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Crosstalk between gut microbiota and anti-diabetic drug action



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Crosstalk between Gut Microbiota and Dietary Lipids Aggravates WAT Inflammation through TLR Signaling. Robert Caesar. ... Louvain **Drug** Research Institute, Metabolism and Nutrition Research Group, WELBIO (Walloon Excellence in Life Sciences and BIOTEchnology), 1200 Brussels, Belgium ... mechanisms of **action** and implications. J. Nutr. 2009; 139: 1-4.

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Author: Robert Caesar, Valentina Tremaroli, Petia...

Publish Year: 2015

Gut microbiota and intestinal FXR mediate the clinical ...

www.nature.com > [nature medicine](#)

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Cited by: 4

Author: Lulu Sun, Cen Xie, Guang Wang, Yue Wu...

Publish Year: 2018

Bi-directional drug-microbiome interactions of anti ...

<https://www.sciencedirect.com/science/article/pii/S2352396418305504>

Understanding the dynamics of **drug-microbiome cross-talk** would offer better therapeutic outcomes for diabetes. Abstract. ... the interaction **between gut microbes and anti-diabetic drugs** and its influence on **drugs'** functions remains of immediate research interest. ... These studies indicate that there is an interaction **between gut microbiota** and ...

Author: Andrew Whang, Ravinder Nagpal, Hari... Publish Year: 2018

The gut microbiota and metabolic disease: current ...

<https://onlinelibrary.wiley.com/doi/full/10.1111/joim.12508>

Most studies have focused on the **gut microbiota**, which is a dynamic ecosystem shaped by a number of factors such as genetics, diet and environment 4. The adult **gut microbiota** is dominated by taxa belonging to two phyla, Bacteroidetes and Firmicutes 5, but the relative proportions of these phyla differ **between** populations (Fig. 1).

Cited by: 120

Author: T. Arora, Fredrik Bäckhed, Fredrik Bäckhed

Publish Year: 2016

New mechanisms of metformin action: Focusing on ...

www.ncbi.nlm.nih.gov > ... > J Diabetes Investig > v.6(6); 2015 Nov

Feb 28, 2015 · Owen MR, Doran E, Halestrap AP. Evidence that metformin exerts its **anti-diabetic** effects through inhibition of complex I of the mitochondrial respiratory chain. ... The **gut microbiota** as an

Name of Journal: *World Journal of Diabetes*

Manuscript NO: 46593

Manuscript Type: REVIEW

Crosstalk between gut microbiota and anti-diabetic drug action

Kyriachenko Y *et al.* Gut microbiota and anti-diabetic drug action

Yevheniia Kyriachenko, Tetyana Falalyeyeva, Oleksandr Korotkyi, Nataliia Molocheh,
Nazarii Kobyliak

Abstract

Type 2 diabetes (T2D) is a disorder characterized by chronic inflated blood glucose levels (hyperglycemia) at first due to insulin resistance and unregulated insulin secretion, with tendency of global spreading. Gut microbiota is recognized to have an

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Crosstalk **between Gut Microbiota** and Dietary Lipids Aggravates WAT Inflammation through TLR Signaling. Robert Caesar. ... Louvain **Drug** Research Institute, Metabolism and Nutrition Research Group, WELBIO (Walloon Excellence in Life Sciences and BIotechnology), 1200 Brussels, Belgium ... mechanisms of **action** and implications. J. Nutr. 2009; 139: 1-4.

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Author: Robert Caesar, Valentina Tremaroli, Petia...

Publish Year: 2015

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[www.nature.com](http://www.nature.com/naturemedicine) › [nature medicine](http://www.nature.com/naturemedicine)

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Author: Lulu Sun, Cen Xie, Guang Wang, Yue Wu...

Publish Year: 2018

Crosstalk Between The Immune Receptors and Gut ...

www.eurekaselect.com/132575/article ▼

The crosstalk **between** PRRs and **microbiota** connects the microbial **action** with the host response. This article outlines recent advances in the role of immune sensors in the **gut microbiota** balance and the related **microbiota**-host interaction. ... Crosstalk **Between** The Immune Receptors **and Gut Microbiota**. ... Chunlong Mu, Yuxiang Yang and Weiyun Zhu ...

Published in: [Current Protein & Peptide Science](#) · 2015Authors: [Chunlong Mu](#) · [Yuxiang Yang](#) · [Weiyun Zhu](#)

Impact of the gut microbiota on inflammation, obesity, and ...

www.ncbi.nlm.nih.gov › [Journal List](#) › [Genome Med](#) › v.8; 2016

Apr 20, 2016 · Impact of the **gut microbiota** on inflammation, obesity, **and** metabolic disease. ... Crosstalk **between** the **gut microbiota** and the mammalian host in inflammation and metabolism. ... Link **between** impaired insulin **action**, low-grade inflammation, and obesity.

Cited by: 265

Author: Claire L. Boulangé, Ana Luisa Neves, Juli...

Publish Year: 2016

Crosstalk Between The Immune Receptors and Gut Microbiota.

<https://reference.medscape.com/medline/abstract/26122782> ▼

The crosstalk **between** PRRs and **microbiota** connects the microbial **action** with the host response. This article outlines recent advances in the role of immune sensors in the **gut microbiota** balance and