

Food & Function

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See Yu Zhang *et al.*,
pp. 4278–4290.

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See Xin Rui *et al.*,
pp. 4291–4302.

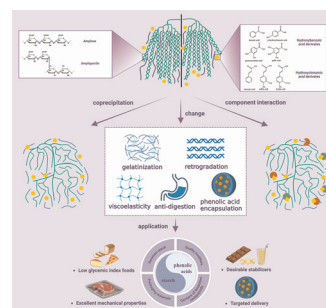
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The interaction between starch and phenolic acids: effects on starch physicochemical properties, digestibility and phenolic acids stability

Faying Zheng, Feiyue Ren, Xuchun Zhu, Zhaowei Han, Yuanqiang Jia, Xiaoyong Liu, Bingyu Chen* and Hongzhi Liu*



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Harnessing food-derived bioactive peptides for iron chelation: an alternative solution to iron deficiency anemia

Bing-De Zheng* and Mei-Tian Xiao



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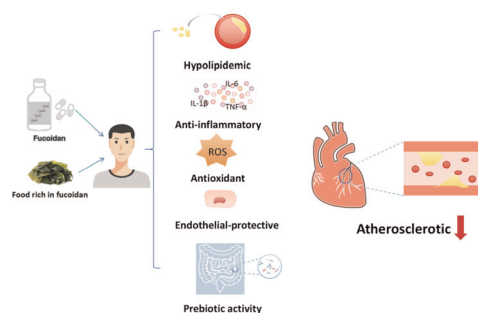


REVIEWS

4242

Therapeutic potential of fucoidan in atherosclerosis: a review

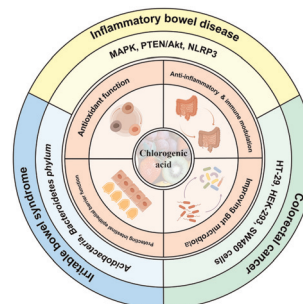
Qiujian Feng, Jinye Ma, Xuefan Jiang, Wei Wei, Dongchen Xu, Yu Cao* and Hui Pei*



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Chlorogenic acid and intestinal health: mechanistic insights and therapeutic applications

Jinzha Xu, Xiao Zhao,* Shuo Yang, Mengqi Tang, Runan Zhao and Shumeng Hu*

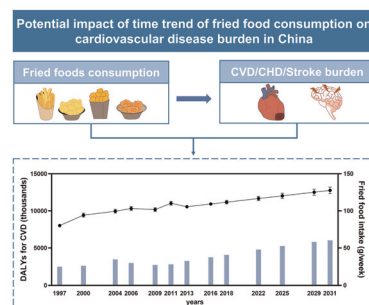


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Potential impact of the time trend of fried food consumption on the cardiovascular disease burden in China

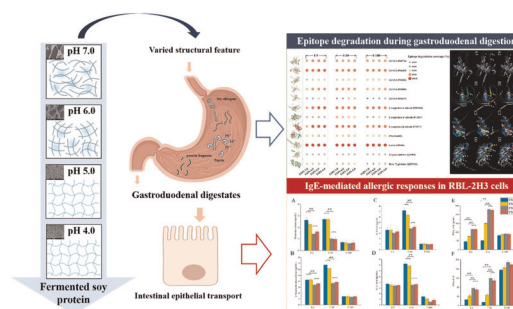
Anli Wang, Yang Ao, Xiaohui Liu, Xuzhi Wan, Pan Zhuang, Jingjing Jiao and Yu Zhang*



4291

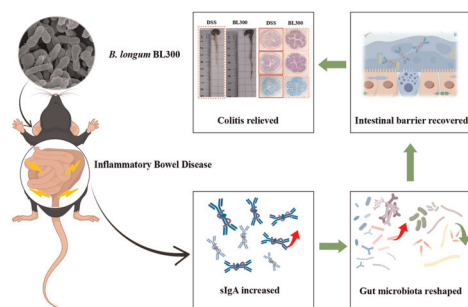
Insight into the effect of lactic acid fermentation on soy protein immunoreactivity: emphasizing the difference in epitope destruction of varied fermentation terminal pH levels during gastrointestinal digestion

