0.03 a	1.04 ± 0.08 a	1.07 ± 0.02 a	1.09 ± 0.04 a	1.08 ± 0.02 a
kaempferol glycoside. acylated 2	0.29 ± 0.01 b	0.09 ± 0.02 a	0.10 ± 0.00 a	0.14 ± 0.02 a	0.11 ± 0.00 a
kaempferol dirhamnoside dihexoside 2	0.23 ± 0.02 b	0.11 ± 0.01 a	0.15 ± 0.01 a	0.16 ± 0.02 ab	0.14 ± 0.00 a

Data are means \pm standard error. Means followed by different letters across different days and the treatment (within rows of days) are significantly different ($p < 0.05$). NG; not germinated, K2; control 2 (100% H₂O), K1; control 1 (0.17% DMSO (Dimethyl sulfoxide) and 0.17% EtOH (Ethanol) dissolved in H₂O), LEAF (10⁻³); leaf extract dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content measured at 10⁻³ M, LEAF (10⁻⁴); leaf extract dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content measured at 10⁻⁴ M, 10⁻³; standard of juglone dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content at 10⁻³ M, 10⁻⁴; standard of juglone dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content at 10⁻⁵ M.

Table S5. Individual compounds quantified in *Lactuca sativa* L. at different days expressed as g/kg dry weight.

Compounds		LEAF (10 ⁻³)	10 ⁻⁴	10 ⁻⁵	K1	K2
4-hydroxyphenylaoyl glucoside derivative		1.15 \pm 0.03 a	1.32 \pm 0.07 ab	1.29 \pm 0.04 ab	1.31 \pm 0.03 ab	1.40 \pm 0.08 b
neochlorogenic acid		0.25 \pm 0.01 b	0.09 \pm 0.01 a	0.08 \pm 0.01 a	0.09 \pm 0.01 a	0.12 \pm 0.02 a
dyhydroxybenzoic acid hexoside		0.39 \pm 0.01 a	0.73 \pm 0.06 c	0.51 \pm 0.01 ab	0.51 \pm 0.01 ab	0.69 \pm 0.08 bc
chlorogenic acid		1.37 \pm 0.06 a	2.30 \pm 0.06 c	1.87 \pm 0.05 b	2.31 \pm 0.06 c	1.98 \pm 0.05 b
caffeic acid	day 5	0.42 \pm 0.01 b	0.16 \pm 0.02 a	0.16 \pm 0.00 a	0.18 \pm 0.01 a	0.21 \pm 0.02 a
quercetin-3-O-glucoronide		1.28 \pm 0.12 b	0.11 \pm 0.03 a	0.13 \pm 0.01 a	0.09 \pm 0.01 a	0.21 \pm 0.04 a
3,5-dicaffeoylquinic acid		6.29 \pm 0.13 c	4.70 \pm 0.11 b	4.72 \pm 0.05 b	4.11 \pm 0.09 a	5.12 \pm 0.14 b
lactucin-15-oxalate		0.91 \pm 0.02 bc	0.87 \pm 0.03 ab	0.80 \pm 0.01 a	0.99 \pm 0.02 c	0.97 \pm 0.03 c
caffeoyletaric acid hexoside		5.98 \pm 0.14 bc	5.77 \pm 0.18 ab	5.29 \pm 0.06 a	6.53 \pm 0.12 c	6.43 \pm 0.21 c
4-hydroxyphenylaoyl glucoside derivative		2.16 \pm 0.08 a	2.31 \pm 0.05 ab	2.37 \pm 0.04 ab	2.46 \pm 0.04 b	2.42 \pm 0.11 ab
neochlorogenic acid		0.37 \pm 0.04 b	0.07 \pm 0.00 a	0.06 \pm 0.00 a	0.08 \pm 0.00 a	0.07 \pm 0.01 a
dyhydroxybenzoic acid hexoside		0.54 \pm 0.07 a	0.39 \pm 0.04 a	0.39 \pm 0.01 a	0.46 \pm 0.01 a	0.40 \pm 0.04 a
chlorogenic acid		1.45 \pm 0.06 a	1.71 \pm 0.03 b	1.69 \pm 0.02 b	1.78 \pm 0.04 b	1.42 \pm 0.09 a
caffeic acid	day 7	0.58 \pm 0.03 b	0.19 \pm 0.00 a	0.20 \pm 0.00 a	0.21 \pm 0.01 a	0.19 \pm 0.01 a
quercetin-3-O-glucoronide		1.10 \pm 0.09 b	0.11 \pm 0.03 a	0.06 \pm 0.00 a	0.24 \pm 0.03 a	0.04 \pm 0.00 a
3,5-dicaffeoylquinic acid		5.49 \pm 0.26 b	3.30 \pm 0.05 a	3.30 \pm 0.04 a	3.38 \pm 0.08 a	3.27 \pm 0.19 a
lactucin-15-oxalate		0.91 \pm 0.05 a	0.94 \pm 0.01 a	0.96 \pm 0.03 a	1.05 \pm 0.03 a	0.99 \pm 0.07 a
caffeoyletaric acid hexoside		5.98 \pm 0.31 a	6.23 \pm 0.04 a	6.31 \pm 0.17 a	6.95 \pm 0.20 a	6.51 \pm 0.44 a
4-hydroxyphenylaoyl glucoside derivative		3.25 \pm 0.13 d	1.49 \pm 0.01 a	2.73 \pm 0.07 bc	3.06 \pm 0.09 cd	2.39 \pm 0.17 b
neochlorogenic acid	day 9	0.07 \pm 0.01 b	0.02 \pm 0.00 a	0.06 \pm 0.01 ab	0.06 \pm 0.00 ab	0.23 \pm 0.01 c
dyhydroxybenzoic acid hexoside		0.41 \pm 0.02 b	0.32 \pm 0.01 a	0.41 \pm 0.01 ab	0.38 \pm 0.02 ab	0.56 \pm 0.03 c

