

Table S1: Coefficients of variation (CV) of replicate measurements for standard mixtures at different concentrations and leaf sample.

Number	Substance	CV (calibration standards)*						CV (leaf sample)*	
		100 pg/µL	250 pg/µL	375 pg/µL	500 pg/µL	750 pg/µL	1000 pg/µL	Initial analysis	analysis after 2 days
1	¹³ C ₆ -jasmonic acid-isoleucine (¹³ C ₆ -JA-Ile)	0.091	0.068	0.054	0.041	0.039	0.031	0.043	0.061
2	Jasmonic acid-isoleucine (JA-Ile)	0.097	0.072	0.048	0.034	0.045	0.033	0.066	0.072
3	² H ₄ -salicylic acid (² H ₄ -SA)	0.092	0.037	0.035	0.035	0.04	0.025	0.027	0.045
4	Salicylic acid (SA)	0.091	0.089	0.056	0.031	0.043	0.022	0.043	0.059
5	² H ₆ -abscisic acid (² H ₆ -ABA)	0.058	0.047	0.036	0.036	0.06	0.019	0.048	0.051
8	Abscisic acid (ABA)	0.037	0.027	0.033	0.02	0.056	0.014	0.041	0.049
7	Indole-3-carboxylic acid (ICA)	0.094	0.093	0.066	0.052	0.041	0.017	-	-
8	Royal jelly acid (Tr IS)	0.088	0.076	0.031	0.026	0.063	0.037	0.045	0.047
9	Cinnamic acid (CA)	0.048	0.043	0.034	0.015	0.053	0.008	-	-
10	Jasmonic acid (JA)	0.04	0.071	0.031	0.018	0.047	0.006	0.017	0.015
11	Traumatol	0.097	0.091	0.061	0.013	0.01	0.018	-	-
13	Indole-3-acetic acid (IAA)	0.084	0.099	0.088	0.052	0.051	0.035	-	-
14	Traumatin	0.096	0.094	0.067	0.054	0.021	0.021	0.091	0.087
15	9,10- ² H ₂ -dihydro-jasmonic acid (D ₂ -JA)	0.048	0.06	0.032	0.025	0.046	0.009	0.021	0.022
16	Traumatic acid	0.081	0.073	0.055	0.046	0.039	0.023	0.062	0.068
17	Hexadecatrienoic acid (16:3)	0.051	0.09	0.014	0.018	0.05	0.006	0.087	0.082
18	(9S, 13S)-12-oxo-phytodienoic acid (OPDA)	0.048	0.074	0.062	0.045	0.044	0.021	0.045	0.098
19	Hexadecadienoic acid (16:2)	0.083	0.081	0.054	0.033	0.039	0.024	-	-
20	Gibberellin A ₃ (GA ₃)	0.086	0.068	0.059	0.047	0.043	0.034	-	-
12	² H ₂ -OPC 8:0	0.098	0.096	0.068	0.052	0.052	0.021	0.018	0.024
21	Linolenic acid (18:3)	0.054	0.08	0.031	0.037	0.043	0.025	0.053	0.048
22	Hexadecenoic acid (16:1)	0.095	0.096	0.074	0.049	0.051	0.036	0.072	0.058
23	Heptadecenoic acid (17:1)	0.06	0.063	0.046	0.053	0.046	0.018	0.016	0.016
24	Linoleic acid (18:2)	0.087	0.081	0.069	0.061	0.051	0.038	0.05	0.043
25	Hexadecanoic acid (16:0)	0.089	0.011	0.05	0.031	0.061	0.03	0.021	0.024
26	Octadecenoic acid (18:1)	0.095	0.092	0.081	0.036	0.012	0.011	0.028	0.031
27	Heptadecanoic acid (17:0)	0.055	0.061	0.041	0.06	0.041	0.016	0.01	0.011
28	Stearic acid (18:0)	0.044	0.08	0.073	0.061	0.036	0.023	0.007	0.015

* CVs were calculated based on 10 injections for each sample.