Yaqiong Wang, Qiyuan Lu, Qiuqin Zhang, Runqiang Yang, Wei Li and Xin Rui*



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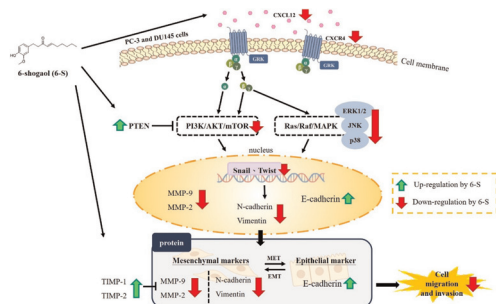
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Bifidobacterium longum BL300 alleviates DSS-induced Colitis by promoting IgA-mediated Gut Microbiota homeostasis

Haowen Jin, Hui Wang, Xin Feng, Xin Ma, Zhengyuan Zhai* and Yanling Hao*

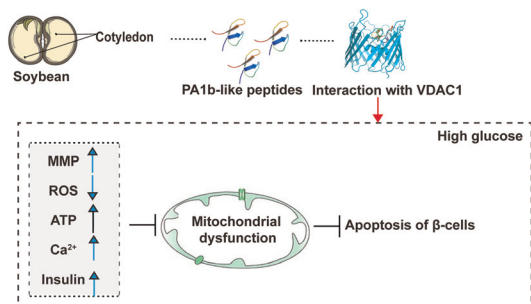
4315



6-Shogaol inhibits the cell motility of prostate cancer cells by suppressing the PI3K/AKT/mTOR and Ras/Raf/MAPK pathways with comparable effects to paclitaxel treatment

Pei-Jhen Cai, Sheng-Yi Chen, Yi-Fan Chen and Gow-Chin Yen*

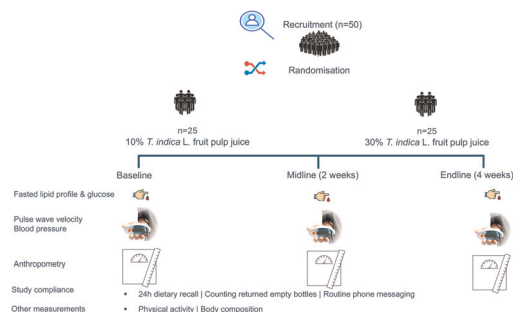
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PA1b-like peptides alleviate mitochondrial dysfunction induced by glucose toxicity through interaction with VDAC1 in β -cells

Huizhong Huang, Xinyu Zeng, Liying Zhang, Hongchang Cheng, Kanghong Hu, Xiaoke Shang* and Chenguang Yao*

4343



Effect of tamarind (*Tamarindus indica* L.) on the cardiometabolic health of patients living with HIV and elevated triglyceride levels: a dose–response double-blind, randomized exploratory trial

Tonny Kiyimba, Fred Kigozi, Michael Bamuwamy, Peter Yiga, Kathrine Nakatudde, Winnie Nabbanja, Patrick Ogowok, Toon Verdonck, Deirdre Cabooter, Bart Van der Schueren and Christophe Matthys*



Association between the quality of plant-based diets and risk of thyroid dysfunction

Healthy plant foods

- Whole grains
- Fruits
- Vegetables
- Nuts
- Legumes
- Tea and coffee

Less healthy plant foods

- Refined grains
- Potatoes
- Sugary drinks
- Fruit juices
- Sweets and desserts

Animal-based food groups

- Animal fat
- Dairy
- Eggs
- Fish or seafood
- Meat
- Miscellaneous animal-based foods

