

9

Name of Journal: *World Journal of Gastroenterology***Manuscript NO:** 54484**Manuscript Type:** REVIEW

Differential regulation of JAK/STAT-signaling in patients with ulcerative colitis and Crohn's disease

Cordes F *et al.* Differential JAK/STAT-signaling in UC and CD

Friederike Cordes, Dirk Foell, John Nik Ding, Georg Varga, Dominik Bettenworth

Abstract

In 2018, the pan-Janus kinase (JAK) inhibitor tofacitinib was launched for the treatment of ulcerative colitis (UC). While tofacitinib has been proven efficacious in patients with active UC, it failed in patients with Crohn's disease (CD). This finding strongly hints at a different contribution of JAK signaling in both entities. Here, we review the current knowledge on the interplay between

Match Overview

1	Internet 68 words crawled on 27-Sep-2019 academic.oup.com	1%
2	Internet 39 words crawled on 06-Nov-2019 molcellped.springeropen.com	1%
3	Internet 27 words crawled on 01-Jun-2020 eprints.gla.ac.uk	<1%
4	Internet 14 words crawled on 26-Nov-2003 stemcells.alphamedpress.org	<1%
5	Internet 12 words crawled on 10-Nov-2017 www.jimmunol.org	<1%
6	Crossref 12 words Bram Verstockt, Marc Ferrante, Séverine Vermeire, Gert Va Assche. "New treatment options for inflammatory bowel disea	<1%
7	Internet 12 words crawled on 30-Jan-2020 www.mdpi.com	<1%
8	Crossref 12 words Joshua S. Davis, David Ferreira, Emma Paige, Craig Gedye, Michael Boyle. "Infectious Complications of Biological and S...	<1%
9	Internet 12 words crawled on 30-Mar-2020 f6publishing.blob.core.windows.net	<1%



27,700 Results

Any time ▾

[Immune Markers and Differential Signaling Networks in ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3407828>

Ulcerative colitis (UC) and **Crohn's disease** (CD) have unique as well as overlapping phenotypes, susceptibility genes, and gene expression profiles. This study aimed to delineate patterns within cytokine signaling pathways in colonic mucosa of UC and CD **patients**, explore molecular diagnostic markers, and identify novel immune-mediators in IBD ...

Cited by: 113 **Author:** George P. Christophi, George P. Christop...

Publish Year: 2012

[Integrating Immunologic Signaling Networks: The JAK/STAT ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4810057>

Feb 29, 2016 · Moreover, we will explain current concepts of the implication of **JAK/STAT** signaling in CAC and finally discuss present and future therapies for IBD that interfere with **JAK/STAT** signaling. Keywords: inflammatory bowel **disease**, **colitis**-associated cancer, cytokines, janus kinase, signal transducer and activator of transcription, IL-6

Cited by: 17 **Author:** Sebastian Zundler, Markus F. Neurath

Publish Year: 2016

[Involvement of JAK/STAT Signaling in the Pathogenesis of ...](#)

<https://pubmed.ncbi.nlm.nih.gov/23827161>

In addition to their critical roles in a plethora of key cellular activities, the **JAK/STAT** signaling pathways also have been implicated in the pathogenesis of several diseases, including inflammatory bowel **disease** (IBD), especially since a JAK inhibitor recently has been shown to be effective in the treatment of **ulcerative colitis**.

Cited by: 184 **Author:** Mehmet Coskun, Mohammad Salem, Jan...

Publish Year: 2013

[JAK-STAT pathway targeting for the treatment of ...](#)

<https://www.nature.com/articles/s41575-020-0273-0>

Mar 19, 2020 · The biological effects of cytokines, including several involved in the **pathology of Crohn's disease** and **ulcerative colitis**, occur as a **result of receptor-mediated signalling** through the Janus...



Differential regulation of JAK/STAT-signaling in patients



ALL IMAGES VIDEOS MAPS NEWS SHOPPING

28,800 Results

Any time ▾

Immune Markers and Differential Signaling Networks in ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3407828>

Ulcerative colitis (UC) and **Crohn's disease** (CD) have unique as well as overlapping phenotypes, susceptibility genes, and gene expression profiles. This study aimed to delineate patterns within cytokine signaling pathways in colonic mucosa of UC and CD **patients**, explore molecular diagnostic markers, and identify novel immune-mediators in IBD ...

Cited by: 113

Author: George P. Christophi, George P. Christop...

Publish Year: 2012

Involvement of JAK/STAT Signaling in the Pathogenesis of ...

<https://pubmed.ncbi.nlm.nih.gov/23827161>

In addition to their critical roles in a plethora of key cellular activities, the **JAK/STAT** signaling pathways also have been implicated in the pathogenesis of several diseases, including inflammatory bowel **disease** (IBD), especially since a JAK inhibitor recently has been shown to be effective in the treatment of **ulcerative colitis**.

Cited by: 184

Author: Mehmet Coskun, Mohammad Salem, Jan...

Publish Year: 2013

JAK-STAT pathway targeting for the treatment of ...

<https://www.nature.com/articles/s41575-020-0273-0>

Mar 19, 2020 · JAK-STAT pathway targeting for the treatment of inflammatory bowel **disease**. ... consequences of **Jak-STAT** signaling in the immune system. ... mucosa of **patients with ulcerative colitis** ...

Author: Azucena Salas, Cristian Hernandez-R...

Publish Year: 2020

Integrating Immunologic Signaling Networks: The JAK/STAT ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4810057>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3407828/> we will explain current concepts of the implication of **JAK/STAT** signaling in

See results for

[Crohn's Disease \(Medical Condition\)](#)

A chronic inflammation of the digestive tract.