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Food & Function

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ISSN 2042-650X CODEN FFOUAI 14(9) 3895–4442 (2023)

Cover
See Ai li Li *et al.*, pp. 3909–3928.

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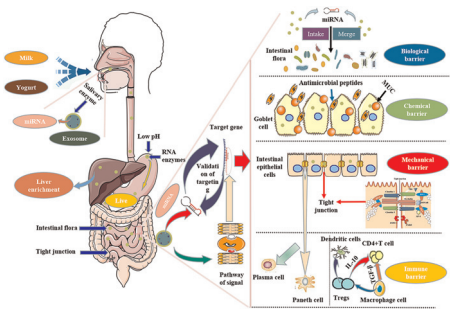
REVIEWS

3909

Advances in the protection of intestinal mucosal barrier function by milk-derived miRNAs

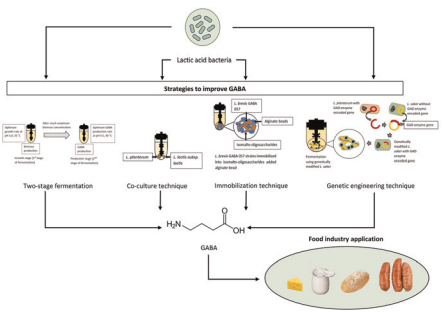
Chao Zhang, Houyu Chi, Xueting Han, Jie Zheng, Sijia Yang, Ai li Li* and Wei Yu



3929

Strategies for improvement of gamma-aminobutyric acid (GABA) biosynthesis *via* lactic acid bacteria (LAB) fermentation

Sangkaran Pannerchelvan, Leonardo Rios-Solis, Fadzlie Wong Faizal Wong, Uswatun Hasanah Zaidan, Helmi Wasoh, Mohd Shamzi Mohamed, Joo Shun Tan, Rosfarizan Mohamad and Murni Halim*



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REVIEWS

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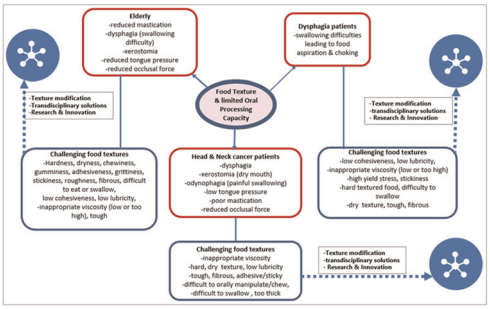
Texture properties of foods targeted for individuals with limited oral processing capabilities: the elderly, dysphagia, and head and neck cancer patients

James Makame,* Alissa A. Nolden and Naushad M. Emmambux



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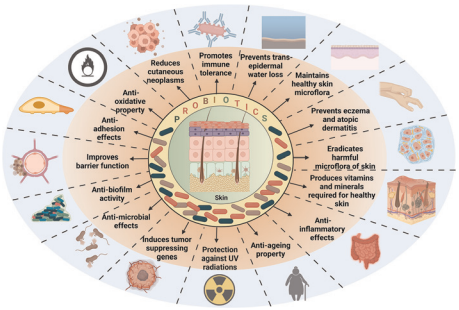
Probiotics and postbiotics play a role in maintaining dermal health

Swasti Rawal and Syed Azmal Ali*



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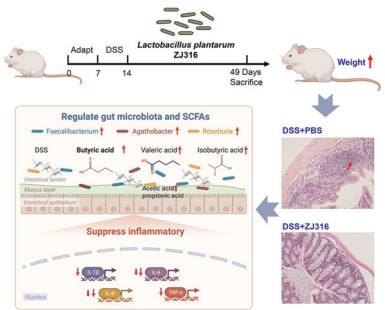
***Lactobacillus plantarum* ZJ316 alleviates ulcerative colitis by inhibiting inflammation and regulating short-chain fatty acid levels and the gut microbiota in a mouse model**

