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Pseudomonas biofilm, swarming motility and biocides resistance

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Nowadays, it is known that biofilm are potent refuge for the bacterial resistance, making their elimination a big challenge in several macro or micro-ecosystems. However, understanding the mechanisms by which these microorganisms develop biofilm has remained elusive because the role of motility. Swarming motility is one of the most impressive features of microbial life and requires extended investigations. Till nowadays, many studies have indicated that swarming is the most complex type of bacterial motility its role includes the colonization of hydrated-viscous surfaces, the formation of biofilms and antibiotics or biocides resistance. Furthermore, the direction of this movement is biased by chemotactic responses to several stimuli. In this study our ultimate goal is to cover recent advances in biofilm formation and to describe certain factors linked to biofilm resistance. A great resistance to 45 components of costus roots separated by GC/MS was recorder. It is important to note that future endeavors are needed to elucidate mechanisms that reduce the susceptibility of biofilms to biocides.

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