

Predator's odor influences aggressive behavior of **Reticulitermes termites in competition tests** Lucas C, Lefloch L, Dupont S, Christidès J-P, <u>Bagnères A-G</u>

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Hydrocarbon compounds (CHCs) are well known to be involved in numerous communication processes in insects and are particularly involved in the recognition and organization of social insects. The presence of CHCs in near environment are clues potentially used to assess predators or competitors. We investigated to know if the presence of a predator's odor (Lasius niger) influenced several traits like caste ratios, foraging strategies, chemical signatures and mortality rates of two species of termites (Reticulitermes flavipes and R. grassei).

Here we present only parts of the results on the mortality rates.

Chemical exposure

encounters



encounters





encounters



Intraspecific encounters

The presence of the hydrocarbon extracts of Lasius niger in the near environment seems to induce an increase of these termites' aggressive behavior.