Qing Gu, Chenlan Xia, Nana Liu, Ziqi Chen, Qingqing Zhou and Ping Li*



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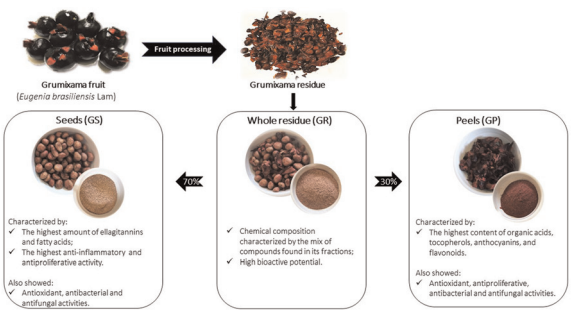
Brazilian berry waste as a source of bioactive compounds: grumixama (*Eugenia brasiliensis* Lam.) as a case study

Bianca R. Albuquerque, Tiane C. Finimundy, José Pinela, Tânia C. S. P. Pires, Filipa Mandim, Josiana Vaz, Rúbia C. G. Corrêa, Maria Beatriz P. P. Oliveira and Lillian Barros*



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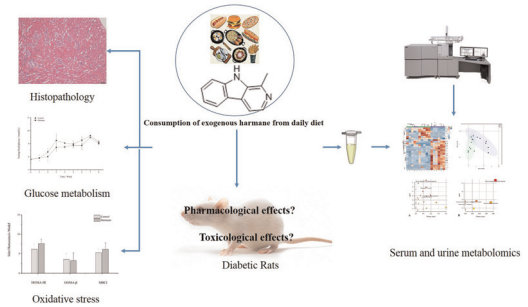

Health effects of exposure to β-carboline heterocyclic amines: insight into metabolic perturbations and biochemical analysis

Yijie Wang, Yuezheng Kuang, Jie Luo, Maomao Zeng, Zhiyong He, Qingwu Shen, Jie Chen, Maiquan Li* and Wei Quan*

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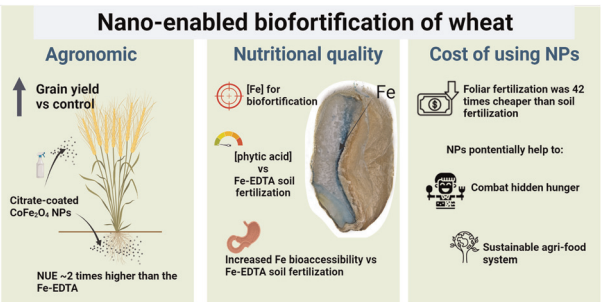

Citrate-coated cobalt ferrite nanoparticles for the nano-enabled biofortification of wheat

Yazmín Stefani Perea-Vélez, Rogelio Carrillo-González, Ma. del Carmen A. González-Chávez,* Jaco Vangronsveld, Iván Ortiz Monasterio and Daniel Tapia Maruri

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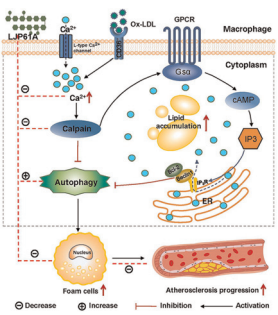

Inhibition of Ca^{2+}-calpain signaling is a new mechanism using *Laminaria japonica* polysaccharide to prevent macrophage foam cell formation and atherosclerosis

Xue-Ying Li, Dan-Dan Kuang, An-Jun Guo, Yuan-Yuan Deng, Li-Hua Pan, Qiang-Ming Li, Jian-Ping Luo* and Xue-Qiang Zha*

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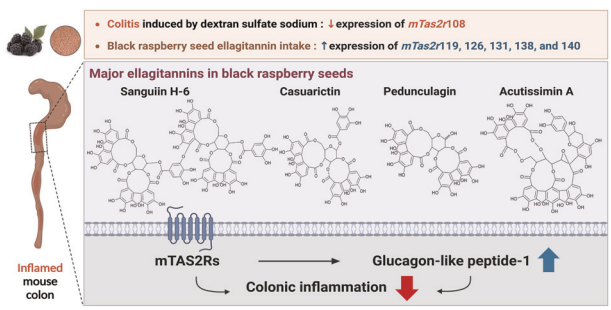

