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Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 50125

Manuscript Type: ORIGINAL ARTICLE

Observational Study

Evaluation and comparison of short chain fatty acids composition in gut diseases

Niccolai E *et al.* SCFA profiles in gut diseases

Elena Niccolai, Simone Baldi, Federica Ricci, Edda Russo, Giulia Nannini,
Marta Menicatti, Giovanni Poli, Antonio Taddei, Gianluca Bartolucci,
Antonino S Calabrò, Francesco Claudio Stingo, Amedeo Amedei



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Analysis of the gut microbiome and plasma short-chain ...

<https://www.nature.com/articles/s41598-017-16189-5>

Nov 20, 2017 · Abstract. **Gut dysbiosis**, an imbalance of **gut microbiota**, has been implicated in the pathogenesis of **metabolic syndrome**, but its mechanisms are unknown. **Short-chain** fatty acids (SCFAs) are the main fermentation products of **gut microbiota** and a link between the **gut microbiota** and the host's physiology.

Cited by: 8

Author: Kazuchika Nishitsuji, Jinzhong Xiao, Ryo...

Publish Year: 2017

Author: Kazuchika Nishitsuji

Fecal microbes, short chain fatty acids, and colorectal ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4351229>

Mar 07, 2015 · The byproducts of their fermentation activities are short chain fatty acids (SCFAs), such as **acetate**, **n-butyrate**, **propionate**, and **valerate**. These SCFAs are utilized by epithelial cells in the gut and/or excreted in stool. **Butyrate** has anti-proliferative properties in vitro and anti-cancerous properties in mouse models.

Cited by: 27

Author: Christina M Hester, Venkatakrishna R Jal...

Publish Year: 2015

Faecal short-chain fatty acids - a diagnostic biomarker ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4847229>

Apr 27, 2016 · **Faecal samples**: **Stool samples** were analysed for **short-chain fatty acids** (**acetic acid**, **propionic acid**, **butyric acid**, **isobutyric acid**, **valeric acid**, and **isovaleric acid**) with gas chromatography as described by Szczesniak et al. [22]. The amounts of SCFA have been reported as mmol/l and molar%.

Cited by: 19

Author: Per Grønaas Farup, Per Grønaas Farup, ...

Publish Year: 2016

Short chain fatty acids analysis - slideshare.net

<https://www.slideshare.net/Creative-Proteomics/short-chain-fatty-acids-analysis> ▾

Oct 08, 2018 · **Short chain fatty acids analysis** 1. **Short Chain Fatty Acids Analysis** Presented by Creative Proteomics 2. 01 Introduction Dietary Fiber It has been studied that there are associations between increased dietary fiber intake and lower mortality from cardiovascular **diseases** and ...



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The Benefits of Short Chain Fatty Acid for Patients with ...

<https://www.foundationalmedicinereview.com/blog/benefits-short-chain-fatty-acid...> ▾

The three most common short chain fatty acids in the human gut are **acetic acid** (2 carbons in the tail), **propionic acid** (3 carbons in the tail), and **butyric acid** (4 carbons in the tail). Together, they make up about 95 percent of all the short chain fatty acids in the GI tract.

Short chain fatty acids and gut microbiota differ between ...

<https://www.sciencedirect.com/science/article/pii/S1353802016303236>

Fecal **short chain fatty acids** (SCFA) are reduced in **Parkinson's disease**. The reduction in SCFA is consistent with the altered **gut microbiota composition**. The reduction in SCFA might contribute to **gastrointestinal dysmotility** in **Parkinson's disease**.

Cited by: 212

Author: Marcus M. Unger, Jörg Spiegel, Klaus-Ulr...

Publish Year: 2016

The interplay among gut microbiota, hypertension and ...

<https://www.sciencedirect.com/science/article/pii/S1043661818316840>

In addition to the active participation of the microbiota in the intestine structure, the **gut microbiota** is a powerful scavenger of non-digested dietary components and produces several metabolites essential to the host health, such as **bile acids**, **choline**, **vitamins** and **short-chain fatty acids** (SCFAs) .

Cited by: 2

Author: R.J.F. Felizardo, R.J.F. Felizardo, I. K.M. ...

Publish Year: 2019

The role of short-chain fatty acids - Fit Yourself Club

<https://fityourself.club/the-role-of-short-chain-fatty-acids-41fa3f14409f> ▾

Feb 17, 2017 · The role of **short-chain fatty acids**. SCFAs produced by the **gut microbiota** can be found in blood throughout the body and affect lipid, glucose, and cholesterol metabolism. A major portion of the SCFAs is used as an energy source. In humans, SCFAs provide ~10% of the daily **caloric requirements**[15].

Author: Thryve

Human-origin probiotic cocktail increases short-chain ...

<https://www.nature.com/articles/s41598-018-30114-4>

Aug 23, 2018 · The **gut bacteria** producing metabolites like **short-chain fatty acids** (SCFAs; e.g., acetate, propionate and butyrate), are frequently reduced in Patients with **diabetes**, **obesity**,



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Author: R.J.F. Felizardo, R.J.F. Felizardo, I. K.M. Wat...

Publish Year: 2019

The role of short-chain fatty acids - Fit Yourself Club

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Feb 17, 2017 · The role of **short-chain fatty acids**. SCFAs produced by the **gut microbiota** can be found in blood throughout the body and affect lipid, glucose, and cholesterol metabolism. A major portion of the **SCFAs** is used as an energy source. In humans, SCFAs provide ~10% of the daily **caloric requirements**...

Author: Thryve

Evaluation and Optimization of Sample Handling Methods for ...

<https://pubs.acs.org/doi/10.1021/acs.jproteome.8b00536>

The **gut microbiota** has attracted a great deal of interest in recent years due to its association with many **diseases**. **Short-chain fatty acids** (SCFAs), the end products of dietary fiber fermentation by the intestinal microbiota, are among the most frequently discussed **gut** metabolites. As the sample handling method greatly affects the integrity of data, this study investigated the most important ...

Author: Ya-Lin Hsu, Chieh-Chang Chen, Ya-Ting ...

Publish Year: 2019

Human-origin probiotic cocktail increases short-chain ...

<https://www.nature.com/articles/s41598-018-30114-4>

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