

Food & Function

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ISSN 2042-650X CODEN FFOUAI 15(6) 2777–3216 (2024)



Cover

See Chuang Yu *et al.*,
pp. 2879–2894.

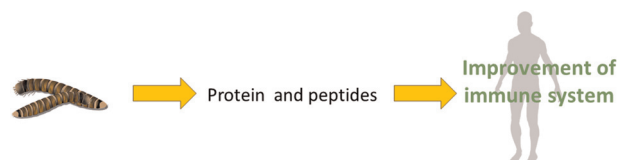
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2024, **15**, 2879.

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Edible insects as a source of biopeptides and their role in immunonutrition

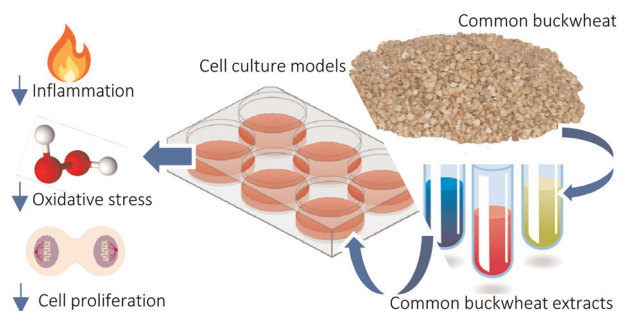
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Sara Margherita Borgonovi, Stefania Iametti, Anna Ramona Speranza and Mattia Di Nunzio*



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Fundamental questions
Elemental answers

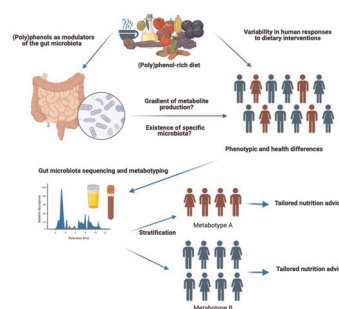


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(Poly)phenol-related gut metabolites and human health: an update

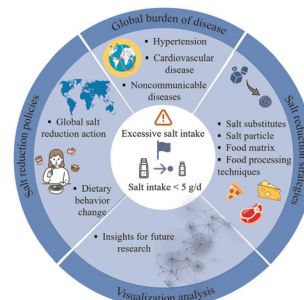
Jiaying Hu, Robin Mesnage, Kieran Tuohy, Christian Heiss and Ana Rodriguez-Mateos*



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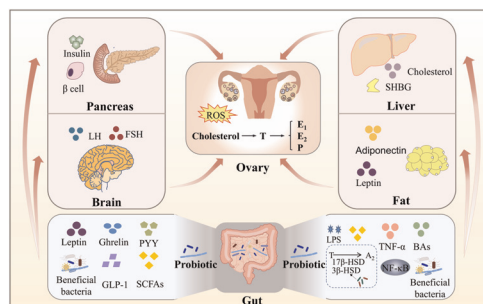
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Xiao Liu, Xiaoyong Chen, Chen Wang, Jijia Song, Jiahui Xu, Zhen Gao, Yechuan Huang* and Huayi Suo*

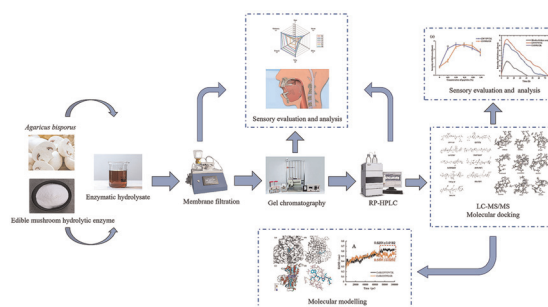


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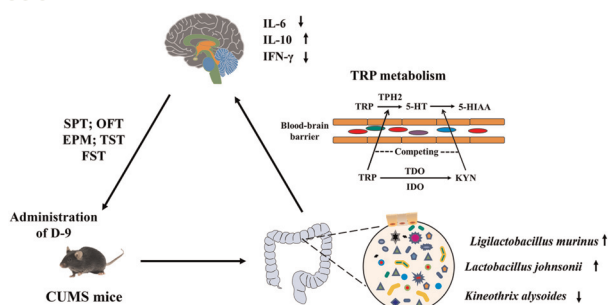
Exploring novel Kokumi peptides in *Agaricus bisporus*: selection, identification, and tasting mechanism investigation through sensory evaluation and computer simulation analysis

Tao Feng, Chenwei Ma, Sha Chen, Haining Zhuang, Shiqing Song, Min Sun, Lingyun Yao, Huatian Wang, Qian Liu and Chuang Yu*



