

# Food & Function

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**Cover**  
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*et al.*, pp. 5224–5237.

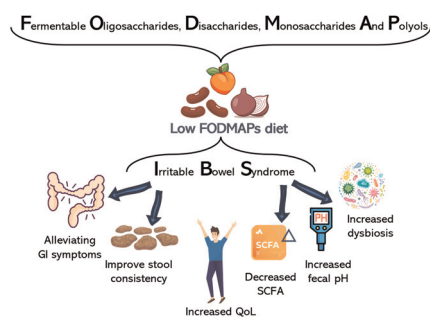
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### Effects of a low FODMAP diet on the symptom management of patients with irritable bowel syndrome: a systematic umbrella review with the meta-analysis of clinical trials

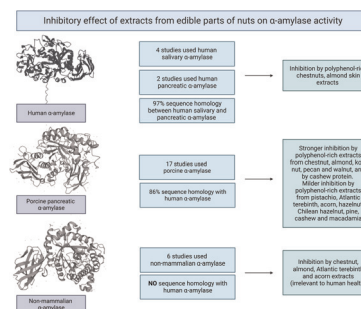
Masoumeh Khalighi Sikaroudi, Sepideh Soltani,  
Seyed Mojtaba Ghoreishy, Zohreh Ebrahimi,  
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### Inhibitory effect of extracts from edible parts of nuts on $\alpha$ -amylase activity: a systematic review

Mena Farazi, Michael J. Houghton,\* Barbara R. Cardoso,  
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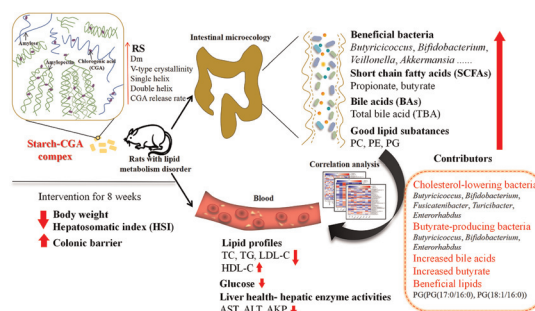


## PAPERS

5224

# Extrusion and chlorogenic acid treatment increase the ordered structure and resistant starch levels in rice starch with amelioration of gut lipid metabolism in obese rats

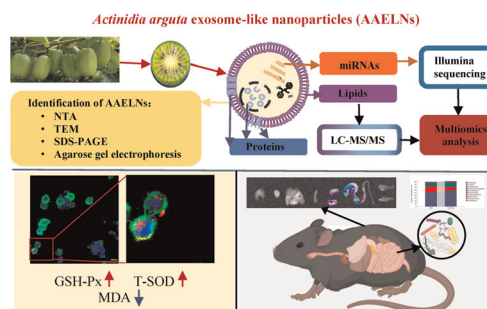
Xixi Zeng, Ling Chen\* and Bo Zheng\*



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# Omics-based approaches for discovering active ingredients and regulating gut microbiota of *Actinidia arguta* exosome-like nanoparticles

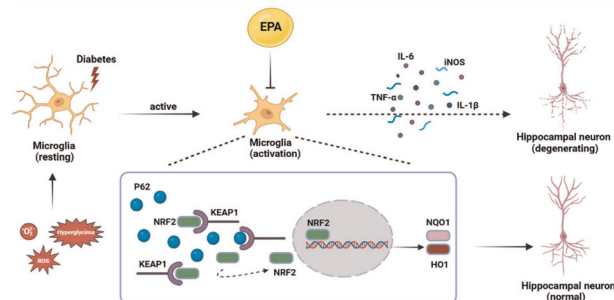
Chunping Chen, Guangjun Xia, Song Zhang, Yuxin Tian, Yuchen Wang, Duanduan Zhao and Hongyan Xu\*



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# Eicosapentaenoic acid activates the P62/KEAP1/NRF2 pathway for the prevention of diabetes-associated cognitive dysfunction

