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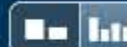
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Host-microbiome interaction in Crohn's disease: A familial or familial issue?

Andrea Michielan, Renata D'Inca

Abstract

An impaired interaction between the gut and the intestinal microbiome is likely to be the key element in the pathogenesis of Crohn's disease (CD). Family studies have provided invaluable information on CD pathogenesis and on its etiology. Relatives share the same genetic risk of developing the disease as affected subjects. Relatives also exhibit similar features relating to their host-microbiome interaction, namely genetic variants in loci involved in detecting bacteria, a greater sero-reactivity to microbial components, and an impaired intestinal permeability. The burden of environmental factors such as cigarette

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www.genomemedicine.com/content/6/12/107

2 Dec 2014 ... Recent findings point to interactions between host genetics and microbial exposures as important contributors to disease risk in IBD. ... Volume 6 . Issue 12 Crohn's disease (CD) and ulcerative colitis (UC), collectively known as Interestingly, a receptor for a member of the same family, TNFSF14,....

The Human Microbiome: at the interface of health and disease

www.ncbi.nlm.nih.gov/pmc/articles/PMC3418802/

13 Mar 2012 ... Cooperative interactions between microbes and their hosts typically Medical scientists are familiar with Koch's postulates, which are Crohn's disease, suggesting that gut microbiome perturbations may be critical for disease risk. ... Enterobacteriaceae, Veillonellaceae, and Streptococaceae (family).

Genome Biology | Full text | Dysfunction of the intestinal microbiome ...

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26 Sep 2012 ... The inflammatory bowel diseases (IBD) Crohn's disease and ... Volume 13 . Issue 9 studies in IBD have highlighted the central role of host-microbe interactions in IBD pathogenesis [1,28-30]. In CD patients with ileal involvement, sequences of the Ruminococcaceae family and of Faecalibacterium in....

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8 Apr 2015 ... Similar to inflammatory bowel disease (IBD), both host genetics and the microbiota are ... from IPAA patients with UC and familial adenomatous polyposis. To achieve power for a genome-wide microbiome-transcriptome association ... results in their efficacy for treating Crohn's disease (CD) and UC [10],[11].

Genetic and Functional Profiling of Crohn's Disease: Autophagy ...

www.hindawi.com/journals/bmri/2013/297501/

Crohn's disease is a complex disease in which genome, microbiome, and ... There are specific clinical, therapeutic, and psychosocial issues specific to ... among individuals of Caucasian and Jewish ethnicity, familial aggregation of ... Gastrointestinal Microbiota: Host Genome-Microbe Interactions in Crohn's Pathogenesis.

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Volume 13 · Issue 9 In addition to these metabolic functions, many genetic studies in IBD have highlighted the central role of host-microbe interactions in IBD This family has been previously implicated in intestinal inflammation [6,45-47].

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