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3 Feb 2010 ... The **intestinal** epithelial **cells** (IEC) lining the human **colon** undergo continuous ... little **TLR4** or its co-receptor MD-2 (10), the **impact** of such regulation on **gut** ... pathogen **Enteropathogenic Escherichia coli** (EPEC), which causes ... IECs were also stimulated with IL-1 $\beta$  (5ng/ml) for 3h, IFN gamma (100 ng/ml) ...

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The OEO-treated pigs had a lower ( $P<0.05$  population of **Escherichia coli** in the .... Knowledge on the **impact** of the microbiota on metabolic **pathways** allows to .... by co-modulating NLRP6 inflammasome signaling, epithelial IL-18 secretion, .... receptor (TLR)-4-triggered inflammatory response in PIE **cells** and; ii) to gain ...

[intestinal mucosa expression: Topics by WorldWideScience.org](#)  
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TLR2 downstream signaling via the mitogen-activated protein kinase (ERK1/2 .... TGF - 1 exerts a protective **effect** on the **gut barrier** against **intestine** I/R injury, .... Adhesion of the bacterial strains to the IEC-6 rat **cell** line was evaluated in vitro. .... with increased **intestinal** mucosa staining for **E. coli** bacteria, nitrotyrosine, ...

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A gene **expression** programme induced by bovine colostrum whey promotes growth .... Increasing cAMP levels had adverse **effects** on **barrier** maturation, .... **Intestinal** Epithelial Toll-Like Receptor 4 Signaling **Affects** Epithelial **Function** .... Dual infection of Caco-2 **cells** with ETEC and EPEC (**enteropathogenic E. coli**) led to ...

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Manuscript NO: 33433

Manuscript Type: ORIGINAL ARTICLE

*Basic Study*

**Effect of EPEC endotoxin and bifidobacteria on intestinal barrier function through  
modulation of TLR2 and TLR4 expression in IEC-18**

Xia Yang, Xian-Chun Gao, Jun Liu, Hong-Yu Ren

**Abstract**



Effect of EPEC endotoxin and bifidobacteria on intestinal barrier function throu

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30 May 2013 ... Keywords: tight junctions, claudins, intestinal barrier, epithelial cells, paracellular permeability, endotoxin, gastrointestinal tract, .... TLR2<sup>-/-</sup> mice suffer the impaired epithelial barrier function with .... PRL is found to downregulate the expression of claudin-3 and occludin in IEC-6 crypt cells, a rat small ...

### [Molecular Modulation of Intestinal Epithelial Barrier: Contribution of ...](https://www.hindawi.com/journals/bmri/2010/305879/)

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28 Oct 2009 ... Through a molecular chain of events, the microbiota provides a major ... It has a profound effect on the intestinal barrier and on distant organs. ... in the gut in a manner analogous to their traditional functions in phagocytes [18]. .... A. Expressed on the cell membrane of most intestinal epithelial cells (IECs), ...

### [\[PDF\] afhandling: Effect of gut microbiota on intestinal integrity](http://www.food.dtu.dk/-/media/.../PhD-thesis-Ellen-Gerd-Christensen.ashx?la...)

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23 Oct 2013 ... mucus layer functions as the final barrier between the luminal content and the .... Using these methods the effect of modulating the gut bacterial .... The mucosa consists of a layer of intestinal epithelial cells (IEC), which is covered .... bacteria), see table 2.1, as TLR2 are expressed lower here [64]. Location ...

### [Modulation of signaling pathways in the intestine - Taylor & Francis ...](http://www.tandfonline.com/doi/full/10.4161/gmic.1.3.11712?src=recsys)

[www.tandfonline.com/doi/full/10.4161/gmic.1.3.11712?src=recsys](http://www.tandfonline.com/doi/full/10.4161/gmic.1.3.11712?src=recsys)

30 Jun 2010 ... Beneficial effects of probiotics include enhancing intestinal epithelial ... probiotic strain or combinations of strains may modulate gut function and ameliorate disease. .... cell-free conditioned media induced expression of hsp25 and hsp72. .... Bacteroides vulgatus activates NFκB via the IL-1R/TLR4 pathway.

### [Establishment of tolerance to commensal bacteria requires a ...](http://ajpgi.physiology.org/content/302/1/G55)

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19 Dec 2011 ... Gene expression in the intestine of mouse pups born to dams that were ... of the gut and communicate with the immune system via secretion of cytokines and chemokines.

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## Claudins in intestines - NCBI - NIH

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30 May 2013 - Keywords: tight junctions, claudins, **intestinal barrier**, epithelial cells, paracellular permeability, **endotoxin**, **gastrointestinal** tract, .... **TLR2**<sup>-/-</sup> mice suffer the impaired epithelial **barrier function** with ..... PRL is found to downregulate the **expression** of claudin-3 and occludin in IEC-6 crypt cells, a rat small ...

## [PDF] Potential Impact of Diet on Treatment Effect from Anti-TNF Drugs in ...

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by V Andersen - 2017

15 Mar 2017 - PubMed was searched **using** specified search terms. .... **Intestinal Barrier Function** and **Effects** of Anti-TNF ... Activation of TLRs, including TLR1, **TLR2**, **TLR4**, and TLR10 on ... TNF- $\alpha$ -mediated pro-inflammatory cell signalling and inhibit **expression** ... epithelia cells, IEC). .... **EPIC** Study). ... 2014, 26, 11–18.

## Bacteria in the Intestine, Helpful Residents or Enemies from Within?

[iai.asm.org/content/76/8/3360.full.pdf](http://iai.asm.org/content/76/8/3360.full.pdf)

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microbial colonization of the **gastrointestinal** tract **affects** the ... plethora of mechanisms to decrease the **barrier function** of the ... release from IEC via a novel flagellin (139), and this occurs by ... pathogens use this type of cell death to their advantage (18). ... in IEC, **TLR4** and MyD88