



29 Research paper

**Could probiotics be the panacea alternative to the use of antimicrobials in livestock**

**diets?** by Cameron, A. and T.A. McAllister

2019 Beneficial Microbes 10: 773-799

in **Significant Impact Group(s)**: Feed / gut health \ Feed additives and supplements - Feed additives and supplements ; Specific alternatives

Species targeted: Pigs;Poultry;Dairy;Beef;Sheep;

Age: Different for different species;

Outcome Parameter(s): Ruminant feed conversion ratio; Milk production; Rumen pH modulation; Poultry feed conversion ratio; Egg production; Swine feed conversion ratio

**Summary:** Probiotic research in livestock is rapidly evolving, aspiring to produce local and systemic health benefits on par with antimicrobials. Although many studies have clearly demonstrated the potential of probiotics to positively affect animal health and inhibit pathogens, experimental evidence suggests that probiotics' successes are modest, conditional, strain dependent, and transient. Here, we explore current understanding, trends, and emerging applications of probiotic research and usage in major livestock species, and highlight successes in animal health and performance.

*29 Research paper - Cameron - 2019 - Could probiotics be the panacea alternative to the use of antimicrobials in livestock diets*

**Where to find the original material:**

<https://www.wageningenacademic.com/doi/abs/10.3920/BM2019.0059>;

<https://doi.org/10.3920/BM2019.0059>

**Country:** CA