Thyroid Health

Protective
Oxidative stress ↓
Inflammatory ↓
Thyroid-gut axis

Ros Production ↑
Inflammatory ↑

ROS: Reactive oxygen species

Multi-omics analysis reveals the attenuation effect of C-phycocyanin on aging-induced subfertility in female mice

The natural dihydrochalcone phloretin reduces lipid accumulation *via* downregulation of IIS and *sbp-1/SREBP* pathways in HepG2 cells and *Caenorhabditis elegans*

[illegible]

Exploring the lipid-lowering effects of cinnamic acid and cinnamaldehyde from the perspective of the gut microbiota and metabolites

Gut Metabolomics Analysis

Colldextribacter, *Roseburia*, *Oscillospiraceae*

anti-inflammatory action, Involved in the synthesis of SCFAs

Romboutsia, *Eubacterium fissicatena*

Promotes inflammation and oxidative stress

Enterorhabdus, *Turicibacter*

Abnormal lipid metabolism, Aggravate intestinal damage

Gut metabolite Analysis

TNF- α , IL-6, IL-1 β , LPS

Inflammatory response

Leukotrienes C4, Prostaglandin E2, Arachidonic acid

Linoleic Acid

9-Oxononanoic Acid, 13S-Hydroperoxylinoleic Acid

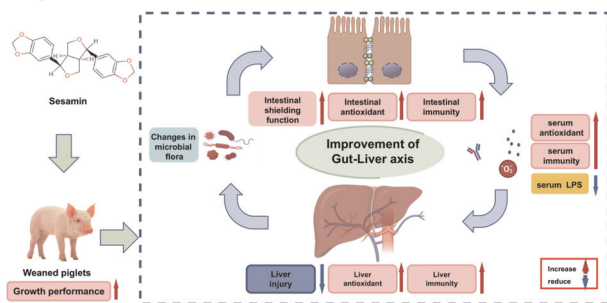
Traumatic damage

Lipid metabolism

TC, TG, LDL-C

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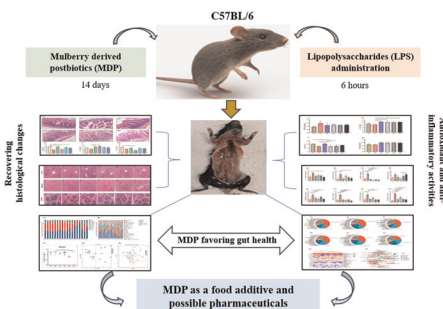
4415



Sesamin improved growth and overall health in young animals by enhancing gut–liver axis function

Chen Chen, Min Qi, Zhiran Xu, Jincheng Wen, Wenjie Tang, Hui Diao, Zhangcheng Li, Yunyun Chu, Fu Feng and Zhiru Tang*

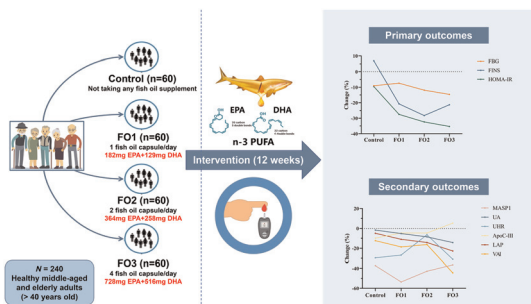
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Mulberry-derived postbiotics alleviate LPS-induced intestinal inflammation and modulate gut microbiota dysbiosis

Zaheer Abbas, Baseer Ahmad, Yucui Tong, Jing Zhang, Shuang Wu, Junyong Wang, Zhenzhen Li, Tianqi Liu, Yicong Liu, Xubiao Wei, Dayong Si* and Rijun Zhang*

