

Editorial

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Intestinal in ammatory diseases are very complex disorders, with economic implications and a ecting the animal welfare and well-being.

ese types of disorders, manifesting both at human and animals are characterised, from scienti c point of view, by an excessive cell-mediated response that leads to an impairment of the barrier function of the gut, leading nally to the intestinal in ammation, with all the associated symptoms: diarrhoea, vomiting, pain, reduced appetite, decrease of body weight. e intestinal tract is the largest interface through which human and animals interact with their environment. Four protective barriers maintain the integrity of this interface: epithelial, chemical, microbiological and immunological barrier. Under normal conditions, the stimulation of the mucosal immune system by gut microbiota determines a state of "low-grade physiological in ammation", a status of continuous activation of the mucosal immune system in response to commensal microorganisms, and in case of needs, also towards pathogens. Mucosal homeostasis requires a continuous balance between pro- and anti-in ammatory components. e disruption of one or more of intestinal barriers can lead to chronic in ammation which is a hallmark of intestinal disorders. e goal of the treatments applied in this case is the reduction of in ammation and establishing a normal gastro-intestinal function. ere are two main ways for treating the intestinal in ammation:

• e classical medicine, based of anti-in ammatory drugs,

suppresors of the immune system and antibiotics; pgasto@gasto@gasy.@Inn Wrn;d&icdrugs, e classicalory oxec@s &drugs, dieta@er, lipids).ore or

promoters, many studies have investigated various nutritional approaches for preventing or reducing gut disorders and deleterious e ects of in ammation in farm animals. New and novel dietary strategies are clearly required if the farmers proposed to maintain, or improve, their economic competitiveness within Europe and world markets. e supplementation of the animal diet with ingredients rich in bioactive compounds with antimicrobial properties in order to counteract the intestinal in ammation was lately investigated. Prebiotics are selectively fermented ingredients that allow speci c changes in the composition and/or activity of the gastrointestinal micro ora, e.g. the selectively stimulation of the indigenous bene cial micro ora and increasing the defence and resistance potential of the animal and human organism. Polyphenol extracts from a variety of plants have been shown to have Citation: Pistol GC (2018) Natural Therapy for Treating Intestinal Infammation in Farm Animals: Promises and Pitfalls. J Vet Med Health 2: e104.

in ammation, their speci c mechanisms of actions, including a direct