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The gut-brain axis and its affect on inflammatory bowel diseas



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Irritable bowel syndrome: A microbiome-gut-brain axis ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4202342>

Oct 21, 2014 - Core tip: A dysregulated gut-brain axis may be responsible for the main features of irritable bowel syndrome (IBS). However, the role of the gut microbiota is an underappreciated but critical node in this construct.

Cited by: 179

Author: Paul J Kennedy, John F Cryan, Timothy ...

Publish Year: 2014

Inflammatory bowel diseases and brain-gut axis

https://www.researchgate.net/.../8627298_Inflammatory_bowel_diseases_and_brain-gut_axis

Inflammatory bowel disease (IBD) is a chronic intestinal inflammatory disorder considered as a consequence of an aberrant response of the immune system to luminal antigens.

Author: D Hollander

The Microbiome-Gut-Brain Axis in Health and Disease ...

https://www.researchgate.net/publication/312253202_The_Microbiome-Gut-Brain_Axis_in...

The microbiome-gut-brain axis term has been coined based on these above results (32, 33). It suggests that there is crosstalk between the gut microbiota and brain with bacteria within the ...

Is there a 'gut-brain-skin axis'? - Arck - 2010 ...

<https://onlinelibrary.wiley.com/doi/full/10.1111/j.1600-0625.2009.01060.x>

Also, the 'gut-brain axis' has increasingly become a target for therapeutic intervention in gastrointestinal diseases, obesity and metabolic syndrome (8, 9). Furthermore, immense interest has recently been raised by the possible use of ingested commensal organisms for treating inflammatory and allergic conditions (10 , 11).

Cited by: 84

Author: Petra Arck, Petra Arck, Bori Handjiski, E...

Publish Year: 2010

Stress and the brain-gut axis in functional and chronic ...

<https://www.sciencedirect.com/science/article/pii/S0306453019312430>

These include the functional gastrointestinal disorders (FGID), such as irritable bowel syndrome and functional dyspepsia, as well as inflammatory bowel diseases (IBD) like ulcerative colitis and Crohn's disease.

Author: Alexandra Labanski, Jost Langhorst, ...

Publish Year: 2020

Gut-brain Axis

Psychobiotics is a term used in preliminary research to refer to live bacteria that, when ingested in appropriate amounts, might confer a mental health benefit by affecting microbiota of the host organism. Whether bacteria might play a role in the gut-brain axis is under research. However, as of 2018, there is a paucity of randomized controlled trials testing the effects of live, ingested bacterial strains on clear mental health outcomes, and those that have been done provide inconclusive results when viewed in aggregate.



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Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 53824

Manuscript Type: REVIEW

**Microbiota-gut-brain axis and its affect inflammatory bowel disease:
pathophysiological concepts and insights for clinicians**

**Emanuele Sinagra, Erika Utzeri, Gaetano Cristian Morreale, Carlo Fabbri, Fabio Pace,
Andrea Anderloni**

Abstract

Despite the bi-directional interaction between gut microbiota and the brain not being fully understood, there is increasing evidence arising from animal and human studies that show how this intricate relationship may facilitate inflammatory bowel disease (IBD) pathogenesis, with consequent important implications on the possibility to improve the clinical outcomes of the diseases themselves, by acting on the different components of this system, mainly by modifying the microbiota.

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The gut microbiota and the brain-gut-kidney axis in ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6385605>

Crosstalk between the gut microbiota and the host has attracted considerable attention owing to **its** involvement in diverse **diseases**. Chronic kidney **disease** (CKD) is commonly associated with hypertension and is characterized by immune dysregulation, metabolic disorder and sympathetic activation, which are all linked to gut dysbiosis and altered host-microbiota crosstalk.

Cited by: 33**Author:** Tao Yang, Elaine M. Richards, Carl J. Pe...**Publish Year:** 2018

The microbiota–gut–brain axis in gastrointestinal ...

<https://physoc.onlinelibrary.wiley.com/doi/full/10.1113/jphysiol.2014.273995>

The **gut–brain axis** is the bidirectional communication between the **gut and the brain**, which occurs through multiple pathways that include hormonal, neural and **immune mediators**. The signals along this **axis** can originate in the **gut**, the **brain** or both, with the objective of maintaining normal **gut** function and appropriate behaviour.

Cited by: 193**Author:** Giada De Palma, Stephen M. Collins, Pre...**Publish Year:** 2014

The microbiota–gut–brain axis in gastrointestinal ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4214655>

Jul 15, 2014 · The microbiota–gut–brain **axis** comprises the bidirectional communication, through multiple pathways, between the gut and the brain The known beneficial **effects** of laxatives and oral antibiotics in patients with hepatic encephalopathy is perhaps one of the earliest pieces of evidence for a role of gut bacteria in brain function (Victor ...

Cited by: 193**Author:** Giada De Palma, Stephen M. Collins, Pre...



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