chlorogenic acid	1.71 ± 0.10 d	0.52 ± 0.02 a	1.43 ± 0.03 c	1.50 ± 0.05 cd	0.97 ± 0.06 b
caffeiic acid	0.42 ± 0.03 d	0.15 ± 0.01 a	0.24 ± 0.01 b	0.30 ± 0.01 bc	0.35 ± 0.02 c
quercetin-3-O-glucoronide	1.34 ± 0.07 b	0.10 ± 0.02 a	0.12 ± 0.02 a	0.11 ± 0.03 a	0.21 ± 0.04 a
3,5-dicaffeoylquinic acid	3.23 ± 0.14 c	1.00 ± 0.01 a	2.53 ± 0.05 b	2.63 ± 0.15 b	2.94 ± 0.05 bc
lactucin-15-oxalate	0.91 ± 0.04 d	0.21 ± 0.01 a	0.73 ± 0.03 bc	0.87 ± 0.04 cd	0.70 ± 0.04 d
caffeoyletaric acid hexoside	5.99 ± 0.25 d	1.38 ± 0.09 a	4.85 ± 0.18 bc	5.75 ± 0.23 cd	4.60 ± 0.25 b

Data are means \pm standard error. Means followed by different letters across different days and the treatment (within rows of days) are significantly different ($p < 0.05$). NG; not germinated. K2; control 2 (100% H₂O). K1; control 1 (0.17% DMSO (Dimethyl sulfoxide) and 0.17% EtOH (Ethanol) dissolved in H₂O). LEAF (10⁻³); leaf extract dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content measured at 10⁻³ M. LEAF (10⁻⁴); leaf extract dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content measured at 10⁻⁴ M. 10⁻³; standard of juglone dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content at 10⁻³ M. 10⁻⁴; standard of juglone dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content at 10⁻⁴ M. 10⁻⁵; standard of juglone dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content at 10⁻⁵ M.

Table S6. Individual compounds quantified in *Solanum lycopersicum* L. at different days expressed as g/kg dry weight.

