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Research Article

"The diversity and composition of new pathogenic bacteria in cat fleas."

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Article Detail

"The diversity and composition of new pathogenic bacteria in cat fleas."

Author: DINA ROMBOT, JANTJE PELEALU, MOKOSULI YERMIA SEMUEL

Abstract: Ctenocephalides felis is specific ectoparasites in cats. As a pet, C. felis has the potential not only to transmit pathogenic bacteria in cats but also in humans. Metagenomic research on the digestive tract and body surface of C. felis has been conducted. DNA genomics was extracted from the body surface and digestive tract of C. felis. Metagenomic analysis has using the 16S rRNA gene (V3-V4 region). Sequencing was carried out using New Generation Sequencing at the First BASE Laboratory, Singapore. Metagenomic analysis has found 15 families and 19 bacterial genera. The results of this study become an important reference pathogenic bacteria that have the potential to be transmitted to humans and animals through C. felis. In the future, it is necessary to study the resistance of bacteria isolated from C. felis to antibiotics.

Keyword: metagenomic, 16S rRNA, Ctenocephalides felis, bacteria diversity

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Corresponding author: Dina Victoria Rombot (yermiamokosul@unma.ac.id)

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