

Gut microbiota-derived metabolites as key actors in ...

<https://www.nature.com/articles/s41575-019-0258-z>



Feb 19, 2020 · Gut microbiota-derived metabolites are key molecular mediators between the microbiota and host. Several untargeted studies have demonstrated ...

Cited by: 126 Author: Aonghus Lavelle, Aonghus Lavelle...
Publish Year: 2020

Gut microbiota-derived metabolites as central regulators ...

<https://gut.bmj.com/content/early/2020/12/02/gutjnl-2020-323071> ▾

Dec 03, 2020 · Gut microbiota-derived metabolite trimethylamine N-oxide (TMAO) potentially increases the risk of obesity in adults: an exploratory systematic review and dose-response meta-analysis. *Obes Rev* 2020 ; 21 : e12993 .

Cited by: 5 Author: Allison Agus, Karine Clément, Harry Sokol
Publish Year: 2020

PEOPLE ALSO ASK

- How is the gut microbiota related to metabolism? ▾
- How does the gut microbiota regulate white adipose tissue? ▾
- How are metabolites related to host - microbiota cross talk? ▾
- How is bile acid dysmetabolism related to metabolic syndrome? ▾

Feedback

[PDF] **Gut microbiota-derived metabolites as central regulators ...**

<https://gut.bmj.com/content/gutjnl/early/2020/12/02/gutjnl-2020-323071.full.pdf>

Dec 02, 2020 · classes of microbiota-derived metabolites, notably bile acids, short-chain fatty acids, branched-chain amino acids, trimethylamine N-oxide, tryptophan and indole derivatives, have been implicated in the pathogenesis of metabolic disorders. This review aims to define the key classes of microbiota-derived metabolites that are altered

Cited by: 5 Author: Allison Agus, Karine Clément, Harry Sokol
Publish Year: 2020

ALL IMAGES VIDEOS

Add the Olive with Bing extension

32,900 Results Any time

Gut microbiota-derived metabolites as central regulators ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8108286

Dec 03, 2020 Microbiota-derived metabolites mediate diverse effects on host metabolism. SCFAs (green frame) (i) increase satiety and browning of white adipose tissue (WAT), (ii) induce a decrease in lipogenesis and associated inflammation; (iii) increase the secretion of glucagon-like peptide 1 (GLP-1) and peptide YY (PYY) and (iv) participate in the maintenance of intestinal barrier integrity.

Cited by: 14 Author: Allison Agus, Karine Clément, Harry Sokol Publish Year: 2021

Gut microbiota-derived metabolites as central regulators ...

https://gut.bmj.com/content/70/6/1174

Jun 01, 2021 Gut microbiota-derived metabolite trimethylamine N-oxide (TMAO) potentially increases the risk of obesity in adults: an exploratory systematic review and dose-response meta-analysis. Obes Rev 2020; 21: e12999.

Cited by: 14 Author: Allison Agus, Karine Clément, Harry Sokol Publish Year: 2021

PEOPLE ALSO ASK

- How is the gut microbiota related to obesity?
How are gut microbiota-derived metabolites produced in the body?
How does the gut microbiota help the host?
How are gut microorganisms related to gastrointestinal cancer?

Feedback

Gut microbiota-derived metabolites in the regulation of ...

https://www.nature.com/articles/s41423-021-00661-4

Mar 11, 2021 Trimethylamine N-oxide, Trimethylamine (TMA) is a gut microbiota metabolite derived from carnitine, choline, or choline-containing compounds in the diet. 54 The formation of ...

Cited by: 3 Author: Wenjing Yang, Yingzi Cong Publish Year: 2021

Gut Microbiota-Derived Metabolites in the Development of ...

https://www.hindawi.com/journals/cjdm/2021/6658674

Abstract Introduction Synthesis of Short-Chain Fatty A... Conclusion

Gut microbiota is increasingly recognized as a metabolic organ essential for human health. Compelling evidences show a variety set of links between diets and gut microbial homeostasis. Changes in gut microbial flora would probably contribute to the development of certain diseases such as diabetes, heart disease, allergy, and psychiatric diseases. In addition to the composition of gut microbiota, the metabolites derived from gut microbiota have emerged as a pivotal regulator in diseases development. ...

See more on hindawi.com

Cited by: 1 Author: Guangyu Shen, Jing Wu, Bang Ce Ye, Nan Qi Publish Year: 2021

Role of the intestinal microbiome and microbial-derived ...

https://genomemedicine.biomedcentral.com/articles/...

