

Significance and impact of the study

The novelty of this work is two-fold. On the one hand, to test various antimicrobial components of different volatility in a single microbicide mixture and on the other to study antimicrobial activity in the gas phase, other than the liquid phase. While previous authors tested the components individually as antimicrobial agents in the liquid phase at direct contact with the microbes, we tested them altogether as a mixture both in the liquid and gas phase. The aim was to disinfect small environments, such as garbage containers, by favouring the diffusion of the vapour phase to avoid the growth of microbes. This study proposes a new approach in the management and storage of household waste by inhibiting bacterial proliferation in the garbage can.

Luciana Borrelli 1/17/2015 1:51 PM

Comment [1]: I would use two-fold more than combination as the two concepts appear to me to be not necessarily inter-twined one with the other, i.e. the fact of testing different antimicrobial components in a single mixture as opposed to being tested singly is one concept, and the fact of working on antimicrobial activity in a gas phase instead of a liquid phase is another concept. Is my interpretation correct?

Luciana Borrelli 1/17/2015 1:51 PM

Comment [2]: An alternative to on the one hand and on the other can simply be a) and b) if you prefer something more schematic.

Luciana Borrelli 1/17/2015 1:08 PM

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Comment [3]: I have added "in a sir... [1]"

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Comment [4]: I have added "other t... [2]"

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Luciana Borrelli 1/17/2015 1:09 PM

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