Anti-inflammatory activities of black raspberry seed ellagitannins and their structural effects on the stimulation of glucagon-like peptide-1 secretion and intestinal bitter taste receptors

Ryun Hee Kim, Ga Eun Lee, Kiuk Lee, Keum Taek Hwang, Jaewoo Park and Taehwan Lim*

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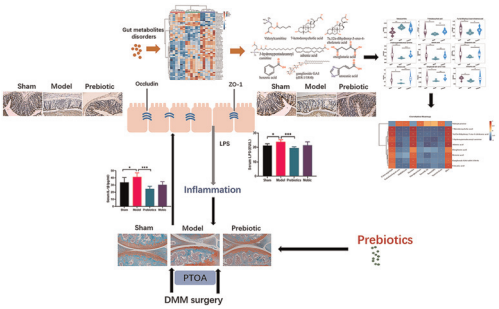
Prebiotics alleviate cartilage degradation and inflammation in post-traumatic osteoarthritic mice by modulating the gut barrier and fecal metabolomics

Yilin Mi, Nanxing Yi, Xiaotong Xu, Fan Zeng, Naping Li, Xuyi Tan, Zhixian Gong, Ke Yan, Gaoyan Kuang* and Min Lu*



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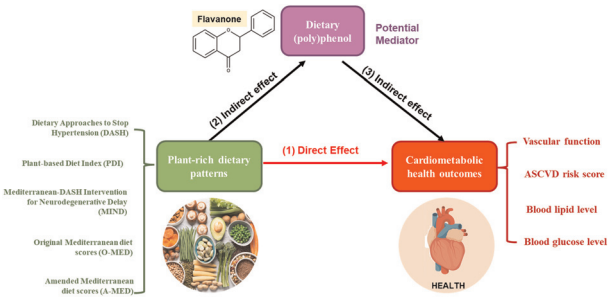
(Poly)phenol intake, plant-rich dietary patterns and cardiometabolic health: a cross-sectional study

Yong Li, Yifan Xu, Xuemei Ma, Melanie Le Sayec, Haonan Wu, Paola Dazzan, Chiara Nosarti, Christian Heiss, Rachel Gibson and Ana Rodriguez-Mateos*



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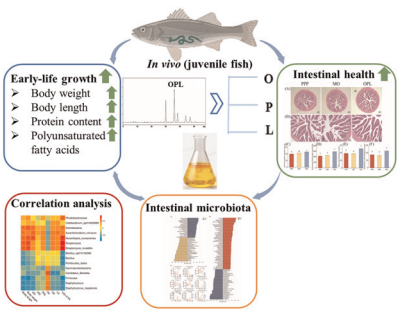
The nutritional and functional properties of 1-oleoyl-2-palmitoyl-3-linoleoylglycerol-rich oil: promoting early-life growth and intestinal health with alterations in the intestinal microbiota of *Micropterus salmoides*

Meng Kang, Konglong Feng, Weijie Dai, Jianyin Miao, Guo Liu, Huaiyi Fang* and Yong Cao*



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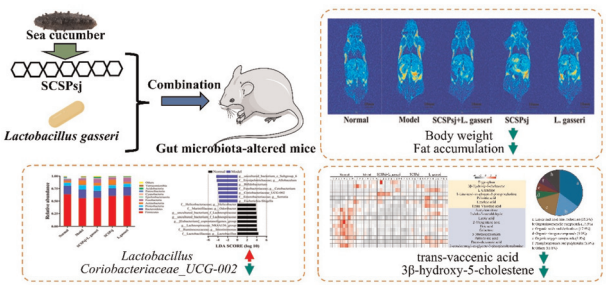
Sea cucumber sulfated polysaccharides and *Lactobacillus gasseri* synergistically ameliorate the overweight induced by altered gut microbiota in mice

Zhengqi Liu, Chunqing Ai, Xinping Lin, Xiaoming Guo, Shuang Song* and Beiwei Zhu



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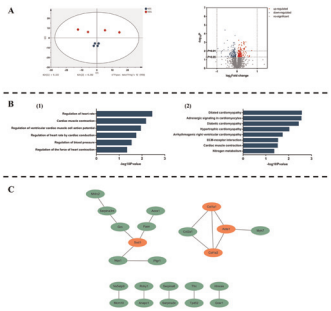

