



**International VETEXPO-2019 Veterinary Sciences Congress  
September 20-22 2019. Double Tree by Hilton Hotel, Avclar /Istanbul, Turkey**

**Invited presentation**

**A new era under dermatology in small animal veterinary medicine: 'gut-brain-skin axis' I-II**

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**Abstract**

Given developing data and knowledge everyday, science related novelty within the Veterinary Internal Medicine shine like a star. A star is born; immunostimulation via probiotherapy and/or fecal microbiota transplantation. As an important component of the latter branch, Veterinary Dermatology has changed within the last 10 years and shifted to another West side of the story. Understanding gut-brain-skin axis, our mind has been shifted to determine gastroenterology and dermatology is somewhat like famous twosomes such as 'Blues brothers' or 'Metin Akpınar-Zeki Alasya'. The gut and skin, as an important components of gastroenterology and dermatology, high vascularized and entirely innervated organs with neuroendocrine and immune participation, are aberrantly in association with purpose and function. Both organs are crucial for maintaining physiological homeostasis. Available data presented closely acquainted, bifacial relationship between the gut and skin. Apart from several research possessing a link for gastrointestinal health to skin homeostasis/allostasis. Gastrointestinal and dermatological disorders are interlocked, oftenly allergy, histamin intolerance and gastrointestinal signs are accompanied by cutaneous manifestations, in relation with the gut microbiome. In this presentation the gut microbiome's contribution to gastrointestinal and skin disorders along with pathogenesis (i.e. gut-brain- skin axis) intestinal barrier functioning, leaky gut, disbiosis and unbalanced microbiota), analytic methodology (16 s rRNA analysis, significance of phylum, class, order, family, genus detection to those of gut microbiota), , treatment options will be discussed. Interestingly the participation of fecal microbiota transplantation and altered calendar probiotic treatment will be discussed in detail. The author (from his large archive) will be presenting case series of atopic dermatitis along with pruritic dermatoses, which were successfully treated.

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