Jun 23, 2021 A major metabolic activity of the intestinal microbiome is the conversion of ingested dietary fiber and mucosal glycans into short-chain fatty acids (SCFAs), which include acetate, propionate, and butyrate [43].

Images of Gut microbiota-derived Metabolites As Key Mucosal Bar...

bing.com/images



See all images

Gut microbiota-mediated inflammation in obesity: a link ...

https://www.nature.com/articles/s41575-018-0025-6

May 29, 2018 Both the terms 'gut barrier function' and 'gut permeability' are often used interchangeably, although they refer to different key functional aspects of the mucosa 97. For example, gut ...

Some results are removed in response to a notice of local law requirement. For more information, please see here.



Name of Journal: *World Journal of Gastroenterology*
Manuscript NO: 64603
Manuscript Type: MINIREVIEWS

Gut microbiota-derived metabolites as key mucosal barrier modulators in obesity

Wei Y *et al.* Microbial metabolites in obesity

Yan-Xia Wei, Kui-Yang Zheng, Yu-Gang Wang

Abstract

A significant breakthrough in the field of obesity research was the demonstration that an obese phenotype could be manipulated by modulating the gut microbiota. An important next step is to elucidate a human-relevant "map" of microbiota-host interactions that regulate the metabolic health of the host. An improved understanding of this crosstalk is a prerequisite for optimizing therapeutic strategies to combat obesity. Intestinal mucosal barrier dysfunction is an important contributor to metabolic diseases

Match Overview

Rank	Source	Match Percentage
1	Internet 71 words crawled on 16-Nov-2019 www.physiology.org	3%
2	Crossref 51 words Hu Zeng, Hongbo Chi, "Metabolic control of regulatory T... cell development and function", Trends in Immunology, 201	2%
3	Internet 41 words crawled on 05-Jul-2021 science.sciencemag.org	1%
4	Internet 39 words crawled on 17-Feb-2020 link.springer.com	1%
5	Crossref 37 words J.M. Landale, "Elagatamirs, ellagic acid and their deriv... metabolites: A review about source, metabolism, function	1%
6	Internet 30 words crawled on 03-May-2020 www.frontiersin.org	1%
7	Crossref 29 words Sohartha R. Sinha, Yenesh Halleselassie, Linh P. Nguy... en, Carolina Tropini <i>et al.</i> "Dysbiosis-Induced Secondar...	1%
8	Crossref 28 words Kasubuchi, Mayu, Sae Hasegawa, Takero Hiramatsu, Ats... uhiko Ichimura, and Ikuo Kimura. "Dietary Gut Microbia...	1%
	Crossref 24 words	

国内版

国际版

Gut microbiota-derived metabolites as key mucosal barrier modul



ALL

IMAGES

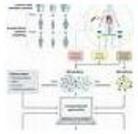
VIDEOS

13,100 Results

Any time ▾

Gut microbiota-derived metabolites as key actors in ...

<https://www.nature.com/articles/s41575-019-0258-z?proof=t>



Feb 19, 2020 · Gut microbiota-derived metabolites are key molecular mediators between the microbiota and host. Several untargeted studies have demonstrated ...

Cited by: 145

Author: Aonghus Lavelle, Aonghus Lavelle...

Publish Year: 2020

Gut microbiota-derived metabolites as central regulators ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8108286>

Dec 03, 2020 · Microbiota-derived metabolites mediate diverse effects on host metabolism. SCFAs (green frame): (i) increase satiety and browning of white adipose tissue (WAT); (ii) induce a decrease in lipogenesis and associated inflammation; (iii) increase the secretion of glucagon-like peptide 1 (GLP-1) and peptide YY (PYY) and (iv) participate in the maintenance of intestinal barrier integrity.

Cited by: 18

Author: Allison Agus, Karine Clément, Harry Sokol

Publish Year: 2021

PEOPLE ALSO ASK

What is the role of the gut microbiota? ▾

What kind of metabolites are produced by microbes? ▾

How are metabolites related to host-microbiota cross talk? ▾

Feedback

Gut microbiota-derived metabolites as central regulators ...

<https://gut.bmj.com/content/70/6/1174> ▾

Jun 01, 2021 · Gut microbiota-derived metabolite trimethylamine N-oxide (TMAO) potentially increases the risk of obesity in adults: an exploratory systematic review and dose-response meta-analysis. *Obes Rev* 2020 ; 21 : e12993 .

Cited by: 18

Author: Allison Agus, Karine Clément, Harry Sokol

Publish Year: 2021