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Author: LongGui Ning, Guodong Shan, Zeyu S... Publish Year: 2019

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Proteomic insights on the metabolism in inflammatory bowel disease

Pisani LF *et al.* Proteomics in inflammatory bowel disease

Laura Francesca Pisani, Manuela Moriggi, Cecilia Gelfi, Maurizio Vecchi, Luca Pastorelli

Abstract

Inflammatory bowel diseases (IBD) are chronic and relapsing inflammatory conditions of the gut that include Crohn's disease and ulcerative colitis. The pathogenesis of IBD is not completely unraveled, IBD are multi-factorial diseases with reported alterations in the gut microbiota, activation of different immune cell types, changes in the vascular endothelium, and alterations in the tight junctions' structure of the colonic epithelial cells. Proteomics represents a useful tool to enhance our biological understanding and to discover biomarkers in blood and intestinal specimens. It is expected to provide reproducible and quantitative data that can support clinical assessments and help clinicians in the diagnosis and treatment of IBD. Sometimes a differential diagnosis of Crohn's disease and ulcerative colitis and the prediction of treatment response can be deduced by finding meaningful biomarkers. Although some non-invasive biomarkers have been described, none can be considered as the "gold standard" for IBD diagnosis, disease activity and therapy outcome. For these

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