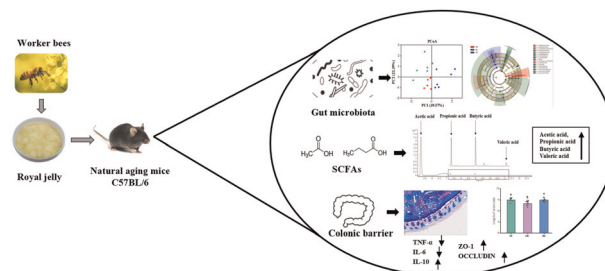
Ao Tian, Yan Zheng, Hui Li, Zhiyue Zhang, Lei Du, Xiaoli Huang\*, Lei Sun\* and Hao Wu\*



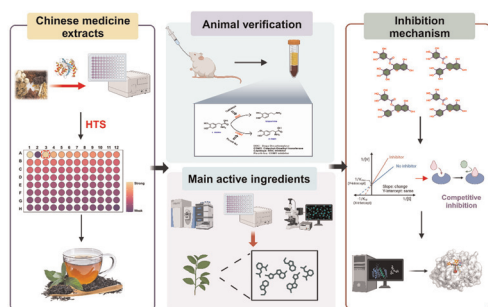
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# Long-term administration of royal jelly regulates age-related disorders and improves gut function in naturally aging mice

Lili Chen, Li Zhao, Gaowei Zhang, Zhuozhen Li, Liangliang Qu and Liping Luo\*



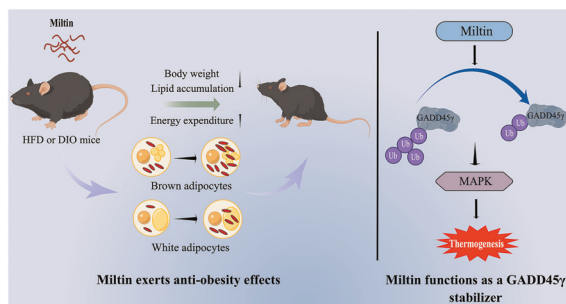
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### Bioactive components and mechanisms of Pu-erh tea in improving levodopa metabolism in rats through COMT inhibition

Ziqiong Zhou, Yan Li, Fangyuan Wang, Guanghao Zhu, Shenglan Qi, Haonan Wang, Yuhe Ma, Rong Zhu, Yuejuan Zheng,\* Guangbo Ge\* and Ping Wang\*

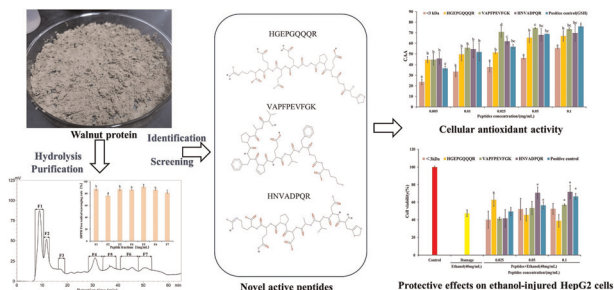
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### The dairy-derived peptide Miltin exerts anti-obesity effects by increasing adipocyte thermogenesis

Hong Zhong, Xiaoxiao Zhang, Yangyang Wu, Lu Li, Zhuo Zhang, Xia Chi,\* Xianwei Cui\* and Chenbo Ji\*

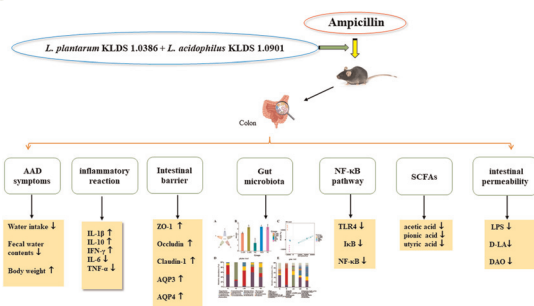
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### The antioxidant peptides from walnut protein hydrolysates and their protective activity against alcoholic injury

