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Basic Study

Anti-tumor necrosis factor α therapy associates to type 17 helper T lymphocytes immunological shift and significant microbial changes in dextran sodium sulphate colitis

Petito V *et al.* Anti-TNF α induces Th17 immunological shift and intestinal dysbiosis

Valentina Petito, Cristina Graziani, Loris R Lopetuso, Marco Fossati, Alessandra Battaglia, Vincenzo Arena, Domenico Scannone, Gianluca Quaranta, Andrea Quagliariello, Federica Del Chierico, Lorenza Putignani, Luca Masucci, Maurizio Sanguinetti, Alessandro Sgambato, Antonio Gasbarrini, Franco Scaldaferri

Abstract

BACKGROUND

Anti-tumor necrosis factor α (TNF α) ¹represents the best therapeutic option to induce mucosal healing and clinical remission in patients with moderate-severe ulcerative colitis. On the other side gut microbiota plays a crucial role in pathogenesis of ulcerative colitis but few information exists on how microbiota changes following anti-TNF α therapy and on microbiota role in mucosal healing.

AIM

To elucidate whether gut microbiota and immune system changes appear following anti TNF α

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2018年10月12日 - The most widely used experimental model employs **dextran sodium** ... of **colitis**, alterations found in **microbial** balance and resultant **changes** in ...

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作者: P Dharmani - 2011 - 被引用次数: 67 - 相关文章

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作者: I Ricciardelli - 2008 - 被引用次数: 120 - 相关文章

2008年4月16日 - Anti tumour necrosis-alpha therapy increases the number of FOXP3 regulatory T cells in children affected by Crohn's disease. ... drives a strong intestinal T helper 1 (Th1)/Th17 type immune response and inflammation ... monoclonal antibody directed against tumour necrosis factor (TNF)-alpha shown to be ...

Tumor Necrosis Factor- α and Muc2 Mucin Play Major Roles in ...

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作者: P Dharmani - 2011 - 被引用次数: 65 - 相关文章

2011年9月19日 - Clear input ... We conclude that early onset colitis is dependent on TNF- α that preceded depletion ... due to exposure of unknown environmental and microbial agents [1]. ... As TNF- α and adherent and goblet cell mucin are two major B: DSS treatment on day 2 showing mucin filled goblet cells as well as ...

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2018年11月1日 - Alleviation of **Dextran Sulfate Sodium**-Induced **Colitis** by ... *Ganoderma lucidum*
polysaccharides (GLP) has **anti-inflammatory** and ... affected populations of **Th17** cells, **B cells**, NK
cells, and NKT cells in the lamina ... such as **tumor necrosis factor- α** (TNF- α), interleukin-1 β novel
subset of **helper** CD4⁺ T ...

Anti-tumour necrosis factor treatment increases circulating T helper ...

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作者: DN Hull - 2015 - 被引用次数: 21 - 相关文章

2015年6月23日 - **Anti-tumour necrosis factor treatment** increases circulating **T helper type 17 cells** ...
We investigated **changes** in circulating **T helper type 17 (Th17) cells** ... **A significant** increase in IL-17-
producing **cells** was observed by ELISPOT in RA and AS patients at 12 weeks. ... 2015 British
Society for **Immunology**.

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