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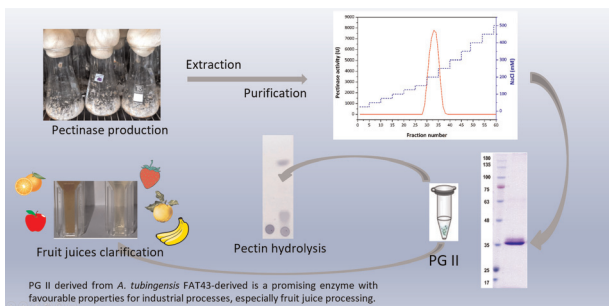
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Neuroprotective effects of probiotics on anxiety- and depression-like disorders in stressed mice by modulating tryptophan metabolism and the gut microbiota

Longgang Jia, Ling Xiao, Yao Fu, Zhen Shao, Zhaoxuan Jing, Jiahu Yuan, Yufeng Xie, Jun Guo, Yanping Wang* and Weitao Geng*

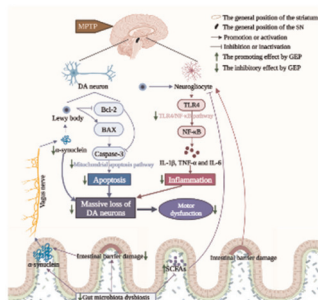
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Improvement of fruit juice quality: novel *endo*-polygalacturonase II from *Aspergillus tubingensis* FAT 43 for enhanced liquefaction, clarification, and antioxidant potential

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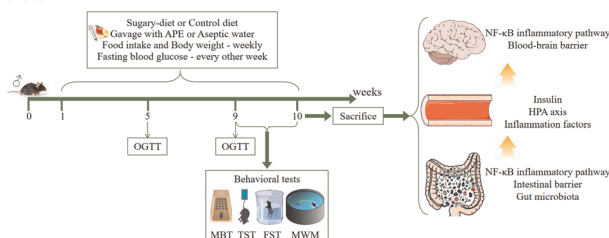
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Gastrodia elata polysaccharide alleviates Parkinson's disease via inhibiting apoptotic and inflammatory signaling pathways and modulating the gut microbiota

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Yisha Xie, Zhengli Wu, Qingfan Qian, Hao Yang, Jieyu Ma, Wenxue Luan, Siyuan Shang and Xinli Li*

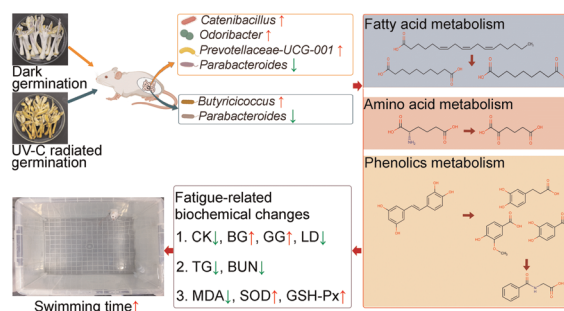


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Stilbenes-enriched peanut sprouts alleviated physical fatigue *via* regulating interactions of nutrients–microbiota–metabolites revealed by multi-omics analysis

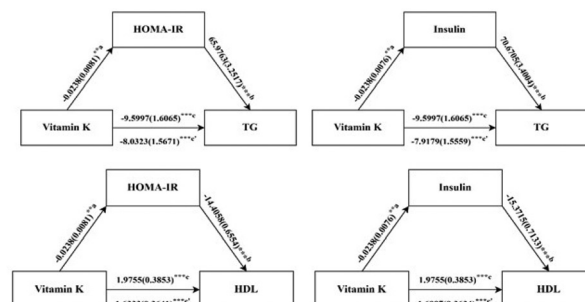
Tong Zhu, Qi Pan, Kunpeng Xiao, Changzhou Zuo, Qiang Liu, Dandan Zhou and Kang Tu*



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The association between vitamin K intake and dyslipidemia in US adults: the mediating effect of insulin resistance

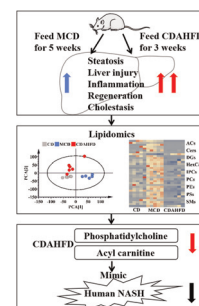
Fengdan Wang, Mengzi Sun, Ruirui Guo, Zibo Wu, Xuhan Wang, Yixue Yang, Yan Liu, Yibo Dong, Sizhe Wang, Shoumeng Yan* and Bo Li*



