



380 Research paper

**Effects of quaternary benzo(c)phenanthridine alkaloids on growth performance, shedding of organisms, and gastrointestinal tract**

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In **Significant Impact Groups:**

Prudent use AB \ Farmer

Species targeted: Pigs;

Age: Young;

**Summary:**

Salmonella is classified by European authorities as a major coloniser in pigs and poultry, causing food poisoning after the consumption of meat. Alkaloids derived from plants, can be biochemically derivatized to quaternary benzo(c)phenanthridine alkaloids, that is able to kill Salmonella, and this way sanitising the meat. The main mode of action is based on maintaining gastrointestinal integrity, blocking Salmonella and other pathogens from entering the bloodstream and causing infection. The legal status of the quaternary benzo(c)phenanthridine alkaloids can be discussed, but opens the way to innovative interaction at the level of food quality and safety.

*380 Research paper - Robbins - 2013 - Effects of quaternary benzo(c)phenanthridine alkaloids on growth performance shedding of organisms and gastrointestinal tract integrity in pigs inoculated with multidrug-resistant Salmonella spp*

**Where to find the original material:**

<https://avmajournals.avma.org/doi/abs/10.2460/ajvr.74.12.1530>;

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