Peihang Chen, Pantian Huang, Yingyan Liang, Qiaoe Wang\* and Jianyin Miao\*

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### Milk-derived *Lactobacillus* with high production of short-chain fatty acids relieves antibiotic-induced diarrhea in mice

Baofeng Xu, Zengbo Wang, Yuqi Wang, Kangyong Zhang, Jian Li, Linyi Zhou\* and Bailiang Li\*

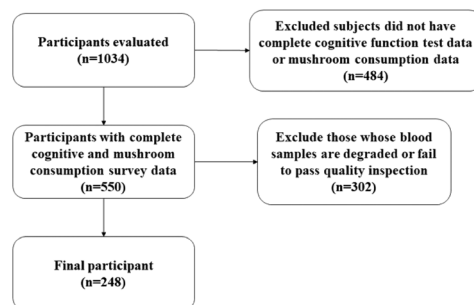


## PAPERS

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### Investigating the association between inflammation mediated by mushroom consumption and mild cognitive impairment in Chinese older adults

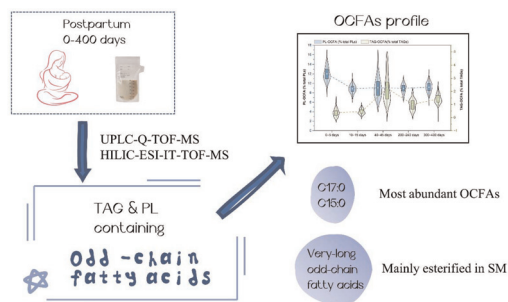
Lili Chen,\* Rongyan Qiu, Bixia Wang, Jinxiu Liu, Xiuli Li, Zhaoyi Hou, Tingting Wu, Huizhen Cao, Xinli Ji, Ping Zhang, Yuping Zhang, Mianxiang Xue, Linlin Qiu, Linlin Wang, Yongbao Wei\* and Mingfeng Chen\*



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### Concentration and composition of odd-chain fatty acids in phospholipids and triacylglycerols in Chinese human milk throughout lactation

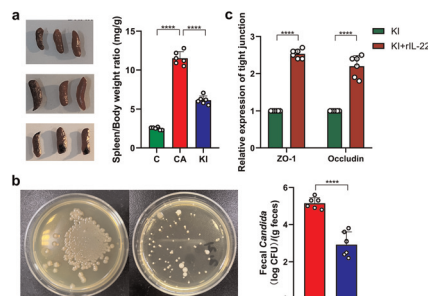
Xiao-Yan Chen, Meng-Tao Yang, Si-Yu Huang, Ying-Zhen Qiu, Wei Wei, Chen-Yu Jiang, Shuang Song, Hui-Lian Zhu\* and Qiu-Ye Lan\*



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### Tryptophan metabolites relieve intestinal *Candida albicans* infection by altering the gut microbiota to reduce IL-22 release from group 3 innate lymphoid cells of the colon lamina propria

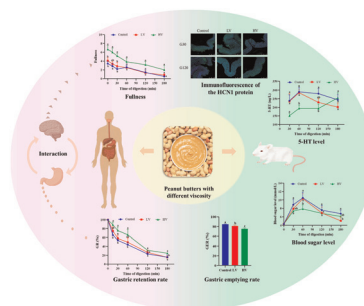
Ziyao Peng, Jiali Zhang, Meng Zhang, Liping Yin, Ziyang Zhou, Cuiting Lv, Zetian Wang\* and Jianguo Tang\*



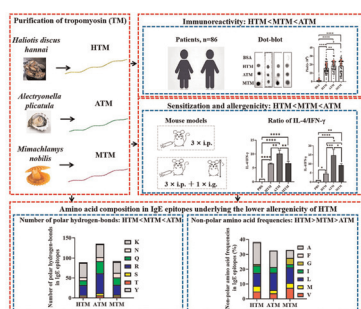
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### Understanding the mechanism of high viscosity food delaying gastric emptying