Table S2. Analysis of derivatized *N.attenuata* leaf extracts after multiple extractions and calculation of recovery rates (*n*=10)

Substance	control	W+FAC (60 min)		Recovery rates
	ng gFW ⁻¹ (±SD)	ng gFW ⁻¹ (±SD)	[%]	
JA-Ile	-	114 (± 9.8)		98.3
SA	184 (± 15)	153 (± 13)		98.2
ABA	233 (± 14)	264 (± 11)		98.7
ICA	-	-		
CA	-	-		
JA	295 (± 22)	4380 (± 67)		99.5
Traumatal	-	-		
dOPDA	-	-		
IAA	-	-		
Traumatin	11.3 (± 0.6)	17.7 (± 0.9)		100
Tr. acid**	-	25.2 (± 1.8)		100
16:3	29.6 (± 2.4)	41.4 (± 3.5)		100
OPC-4:0	-	13.1 (± 1.0)		100
OPC-6:0	-	18.9 (± 1.5)		100
OPDA	99.3 (± 6.7)	254 (± 14)		97.6
16:2	-	-		
GA ₃	-	-		
OPC-8:0	-	-		
GA ₄	-	-		
18:3	445 (± 21)	399 (± 13)		99
16:1	44 (± 2.5)	79 (± 6)		100
18:2	253 (± 21)	297 (± 19)		98.4
16:0	19300 (± 1800)	16800 (± 1300)		99.3
18:1	638 (± 51)	705 (± 35)		98.6
18:0	57600 (± 2800)	47200 (± 1200)		

**: Traumatic acid

Table S3: Analysis of different amounts of *N. attenuata* leaf material (*n*=2)

Substance	mass leaf tissue							
	5 mg	10 mg	30 mg	50 mg	100 mg	150 mg	200 mg	
JA-Ile	-	-	-	-	9.14 (± 0.27)	17.5 (± 1.0)	24.8 (± 0.32)	35.6 (± 1.8)
SA	0.92 (± 0.15)	2.16 (± 0.28)	6.26 (± 0.69)	7.5 (± 0.19)	14.4 (± 0.6)	17.5 (± 2.0)	26.7 (± 0.3)	
ABA	0.94 (± 0.003)	2.95 (± 0.15)	7.4 (± 0.58)	15.2 (± 1.6)	30.4 (± 3.6)	42.7 (± 1.7)	62.1 (± 5.7)	
ICA	-	-	-	-	-	-	-	-
CA	-	-	-	-	-	-	-	-
JA	62.0 (± 0.2)	83.0 (± 18)	123 (± 13)	229 (± 21)	540 (± 4.5)	748 (± 8)	949 (± 15)	
Traumatol	-	-	-	-	-	-	-	-
d _n OPDA	-	-	-	-	-	-	-	-
IAA	-	-	-	-	-	-	-	-
Traumatin	-	-	-	-	-	1.67 (± 0.08)	2.71 (± 0.18)	
Tr. acid**	-	-	-	-	-	3.0 (± 0.14)	4.44 (± 0.47)	
16:3	0.73 (± 0.10)	1.38 (± 0.07)	1.53 (± 0.05)	3.12 (± 0.19)	6.37 (± 0.11)	9.02 (± 1.22)	16.8 (± 0.98)	
OPC-4:0	-					3.01 (± 0.13)	3.61 (± 0.09)	
OPC-6:0	-					1.17 (± 0.10)	2.38 (± 0.15)	
OPDA	1.32 (± 0.58)	2.96 (± 0.23)	9.21 (± 0.44)	13.1 (± 1.42)	33.0 (± 6)	49.2 (± 6.7)	65.1 (± 0.5)	
16:2	-	-	-	-	-	-	-	-
GA ₃	-	-	-	-	-	-	-	-
OPC-8:0	-	-	-	-	-	-	-	-
GA ₄	-	-	-	-	-	-	-	-
18:3	5.16 (± 0.32)	7.13 (± 1.41)	9.92 (± 0.07)	21.1 (± 1.73)	39.3 (± 0.1)	60.9 (± 7.3)	79.1 (± 0.7)	
16:1	1.5 (± 0.017)	3.26 (± 0.48)	4.34 (± 0.12)	6.82 (± 0.50)	12.7 (± 0.3)	18.9 (± 1.6)	25.6 (± 0.5)	
18:2	5.35 (± 0.006)	9.33 (± 1.23)	16.5 (± 2.3)	19.2 (± 1.45)	36.4 (± 1.4)	56.7 (± 4.7)	71 (± 1.4)	
16:0	57 (± 13)	140 (± 8)	470 (± 40)	868 (± 15)	1608 (± 151)	2258 (± 61)	2949 (± 131)	
18:1	3.34 (± 0.56)	5.46 (± 0.51)	8.16 (± 0.91)	20.8 (± 2.5)	58 (± 4)	82.7 (± 3.8)	114 (± 8)	
18:0	209 (± 37)	463 (± 12)	731 (± 2)	2178 (± 76)	4476 (± 168)	6070 (± 34)	8705 (± 69)	

**: Traumatic acid