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ACCEPTED MANUSCRIPT

Chemical signaling in mosquito-host interactions: the role of human skin microbiota

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Highlights

- The human skin microbiome produces volatiles that affect mosquito behavior;
- Bacteria that produce attractants include *Bacillus* spp., *Brevibacterium* spp., *Corynebacteria* spp. and *Staphylococcus* spp.
- Volatiles of *Pseudomonas spp.* do not affect mosquitoes and/or suppress the odorants of other microbial species.
- Future metagenomics studies can reveal the host factors that determine the skin microbial community and attractive volatiles produced
- The effect of skin care products on the skin bacterial community and mosquito attraction still needs investigation
- Synthetic blends of odorants of microbial origin can be exploited for vector-borne disease control.

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