

LWT—Food Science and Technology

CONTENTS

Volume 137, February 2021

Research papers

- Use of kombucha culture in the production of fermented dairy beverages**
P. Sarkaya, E. Akan and O. Kinik 110326
- Additives and soy detection in powder rice beverage by vibrational spectroscopy as an alternative method for quality and safety control**
J.G.S. Silva, E.T.d.S. Caramês and J.A.L. Pallone 110331
- Encapsulation of fish oil by carrageenan and gum tragacanth as wall materials and its application to the enrichment of chicken nuggets**
P. Pourashouri, B. Shabanpour, S. Heydari and S. Raeisi 110334
- Novel authentication approach for coffee beans and the brewed beverage using a nuclear-based species-specific marker coupled with high resolution melting analysis**
I. Bosmali, G. Lagiotis, E. Stavridou, N. Haider, M. Osathanunkul, K. Pasentis and P. Madesis 110336
- Purification and antimicrobial mechanism of a novel bacteriocin produced by *Lactobacillus rhamnosus* 1.0320**
C. Xu, Y. Fu, F. Liu, Z. Liu, J. Ma, R. Jiang, C. Song, Z. Jiang and J. Hou 110338
- Effect of storage conditions on 'Deglet Nour' date palm fruit organoleptic and nutritional quality**
S. Cherif, C. Le Bourvellec, S. Bureau and J. Benabda 110343
- Ionic composition of beer worts produced with selected unmalted grains**
M. Sterczyńska, M. Stachnik, A. Poreda, K. Pużyńska, J. Piepiórka-Stepuk, G. Fiutak and M. Jakubowski 110348
- The impact of commercial prebiotics on the growth, survival and nisin production by *Lactococcus lactis* 537 in milk**
B. Almutairi, M.S. Turner, M.T. Fletcher and Y. Sultanbawa 110356
- Isolation, identification and thermal inactivation of dominant spoilage bacteria in egg curds**
S. Song, Y. Zhu, Z. Huang, Y. Lin, X. Shi and H. Guo 110357
- Continuous-flow manothermosonication treatment of apple-carrot juice blend: Effects on juice quality during storage**
O. Kahraman and H. Feng 110360
- Nano-emulsification improves physical properties and bioactivities of *litsea cubeba* essential oil**
Y. Wang, C. Cen, J. Chen, C. Zhou and L. Fu 110361
- Antioxidant properties of blueberry extract in different oleogel systems**
H. Qiu, Z. Qiu, Z. Chen, L. Liu, J. Wang, H. Jiang, H. Zhang and G.-q. Liu 110364
- Role of enzymes for improvement in gluten-free foxtail millet bread: It's effect on quality, textural, rheological and pasting properties**
S. Sarabhai, T. Tamilselvan and P. Prabhasankar 110365
- Antioxidant effects of polyphenolic compounds and structure-activity relationship predicted by multivariate regression tree**
S.C. Santos, G.A.C. Fortes, L.T.F.M. Camargo, A.J. Camargo and P.H. Ferri 110366
- Prediction of fungal infestation in stored barley ecosystems using artificial neural networks**
J. Wawrzyniak 110367
- Optimization of process parameters for extraction of protein isolates from *Khesari dhal* (*Lathyrus sativus* L)**
S. Sethi, D.N. Yadav, S. Snigdha and A. Gupta 110368
- Study of the mechanism of flavor compounds formed via taste-active peptides in bovine bone protein extract**
X. Xu, M. Yu, J. Raza, H. Song, L. Gong and W. Pan 110371
- Tannic acid-induced changes in water distribution and protein structural properties of bacon during the curing process**
Q. Zhong, H. Li, S. Deng, Y. Ren, B. Kong and X. Xia 110381

[Contents continued on inside back cover]