Weilin Liu, Weiping Jin, Peter J. Wilde, Yangyi Jin, Yujie Pan and Jianzhong Han\*



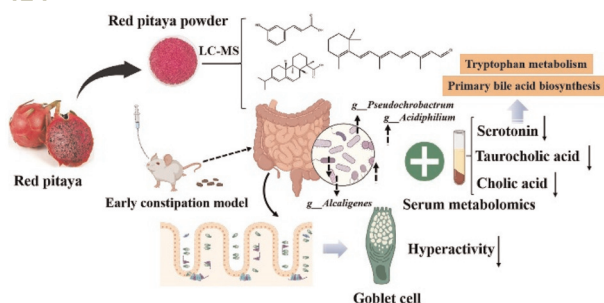
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### Comparative analysis of tropomyosin allergenicity in three different species of molluscs: insights into the role of amino acid composition in IgE epitopes

Xinyu Han, Xinrong He, Xinya Wang, Lianzhong Luo, Yubao Li, Dong Lai, Hong Liu, Jingwen Liu, Shitao Rao\* and Guangming Liu\*

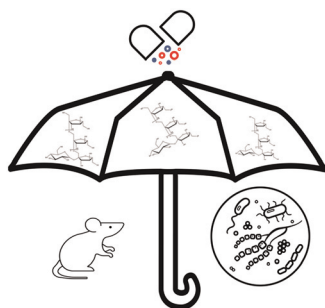
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### Integrated metabolic profiles and microbial communities to reveal the beneficial effect of red pitaya on early constipation

Pengfei Zhao, Xiran Meng, Mo Sun, Bingqing Qin, Shuaiwen Kong, Lixia Xie, Wei Zhang, Xudong Ding\* and Chenning Zhang\*

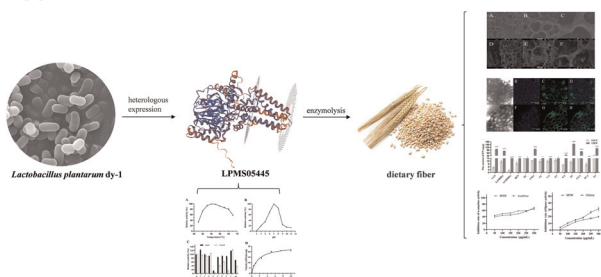
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### Inulin mitigated antibiotic-induced intestinal microbiota dysbiosis – a comparison of different supplementation stages

Ran An, Xilong Zhou, Penglin He, Chenang Lyu and Dapeng Wang\*

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### Heterologous expression and enzymatic characteristics of sulfatase from *Lactobacillus plantarum* dy-1

Zhangchen Cheng, Beiqi Wu, Juan Bai, Songtao Fan, Maria Daglia, Jiaying Li, Yansheng Zhao, Yufeng He, Lin Zhu and Xiang Xiao\*

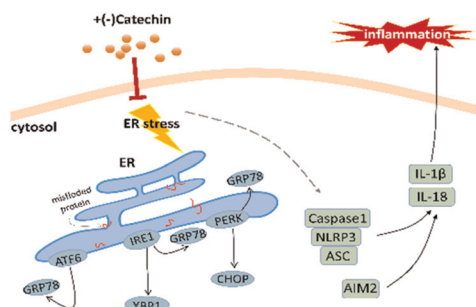


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### (+)-Catechin ameliorates diabetic nephropathy injury by inhibiting endoplasmic reticulum stress-related NLRP3-mediated inflammation

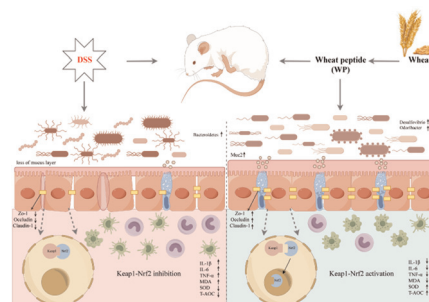
Xiwen Zhang, Zhihao Huo, Xiaotong Jia, Yuanyuan Xiong, Baohua Li, Liangyou Zhang, Xin Li, Xianhong Li, Yinrui Fang, Xin Dong\* and Gangyi Chen\*