Compounds	LEAF (10 ⁻⁴)	10 ⁻³	10 ⁻⁵	K1	K2
caffeoylethic acid 1	0.39 ± 0.01 a	0.43 ± 0.01 a	0.44 ± 0.02 a	0.40 ± 0.01 a	0.60 ± 0.01 b
phenyl butryryl glutamine	1.39 ± 0.07 b	1.06 ± 0.06 a	1.37 ± 0.09 b	1.00 ± 0.02 a	1.42 ± 0.05 b
caffeoylethic acid 2	0.72 ± 0.01 b	0.72 ± 0.04 b	0.68 ± 0.02 ab	0.59 ± 0.01 a	0.59 ± 0.00 a
decetyllosperuloside derivative 1	0.45 ± 0.01 a	0.48 ± 0.03 a	0.58 ± 0.02 b	0.47 ± 0.03 ab	0.49 ± 0.01 a
caffeiic acid hexoside	0.10 ± 0.00 b	0.07 ± 0.01 a	0.12 ± 0.01 b	0.10 ± 0.01 ab	0.11 ± 0.01 b
decetyllosperuloside derivative 2	Day 7	0.32 ± 0.01 bc	0.23 ± 0.01 a	0.42 ± 0.02 d	0.28 ± 0.03 ab
chlorogenic acid		3.56 ± 0.06 a	3.70 ± 0.04 a	4.64 ± 0.14 b	3.62 ± 0.06 a
cryptochlorogenic acid		0.07 ± 0.01 a	0.04 ± 0.01 a	0.12 ± 0.02 b	0.08 ± 0.01 ab
cummaroylquinnic acid 1		0.01 ± 0.00 a	0.12 ± 0.00 b	0.01 ± 0.00 a	0.01 ± 0.00 a
quercetin diglucoside		0.07 ± 0.00 ab	0.10 ± 0.01 c	0.08 ± 0.01 bc	0.06 ± 0.00 a
cummaroylquinnic acid 2		0.01 ± 0.00 ab	0.01 ± 0.00 a	0.04 ± 0.00 c	0.02 ± 0.00 b
indole-3-acetylasparagine acid		0.80 ± 0.01 bc	0.68 ± 0.01 a	0.74 ± 0.02 ab	0.68 ± 0.01 a
caffeoylethic acid 1		1.04 ± 0.08 bc	0.59 ± 0.02 a	1.12 ± 0.05 c	0.87 ± 0.01 b
phenyl butryryl glutamine		1.12 ± 0.08 b	1.50 ± 0.05 c	1.37 ± 0.05 bc	0.55 ± 0.02 a
caffeoylethic acid 2		0.57 ± 0.03 a	0.57 ± 0.01 a	0.50 ± 0.02 a	0.52 ± 0.03 a
					0.55 ± 0.04 a

