



目次

食品

2020年 第41卷

基础研究

- 肠溶性白藜芦醇电纺纤维的制备、性能及其体外抗氧化活性……………周 军, 向 舒, 邓 姣, 刘 鑫, 李湘洲*(1)
- 淡碱蒸胚对玉米胚及其毛油中真菌毒素的降解消除作用……………郑婷婷, 刘玉兰*, 王戡东, 裴娅晓(8)
- 正常牛肉与DFD牛肉成熟过程中保水性和
水分状态变化……………孙文彬, 罗 欣, 毛衍伟, 张一敏, 朱立贤, 梁荣蓉, 左惠心, 明丹丹, 牛乐宝*(14)
- 不同烘焙程度与等级武夷肉桂茶
品质差异分析……………徐邢燕, 陈 思, 俞晓敏, 赵小嫚, 林宏政, 刘国英, 苏 峰, 高 峰, 孙 云*, 郝志龙(22)
- 蛋白质组学揭示宰前温和驱赶改善
猪肉品质的潜在机制……………邹 波, 何广捷, 赵 迪, 闫 静, 张 泽, 徐幸莲, 周光宏, 李春保*(29)
- 蛋清源肠内营养粉的冲调特性及品质稳定性评价……………马艳秋, 迟 媛, 宋冰洁, 马子泓, 迟玉杰*(38)
- 红树莓酒渣结构、理化性质以及吸附性……………齐云飞, 张依瑶, 田景玉, 马铭鸿, 李玫萱, 王金玲*(46)
- 鲜食百香果果实品质综合评价
模型的建立及应用……………马文霞, 倪玉洁, 谢 倩, 何淑敏, 叶清华, 叶 俊, 陈清西*(53)
- 加热温度对麻鸭肌原纤维蛋白
结构与凝胶特性的影响……………王正雯, 田宏伟, 周富裕, 张志芳, 何 俊, 孙杨赢, 曹锦轩, 潘道东*(61)

食品工程

- 不同方式干制龙眼果肉的粗多糖理化及生化特性比较……………王诗琪, 黄晓芸, 易 阳*, 黄 菲, 王丽梅, 王宏勋(69)
- 超声处理对谷氨酰胺转氨酶诱导的大豆分离
蛋白凝胶冻融稳定性的影响……………刘竞男, 张智慧, 王 琳, 王玉莹, 张安琪, 王喜波*, 徐 宁*(76)
- 热风干燥温度对糯玉米理化特性的影响……………周静宜, 赵一霖, 张 浩, 曹 勇*, 刘景圣*(83)
- 高能球磨对大米淀粉物化特性和结构的影响……………谿银强, 王 尧, 陈江平, 刘松继, 刘传菊, 聂荣祖, 汤尚文*(89)

营养卫生

- 姜黄素类化合物的体外抗氧化活性及其对鸡红
细胞氧化损伤的保护作用……………张婧菲, 韩红丽, 沈明明, 张莉莉, 王 恬*(96)
- 原花青素对铁超载大鼠肾脏铁含量、氧化应激及
Fas、*Bax*基因表达的影响……………云少君, 褚东阳, 何兴帅, 张文芳, 冯翠萍*(106)
- 烟酰胺核糖对酒精暴露小鼠抑郁样行为及
肠黏膜通透性改善效果……………姜雨杉, 刘 颖, 王子龙, 薛美兰, 常志尚, 梁 惠*(112)
- 原花青素对小鼠血脂代谢紊乱与肠道菌群干预的影响……………杨昌铭, 肖 瀛*, 吴其国, 尹志婷, 周一鸣, 周小理(120)
- 辣木源多肽组分改善D-半乳糖致衰小鼠氧化损伤作用……………耿春阳, 林恋竹*, 赵谋明, 朱启源(127)
- 蓝莓花色苷对脂多糖诱导RAW 264.7细胞炎症及
结肠癌细胞增殖、凋亡的影响……………林 杨, 杨 平, 张 琦, 郎宇曦, 邓皓天, 孟宪军*(133)
- 乳铁蛋白对三唑酮诱导骨髓间充质干细胞
损伤的修复作用……………谢银丹, 赵添玉, 许 岩, 任皓威, 安晶晶, 刘 宁*(141)

科 学

目次



第13期 总第626期

Thrombolytic Activity of Nattokinase Produced by

Bacillus subtilis LNUB236 ZHU Junfeng, LIU Shuai, ZHAO Pengyan, ZHAO Jian,
LI Jiazeng, WANG Tianqi, WANG Li, LIU Hongsheng*(148)

仙草多糖对细胞氧化损伤的保护作用 何传波, 邓 婷, 魏好程, 吴国宏, 上官宇晨, 熊何健*(160)

甜玉米芯多糖对糖尿病大鼠的降血糖作用 马永强, 张 凯*, 王 鑫, 路雪纯, 林枏雨(169)

灵芝菌丝体多糖对人皮肤成纤维细胞氧化

应激损伤的防护机制 张佳婵, 邵 卿, 王 倩, 王昌涛*, 赵 丹, 李 萌, 孙宝国, 刘继涛(174)

包装贮运

真空包装结合避光处理对鲜切

马铃薯的品质影响 徐冬颖, 周福慧, 蒋海峰, 姜爱丽*, 韦 胜, 高雪晴, 陈 晨, 胡文忠*(184)

黑胡椒精油复合涂层对金华火腿理化特性及

食用品质安全的影响 常 红, 毕 耀, 王 颖, 潘道东, 党亚丽, 何 俊, 曹锦轩*(193)

抗菌肽Jelleine-I的抑菌稳定性及Jelleine-I系列脂肽对

柑橘果实绿霉病的控制效果 李心丹, 马佳宏, 王文军, 曾凯芳*(199)

不同抑菌剂对青稞鲜湿面中蜡样芽孢杆菌的抑制作用 王舒媛, 王子元, 张 敏*(206)

拮抗酵母挥发性单体桂皮醛对草莓

采后灰霉病的防治 郭虹娜, 刘 佳, 奚裕婷, 周 姣, 姜 毅, 汪江琦, 张艳芬, 肖红梅*(212)

采前套袋处理对蜜橘采后乙烯褪绿行为和贮藏特性的影响 冉皓杰, 范诗雨, 曾凯芳, 邓丽莉*(221)

专题论述

群体感应系统及其抑制剂对细菌生物被膜调控的研究进展 肖梦圆, 武瑞赞, 谭春明, 李平兰*(227)

羽扇豆烷型五环三萜生物活性研究进展 乔文姝, 赵海田*, 姚 磊*(235)

亚麻籽调节糖脂代谢作用的研究进展 史湘铃, 孙桂菊*(242)

色谱及色谱-质谱技术在复杂基质中赤霉素痕量分析中的应用 姜长岭, 代金霞, 刘 新, 鲁成银, 陈红平*(249)

微生物代谢工程在花色苷生产过程中的应用现状和前景 李 跃, 李国瑞, 陈永胜*(260)

直链淀粉和支链淀粉分子结构研究进展 韩文芳, 林亲录, 赵思明, 李江涛*, 牛桂红(267)

表面等离子体共振传感器在食品安全检测中的应用 黄 昭, 曹亚男, 李 跑, 赵 振, 刘 霞*(276)

静电纺丝技术在食品领域的应用 邓伶俐, 张 辉*(283)

我国食品安全与数据科学交叉

研究的科学计量学分析 邵 航, 宋英华*, 李墨潇*, 邵 伟, 雷生姣, 库任俊, 夏亚琼(291)

我国食品安全连带赔偿立法的完善 肖 峰, 孙 亮(302)

乳源外泌体的组成及其生物功能研究进展 仝令君, 郝海宁, 张兰威, 易华西*(310)

食品安全大数据标准体系建设研究 张 飞, 景亚萍, 朱 平, 王大霞, 郭晓琰, 陶光灿*(318)

抗性淀粉改善肠道功能及糖脂代谢的研究进展 李 颖, 张 欣, 杨佳杰, 马向阳, 侯俊财, 李艾黎*(326)

葡萄酒原产地鉴别技术研究进展 苏颖玥, 王 飞, 温昊松, 张进杰, 张 昂*, 袁春龙*(336)

沙蓬的研究进展 许海燕, 冯鑫红, 张金玉, 马超美*(346)



Basic Research

- Preparation, Characterization and *in Vitro* Antioxidant Activity of
Resveratrol-Loaded Enteric Electrospun FibersZHOU Jun, XIANG Shu, DENG Jiao, LIU Xin, LI Xiangzhou* (1)
- Degradation of Mycotoxins in Corn Germ and Crude Corn Oil by
Steaming Corn Germ with Dilute AlkaliZHENG Tingting, LIU Yulan*, WANG Jiandong, PEI Yaxiao (8)
- Changes in Water Retention and Moisture State of Normal and Dark, Firm and
Dry Beef during Postmortem AgingSUN Wenbin, LUO Xin, MAO Yanwei, ZHANG Yimin, ZHU Lixian,
LIANG Rongrong, ZUO Huixin, MING Dandan, NIU Lebao* (14)
- Quality Differences of Different Grades of Wuyi Rougui Tea with
Different Baking DegreesXU Xingyan, CHEN Si, YU Xiaomin, ZHAO Xiaoman, LIN Hongzheng,
LIU Guoying, SU Feng, GAO Feng, SUN Yun*, HAO Zhilong* (22)
- Proteomic Analysis of the Potential Mechanism for Improving Pork Quality by
Preslaughter Mild DrivingZOU Bo, HE Guangjie, ZHAO Di, YAN Jing, ZHANG Ze, XU Xinglian, ZHOU Guanghong, LI Chunbao* (29)
- Reconstitution Characteristics and Quality Stability of Egg White
Derived Enteral Nutrient PowderMA Yanqiu, CHI Yuan, SONG Bingjie, MA Zihong, CHI Yujie* (38)
- Structure, Physicochemical Properties and Adsorbability of
Red Raspberry PomaceQI Yunfei, ZHANG Yiyao, TIAN Jingyu, MA Minghong, LI Meixuan, WANG Jinling* (46)
- Establishment and Application of Comprehensive Evaluation
Model for Quality of Fresh Passion FruitMA Wenxia, NI Yujie, XIE Qian, HE Shumin, YE Qinghua, YE Jun, CHEN Qingxi* (53)
- Effect of Heating Temperature on Myofibrillar Protein Structure and
Gel Properties of Sheldrake Breast MuscleWANG Zhengwen, TIAN Hongwei, ZHOU Fuyu,
ZHANG Zhifang, HE Jun, SUN Yangying, CAO Jinxuan, PAN Daodong* (61)

Food Engineering

- Comparison of Physicochemical and Biochemical Characteristics of Crude Polysaccharides from
Dimocarpus longan Pulp Dried by Different MethodsWANG Shiqi, HUANG Xiaoyun, YI Yang*, HUANG Fei, WANG Limei, WANG Hongxun (69)
- Effect of Ultrasound on Freeze-Thaw Stability of Soy Protein Isolate
Gel Induced by Glutamine TransaminaseLIU Jingnan, ZHANG Zhihui, WANG Lin, WANG Yuying, ZHANG Anqi, WANG Xibo*, XU Ning* (76)
- Effect of Hot Air Drying Temperature on Physical and
Chemical Properties of Waxy CornZHOU Jingyi, ZHAO Yilin, ZHANG Hao, CAO Yong*, LIU Jingsheng* (83)
- Effects of High Energy Ball Milling on Physicochemical
Properties and Structure of Rice StarchHUO Yinqiang, WANG Yao, CHEN Jiangping, LIU Songji, LIU Chuanju, NIE Rongzu, TANG Shangwen* (89)

Nutrition and Hygiene

- In Vitro* Antioxidant Activity of Curcuminoids and Their Protective Effects against Oxidative
Stress-Induced Damage of Chicken ErythrocytesZHANG Jingfei, HAN Hongli, SHEN Mingming, ZHANG Lili, WANG Tian* (96)
- Effects of Grape Seed Proanthocyanidins on Renal Iron Content, Oxidative Stress and *Fas* and *Bax*
Gene Expression in Rats with Iron OverloadYUN Shaojun, CHU Dongyang, HE Xingshuai, ZHANG Wenfang, FENG Cuiping* (106)
- Alleviating Effect of Nicotinamide Ribose on Depressed-Like Behavior and Intestinal
Mucosal Permeability in Alcohol-Exposed MiceJIANG Yushan, LIU Ying, WANG Zilong, XUE Meilan, CHANG Zhishang, LIANG Hui* (112)
- Preventive Effect of Proanthocyanidin on Gut
Microbiome in Dyslipidemic MiceYANG Changming, XIAO Ying*, WU Qiguo, YIN Zhiting, ZHOU Yiming, ZHOU Xiaoli (120)
- Peptide Fractions from *Moringa oleifera* Ameliorate *D*-Galactose-Induced
Oxidative Damage in MiceGENG Chunyang, LIN Lianzhu*, ZHAO Mouming, ZHU Qiyuan (127)
- Effects of Blueberry Anthocyanins on Lipopolysaccharide-Induced Inflammation in RAW 264.7
Cells and HCT-116 Cells Proliferation and ApoptosisLIN Yang, YANG Ping, ZHANG Qi, LANG Yuxi, DENG Haotian, MENG Xianjun* (133)
- Repairing Effect of Lactoferrin on Triadimefon-Induced Damage of
Bone Marrow Mesenchymal Stem CellsXIE Yindan, ZHAO Tianyu, XU Yan, REN Haowei, AN Jingjing, LIU Ning* (141)



Thrombolytic Activity of Nattokinase Produced by

Bacillus subtilis natto LNUB236ZHU Junfeng, LIU Shuai, ZHAO Pengyan, ZHAO Jian, LI Jiazeng, WANG Tianqi, WANG Li, LIU Hongsheng* (148)

Protective Effect of Polysaccharide from *Mesona blumes* on

Oxidative Damage of CellsHE Chuanbo, DENG Ting, WEI Haocheng, WU Guohong, SHANGGUAN Yuchen, XIONG Hejian* (160)

Hypoglycemic Effect of Sweet Corn Cob Polysaccharide on Diabetic Rats..... MA Yongqiang, ZHANG Kai*, WANG Xin, LU Xuechun, LIN Congyu (169)

Extraction and Purification of *Ganoderma lucidum* Polysaccharides and Mechanistic Study of

Their Protective Effect against Oxidative Stress Injury in Human Skin Fibroblast Cells ZHANG Jiachan, SHAO Qing, WANG Qian,
WANG Changtao*, ZHAO Dan, LI Meng, SUN Baoguo, LIU Jitao (174)

Packaging, Storage and Transportation

Effect of Vacuum Combined with Light-Proof Packaging on

Quality of Fresh-Cut PotatoesXU Dongying, ZHOU Fuhui, JIANG Haifeng, JIANG Aili*, WEI Sheng, GAO Xueqing, CHEN Chen, HU Wenzhong* (184)

Effect of Black Pepper Essential Oil Containing Composite Coating on

Physicochemical Properties, Quality and Safety of Jinhua Ham CHANG Hong, BI Yao, WANG Ying, PAN Daodong,
DANG Yali, HE Jun, CAO Jinxuan* (193)

Stability of Antifungal Peptide Jelleine-I and Effect of Jelleine-I Lipopeptides on

Controlling Citrus Postharvest Green MoldLI Xindan, MA Jiahong, WANG Wenjun, ZENG Kaifang* (199)

Inhibitory Effects of Different Bacteriostatic Agents on *Bacillus cereus* Inoculated in Fresh Wet

Noodles Made from Wheat Flour Blended with Highland Barley FlourWANG Shu'ai, WANG Ziyuan, ZHANG Min* (206)

Biocontrol Effect of Volatile Monomer *Trans*-cinnamaldehyde with Antagonistic Capacity to

Yeast on Gray Mold Disease of Postharvest Strawberry Fruit GUO Hongna, LIU Jia, XI Yuting, ZHOU Jiao, JIANG Yi,
WANG Jiangqi, ZHANG Yanfen, XIAO Hongmei* (212)

Effect of Preharvest Bagging Treatment on Postharvest Degreening Behavior and Storage

Characteristics of Satsuma Mandarin (*Citrus unshiu* Marc.) FruitRAN Haojie, FAN Shiyu, ZENG Kaifang, DENG Lili* (221)

Reviews

Recent Advances in Understanding the Role of Quorum Sensing System and

Quorum Sensing Inhibitors in Regulating Bacterial Biofilm Formation XIAO Mengyuan, WU Ruiyun, TAN Chunming, LI Pinglan* (227)

Advances in Understanding the Biological Activity of Lupinane-Type Pentacyclic Triterpenoids QIAO Wenshu, ZHAO Haitian*, YAO Lei* (235)

Recent Progress in the Regulation of Glycolipid Metabolism by Flaxseeds SHI Xiangling, SUN Guiju* (242)

Chromatography Alone and Coupled with Mass Spectrometry for the Determination of

Trace Gibberellins in Complex Matrices: A ReviewJIANG Changling, DAI Jinxia, LIU Xin, LU Chengyin, CHEN Hongping* (249)

Present and Future Application of Microbial Metabolic Engineering in Anthocyanin Production LI Yue, LI Guorui, CHEN Yongsheng* (260)

Recent Advances in Molecular Structures of Amylose and AmylopectinHAN Wenfang, LIN Qinlu, ZHAO Siming, LI Jiangtao*, NIU Guihong (267)

Application of Surface Plasma Resonance Sensor in Food Safety Inspection: A ReviewHUANG Zhao, CAO Yanan, LI Pao, ZHAO Zhen, LIU Xia* (276)

Electrospinning: Application in Food Industry.....DENG Lingli, ZHANG Hui* (283)

Scientometric Analysis of Cross-Disciplinary Studies on

Food Safety and Data Science in China SHAO Hang, SONG Yinghua*, LI Moxiao*, SHAO Wei, LEI Shengjiao, KU Renjun, XIA Yaqiong (291)

On Legislative Improvement in Joint Responsibility for Food Safety in China.....XIAO Feng, SUN Liang (302)

Advances in Our Understanding of the Composition and Biofunctional

Characteristics of Milk-Derived ExosomesTONG Lingjun, HAO Haining, ZHANG Lanwei, YI Huaxi* (310)

Construction of Big Data Standard System for Food Safety ZHANG Fei, JING Yaping, ZHU Ping, WANG Daxia, GUO Xiaoyan, TAO Guangcan* (318)

Progress in the Effect of Resistant Starch on Improving

Intestinal Function and Glycolipid Metabolism..... LI Ying, ZHANG Xin, YANG Jiajie, MA Xiangyang, HOU Juncai, LI Aili* (326)

Recent Progress in Identification Techniques for

Wine Geographical Origin SU Yingyue, WANG Fei, WEN Haosong, ZHANG Jinjie, ZHANG Ang*, YUAN Chunlong* (336)

Recent Progress in Research on *Agriophyllum squarrosum* (L.) Moq.XU Haiyan, FENG Xinhong, ZHANG Jinyu, MA Chaomei* (346)