



REVIEWS

- Recent advances in the processing of green tea biomolecules using ethyl lactate. A review** by David Villanueva-Bermejo, Guillermo Reglero and Tiziana Fornari 1
- An integrated strategy between food chemistry, biology, nutrition, pharmacology, and statistics in the development of functional foods: A proposal** by Daniel Granato, Domingos Sávio Nunes and Francisco J. Barba 13
- Review: Amylopectin synthesis and hydrolysis – Understanding isoamylase and limit dextrinase and their impact on starch structure on barley (*Hordeum vulgare*) quality** by Peter W. Gous and Glen P. Fox 23
- Wastes and by-products: Upcoming sources of carotenoids for biotechnological purposes and health-related applications** by Natália Martins and Isabel C.F.R. Ferreira 33
- Biomolecular content of camel milk: A traditional superfood towards future healthcare industry** by Mohammadreza Khalesi, Maryam Salami, Maryam Moslehishad, James Winterburn and Ali Akbar Moosavi-Movahedi 49
- Spectral analysis: A rapid tool for species detection in meat products** by Yogesh Kumar and Sanjivani Chandrakant Karne 59
- A current look at nutraceuticals – Key concepts and future prospects** by João Pinto da Costa 68

(Contents continued overleaf)

(contents continued)

Vitamin D status and calcium intake in systemic inflammation, insulin resistance and the metabolic syndrome: An update on current evidence by Mario J. Soares, Poonam K. Pannu, Emily K. Calton, Christopher M. Reid and Andrew P. Hills	79
A review: RFID technology having sensing aptitudes for food industry and their contribution to tracking and monitoring of food products by Fabien Bibi, Carole Guillaume, Nathalie Gontard and Brice Sorli	91
Ohmic heating in dairy processing: Relevant aspects for safety and quality by L.P. Cappato, M.V.S. Ferreira, J.T. Guimaraes, J.B. Portela, A.L.R. Costa, M.Q. Freitas, R.L. Cunha, C.A.F. Oliveira, G.D. Mercali, L.D.F. Marzack and A.G. Cruz	104
Overview of validated alternative methods for the detection of foodborne bacterial pathogens by Alexander Rohde, Jens Andre Hammerl, Idesbald Boone, Wiebke Jansen, Svenja Fohler, Günter Klein, Ralf Dieckmann and Sascha Al Dahouk	113
The importance of minerals in human nutrition: Bioavailability, food fortification, processing effects and nanoencapsulation by Seyed Mohammad Taghi Gharibzahedi and Seid Mahdi Jafari	119
Recent advances on microbial transglutaminase and dairy application by Ehab Romeih and Gavin Walker	133
Bioaromas – Perspectives for sustainable development by Lorena de Oliveira Felipe, Ana Maria de Oliveira and Juliano Lemos Bicas	141
Revisiting an ancient spice with medicinal purposes: Cinnamon by Regiane Ribeiro-Santos, Mariana Andrade, Dayana Madella, Ana Paula Martinazzo, Lívia de Aquino Garcia Moura, Nathália Ramos de Melo and Ana Sanches-Silva	154
Technological solutions for reducing impact and content of health sensitive nutrients in food by Stefan Palzer	170
Raman imaging for food quality and safety evaluation: Fundamentals and applications by Tehseen Yaseen, Da-Wen Sun and Jun-Hu Cheng	177
COMMENTARIES	
Selenium is a source of aliment and ailment: Do we need more? by Kamal Ivory and Claudio Nicoletti	190
Understanding the success of Page's model and related empirical equations in fitting experimental data of diffusion phenomena in food matrices by Ricardo Simpson, Cristian Ramírez, Helena Nuñez, A. Jaques and Sergio Almonacid	194
Towards an extended food safety culture model: Studying the moderating role of burnout and jobstress, the mediating role of food safety knowledge and motivation in the relation between food safety climate and food safety behavior by E. De Boeck, A.V. Mortier, L. Jacxsens, L. Dequidt and P. Vlerick	202
Food fraud prevention shifts the food risk focus to vulnerability by John Spink, David L. Ortega, Chen Chen and Felicia Wu	215
CONFERENCE REPORTS	
Greening the global food supply chain through innovation in food science & technology: Outcomes from the 18th IUFOST Congress, Dublin, Ireland by Ronan Gormley	221
Targeted Technologies for Sustainable Food Systems: Outcomes from the EFFoST Annual Meeting 2016, Vienna, Austria by Ronan Gormley	228