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Increased faecal serine protease activity in diarrhoeic IBS patients: a colonic luminal factor impairing colonic permeability and sensitivity

K Gecse, R Roka, L Ferrier, M Leveque, H Eutamene... - Gut, 2008 - gut.bmj.com

... Organic gastrointestinal disorders were excluded by detailed blood and stool analyses, serological ... frequency. 13 These data confirmed earlier findings of altered gut permeability following acute ... 14 A recent study emphasises that the increase in intestinal permeability is more ...

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Induction of intestinal inflammation in mouse by activation of proteinase-activated receptor-2

N Cenac, AM Coelho, C Nguyen, S Compton... - The American journal of ..., 2002 - Elsevier

... whether PAR-2 serves a proinflammatory or anti-inflammatory role in the gastrointestinal tract. ... proteinases able to activate PAR-2 are normally present in the intestinal lumen, and ... We also evaluated the effects of luminal PAR-2 agonists on epithelial permeability and bacterial ...

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[HTML] Role for protease activity in visceral pain in irritable bowel syndrome

N Cenac, CN Andrews, M Holzhausen... - The Journal of ..., 2007 - Am Soc Clin Investig

... IBS symptoms in some patients (5-8). A history of a gastrointestinal infectious episode ... visceral hypersensitivity), possibly aggravated by microscopic inflammation and/or previous intestinal infection ... The present study provides evidence for a crucial role for proteases released by ...

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[HTML] Intestinal barrier function in health and gastrointestinal disease

M Camilleri, K Madsen, R Spiller... - ..., 2012 - Wiley Online Library

... gastrointestinal. ... Following several animal studies showing that acute stress increases mast cell numbers and gut permeability, studies in humans ... of glutamine resulting in a shortage of the energy supply for intestinal epithelial cells, resulting in increased intestinal permeability. ...

被引用次数: 188 相关文章 所有 7 个版本 引用 保存

[HTML] Restoration of barrier function in injured intestinal mucosa

AT Blikslager, AJ Moeser, JL Gookin... - Physiological ..., 2007 - Am Physiological Soc

被引用次数: 293 相关文章 所有 7 个版本 引用 保存

[HTML] elsevierhealth.com

[HTML] jci.org

[HTML] wiley.com

[HTML] physiology.org

Name of journal: *World Journal of Gastroenterology*

ESPS Manuscript NO: 30328

Manuscript Type: REVIEW

Regulation of intestinal permeability: The role of proteases

Van Spaendonk H *et al.*

Hanne Van Spaendonk, Hannah Ceuleers, Leonie Witters, Eveline Patteet, Jurgen Joossens, Koen Augustyns, Anne-Marie Lambeir, Ingrid De Meester, Joris G De Man, Benedicte Y De Winter

Hanne Van Spaendonk, Hannah Ceuleers, Leonie Witters, Eveline Patteet, ¹Joris G De Man, Benedicte Y De Winter, Laboratory of Experimental Medicine and Pediatrics, Division of Gastroenterology, University of Antwerp, 2610 Antwerp, Belgium

Jurgen Joossens, Antwerp Drug Discovery Network (ADDN), University of

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Mast Cell Trypsin Controls Paracellular Permeability of the Intestine ROLE OF PROTEASE-ACTIVATED RECEPTOR 2 AND β -ARRESTINS

[HTML] jbc.org

C Jacob, PC Yang, D Darmoul, S Amadesi... - Journal of Biological ..., 2005 - ASBMB
... Down-regulation of β -arrestins with small interfering RNA inhibited PAR 2 -induced ... β ARR), which mediates receptor endocytosis and recruits activated extracellular signal-regulated kinases 1 ... PAR 2 couples to ERK1/2 by a β ARR-dependent mechanism to regulate TJ assembly ...

被引用次数: 241 相关文章 所有 10 个版本 引用 保存

Intestinal barrier function: molecular regulation and disease pathogenesis

[HTML] nih.gov

KR Groschwitz, SP Hogan - Journal of Allergy and Clinical Immunology, 2009 - Elsevier
The intestinal epithelium is a single-cell layer that constitutes the largest and most important barrier against the external environment. It acts as a selectiv...
被引用次数: 461 相关文章 所有 18 个版本 引用 保存

Zonulin and its regulation of intestinal barrier function: the biological door to inflammation, autoimmunity, and cancer

[HTML] physiology.org

A Fasano - Physiological reviews, 2011 - Am Physiological Soc
被引用次数: 302 相关文章 所有 17 个版本 引用 保存

Mast cells regulate homeostatic intestinal epithelial migration and barrier function by a chymase/Mcpt4-dependent mechanism

[HTML] pnas.org

KR Groschwitz, R Ahrens, H Osterfeld... - Proceedings of the ..., 2009 - National Acad Sciences
... Thus, mast cell/Mcpt4 regulation of homeostatic intestinal barrier function is likely to be independent of ... Mast Cells/Mcpt4 Regulate Claudin-3 Expression and Distribution. The intestinal epithelium maintains its selective barrier function through the formation of intercellular protein ...
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[HTML] Intestinal barrier function in health and gastrointestinal disease

[HTML] wiley.com

M Camilleri, K Madsen, R Spiller... - ..., 2012 - Wiley Online Library
... importance of glutamine synthetase in cellular metabolism, both synthesis and catalytic activities

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... Permeability of the Intestine ROLE OF PROTEASE- ... - Jacob - 被引用次数 : 241

Intestinal barrier function: molecular regulation and ... - Groschwitz - 被引用次数 : 464

Zonulin and its regulation of intestinal barrier function: ... - Fasano - 被引用次数 : 309

Mechanisms of Disease: protease functions in intestinal mucosal ...

<https://www.ncbi.nlm.nih.gov> > NCBI > Literature > PubMed Central (PMC) - 翻译此页

作者 : TM Antal - 2007 - 被引用次数 : 40 - 相关文章

Keywords: enteric pathogen, inflammation, intestinal permeability protease, ... vital role in the regulation of signaling processes important for intestinal epithelial ...

Intestinal Barrier Function: Molecular Regulation and Disease ... - NCBI

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4266989/> - 翻译此页

作者 : KR Groschwitz - 2009 - 被引用次数 : 463 - 相关文章

Transgenic or knockout mice and effects on intestinal barrier function. have identified a role for mast cell-derived proteases in intestinal barrier function. ... Mast cell/MCP-1 regulation of intestinal permeability during T. Spiralis infection was ...

Intestinal Permeability Regulation by Tight Junction: Implication on ...

<https://www.ncbi.nlm.nih.gov> > NCBI > Literature > PubMed Central (PMC) - 翻译此页

作者 : SH Lee - 2015 - 被引用次数 : 58 - 相关文章

2015年1月29日 - Keywords: Intestinal permeability, Tight junctions, Inflammatory bowel diseases, The roles of cytokines in intestinal TJ regulation under ... protein, and the mature and soluble form is released by proteolytic cleavage.

Intestinal permeability – a new target for disease prevention and therapy