Marginal zinc deficiency alters the heart proteome of rats

Yongzhi Sun, Jianfeng Chen, Hongmei Wang, Xinyu Song, Zhaohui Sun, Rui Zhang, Jiayi Zhong, Xinxin Gu, Mengxu Wang, Chenghai Peng* and Maoqing Wang*

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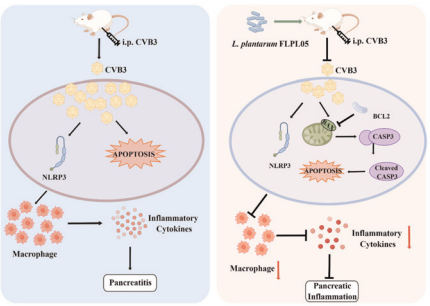

***Lactiplantibacillus plantarum* attenuates Coxsackievirus B3-induced pancreatitis through the BAX/BCL2/CASP3 signaling pathway**

Xiaomin Yu, Yejia Zhang, Ke Pei, Junjun Tan, Huizhen Tian, Tian Xu, Fadi Liu, Nanqin Peng, Yilin Huang, Xinying Huang, Xinlei Huang, Jianfeng Wu, Qiong Liu, Lingbing Zeng, Wei Hua and Xiaotian Huang*

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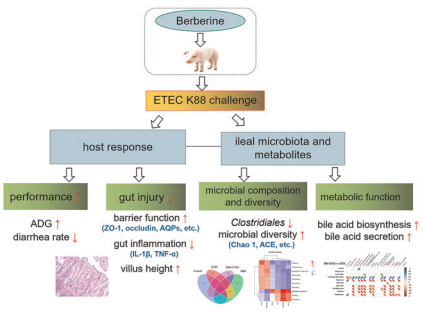

Dietary berberine supplementation improves growth performance and alleviates gut injury in weaned piglets by modulating ileal microbiota and metabolites

Cui Zhu,* Meifang Le, Zhentao He, Yinshan Bai, Jun Yang, Jinling Ye, Zhuang Chen and Zongyong Jiang*

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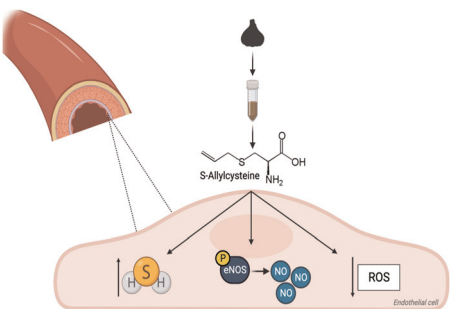

Improving endothelial health with food-derived H_2S donors: an *in vitro* study with *S*-allyl cysteine and with a black-garlic extract enriched in sulfur-containing compounds

Federica Geddo, Giulia Querio, Alberto Asteggiano, Susanna Antoniotti, Alessandra Porcu, Andrea Occhipinti, Claudio Medana and Maria Pia Gallo*

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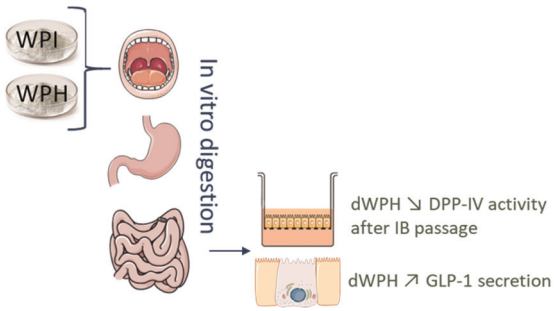
In vitro comparison of whey protein isolate and hydrolysate for their effect on glucose homeostasis markers

Mathie Tenenbaum,* Camille Dugardin, Joanna Moro, Julie Auger, Alain Baniel, Audrey Boulier, Rozenn Ravallec and Benoit Cudennec*