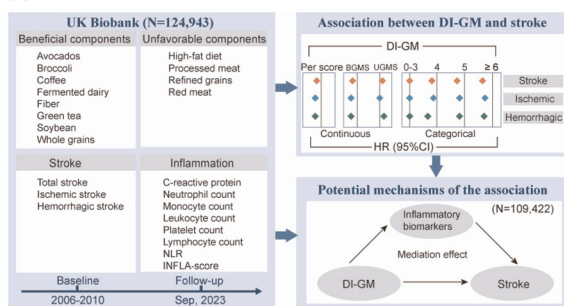
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Effects of fish oil intervention on type 2 diabetes early risk novel biomarkers in healthy middle-aged and elderly adults: a double-blind randomized controlled trial

Zhaoyang Nian, Yuting Lin, Wei Tang, Chunxia Quan, Jing Wen, Xinqian Jin, Zheqing Zhang and Limei Mao*

4465



Associations between dietary index for gut microbiota and stroke, and the mediating role of inflammation: a prospective cohort study

Min Liu, Meng Han, Yan Fu, Dan-Dan Zhang, Yong-Li Zhao, Qiong-Yao Li, Hao Hu, Hai-Hua Guo, Liang-Yu Huang, Chen-Chen Tan, Wei Xu and Lan Tan*

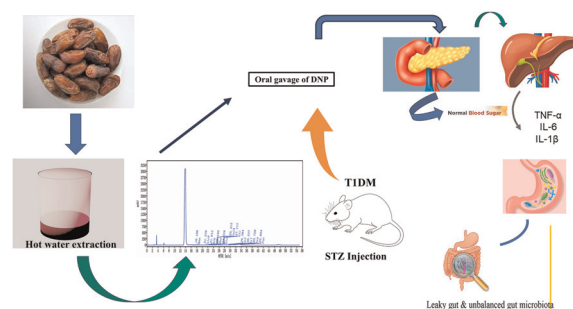


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Deglet Noor date derived polysaccharides lower blood glucose levels and modulate the gut microbiota in a streptozotocin-induced type-1 diabetic mouse model

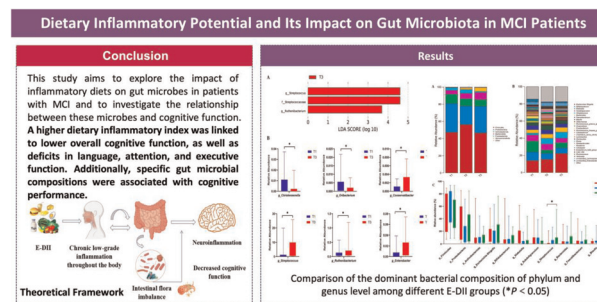
Hidayat Ullah, Yamina Alioui, Xiaoye Liu, Sharafat Ali, Bing Tang, Hongmei Lu, Yongdui Ruan* and Xianjing Hu*



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Dietary inflammatory potential and its impact on gut microbiota in patients with mild cognitive impairment

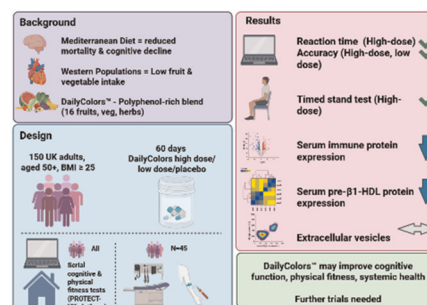
Jinxu Liu, Yuping Zhang, Xiaoqi Wu, Xiuli Li, Zhaoyi Hou, Bixia Wang, Lili Chen,* Fan Lin* and Mingfeng Chen*



4505

Effects of the DailyColors™ polyphenol supplement on serum proteome, cognitive function, and health in older adults at risk of cognitive and functional decline

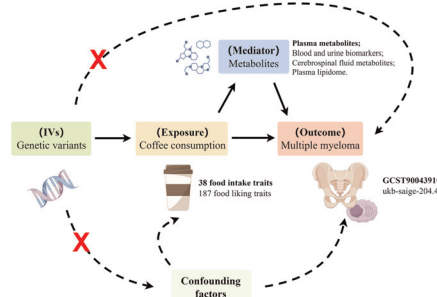
Mary O'Leary,* Joanna L. Bowtell, Megan Richards, Esra Bozbaş, Abbie Palmer, Kate Stych, Monica Meng, Adam Bloomfield, Lauren Struszcak, Jack Pritchard, Celeste Lugtmeijer, George Vere, Raif Yücel, Ana Rodriguez Mateos, Zicheng Zang, Jonathan C. Y. Tang, Clive Ballard and Anne Corbett*

