



383 Research paper

Natural alternatives to in-feed antibiotics in pig production: can immunomodulators play a role?

by Gallois M., Rothkotter H. J., Bailey M., Stokes C. R., and Oswald I. P.
2009 Animal 3: 1644–1661

In Significant Impact Groups:

Feed / gut health \ Feed additives and supplements

Species targeted: Pigs;

Age: Adult;Young;

Summary:

The development of both innate and adaptive immunity at the mucosal surface is critical in preventing the potential harmful effects of intestinal pathogenic agents. Strategies aiming at stimulating natural host defences through the use of substances able to modulate immune functions have gained increasing interest in animal research, and different bioactive components a priori sharing those properties have been the subject of in vivo nutritional investigations in pig. Among these, yeast derivatives (b-glucans and mannans) are able to interact with immune cells, particularly phagocytic cells. This review also highlights the limitations of some of the published in vivo studies on the immunomodulatory activity of certain feed additives. Among those, the lack of standardisation of extracts and the heterogeneity of piglet-rearing conditions (e.g. exposure to pathogens) are likely the most limiting.

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Where to find the original material:

https://www.researchgate.net/publication/221972346_Natural_alternatives_to_in-feed_antibiotics_in_pig_production_Can_immunomodulators_play_a_role; 10.1017/S1751731109004236

Country: France; Germany