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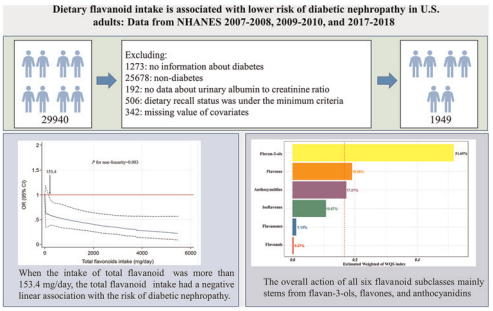
Dietary flavonoid intake is associated with a lower risk of diabetic nephropathy in US adults: data from NHANES 2007–2008, 2009–2010, and 2017–2018

Fang Liu, Jiaqi Nie, Ming-gang Deng, Hongguang Yang, Qianqian Feng, Yichi Yang, Xiaosong Li, Xin Li, Xiaomeng Yang, Wanting Li, Huanhuan Zhou and Suqing Wang*



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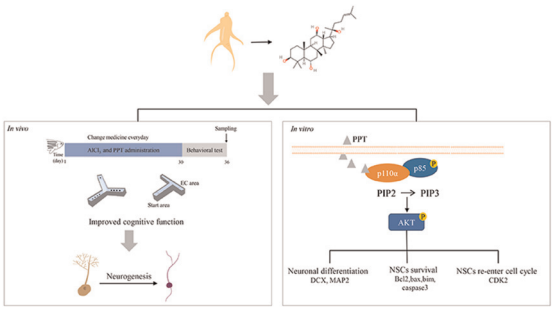
20_S_-Protopanaxatriol improves cognitive function of Alzheimer's disease by promoting endogenous neurogenesis

Qiang Zhang, Xuehan Yang, Jingyue Liu, Jiayi Song, Siwei Zhang,* Li Chen* and Ming Zhang*



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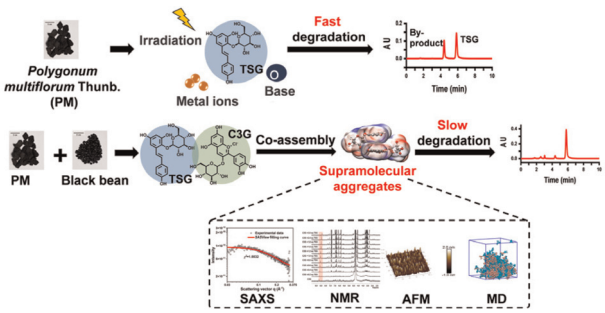
Enhanced TSG stability through co-assembly with C3G: the mechanism behind processing _Polygonum multiflorum_ Thunb with black beans _via_ supramolecular analysis

Yue Liu, Shukai Wang, Yunan Qin, Ying Wang, Jianbo Yang, Lanzhen Zhang,* Quan Li* and Shuangcheng Ma*



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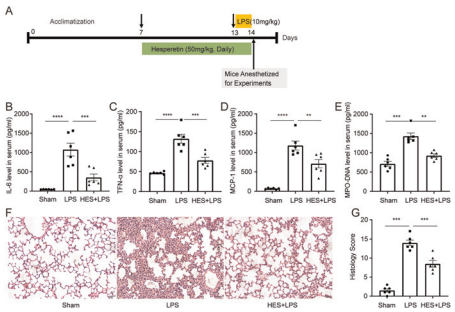

Hesperetin attenuates sepsis-induced intestinal barrier injury by regulating neutrophil extracellular trap formation *via* the ROS/autophagy signaling pathway

Fang Chen, Chengnan Chu, Xinyu Wang, Chao Yang, Yunxuan Deng, Zehua Duan, Kai Wang, Baochen Liu, Wu Ji* and Weiwei Ding*

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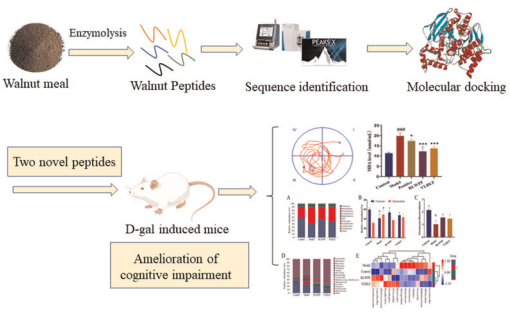