- UPLC-Q-TOF/MS-based untargeted metabolomics for discrimination of navel oranges from different geographical origins of China**
Y. Li, L. Liang, C. Xu, T. Yang and Y. Wang 110382
- Virtual reality environments on the sensory acceptability and emotional responses of no- and full-sugar chocolate**
D.D. Torrico, C. Sharma, W. Dong, S. Fuentes, C. Gonzalez Viejo and F.R. Dunshea 110383
- Influence of pre-acidification, and addition of KGM and whey protein-based fat replacers CH-4560, and YO-8075 on texture characteristics and pizza bake properties of low-fat Mozzarella cheese**
D. Zhang, S.K. Lillevang and N.P. Shah 110384
- Heat inactivation of thermolabile polygalacturonase down to single molecule level. Systematic investigation and molecular modeling**
A. Serrano-Martínez, I. Aprodu, I. Banu, C. Lucas-Abellán, P. Hernández Sánchez, L. Guardiola, E. Núñez-Delicado and V.M. Gómez-López 110385
- Noncovalent interaction of cyanidin-3-O-glucoside with whey protein isolate and β -lactoglobulin: Focus on fluorescence quenching and antioxidant properties**
Y. Meng, L. Hao, Y. Tan, Y. Yang, L. Liu, C. Li and P. Du 110386
- Insights into the structural characteristic of rabbit glycosylated myofibrillar protein with high solubility in low ionic strength medium**
S. Li, Z. He, C. Qu, S. Yu, M. Li and H. Li 110387
- Characterization and identification of a fraction from silver carp (*Hypophthalmichthys molitrix*) muscle hydrolysates with cryoprotective effects on yeast**
F. Wang, M. Cui, H. Liu, X. Li, J. Yu, Y. Huang and Y. Liu 110388
- Physicochemical quality attributes and antioxidant properties of set-type yogurt fortified with argel (*Solenostemma argel* Hayne) leaf extract**
I.A. Mohamed Ahmed, H.A.S. Alqah, A. Saleh, F.Y. Al-Juhaimi, E.E. Babiker, K. Ghafoor, A.B. Hassan, M.A. Osman and A. Fickak 110389
- Breakfast cereals with inulin obtained through thermoplastic extrusion: Chemical characteristics and physical and technological properties**
S.M. Ferreira, V.D. Capriles and A.C. Conti-Silva 110390
- Partial substitution of 40 g/100 g fresh milk with reconstituted low heat skim milk powder in high-moisture mozzarella cheese production: Rheological and water-related properties**
F. Tidona, M. Alinovi, S. Francolino, G. Brusa, R. Ghiglietti, F. Locci, G. Mucchetti and G. Giraffa 110391
- Safe cured meat using gamma radiation: Effects on spores of *Clostridium sporogenes* and technological and sensorial characteristics of low nitrite cooked ham**
