



# Supplementary material: Plant volatiles play differential roles in pre and post alighting phases in a specialist phytophagous insect

*Document complémentaire : Rôle différents des composés volatiles de plantes impliqués dans les phases pré- et post-atterrissage d'un insecte phytophage spécialiste*

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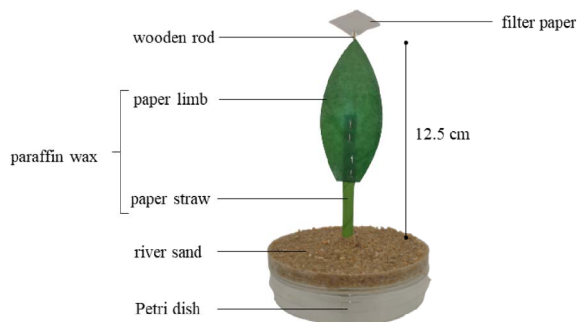
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**Supplementary Figure A.** Photograph of the artificial leaf device used for the behavioral experiments.

**Supplementary Table I.** Example of calculations of the global probability of exploration based on different values of the probability of pre- or post-contact effects

	Pre-contact Probability of being attracted to the leaf	×	Post-contact Probability of triggering to an exploratory behavior	=	Global Global probability of exploration
A	0		1		0
B	1		0		0
C	1		0.25		0.25
D	0.25		1		0.25
E	0.5		0.5		0.25

Case A: The global probability of exploration is zero, although the probability of inducing an exploration behavior is equal to 1.

Case B: The global probability of exploration is zero, even though the probability of being attracted to the leaf is equal to 1.

Cases C to E: The global probability of exploration is equivalent in the three cases, but mechanisms behind are different.