Amelioration of walnut-derived novel peptides against D-galactose-induced cognitive impairment by modulating the gut microbiota composition

Tingting Li, Like Lin, Cong Li,* Jingyi Zheng, Bang Chen, Yehua Shen* and Difeng Ren

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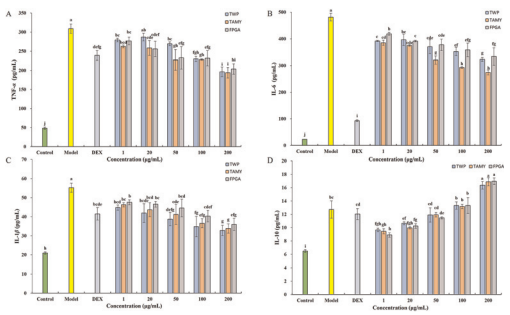

Purification and activity evaluation of novel anti-inflammatory peptides from pearl oyster (*Pinctada martensii*) hydrolysates

Jinpeng Shen, Manjia Zeng, Pantian Huang, Bingbing Chen, Zhen Xia, Yong Cao and Jianyin Miao*

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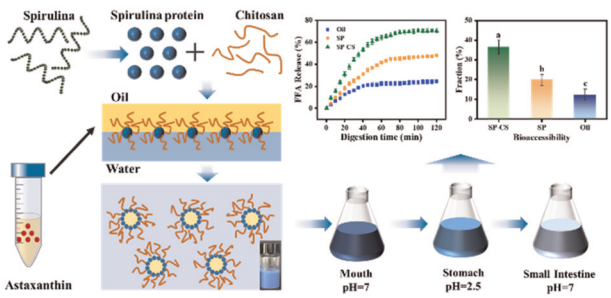

Pickering emulsions stabilized with a spirulina protein–chitosan complex for astaxanthin delivery

Ronggang Liu, Yu Li, Chengfu Zhou and Mingqian Tan*

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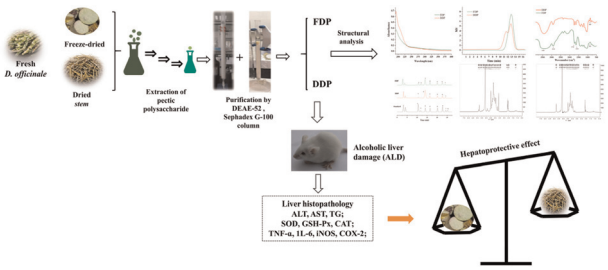
4267

A comparative study of pectic polysaccharides from fresh and dried *Dendrobium officinale* based on their structural properties and hepatoprotection in alcoholic liver damaged mice

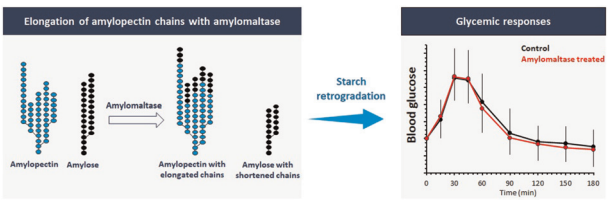
Ailing Hui,* Weiqin Xu, Jinghe Wang, Jie Liu, Shaohuan Deng, Baoyi Xiong, Wencheng Zhang and Zeyu Wu



4280

Promotion of starch retrogradation by enzymatic elongation of amylopectin chains does not reduce glycemic responses: a randomized cross-over clinical trial

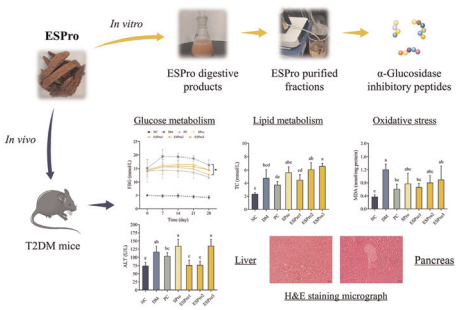
Konstantinos Korompokis,* Jan A. Delcour and Kristin Verbeke



