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*Basic Study*

**Trimethylamine N-oxide attenuates high-fat high-cholesterol diet-induced steatohepatitis by reducing hepatic cholesterol overload in rats**

Zhao ZH *et al.* TMAO attenuates steatohepatitis in rats

Ze-Hua Zhao, Feng-Zhi Xin, Da Zhou, Ya-Qian Xue, Xiao-Lin Liu, Rui-Xu Yang, Qin Pan, Jian-Gao Fan

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## Dietary sphingomyelin attenuates hepatic steatosis and ...

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Dietary sphingomyelin **attenuates hepatic** steatosis and adipose tissue inflammation in **high fat diet-induced** obese mice Article in The Journal of nutritional biochemistry 40 · October 2016 with 23 ...

## Degradation of trimethylamine in vitro and in vivo by ...

<https://www.sciencedirect.com/science/article/pii/S0964830518307315>

The control group ones were given the same volume of PBS every day. During the 14-day experimental period, all **rats** ate a **high-fat** diet ad libitum ... J. Yang, J.D. Zhu, Q.Y. Zhang, M.T. MiResveratrol **attenuates trimethylamine-N-oxide** (TMAO)-Induced atherosclerosis by ... **Trimethylamine N-oxide**, Exacerbate Pressure **Overload**-induced Heart ...

**Author:** Yi-ran Chen, Shu-ting Fang, Hai-yue L... **Publish Year:** 2018

## Dietary metabolism, the gut microbiome, and heart failure ...

[www.nature.com](http://www.nature.com) › [nature reviews cardiology](#)

Nov 08, 2018 · Organ, C. L. et al. Removal of **dietary trimethylamine N-oxide** (TMAO) **attenuates cardiac dysfunction** in pressure **overload induced heart failure** [abstract]. Circulation 134 (Suppl. 1), ...

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**Publish Year:** 2019

## Interaction between gut microbiome and cardiovascular ...

<https://www.sciencedirect.com/science/article/pii/S0024320518306982>

Many risk factors are widely known, such as smoking, poor dietary **habits**, obesity, **diabetes mellitus and high cholesterol**, but these cannot explain all CVD incidences. Recent studies focus our attention on the interaction between gut microbiome and CVD [2,3]. Accumulating evidence has demonstrated that gut microbiome and their **metabolites** play a pivotal role in the onset and progression of CVD.

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### Palmiwon attenuates hepatic lipid accumulation and hyperlipidemia in ...

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In ovariectomized **rats**, palmiwon **reduced** retroperitoneal **and** perirenal fat accumulation, ... nonalcoholic fatty **liver** disease **and** nonalcoholic **steatohepatitis** (NASH).2 ... as well as to stimulation of fatty acid **oxidation and** ketogenesis.18,20,21 ... diseases **induced** by a **high-fat, high-cholesterol diet** in ovariectomized **rats**.

### Resveratrol Attenuates Trimethylamine-N-Oxide (TMAO)-Induced ...

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2016年4月5日 - Primary BAs are synthesized from **cholesterol** in the **liver and** further ... For RSV-treated **mice** given TMA, **TMAO** levels were higher **and** ... **diet** for 1 month, they failed to **reduce** TMA **and TMAO** contents after choline administration (Fig. .... microbiota dysbiosis **induced** by a **high-fat diet**, including increasing ...

### Association of moderately elevated trimethylamine N-oxide with ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6443140/> ▼ [翻译此页](#)

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2019年2月27日 - Indeed, the correlations between **TMAO and** diabetes risk appear to be stronger than .... Administration of the **cholesterol-lowering** prebiotic glucaro-1,4-lactone to **rats** fed a **high-fat diet**, which markedly boosted intestinal levels of ... **Hepatic** insulin resistance **and** its common concomitant **hepatic** steatosis ...

### Fatty Liver and Chronic Kidney Disease: Novel Mechanistic Insights ...

[care.diabetesjournals.org/content/39/10/1830](https://care.diabetesjournals.org/content/39/10/1830) ▼ [翻译此页](#)

作者: G Musso - 2016 - 被引用次数: 38 - [相关文章](#)

Nutritional factors involved in **liver and** renal disease in NAFLD **and** CKD .... diabetes **and** the impact of HDL **cholesterol reduction** on long-term CVD risk. .... **and trimethylamine-N-oxide (TMAO)**, have documented clinical relevance for the .... body fat mass by increasing fatty acid oxidation in **high-fat diet-induced** obese **rats**.

[PDF]

Modulation of the gut microbiota impacts non-alcoholic fatty liver disease