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Chronic experimental colitis induced by dextran sulphate sodium (DSS) is characterized by Th1 and Th2 cytokines

V Rees - Clinical & Experimental Immunology, 1998 - Wiley Online Library

... 3 Dieleman LA, Ridwan BU, Tennyson GS et al. Dextran sulfate sodium (DSS)-induced colitis occurs in severe combined immunodeficient (SCID) mice. Gastroenterology 1994; 107:1643-52. ... Kinetics of cytokine expression during healing of acute colitis in mice. ...

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[HTML] IL-22 ameliorates intestinal inflammation in a mouse model of ulcerative colitis

K Sugimoto, A Ogawa, E Mizoguchi... - The Journal of clinical ..., 2008 - ncbi.nlm.nih.gov

... 22 gene delivery plus mucolytic treatment in fact developed more severe colitis compared with ... the anti-IL-22 Abs significantly delayed the recovery from DSS-induced acute colitis as judged ... inflammation-associated goblet cell restitution and recovery from acute intestinal injury ...

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[HTML] Toll-like receptor-4 is required for intestinal response to epithelial injury and limiting bacterial translocation in a murine model of acute colitis

M Fukata, KS Michelsen, R Eri... - American Journal of ..., 2005 - Am Physiological Soc

... TLR4-/- mice experienced earlier and more severe bleeding than control mice. ... Although control mice and TLR4-/- mice had similar degrees of DSS-induced crypt epithelial damage (Fig. 1, A and C), TLR4-/- mice had significantly less acute inflammatory cell infiltrate (Fig. ...

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Intercellular adhesion molecule - 1 (ICAM - 1) deficiency protects mice against severe forms of experimentally induced colitis

F Bendjelloul, P Malý, V Mandys... - Clinical & ..., 2000 - Wiley Online Library

... However, it has to be pointed out that human IBD in contrast to DSS-induced colitis is a long ... Our findings confirm that ICAM-1 participates in the development of severe forms of colitis and ... Y, Nakaya R. A novel method in the induction of reliable experimental acute and chronic ...

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Toll-like receptor signalling in the intestinal epithelium: how bacterial recognition shapes intestinal function

MT Abreu - Nature Reviews Immunology, 2010 - nature.com

... access of luminal bacteria to the lamina propria, leading to an acute inflammatory response ... Conversely, treatment of wild-type mice with Pam3CSK4 protected against DSS-induced injury (less ... the induction of inflammatory disease and, in fact, develop more severe disease than ...

**Name of journal:** *World Journal of Gastroenterology*

**ESPS Manuscript NO:** 19682

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### *Basic Study*

**Dextran sulfate sodium-induced acute colitis impairs dermal lymphatic function in mice**

Agollah GD *et al.* Functional lymphatic imaging in gut inflammation

Germaine D Agollah, Grace Wu, Ho-Lan Peng, Sunkuk Kwon

Germaine D Agollah, Grace Wu, Sunkuk Kwon, <sup>5</sup>Center for Molecular Imaging, The  
 Brown Foundation Institute of Molecular Medicine, The University of Texas Health  
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V Rees - Clinical & Experimental Immunology, 1998 - Wiley Online Library

... Keywords colitis dextran sulphate IL-4 interferon-gamma mice ... 13 Dieleman LA, Elson CO, Tennyson GS et al. Kinetics of cytokine expression during healing of acute colitis in mice. ... Treatment of dextran sulfate sodium-induced murine colitis by intracolonic cyclosporin. ...

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Chronic intermittent psychosocial stress (social defeat/overcrowding) in mice increases the severity of an acute DSS-induced colitis and impairs regeneration

SO Reber, F Obermeier, HR Straub, W Falk... - ..., 2006 - press.endocrine.org

... stress in male mice and investigated whether exposure to this stress procedure before the induction of an acute dextran sulfate sodium (DSS) ... In summary, our data provide evidence that an acute intestinal inflammation induced by DSS is more severe in chronically ...

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[HTML]  $\beta$ -Caryophyllene inhibits dextran sulfate sodium-induced colitis in mice through CB2 receptor activation and PPAR $\gamma$  pathway

AF Bento, R Marcon, RC Dutra, RF Claudino... - The American journal of ..., 2011 - Elsevier

...  $\beta$ -Caryophyllene Inhibits Dextran Sulfate Sodium-Induced Colitis in Mice through CB2 Receptor Activation and PPAR $\gamma$  Pathway. ... Dextran sulfate sodium (DSS) (mol ... No side effects were observed with BCP alone (50 mg/kg) in acute toxicological studies; the administration of BCP ...

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[HTML] Toll-like receptor-4 is required for intestinal response to epithelial injury and limiting bacterial translocation in a murine model of acute colitis

M Fukata, KS Michelsen, R Eri... - American Journal of ..., 2005 - Am Physiological Soc

... To test this hypothesis, we used the dextran sodium sulfate (DSS) model of murine colitis and asked whether TLR4 ... In this model, oral administration of DSS-containing water results in acute colitis characterized by epithelial injury and an acute inflammatory infiltrate. ...

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[HTML] NK-1 antagonist reduces colonic inflammation and oxidative stress in dextran sulfate-induced colitis in rats

AF Stucchi, S Shofer, S Leeman... - American Journal of ..., 2000 - Am Physiological Soc

... to its NK-1 receptor, results in the attenuation of colonic inflammation induced in rats by 5% dextran sodium sulfate (DSS) in ... chronic ulcerative colitis (CUC) is an inflammatory bowel disease (IBD)

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[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > ... > Literature > PubMed Central (PMC) - [翻译此页](#)

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 We found that FoxC2 downregulation in FoxC2(+/-) mice significantly increased the ...  
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 CB2 ... Oral treatment with BCP reduced disease activity, colonic macro- and ....  
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