4288

Isolation and identification of an α-glucosidase inhibitory peptide from extruded soybean protein and its hypoglycemic activity in T2DM mice

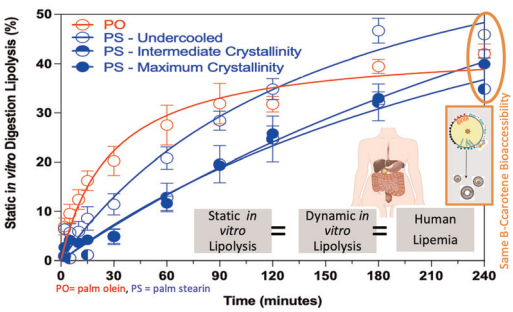
Wenhui Li, Xiaohang Fu, Tianyu Zhang, He Li,* Tianpeng Chen and Xinqi Liu*



4302

Comparison of static and dynamic *in vitro* digestibility and bioaccessibility of palm-based emulsions and correlation to a human study: effects of triacylglycerol crystallinity

Y. L. Li, J. D. Ulbikas, S. Hamad, R. Chen, J. Maw, P. Nasr, M. Rogers and A. J. Wright*



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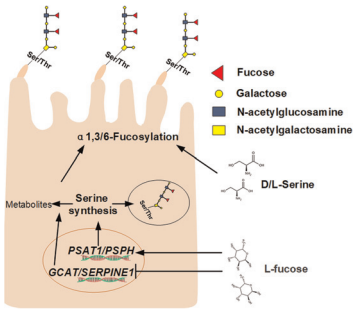
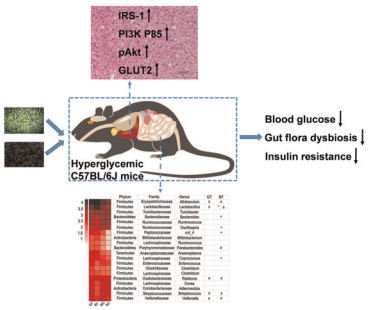
4314



L-Fucose increases the fucosylation of colorectal cancer cells *via* promoting the accumulation of serine

Ye Yao, Chengjia Qian, Zepeng Chang, Jiayu Yang, Yinghan Chen, Hongchao Wang, Jinlin Zhu, Yue Xiao, Yahui Li, Jianxin Zhao and Wenwei Lu*

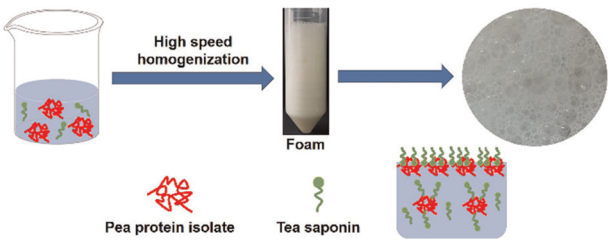
4327



Regulation of glucolipid metabolism and gut microbiota by green and black teas in hyperglycemic mice

Hui Zhou, Fanglan Li, Meirong Wu, Jiangxiong Zhu, Yuanfeng Wang* and Xinlin Wei*

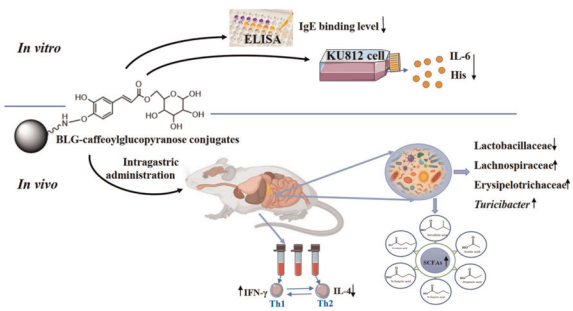
4339



Effects of tea saponin on the foaming properties of pea protein

Jiaxing Xie, Weijuan Huang* and Xuehui Wu*

4354



A comparative study on the allergenic potential of β-lactoglobulin conjugated to glucose, caffeic acid and caffeoyl glucopyranose

