



Digital supplementary material to

ARÊDES, A., RODRÍGUEZ, J., BAILEZ, O. DOS SANTOS LIMA, J.C., CANELA, M.C. & VIANA-BAILEZ, A.M. 2022: Aversive learning as a behavioural mechanism of plant selection in the leaf-cutting ant *Atta sexdens* (Hymenoptera: Formicidae). – Myrmecological News 32: 65-73.

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Table S1: Relative percentage area of compounds chemical of fungus gardens of *Atta sexdens* subcolonies fed with leaves of *Rosa alba* (0h), *Rosa alba* with distilled water (48h) and *Rosa alba* with fungicide (48h)

Compounds	Relative percentage area		
	Subcolonies fed with <i>Rosa alba</i> leaves (0h) ◆	Subcolonies fed with <i>Rosa alba</i> leaves + distilled water (48h) ■	Subcolonies fed with <i>Rosa alba</i> leaves + fungicide (48h) ●
Alkanes			
Dodecane	0,2700	0,4100	0,4167
6-Methyldodecane	0,3767	0,5533	0,3200
Tridecane	1,5100	2,3133	1,9267
3-Methyltridecane	0,6133	0,9467	0,6533
6-Methyltridecane	0,4433	0,7100	0,5467
Tetradecane	1,7100	2,7233	2,3467
Pentadecane	0,8467	1,3667	1,0767
2,6,10-Trimethylpentadecane	0,6100	0,9367	0,7033
Hexadecane	0,3333	0,5600	0,4567
Heptadecane	0,5400	0,9233	0,6300
Eicosane	5,4367	2,1367	2,5767
Heneicosane	0,2600	0,4200	1,7067
Heptacosane	0,4167	0,3967	0,6900
Nonacosane	6,8133	4,5000	9,4633
Hentriacontane	10,6867	5,9900	14,2833
9,13-Dimethylhentriacontane	0,2867	0,4200	0,3700
8,12-Dimethyldotriacontane	1,1800	1,7300	1,0067
Tritriacontane	9,7933	1,6167	9,8633
9,11-Dimethyltritriacontane	1,0267	1,8233	1,1233
Acids			
n-Hexadecanoic acid	8,6967	7,4600	5,9867
9,12-Octadecadienoic acid (Z,Z)	6,1933	11,7767	4,6667
9,12,15-Octadecatrienoic acid (Z,Z,Z)	2,5700	-	1,7880
Alkenes			
1-Heptacosene	1,8900	0,533	3,683
Aldehydes			
Hexadecanal	0,0767	0,0267	-
Triacontanal	1,2600	1,153	1,440
Terpenoids			
Squalene	1,5933	4,497	1,317

In the table there are no compounds considered to be of plant origin, nor unidentified compounds that were not found in at least 50% of the samples.