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### Wheat peptide alleviates DSS-induced colitis by activating the Keap1–Nrf2 signaling pathway and maintaining the integrity of the gut barrier

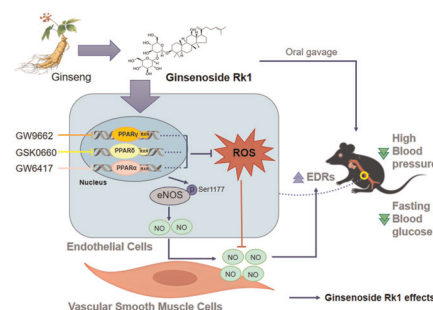
Wen-Yin Xie, Zhong-Hao Ji, Wen-Zhi Ren, Pei-Sen Zhao, Fan-Hao Wei, JinPing Hu, Bao Yuan\* and Wei Gao\*



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### Ginsenoside Rk1 improves endothelial function in diabetes through activating peroxisome proliferator-activated receptors

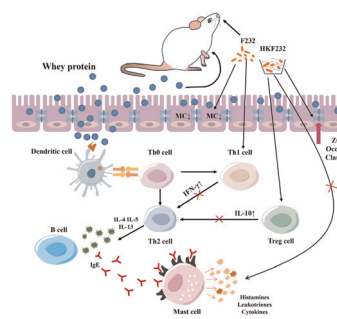
Lingchao Miao, Yan Zhou, Dechao Tan, Chunxiu Zhou, Cheng-Chao Ruan, Shengpeng Wang, Yitao Wang, Chi Teng Vong\* and Wai San Cheang\*



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### Both live and heat killed *Lactiplantibacillus plantarum* DPUL-F232 alleviate whey protein-induced food allergy by regulating cellular immunity and repairing the intestinal barrier

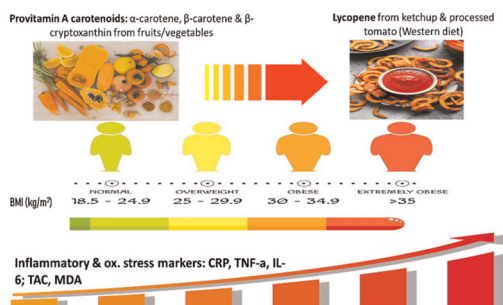
Lu Feng, Gangliang Chen, Zihao Guo, Wenpu Yao, Xinling Li, Guangqing Mu\* and Xuemei Zhu\*





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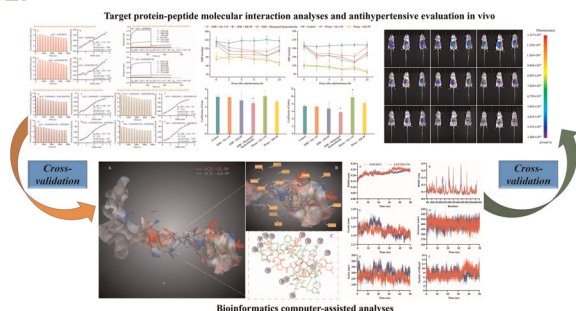
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## Protective effect of provitamin A dietary carotenoid intake on overweight/obesity and their relation to inflammatory and oxidative stress biomarkers – a case-control study

Natália Koós, Farhad Vahid and Torsten Bohn\*

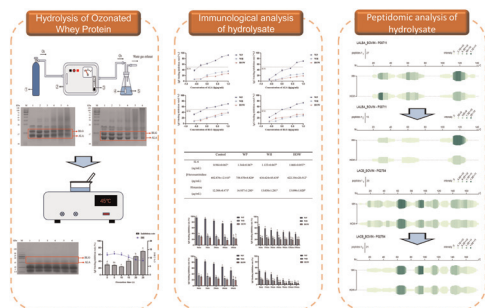
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## Revealing the ACE receptor binding properties and interaction mechanisms of salty oligopeptides from *Stropharia rugosoannulata* mushroom by molecular simulation and antihypertensive evaluation