decetyllosperuloside derivative 1	0.39 ± 0.03 b	0.52 ± 0.04 bc	0.66 ± 0.04 c	0.16 ± 0.03 a	0.83 ± 0.03 d
caffeic acid hexoside	0.09 ± 0.00 b	0.08 ± 0.01 b	0.12 ± 0.00 c	0.05 ± 0.01 a	0.13 ± 0.01 c
decetyllosperuloside derivative 2	0.33 ± 0.05 b	0.47 ± 0.06 bc	0.45 ± 0.04 bc	0.15 ± 0.03 a	0.56 ± 0.02 c
chlorogenic acid	2.59 ± 0.06 b	4.07 ± 0.07 c	3.92 ± 0.04 c	1.41 ± 0.02 a	4.46 ± 0.07 d
cryptochlorogenic acid	0.07 ± 0.02 ab	0.08 ± 0.01 ab	0.14 ± 0.00 bc	0.05 ± 0.00 a	0.20 ± 0.03 c
coummaroylquinnic acid 1	0.01 ± 0.00 a	0.09 ± 0.00 b	0.01 ± 0.00 a	0.01 ± 0.00 a	0.01 ± 0.00 a
quercetin diglucoside	0.04 ± 0.00 a	0.09 ± 0.01 b	0.06 ± 0.00 ab	0.03 ± 0.00 b	0.09 ± 0.02 a
coummaroylquinnic acid 2	0.01 ± 0.00 a	0.07 ± 0.01 c	0.03 ± 0.00 b	0.01 ± 0.00 a	0.04 ± 0.01 b
indole-3-acetylasparaginic acid	0.87 ± 0.01 b	0.80 ± 0.03 ab	0.85 ± 0.03 ab	0.74 ± 0.03 a	0.92 ± 0.04 b
cafeoyl hexanic acid 1	1.34 ± 0.07 b	0.79 ± 0.05 a	1.24 ± 0.02 b	1.33 ± 0.10 b	1.75 ± 0.11 c
phenyl butryryl glutamine	1.45 ± 0.06 c	0.98 ± 0.08 a	1.04 ± 0.04 ab	1.02 ± 0.15 ab	1.38 ± 0.08 bc
cafeoyl hexanic acid 2	0.51 ± 0.03 a	0.47 ± 0.03 a	0.43 ± 0.01 a	0.46 ± 0.02 a	0.43 ± 0.03 a
decetyllosperuloside derivative 1	0.56 ± 0.03 ab	0.37 ± 0.07 a	0.46 ± 0.01 ab	0.69 ± 0.08 bc	0.86 ± 0.05 c
caffeic acid hexoside	0.09 ± 0.00 a	0.10 ± 0.02 a	0.11 ± 0.00 a	0.12 ± 0.01 a	0.11 ± 0.02 a
decetyllosperuloside derivative 2	0.38 ± 0.02 c	0.23 ± 0.02 a	0.29 ± 0.02 ab	0.32 ± 0.02 bc	0.32 ± 0.03 bc
chlorogenic acid	3.05 ± 0.10 ab	2.55 ± 0.07 a	3.61 ± 0.06 b	4.29 ± 0.10 c	4.32 ± 0.29 c
cryptochlorogenic acid	0.14 ± 0.02 a	0.10 ± 0.01 a	0.12 ± 0.01 a	0.20 ± 0.04 a	0.13 ± 0.02 a
coummaroylquinnic acid 1	0.01 ± 0.00 a	0.09 ± 0.00 b	0.04 ± 0.00 a	0.01 ± 0.00 a	0.00 ± 0.00 a
quercetin diglucoside	0.08 ± 0.02 a	0.05 ± 0.01 a	0.05 ± 0.01 a	0.11 ± 0.04 a	0.07 ± 0.00 a
coummaroylquinnic acid 2	0.04 ± 0.00 ab	0.02 ± 0.00 a	0.05 ± 0.00 ab	0.06 ± 0.01 b	0.04 ± 0.00 ab
indole-3-acetylasparaginic acid	0.92 ± 0.03 a	0.82 ± 0.02 a	0.89 ± 0.02 a	0.95 ± 0.06 a	0.98 ± 0.06 a
cafeoyl hexanic acid 1	1.57 ± 0.07 b	1.13 ± 0.05 a	1.40 ± 0.03 b	1.20 ± 0.03 a	1.59 ± 0.04 b
phenyl butryryl glutamine	1.04 ± 0.07 b	0.94 ± 0.04 b	0.81 ± 0.08 b	0.39 ± 0.03 a	0.20 ± 0.02 a
cafeoyl hexanic acid 2	0.51 ± 0.03 d	0.41 ± 0.02 c	0.32 ± 0.02 b	0.30 ± 0.01 b	0.21 ± 0.01 a
decetyllosperuloside derivative 1	0.53 ± 0.02 c	0.50 ± 0.03 c	0.53 ± 0.01 c	0.39 ± 0.03 b	0.15 ± 0.02 a
caffeic acid hexoside	0.08 ± 0.00 c	0.07 ± 0.01 bc	0.12 ± 0.01 d	0.05 ± 0.01 b	0.02 ± 0.00 a
decetyllosperuloside derivative 2	0.38 ± 0.01 d	0.22 ± 0.02 bc	0.31 ± 0.03 cd	0.20 ± 0.03 b	0.04 ± 0.01 a
chlorogenic acid	2.97 ± 0.01 d	2.77 ± 0.04 c	3.58 ± 0.06 e	2.55 ± 0.03 b	0.87 ± 0.03 a
cryptochlorogenic acid	0.10 ± 0.01 b	0.08 ± 0.01 ab	0.14 ± 0.01 c	0.08 ± 0.00 ab	0.05 ± 0.00 a

coummaroylquinnic acid 1	0.00 ± 0.00 a	0.08 ± 0.00 b	0.00 ± 0.00 a	0.00 ± 0.00 a	0.00 ± 0.00 a
quercetin diglucoside	0.05 ± 0.00 b	0.07 ± 0.00 c	0.05 ± 0.00 b	0.04 ± 0.00 ab	0.03 ± 0.00 a
coummaroylquinnic acid 2	0.03 ± 0.00 b	0.04 ± 0.01 c	0.02 ± 0.00 b	0.01 ± 0.00 ab	0.00 ± 0.00 a
indole-3-acetylasparaginic acid	0.90 ± 0.04 ab	0.96 ± 0.03 b	0.83 ± 0.04 ab	0.86 ± 0.02 ab	0.80 ± 0.04 a

Data are means ± standard error. Means followed by different letters across different days and the treatment (within rows of days) are significantly different ($p < 0.05$). NG; not germinated. K2; control 2 (100% H₂O). K1; control 1 (0.17% DMSO (Dimethyl sulfoxide) and 0.17% EtOH (Ethanol) dissolved in H₂O). LEAF (10⁻³); leaf extract dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content measured at 10⁻³ M. LEAF (10⁻⁴); leaf extract dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content measured at 10⁻⁴ M. 10⁻³; standard of juglone dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content at 10⁻³ M. 10⁻⁴; standard of juglone dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content at 10⁻⁴ M. 10⁻⁵; standard of juglone dissolved in (0.17% DMSO and 0.17% EtOH in H₂O) with juglone content at 10⁻⁵ M.