D.R.G. Silva, G.B.S. Haddad, A.P. de Moura, P.M. de Souza, A.L.S. Ramos, D.L. Hopkins and E.M. Ramos 110392
- Effect of *Bacillus subtilis* Y61 inoculation on bacterial community and metabolic profile of sichuan paocai fermentation**
Z. Yang, F. Luo, K. Zhong, C. Huang, Z. Yu, Z. Peng, Y. Wu, Q. Bu and H. Gao 110393
- HPP improves the emulsion properties of reduced fat and salt meat batters by promoting the adsorption of proteins at fat droplets/water interface**
H.-J. Yang, M.-Y. Han, H.-f. Wang, G.-t. Cao, F. Tao, X.-L. Xu, G.-H. Zhou and Q. Shen 110394
- Control of *Clostridium perfringens* spore germination and outgrowth by potassium lactate and sodium diacetate in ham containing reduced sodium chloride**
M. Redondo-Solano, C. Valenzuela-Martinez, V.K. Juneja, D.E. Burson and H. Thippareddi 110395
- Impact of yeast fermentation on nutritional and biological properties of defatted adlay (*Coix lachryma-jobi* L.)**
L. Xu, L. Zhu, Y. Dai, S. Gao, Q. Wang, X. Wang and X. Chen 110396
- Characterization and in vitro digestion properties of cassava starch and epigallocatechin-3-gallate (EGCG) blend**
S. Zhu, B. Liu, F. Wang, D. Huang, F. Zhong and Y. Li 110398
- A discovery-based metabolomic approach using UHPLC Q-TOF MS/MS unveils a plethora of prospective antihypertensive compounds in Korean fermented soybeans**
E.B.-M. Daliri, A. Tyagi, F.K. Ofosu, R. Chelliah, J.-H. Kim, J.-R. Kim, D. Yoo and D.-H. Oh 110399
- Optimizing the production of vitamin D in white button mushrooms (*Agaricus bisporus*) using ultraviolet radiation and measurement of its stability**
S. Salemi, A. Saedisomeolia, F. Azimi, S. Zolfigol, E. Mohajerani, M. Mohammadi and M. Yaseri 110401
- Convenient use of low field nuclear magnetic resonance to determine the drying kinetics and predict the quality properties of mulberries dried in hot-blast air**
M. Li, Y. Chen, Y. Geng, F. Liu, L. Guo and X. Wang 110402
- Effects of different ultrasound powers on the structure and stability of protein from sea cucumber gonad**
H. Li, Y. Hu, X. Zhao, W. Wan, X. Du, B. Kong and X. Xia 110403
- Changes of myofibrillar protein structure improved the stability and distribution of baicalein in emulsion**
J. Chen, Y. Xu, B.A. Pius, P. Wang and X. Xu 110404
- Enzymatic hydrolysis of rapeseed oil with a non-GMO lipase: A strategy to substitute mono- and diglycerides of fatty acids and improve the softness of sponge cakes**
A. Monié, A. David, K. Clemens, M. Malet-Martino, S. Balayssac, E. Perez, S. Franceschi, M. Crepin and M. Delamplé 110405