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A CDAHFD-induced mouse model mimicking human NASH in the metabolism of hepatic phosphatidylcholines and acyl carnitines

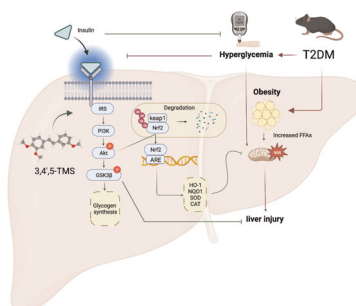
Jie Yang, Manyun Dai, Ying Wang, Zheng Yan, Shuqi Mao, Aiming Liu* and Caide Lu*



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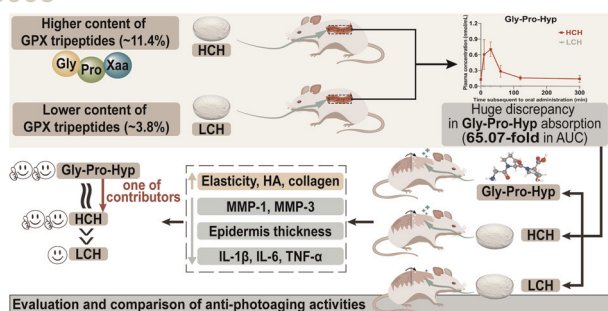
3,4',5-Trimethoxy-*trans*-stilbene ameliorates hepatic insulin resistance and oxidative stress in diabetic obese mice through insulin and Nrf2 signaling pathways

Yi Tan, Chunxiu Zhou, Lingchao Miao, Xutao Zhang, Haroon Khan, Baojun Xu* and Wai San Cheang*



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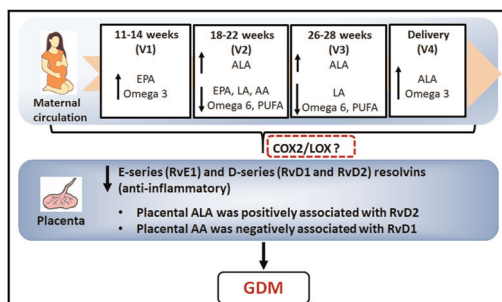
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Effects of collagen hydrolysates on UV-induced photoaging mice: Gly-Pro-Hyp as a potent anti-photoaging peptide

Danyin Yang, Qi Liu, Qiongyao Xu, Lin Zheng, Silu Zhang, Shan Lu, Guoxun Xiao* and Mouming Zhao*

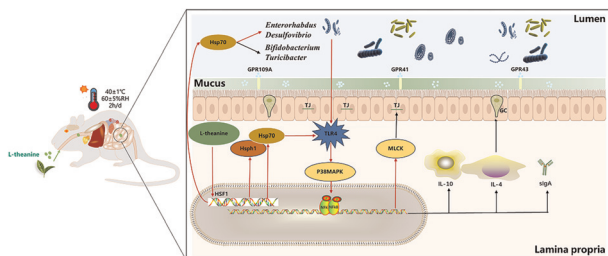
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Fatty acids and their metabolites (resolvins) are altered in women with gestational diabetes mellitus (GDM)

Nikita Joshi, Anjali Jadhav, Aditi Godhamgaonkar, Deepali Sundrani, Karuna Randhir, Hemalata Pisal, Girija Wagh, Ghattu Krishnaveni, Sanjay Gupte and Sadhana Joshi*

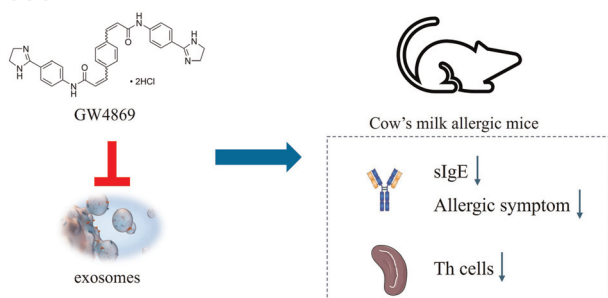
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The protective effect of L-theanine on the intestinal barrier in heat-stressed organisms

Bin Wang, Sha Liu, Ling Lin, Wei Xu, Zhihua Gong* and Wenjun Xiao*

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Blockade of exosome release alleviates the hypersensitive reaction by influencing the T helper cell population in cow's milk allergic mice