Yang Wang, Kai Zhang, Yi-ying Mao, Yan-hong Shao, Jun Liu* and Zong-cai Tu*

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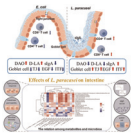
4368

Lactobacillus paracasei influences the gut-microbiota-targeted metabolic modulation of the immune status of diarrheal mice

Shunan Ren, Chunjie Wang,* Aorigele Chen, Zhaoxing Bai, Yanping Tian and Wenting Lv



4380

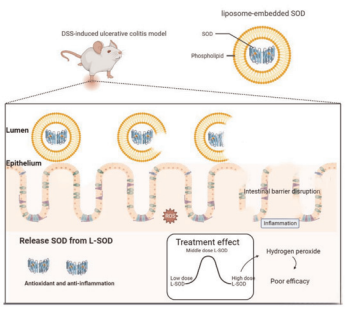
Polyphenols from _Prunus mume_: extraction, purification, and anticancer activity

Fengyi Zhao, Lanlan Du, Jialuan Wang, Hongxia Liu, Huifang Zhao, Lianfei Lyu, Weifan Wang, Wenlong Wu* and Weilin Li*

4392

Liposome-embedded SOD attenuated DSS-induced ulcerative colitis in mice by ameliorating oxidative stress and intestinal barrier dysfunction

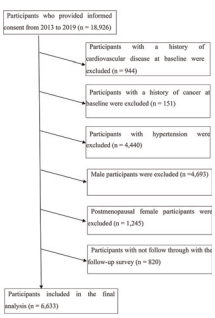
Chi Zhang, Yujia Hu, Yi Yuan, Jingke Guo, Henian Li, Qiaoling Li and Shutao Liu*



4406

Green tea intake and the risk of hypertension in premenopausal women: the TCLSIH cohort study

Jing Quan, Tingjing Zhang, Yeqing Gu,* Ge Meng, Qing Zhang, Li Liu, Hongmei Wu, Shunming Zhang, Xuena Wang, Juanjuan Zhang, Shaomei Sun, Xing Wang, Ming Zhou, Qiyu Jia, Kun Song and Kaijun Niu*



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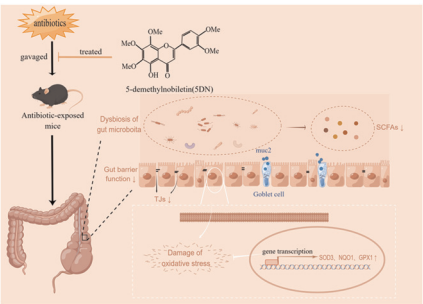
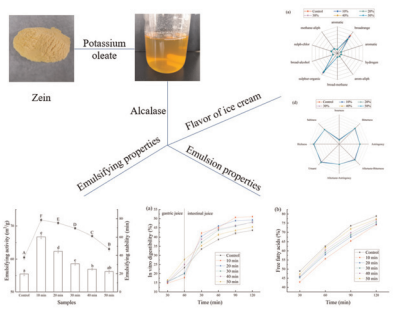
4414



Dietary 5-demethylnobiletin prevents antibiotic-associated dysbiosis of gut microbiota and damage to the colonic barrier

Minmin Zhan, Xinyan Liang, Jiaqi Chen, Xiaoshuang Yang, Yanhui Han, Chenxi Zhao, Jie Xiao, Yong Cao, Hang Xiao and Mingyue Song*

4430



Low-fat ice cream model system: impact of incorporation of alcalase hydrolyzed zein

An-Qi Zhang, Di Xu, Bo-Hao Liu, Bao-Ming Shi* and Ying-Hua Zhang*

CORRECTION

4440

Correction: Ingestion of taxifolin-rich foods affects brain activity, mental fatigue, and the whole blood transcriptome in healthy young adults: a randomized, double-blind, placebo-controlled, crossover study

Fumika Shinozaki,* Asuka Kamei,* Kousuke Shimada, Hiroshi Matsuura, Takeo Shibata, Mayumi Ikeuchi, Kayo Yasuda, Takashige Oroguchi, Noriaki Kishimoto, Shinji Takashimizu, Yasuhiro Nishizaki and Keiko Abe*

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