Wen Li, Wanchao Chen, Jinbin Wang, Zhong Zhang, Di Wu, Peng Liu, Zhengpeng Li, Haile Ma\* and Yan Yang\*

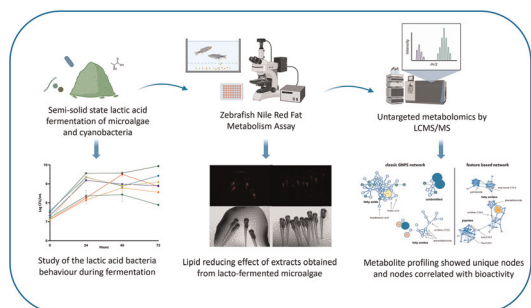
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## Short-time ozone treatment promotes protease-mediated destruction of B cell allergen epitopes by altering the structural characteristics of whey protein

Ziyi Xiong, Hongkai Tan, Yu Qiu, Yong Wu, Xuanyi Meng, Hongbing Chen, Linsheng Wei and Xin Li\*

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## Lactic acid fermented microalgae and cyanobacteria as a new source of lipid reducing compounds: assessment through zebrafish Nile red fat metabolism assay and untargeted metabolomics

Francesco Martelli, Valentina Bernini, Erasmo Neviani, Vitor Vasconcelos and Ralph Urbatzka\*



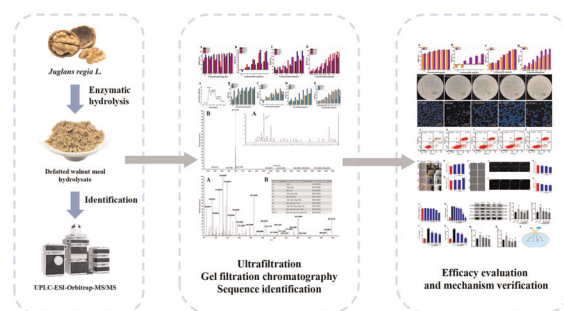


## PAPERS

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# Identification of a novel oligopeptide from defatted walnut meal hydrolysate as a potential neuroprotective agent

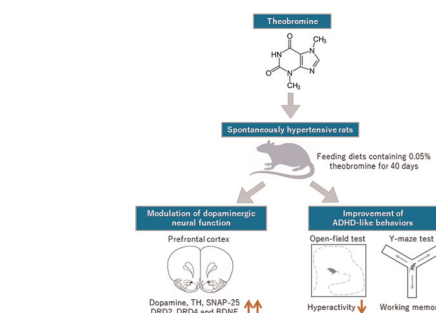
Feng Gao, Zixuan Zhang, Nannan Xue, Yunnan Ma, Jingyi Jiao, Cheng Wang, Keyi Zhang, Yixuan Lin, Shanlan Li, Zhuoqian Guo, Jin An, Penglong Wang, Bing Xu\* and Haimin Lei\*



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# Theobromine improves hyperactivity, inattention, and working memory via modulation of dopaminergic neural function in the frontal cortex of spontaneously hypertensive rats

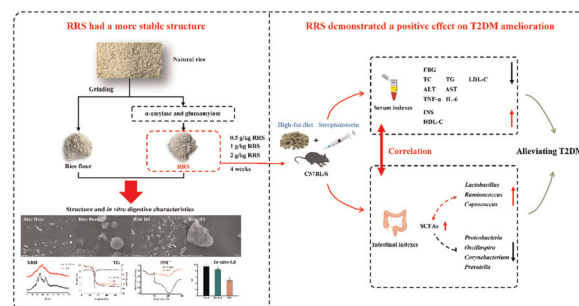
Kentaro Matsuzaki,\* Naotoshi Sugimoto, Shahdat Hossain, Rafiad Islam, Eri Sumiyoshi, Michio Hashimoto, Hiroko Kishi and Osamu Shido