Xin Ma, Jiaheng Xia, Jin Yuan, Xuanyi Meng, Hongbing Chen and Xin Li*

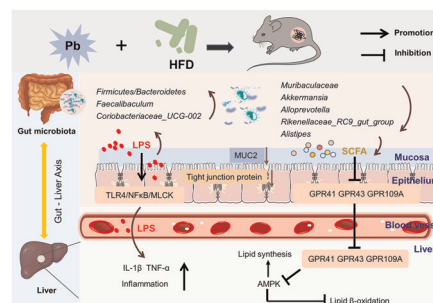


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Lead exposure exacerbates liver injury in high-fat diet-fed mice by disrupting the gut microbiota and related metabolites

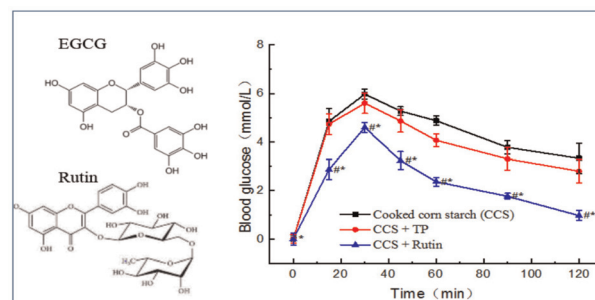
Nana Wang, Yuan Huo, Xue Gao, Yuting Li, Fangru Cheng and Zengli Zhang*



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Water solubility differentiates the impact of tea polyphenols and rutin on the postprandial glycemic response to cooked maize starch

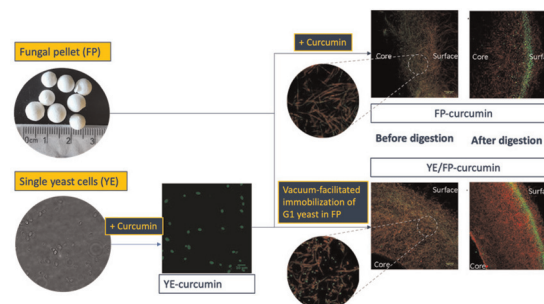
Menglin Jiang, Wangyan Qin, Shengpeng Zhang and Genyi Zhang*



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Filamentous fungal pellets as a novel and sustainable encapsulation matrix for exogenous bioactive compounds

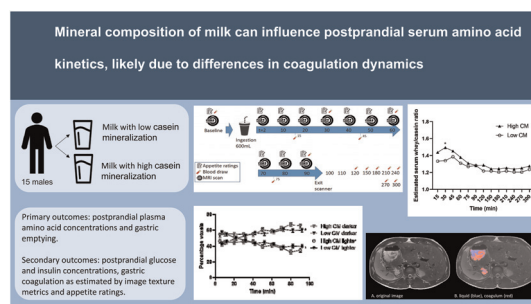
Yixing Lu, Minami Ogawa, Jaime Moreno García and Nitin Nitin*



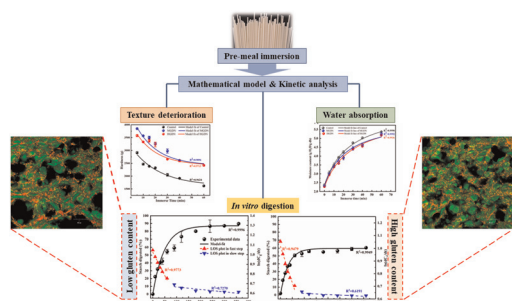
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Gastric coagulation and postprandial amino acid absorption of milk is affected by mineral composition: a randomized crossover trial

Elise J. M. van Eijnatten,* Julia J. M. Roelofs, Guido Camps, Thom Huppertz, Tim T. Lambers and Paul A. M. Smeets



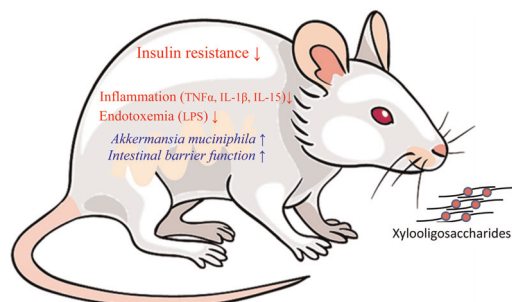
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Impact of pre-meal immersion on multi-scale structural changes and starch digestibility of cooked dried noodles

Jiasheng Wang, Chong Liu,* Hanrui Yang, Xuedong Li, Jing Hong, Mei Liu, Binghua Sun, Erqi Guan and Xueling Zheng

