

## Supplementary data

**Table S.1** Removal efficiencies of TMA (%) at different time (h) in light and dark conditions from 8 types of plant within 72 h.

Time (h)	Control						<i>Peperomia magnoliifolia</i>						<i>Prickly pear cactus</i>						<i>Dracaena sanderiana</i> Sander						<i>C. hexagonus (L.)</i> Mill.					
	Removal (%)			SD			Removal (%)			SD			Removal (%)			SD			Removal (%)			SD			Removal (%)			SD		
	L	F	D	L	F	D	L	F	D	L	F	D	L	F	D	L	F	D	L	F	D	L	F	D	L	F	D	L	F	D
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	3.6	0	0	9.3	1.8	7.6	4.7	5.5	13	0	0.1	1.1	28.2	38.8	22.7	2.4	10.5	3.2	21.8	22.8	8.9	0.3	2.3	1.6	42.5	21.9	22.2	3	2.7	3
4	0	1.9	0.1	5.5	0.6	4.9	18.4	19.3	18.6	8.1	2.4	4.2	32.4	49	34.6	7	5.5	6.3	28.8	24.2	19.3	2.2	2.6	1	60.1	39.8	43.5	5.9	1.2	7.9
8	2.4	5.4	0.3	7.1	3.2	3.9	25.4	26.1	19.7	8.2	1.5	0.1	51.4	65.8	52.2	9.2	5.4	8	52.5	33.6	32.8	0.1	7.6	1.8	80.0	54.7	65.5	2.4	2.4	7.3
12	5.3	7.2	5.4	6.4	0.7	5.8	33.1	37.9	22	8.7	1.3	3	62	81	57	10	2.9	11	61	41.5	36.9	1.5	5.3	4.3	87.6	68.3	72.5	0.9	2.3	7.7
24	10.9	9.5	0	3.7	8.0	4.3	52.9	65.4	38.5	6.9	8.9	0.4	78.1	100	81.1	8.7	0	2.2	76	57.6	65.7	0.7	1.2	4.6	92.1	91.1	86.4	0.4	0	3.2
48	10.1	11.2	6.5	1.3	4.6	3.3	78.3	85.3	55.5	7.2	2.2	1.9	86.4	100	87.4	3.4	0	3.2	87.8	69.1	81.4	1.2	2.8	3.2	93.3	100	90.7	1.5	0	0.4
72	12.4	11.4	6.5	4.0	3.0	0.9	87.4	100	70.4	1.2	0	1.8	89.8	100	87.9	1.3	0	2.7	90.1	83.9	89	0.7	5.6	1.2	93.6	100	90.9	1.3	0	0.1
Time (h)	Control						<i>Dieffenbachia Camilla</i>						<i>Chlorophytum comosum</i>						<i>S. aureus</i>						<i>T. spathacea</i>					
	Removal (%)			SD			Removal (%)			SD			Removal (%)			SD			Removal (%)			SD			Removal (%)			SD		
	L	F	D	L	F	D	L	F	D	L	F	D	L	F	D	L	F	D	L	F	D	L	F	D	L	F	D	L	F	D
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	3.6	0	0	9.3	1.8	7.6	12.6	38.5	11.4	2.5	2.3	1.6	16.7	13.9	28.2	5.4	1.1	9.7	41.4	27.1	16.8	9.3	9.9	6.4	22.2	39.9	25	0.9	1.3	1.3
4	0	1.9	0.1	5.5	0.6	4.9	20	42.5	11.5	3.5	9.7	0.2	29	24.5	28.7	5.2	2.7	7.4	72.8	44.1	19	7.3	15	4.1	32.7	54.9	35.9	4.1	1	7.7
8	2.4	5.4	0.3	7.1	3.2	3.9	36.3	50.9	20.9	3	12	2	40.6	25.2	29.6	8.7	4	2.7	83.8	61.2	19.2	4.7	10	1.8	49	60.9	38.5	5.8	1.7	1.3
12	5.3	7.2	5.4	6.4	0.7	5.8	46.7	53.5	20.4	3.9	10.8	1.5	47.6	27.8	31.6	9.9	0.2	5.1	86.4	70.4	19.4	2.4	8.8	0.6	58.1	69.9	42.6	6.2	1	1.3
24	10.9	9.5	0	3.7	8.0	4.3	63.1	63.3	41.2	5.7	7.5	2.4	65.3	73	41.9	7.2	3.8	2.4	86.8	78.7	28.4	3.3	0.7	2.4	80.4	85	63.8	3.3	3.8	5.5
48	10.1	11.2	6.5	1.3	4.6	3.3	81.5	73.8	63.7	2.8	5.1	1.5	79.3	79.6	55	5.4	1.7	6.1	94.5	88.4	45.4	5.5	1.6	5	87.9	90.6	83	0	0.6	3.4
72	12.4	11.4	6.5	4.0	3.0	0.9	89.4	83.4	74	1.1	2.3	4.7	82.5	89.8	76	1.2	1.8	5.1	95.4	100	57.2	4.6	0	1.9	90.1	100	90.2	0.4	0	1.3

Note: L= LED condition, F= Fluorescent condition, D= Dark condition

**Table S.2** ANOVA at 24 h under 3 different light conditions of (a) 8 types of potted plant, (b) 4 types of potted plant (*Prickly pear cactus*, *C. hexagonus (L.) Mill.*, *T. spathacea*, *D. sanderiana* Sander.), and (c) 4 types of potted plant (*Chlorophytum comosum*., *Peperomia magnoliifolia*, *S. aureus*, *Dieffenbachia Camilla*).

(a)

SOV	df	SS	MS	F	Fcv
Light conditions	2	2087.48	1043.74	7.93	3.74
Species of plant	7	4051.87	578.84	4.40	2.67
Variance	14	1841.58	131.54		
Total	23	7980.94			

Treatment:  $F$  (observed value)  $>$   $F_{CV}$  (critical value) = different

Block:  $F$  (observed value)  $>$   $F_{CV}$  (critical value) = different

(b)

SOV	df	SS	MS	F	Fcv
Light conditions	2	189.49	94.75	1.07	5.14
Species of plant	3	1005.57	335.19	3.80	4.76
Variance	6	529.33	88.22		
Total	11	1724.40			

Treatment:  $F$  (observed value)  $<$   $F_{CV}$  (critical value) = equal

Block:  $F$  (observed value)  $<$   $F_{CV}$  (critical value) = equal

(c)

SOV	df	SS	MS	F	Fcv
Light conditions	2	2590.79	1295.39	12.55	5.14
Species of plant	3	254.92	84.97	0.82	4.76
Variance	6	619.45	103.24		
Total	11	3465.16			

Treatment:  $F$  (observed value)  $>$   $F_{CV}$  (critical value) = different

Block:  $F$  (observed value)  $<$   $F_{CV}$  (critical value) = equal