- Effects of ficin, high pressure and their combination on quality attributes of post-rigor tan mutton**
D. Li, H. Zhang, L. Ma, Y. Tao, J. Liu and D. Liu 110407
- Volatile, quality and olfactory profiles of fresh-cut polignano carrots stored in air or in passive modified atmospheres**
R. Cozzolino, B. De Giulio, M.P. Pellicano, B. Pace, I. Capotorto, A. Martignetti, M. D'Agresti, C. Laurino and M. Cefola 110408
- The impact of innovative gluten-free coatings on the physicochemical, microbiological, and sensory characteristics of fish nuggets**
M.C.A.d. Silva, J.S.F. Leite, B.G. Barreto, M.V.d.A. Neves, A.S. Silva, K.M.d. Viveiros, R.S.F.T. Passos, N.P. Costa, R.V.d. Silva and C.P. Cavalheiro 110409
- Effect of relative humidity on drying characteristics of microwave assisted hot air drying and qualities of dried finger citron slices**
W. Xu, M.N. Islam, X. Cao, J. Tian and G. Zhu 110413
- Microwave-assisted extraction of phenolic compounds with antioxidant and anti-proliferative activities from supercritical CO₂ pre-extracted mango peel as valorization strategy**
A.d.P. Sánchez-Camargo, D. Ballesteros-Vivas, L.M. Buelvas-Puello, H.A. Martínez-Correa, F. Parada-Alfonso, A. Cifuentes, S.R.S. Ferreira and L.-F. Gutiérrez 110414
- Effects of pretreatments on physicochemical and structural properties of proteins isolated from canola seeds after oil extraction by supercritical-CO₂ process**
X. Li, J. Shi, M. Scanlon, S.J. Xue and J. Lu 110415
- Effect of different extent of protein oxidation on the frozen storage stability of muscle protein in obscure pufferfish (*Takifugu obscurus*)**
Y. Zheng, F. Zhou, L. Zhang, H. Wang and X.-c. Wang 110416
- Storage temperature of tiger nuts (*Cyperus esculentus* L.) affects enzyme activity, proximate composition and properties of lactic acid fermented tiger nut milk derived thereof**
N. Kizzie-Hayford, K. Dabie, B. Kyei-Asante, J. Ampofo-Asiama, S. Zahn, D. Jaros and H. Rohm 110417
- Quality improvement of pangasius fillets using aqueous seaweed (*Padina tetrastromatica*) extract**
R.P. Deepitha, K.A.M. Xavier, P. Layana, B.B. Nayak and A.K. Balange 110418
- Spray-coating as a novel strategy to supplement broiler feed pellets with probiotic *Lactobacillus salivarius* NRRL B-30514**
A. Wang, J. Lin and Q. Zhong 110419
- Labeling accuracy and detection of DNA sequences originating from GMOs in meat products commercially available in Greece**
A. Grammenos, S. Paramithiotis, E.H. Drosinos and J. Trafialek 110420
- Study on the gel properties, interactions, and pH stability of pea protein isolate emulsion gels as influenced by inulin**
Q. Xu, B. Qi, L. Han, D. Wang, S. Zhang, L. Jiang, F. Xie and Y. Li 110421
- Application of nano-titanium dioxide coating on fresh *Highbush* blueberries shelf life stored under ambient temperature**
S. Rokayya, F. Jia, Y. Li, X. Nie, J. Xu, R. Han, H. Yu, S. Amanullah, M.M. Alnatrafi and M. Helal 110422
- Effects of oleogels prepared with fish oil and beeswax on the gelation behaviors of protein recovered from Alaska Pollock**
R. Zhang, T. Zhang, M. Hu, Y. Xue and C. Xue 110423
- Wheat dietary fibre and soy protein as new carriers of iodine compounds for food fortification – The effect of storage conditions on the stability of potassium iodide and potassium iodate**
K. Szymandera-Buszcza, K. Waszkowiak, A. Kaczmarek and A. Zaremba 110424
- Effect of ultrasonic power and frequency on rheological properties of Chinese honey**
M. Jiang, W. Zhu, S. Ruan, Y. Jia, X. Bai and J. Sun 110425
- Effect of malaxation temperature on the physicochemical and sensory quality of cv. Cobrançosa olive oil and its evaluation using an electronic tongue**
Í.M.G. Marx, N. Rodrigues, A.C.A. Veloso, S. Casal, J.A. Pereira and A.M. Peres 110426
- Gluten development and water distribution in bread dough influenced by bran components and glucose oxidase**
F. Xiao, X. Zhang, M. Niu, X. Xiang, Y. Chang, Z. Zhao, L. Xiong, S. Zhao, J. Rong, C. Tang and Y. Wu 110427
- Effect of *Bacillus clausii*-fermented spent coffee ground extract on *Salmonella*-infected macrophages**
J.J. Rochín-Medina, H.S. López-Moreno and K. Ramirez 110429
- Microbiological and biochemical performances of six yeast species as potential starter cultures for wet fermentation of coffee beans**
H. Ethalis, J. Cox, D. Frank and J. Zhao 110430
- Fermentation of cereal, pseudo-cereal and legume materials with *Propionibacterium freudenreichii* and *Levilactobacillus brevis* for vitamin B12 fortification**
C. Xie, R. Coda, B. Chamlagain, M. Edelmann, P. Varmanen, V. Piironen and K. Katina 110431
- Multivariate exploratory data analysis by PCA of the combined effect of film-forming composition, drying conditions, and UV-C irradiation on the functional properties of films based on chitosan and pectin**
F. Bigi, H. Haghghi, R. De Leo, A. Ulrici and A. Pulvirenti 110432
- Sorption and thermal characteristics of ancient grain pasta of various compositions**
T. Witczak and D. Gatkowska 110433