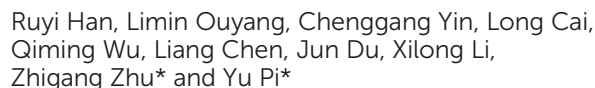
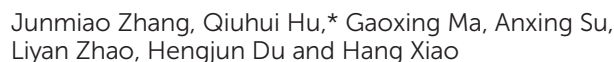


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Genetic association between coffee consumption and multiple myeloma mediated by plasma metabolites: a Mendelian randomization study

Shichong Lin, Dan Zhou, Hua Zhu, Gaoxiang Huang, Menglu Yu, Shaomin Chen, Junjie Wang and Weiqiang Xia*



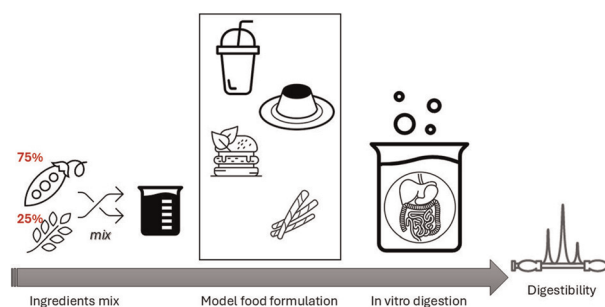


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INFOGEST *in vitro* digestion: protein breakdown in relation to food composition and moisture content

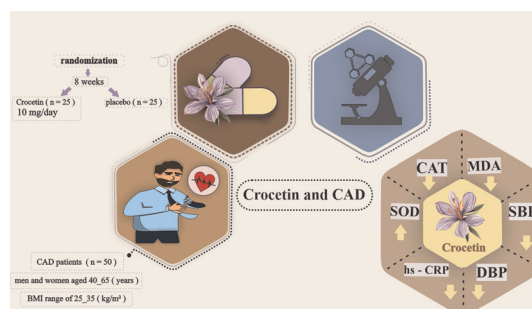
Alessandra Ferrara, Karen Mariel Treviño, Giovanni D'Auria, Sefora Esposito, C. Valeria L. Giosafatto, Giulia Basile, Raffaele Romano, Chiara Nitride* and Pasquale Ferranti



4604

The effect of crocetin (a saffron carotenoid) supplementation on antioxidant and inflammatory indexes and serum leptin concentration in patients with coronary artery disease

Faezeh Moeini Badi, S. Zahra Bathaie, Fatemeh Borazjani,* Seyed Ahmad Hosseini, Mohammad Ali Sheikhi, Sheikh Mohammed Shariful Islam, Kambiz Ahmadi Angali, Mohammadreza Taban Sadeghi and Parisa Rahimi



COMMENTS

4615

Comment on "Circulating fatty acids and risk of severe non-alcoholic fatty liver disease in the UK biobank: a prospective cohort of 116 223 individuals" by P. Zhuang, Y. Ao, X. Liu, H. Ye, H. Li, X. Wan, Y. Zhang and J. Jiao, *Food & Function*, 2024, 15, 10527

Zhitao Chen, Yangjun Gu, Shusen Zheng* and Qiyong Li*

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Reply to the 'Comment on "Circulating fatty acids and risk of severe non-alcoholic fatty liver disease in the UK biobank: a prospective cohort of 116 223 individuals"' by Zhitao Chen, Yangjun Gu, Shusen Zheng, and Qiyong Li, *Food & Function*, 2025

Pan Zhuang, Yu Zhang and Jingjing Jiao*

