



391 Research paper

Essential oils as alternatives to antibiotics in swine production

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In **Significant Impact Groups:**

Specific alternatives \ Immunomodulators

Species targeted: Pigs;

Age: Young;Adult;

Summary:

This review article summarizes the efficacy, feasibility and potential mechanisms of the application of essential oils as antibiotic alternatives in swine production. The effects of essential oils on inflammation, oxidative stress, microbiome, gut chemosensing and bacterial quorum sensing (QS) have led to better production performance of animals fed essential oils in a number of studies. It has been demonstrated that essential oils have good potential as antibiotic alternatives in feeds for swine production. The combination of different essential oils and other compounds (synergistic effect) such as organic acids seems to be a promising approach to improve the efficacy and safety of essential oils in applications.

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Where to find the original material:

<https://www.sciencedirect.com/science/article/pii/S2405654517301233>; 10.1016/j.aninu.2017.09.001

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