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# Physiochemical characterization and ameliorative effect of rice resistant starch modified by heat-stable $\alpha$ -amylase and glucoamylase on the gut microbial community in T2DM mice

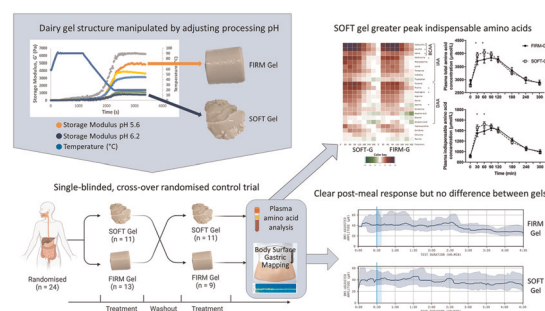
Jianing Ren, Jing Dai, Yue Chen, Zhenzhen Wang, Ruyi Sha\* and Jianwei Mao



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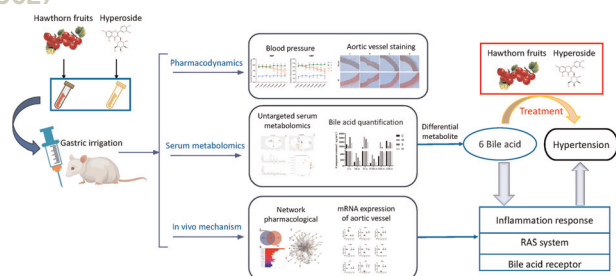
# The impact of heat-set milk protein gel textures modified by pH on circulating amino acid appearance and gastric function in healthy female adults: a randomised controlled trial

Amber M. Milan,\* Giselle G. A. Menting, Matthew P. G. Barnett, Yutong Liu, Warren C. McNabb, Nicole C. Roy, Scott C. Hutchings, Tanyaradzwa Mungure, Mike Weeks, Siqi Li, Joanne Hort, Stefan Calder, Greg O'Grady and Richard F. Mithen



## PAPERS

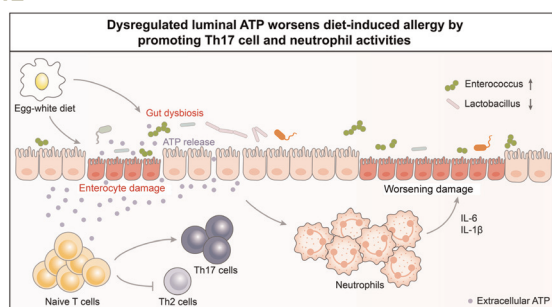
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### Study on the hypotensive effect and mechanism of hawthorn (*Crataegus pinnatifida*) fruits and hyperoside in spontaneously hypertensive rats

Bingqing Chi, Meng Zhang, Luping Sun, Hongyan Liu\* and Zhenhua Tian\*

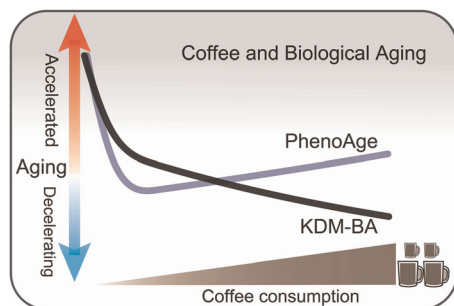
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### Extracellular adenosine triphosphate skews the T helper cell balance and enhances neutrophil activation in mice with food allergies

Xing Zhang, Xiao Chen, Fan Yang, Huming Shao, Tianliang Bai, Xuanyi Meng, Yong Wu, Anshu Yang, Hongbing Chen and Xin Li\*

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### From cup to clock: exploring coffee's role in slowing down biological aging

Xiaoli Chen, Xin Yin, Yajie Gao, Xin Chen, Nan Ye and Xingkang He\*