- Red pepper powder is an essential factor for ornithine production in kimchi fermentation**
S. Jung, H. An and J.-H. Lee 110434
- Changes of structural and techno-functional properties of high hydrostatic pressure (HHP) treated whey protein isolate over refrigerated storage**
D. Carullo, G.V. Barbosa-Cánovas and G. Ferrari 110436
- Dunaliella salina*-derived peptide protects from bone loss: Isolation, purification and identification**
Y. Chen, J. Chen, Y. Zheng, H. Yu, J. Zhao, J. Chen and J. Zhu 110437
- Quality parameters and bioactive compound bioaccessibility changes in probiotics fermented mango juice using ultraviolet-assisted ultrasonic pre-treatment during cold storage**
J. Wang, B. Xie and Z. Sun 110438
- Lactobacillus plantarum* CY 1-1: A novel quorum quenching bacteria and anti-biofilm agent against *Aeromonas sobria***
X. Lv, T. Cui, H. Du, M. Sun, F. Bai, J. Li and D. Zhang 110439
- The expedient application of microbial fermentation after whole-wheat milling and fractionation to mitigate mycotoxins in wheat-based products**
D. Zadeike, R. Vaitkeviciene, V. Bartkevics, E. Bogdanova, E. Bartkiene, V. Lele, G. Juodeikiene, D. Cernauskas and Z. Valatkeviciene 110440
- The improvement of carboxymethyl β -glucan on the antibacterial activity and intestinal flora regulation ability of lotus seedpod procyanidins**
J. Wang, B. Xie and Z. Sun 110441
- Domination of pit mud microbes in the formation of diverse flavour compounds during Chinese strong aroma-type Baijiu fermentation**
J. Gao, G. Liu, A. Li, C. Liang, C. Ren and Y. Xu 110442
- Enhanced production of γ -aminobutyric acid (GABA) using *Lactobacillus plantarum* EJ2014 with simple medium composition**
S.J. Park, D.H. Kim, H.J. Kang, M. Shin, S.-Y. Yang, J. Yang and Y.H. Jung 110443
- Development of soy milk in the form of wet foam in the presences of whey protein concentrate and polysaccharides at different whipping temperatures: Study of physical, rheological and microstructural properties**
M.R. Salahi and M. Mohebbi 110444
- High-pressure and thermal-assisted pasteurization of habituated, wild-type, and pressure-stressed *Listeria monocytogenes*, *Listeria innocua*, and *Staphylococcus aureus***
M.N. Kabir, S. Aras, J. George, S. Wadood, S. Chowdhury and A.C. Fouladkhah 110445
- Lactic acid bacteria isolated from traditional Italian dairy products: activity against *Listeria monocytogenes* and modelling of microbial competition in soft cheese**
F. Panebianco, F. Giarratana, A. Caridi, R. Sidari, A. De Bruno and A. Giuffrida 110446
- Antilisterial effects of lysozyme-nisin combination at temperature and pH ranges optimal for lysozyme activity: Test of key findings to inactivate *Listeria* in raw milk**
G.S. Sozbilen and A. Yemenicioğlu 110447
- Gas-liquid microextraction coupled with magnetic-assisted dispersive solid-phase extraction clean-up for multi-residue pesticide analysis in fatty foods of animal origin**
H.Y. Kaw, X. Jin, Y. Liu, L. Cai, X. Zhao, J. Wang, J.L. Zhou, M. He and D. Li 110448
- Preparation of porous starch by α -amylase-catalyzed hydrolysis under a moderate electric field**
D. Li, Y. Tao, Y. Shi, Z. Wu, E. Xu, B. Cui and Y. Han 110449
- Standardization of model for the production of spray dried whey protein-zinc complex and its acceptability in milk**
J.V. Pralhadrao, S. Arora, B.G. Shilpashree, V. Sharma, A.K. Singh and N.R. Panjagari 110450
- Synergistic effect of kojic acid and tea polyphenols on bacterial inhibition and quality maintenance of refrigerated sea bass (*Lateolabrax japonicus*) fillets**
R. Wang, X. Hu, A.K. Agyekumwaa, X. Li, X. Xiao and Y. Yu 110452
- Effects of hydroxyl radical oxidation on myofibrillar protein and its susceptibility to μ -calpain proteolysis**
Z. Zhang, P. Liu, X. Deng, X. Guo, X. Mao, X. Guo and J. Zhang 110453
- Impact of temporary frozen storage on the safety and quality of four typical Belgian bakery products**
F. Van Bockstaele, E. Debonne, I. De Leyn, K. Wagemans and M. Eeckhout 110454
- A novel combination of LF-NMR and NIR to intelligent control in pulse-spouted microwave freeze drying of blueberry**
W. