

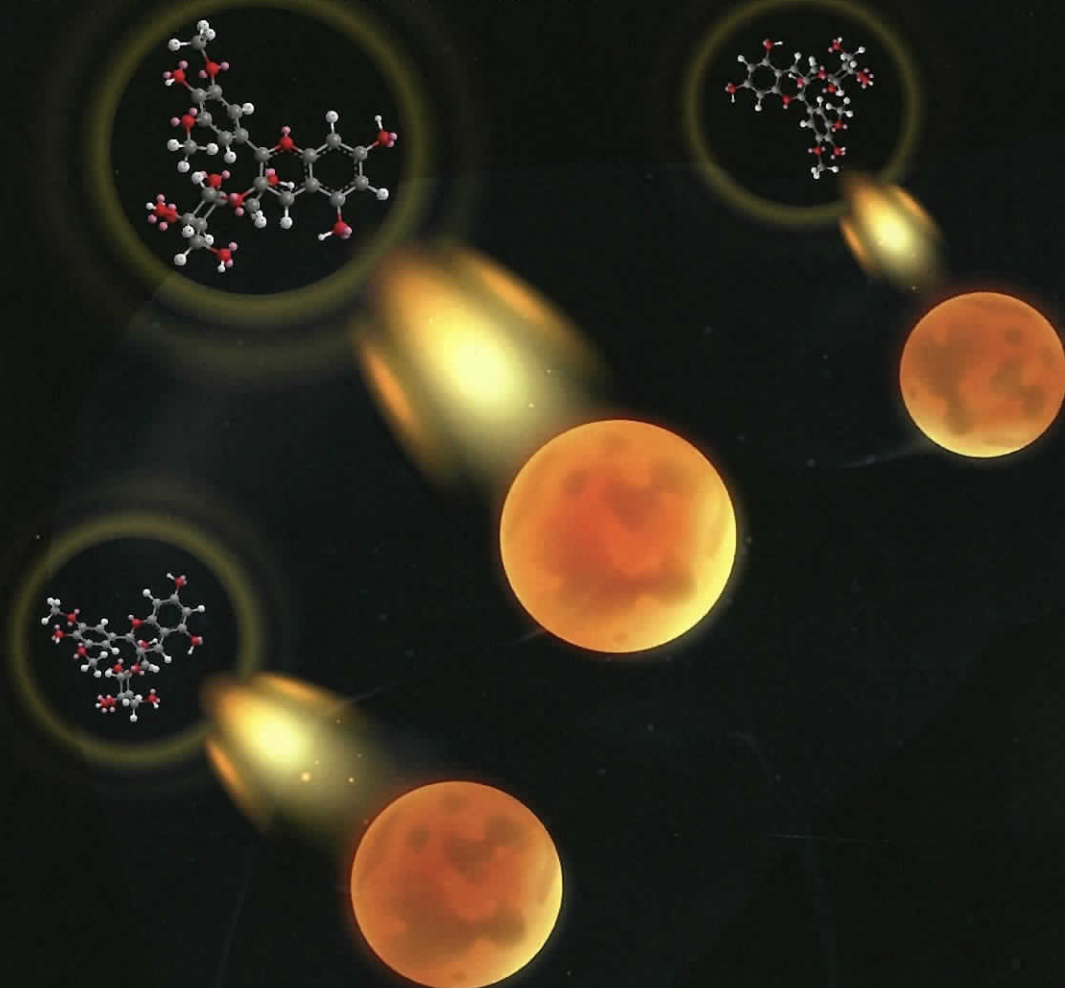
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ON THE COVER: Our study demonstrated that malvidin-3-O-glucoside (M3G) remarkably inhibited lipid accumulation in liver. Golden yellow planets indicated lipid droplet formation during hepatic steatosis. M3G was contained in the yellow circles and destroyed lipid droplets through emission of yellow light beams, which represented TFEB-mediated lysosome regulation and Nrf2/AKE-mediated antioxidant system.

Viewpoints

- 4561 **S** Fungicide-Induced Hormesis in Phytopathogenic Fungi: A Critical Determinant of Successful Agriculture and Environmental Sustainability
Evgenios Agathokleous* and Edward J. Calabrese
- DOI: 10.1021/acs.jafc.1c01824

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- 4564 Encapsulation Strategies for *Bacillus thuringiensis*: From Now to the Future
Jhones L. de Oliveira, Leonardo Fernandes Fraceto, Alejandra Bravo, and Ricardo Antonio Polanczyk*
- DOI: 10.1021/acs.jafc.0c07118

- 4578 Nanomaterials Enabled and Bio/Chemical Analytical Sensors for Acrylamide Detection in Thermally Processed Foods: Advances and Outlook
Mirinal Kumar Rayappa, Priyanka A. Viswanathan, Gurdeep Rattu, and P. Murali Krishna*
- DOI: 10.1021/acs.jafc.0c07956

Articles

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- 4604 **S** Design, Synthesis, and Structure–Activity Relationship of Quinazolinone Derivatives as Potential Fungicides
Jing-Wen Peng, Xiao-Dan Yin, Hu Li, Kun-Yuan Ma, Zhi-Jun Zhang, Rui Zhou, Yu-Ling Wang, Guan-Fang Hu, and Ying-Qian Liu*
- DOI: 10.1021/acs.jafc.0c05475

- 4615 **S** Rational Optimization of 1,2,3-Triazole-Tailored Carbazoles As Prospective Antibacterial Alternatives with Significant In Vivo Control Efficiency and Unique Mode of Action
Xing Huang, Hong-Wu Liu, Zhou-Qing Long, Zhen-Xing Li, Jian-Jun Zhu, Pei-Yi Wang,* Pu-Ying Qi, Li-Wei Liu, and Song Yang*
- DOI: 10.1021/acs.jafc.1c00707

4628 **5** DOI: 10.1021/acs.jafc.1c00862
Mitochondria-Targeted Red-Emission Fluorescent Probe for Ultrafast Detection of H₂S in Food and Its Bioimaging Application
Keli Zhong, Xiaoling Hu, Shiyi Zhou, Xiuying Liu, Xue Gao, Lijun Tang,* and Xiaomei Yan*

4635 **5** DOI: 10.1021/acs.jafc.1c01135
Chemical Identity and Functional Characterization of Semiochemicals That Promote the Interactions between Rice Plant and Rice Major Pest *Nilaparvata lugens*
Zhenfei Zhang, Yong Liu, Vincent Portaluri, Christine Woodcock, John A. Pickett, Senshan Wang, and Jing-Jiang Zhou*

4645 **5** DOI: 10.1021/acs.jafc.1c01204
Synthesis, Antibacterial Activity, and Mechanisms of Novel 6-Sulfonyl-1,2,4-triazolo[3,4-b][1,3,4]thiadiazole Derivatives
Sikai Wu, Jing Shi, Jixiang Chen, Deyu Hu, Liansheng Zang,* and Baoan Song*

4655 **5** DOI: 10.1021/acs.jafc.1c01270
Uptake, Accumulation, Translocation, and Subcellular Distribution of Perchlorate in Tea (*Carnellia sinensis* L.) Plants
Yabo Liang, Li Zhou, Xinzhong Zhang, Huan Yu, Mingming Guo, Jiawei Yu, Xinru Wang, Mei Yang, Zhengyuan Lou, Fengjian Luo, Hezhi Sun,* and Zongmao Chen*

Bioactive Constituents, Metabolites, and Functions

4663 **5** DOI: 10.1021/acs.jafc.0c06695
Malvidin-3-O-Glucoside from Blueberry Ameliorates Nonalcoholic Fatty Liver Disease by Regulating Transcription Factor EB-Mediated Lysosomal Function and Activating the Nrf2/ARE Signaling Pathway
Yang Xu, Huihui Ke, Yuting Li, Lianghua Xie, Hongming Su, Jiahong Xie, Jianling Mo, and Wei Chen*

4674 **5** DOI: 10.1021/acs.jafc.1c00200
LED-Induced Carotenoid Synthesis and Related Gene Expression in Brassica Microgreens
Oday Alrifai, Xiuming Hao, Ronghua Liu, Zhanhui Lu, Massimo F. Marcone, and Rong Tsao*

4686 **5** DOI: 10.1021/acs.jafc.1c00298
Bioactivity Ingredients of *Chaenomeles speciosa* against Microbes: Characterization by LC-MS and Activity Evaluation
Zhao-Jie Wang, Dan-Ni Jin, Ying Zhou, Xu-Yan Sang, Yan-Yan Zhang, Tian-Zhen Xie, Zhi Dai, Yun-Li Zhao, and Xiao-Dong Luo*

4697 DOI: 10.1021/acs.jafc.1c00367
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4708 **5** DOI: 10.1021/acs.jafc.1c00432
Kinetic Modeling of *In Vitro* Small Intestinal Lipid Digestion as Affected by the Emulsion Interfacial Composition and Gastric Prelipolysis
Marcos R. Infantes-Garcia,* Sarah H. E. Verkempinck, Marc E. Hendrickx, and Tara Grauwet*

4720 DOI: 10.1021/acs.jafc.1c00487
6,7-Dihydroxy-2,4-Dimethoxyphenanthrene from Chinese Yam Peels Alleviates DSS-Induced Intestinal Mucosal Injury in Mice via Modulation of the NF- κ B/COX-2 Signaling Pathway
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4732 **5** DOI: 10.1021/acs.jafc.1c00706
Ameliorative Effect of Dietary Tryptophan on Neurodegeneration and Inflammation in *D*-Galactose-Induced Aging Mice with the Potential Mechanism Relying on AMPK/SIRT1/PGC-1 α Pathway and Gut Microbiota
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4745 DOI: 10.1021/acs.jafc.1c01117
Molecular Mechanisms of the Anti-obesity Properties of *Agardhiella subulata* in Mice Fed a High-Fat Diet
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4755 **5** DOI: 10.1021/acs.jafc.1c01431
High-Coverage Screening of Sulfonamide Metabolites in Goat Milk by Magnetic Doped S Graphene Combined with Ultrahigh-Performance Liquid Chromatography–High-Resolution Mass Spectrometry
Wei Jia,* An Du, Zhiban Fan, and Lin Shi

Biotechnology and Biological Transformations

4766 **5** DOI: 10.1021/acs.jafc.0c06756
Production of Bioactive Deapsylated Platycosides from Glycosylated Platycosides in Balloon Flower Root Using the Crude Enzyme from the Food-Available Fungus *Rhizopus oryzae*
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4778 **5** DOI: 10.1021/acs.jafc.1c00434
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4785 **5** DOI: 10.1021/acs.jafc.1c00498
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Yafeng Song, Sqi He, Ingy I. Abdallah, Anita Jopkiewicz, Rita Setroikromo, Ronald van Merkerk, Pieter G. Tepper, and Wim J. Quak*

4795 5 DOI: 10.1021/acs.jafc.1c00641
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William J. Lucas,* and Zhaoliang Zhang*

Food and Beverage Chemistry/Biochemistry

4804 5 DOI: 10.1021/acs.jafc.1c00396
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Molecular Mass with Implications for the Development of Nonbleachable Pigments
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4816 5 DOI: 10.1021/acs.jafc.1c00679
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4827 5 DOI: 10.1021/acs.jafc.1c00964
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Food Safety and Toxicology

4840 5 DOI: 10.1021/acs.jafc.0c07665
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4849 5 DOI: 10.1021/acs.jafc.1c00382
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4858 DOI: 10.1021/acs.jafc.1c00462
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4865 5 DOI: 10.1021/acs.jafc.1c00718
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4883 5 DOI: 10.1021/acs.jafc.1c00211
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4894 5 DOI: 10.1021/acs.jafc.1c00592
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4903 5 DOI: 10.1021/acs.jafc.1c00797
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Xiaozhen Bao,* Xuehui Cao, Yong Yuan, Bo Zhou,* and Congde Huo*

4911 5 DOI: 10.1021/acs.jafc.1c01128
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Omics Technologies Applied to Agriculture and Food

4918 5 DOI: 10.1021/acs.jafc.1c00413
Mass Spectrometry-Based Metabolomics to Investigate the Effect of Mechanical Shaking on Sauvignon Blanc Berry
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Brigitte Heike Schwendel, Praju Vikas Anekal, Erica Zarate, Kyung Whan Bang, George Guo, Angus C. Grey, and
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