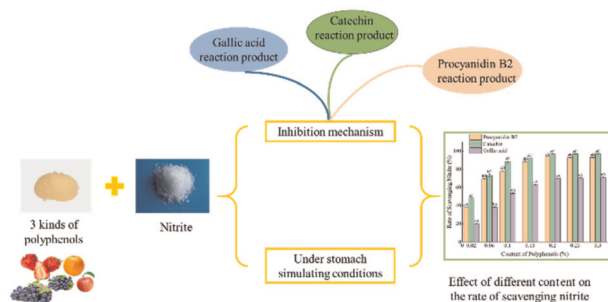
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Xylooligosaccharides ameliorate insulin resistance by increasing *Akkermansia muciniphila* and improving intestinal barrier dysfunction in gestational diabetes mellitus mice

Junyi Yang, Jiexian Wang, Weiliang Wu, Chuhong Su, Yanhua Wu and Qing Li*

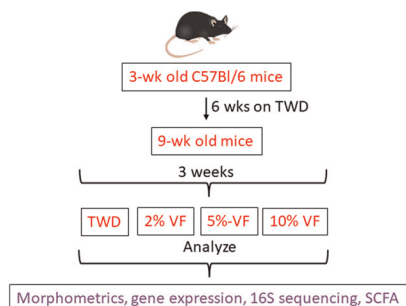
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Inhibitory effects and reactions of gallic acid, catechin, and procyanidin B2 with nitrosation under stomach simulating conditions

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A type 4 resistant potato starch alters the cecal microbiome and gene expression in mice fed a western diet based on NHANES data

Allen D. Smith,* Celine Chen, Lumei Cheung, Robert E. Ward, B. Sky Jones, Elizabeth A. Pletsch and Harry D. Dawson

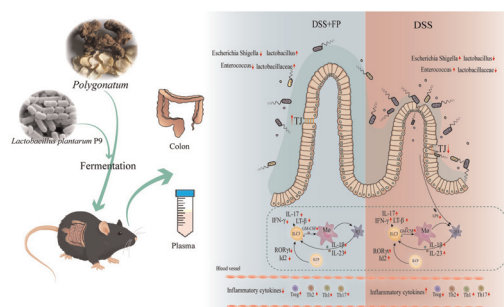


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Modulatory effects of fermented *Polygonatum cyrtoneuma* Hua on immune homeostasis and gut integrity in a dextran-sulfate-sodium-induced colitis model

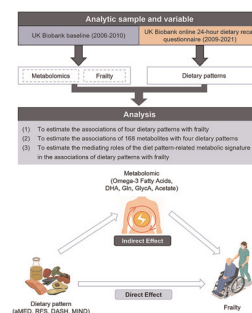
Tao Li, Fengyao Yu, Tao Zhang, Xiaoya Wang, Yong Sun, Gexia Shuai, Yuhuan Chen, Yanhua Xue, Jinlian Zhang* and Hua Zhang*



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Dietary patterns, metabolomics and frailty in a large cohort of 120 000 participants

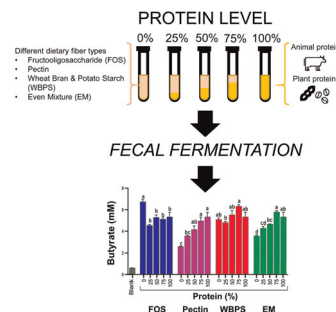
Zhao Yao, Xueqing Jia, Zhuoneng Chen, Tianfang Zhang, Xin Li, Liming Zhang, Fenfen Chen, Jingyun Zhang, Ziwei Zhang, Zuyun Liu* and Zuobing Chen*



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Protein combined with certain dietary fibers increases butyrate production in gut microbiota fermentation

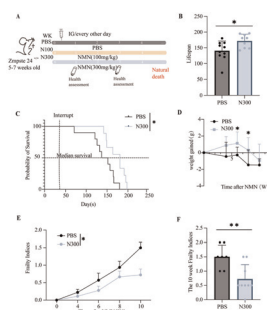
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β -Nicotinamide mononucleotide supplementation prolongs the lifespan of prematurely aged mice and protects colon function in ageing mice

Yanrou Gu, Lidan Gao, Jiamin He, Man Luo, Mei Hu, Yuxian Lin, Jianxin Li, Tongyao Hou,* Jianmin Si* and Yingcong Yu*



RETRACTION

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Retraction: Dealcoholized muscadine wine was partially effective in preventing and treating dextran sulfate sodium-induced colitis and restoring gut dysbiosis in mice

Hao Li, Lindsey M. Christman, Yavuz Yagiz, Taylor L. Washington, Gary P. Wang and Liwei Gu*

