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[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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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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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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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 ...

[HTML] sciencedirect.com

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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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Bacterial biofilms in the human gastrointestinal tract ...

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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 ...

<https://www.nature.com/articles/npjbiofilms20155>

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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tio of **gut bacterial** cells to **human body cells** is approximately 1 to 1 [1]. Gut microbiota live in close as-sociation 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 ...