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 包括专利 包含引用 创建快讯**[HTML] Microbial activities and intestinal homeostasis: a delicate balance between health and disease**CL Ohland, [C Jobin](#) - Cellular and Molecular Gastroenterology and ..., 2015 - Elsevier... 25 Here, diversity and bacterial load (10³ bacteria/g) are low, but both ... due to increased metabolic demands, 27 this is unlikely to substantially affect the microbial community, as ... in an atmosphere with fluctuating oxygen does require respiratory flexibility of commensal bacteria ...

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[\[HTML\] sciencedirect.com](#)**Interactions and competition within the microbial community of the human colon: links between diet and health**[HJ Flint](#), [SH Duncan](#), [KP Scott](#)... - Environmental ..., 2007 - Wiley Online Library

... likely that dietary habits and life events contribute to unique combinations of bacteria within an ... this is starting to reveal the niches occupied by certain key bacterial groups in ... systems analysis is needed, in particular to enable rapid analysis of microbial community composition in ...

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[sci-hub 下载](#)**Cross-talk between probiotic bacteria and the host immune system**

B Corthésy, HR Gaskins, A Mercenier - The Journal of nutrition, 2007 - academic.oup.com

... Using Enterobacter cloacae as a model commensal bacterium, a recent study suggested that sampling is ... SIgA were reported to be involved in multiple functions including bacterial binding (119,120 ... Probiotic properties of lactic-acid bacteria: plenty of scope for fundamental R & D ...

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[\[PDF\] oup.com](#)**Commensal bacteria (normal microflora), mucosal immunity and chronic inflammatory and autoimmune diseases**

H Tlaskalová-Hogenová, R Štěpánková, T Hudcovic... - Immunology letters, 2004 - Elsevier

... are able to bind bacteria and their components, eg CD14, LPS-binding protein (LBP) and others is in focusing bacteria and bacterial products to ... functions, which involve interaction with other cells of the immune system and an inflammatory response to microbial invasion ...

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17

Name of Journal: *World Journal of Pharmacology*

Manuscript NO: 45926

Manuscript Type: REVIEW

Bacterial biofilms in human gastrointestinal tract: An intricate balance between health and inflammatory bowel diseases

Chandra N *et al.* Biofilm forming bacteria in IBD

Niharika Chandra, Ankita Srivastava, Sunil Kumar

Abstract

Inflammatory bowel disease (IBD) has been a worldwide health problem. It is characterized by severe intestinal inflammation due to immune responses against the gut microbes in genetically susceptible individuals. The understanding of gut microbiota for its composition and complex interaction in normal and diseased



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However, like other **biofilm diseases**, once antibiotic therapy is withdrawn, patients can suffer from a 'rebound effect' in which the **biofilm bacteria** not eliminated by the antimicrobial agents are able to reseed the **GI tract** and restore the symptoms associated with IBD, whether Crohn's or ...

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The major inspiration or rationale behind this study is first to understand the key mechanisms by which **biofilms** are formed by both **pathogenic and nonpathogenic bacteria in the human GI tract**.

Microbial biofilms and the human intestinal microbiome ...

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Mar 25, 2015 · This perspective will focus on these **biofilms** and the microbes in the **intestinal tract** as these are the most numerous in the **human** body, are found ...

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ratio of **gut bacterial** cells to **human body cells** is approximately 1 to 1 [1]. Gut microbiota live in close association with themselves and with the outer layer of the host mucus, as **intricate biofilm** communities and free-swimming **bacteria** that disperse from them. The symbiotic relationship between the ...

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Author: Andre Gerald Buret, Jean-Paul Motta, Je...

Publish Year: 2019

Biofilms in Health and the Human Body - Montana State Univ

<https://www.cs.montana.edu/webworks/projects/stevesbook/contents/chapters/chapter001/...> ▾

Biofilms in Health and the Human Body . This may come as something of a shock to you, but about 90 percent of the cells in a **human body** are not **human**! In fact, the **human body** is heavily colonized by microbes that have found it a great place to live.

Immunopathogenesis of inflammatory bowel disease

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3062384>

Inflammatory bowel disease (IBD) is a group of idiopathic, chronic and relapsing inflammatory conditions of the **gastrointestinal tract**. Familial and epidemiological studies have stressed the involvement of genetic factors and have also shown the critical role of environmental factors such as sanitation and **hygiene** in the development of IBD.

The Gut Microbiota and The Immune System - ThryveInside ...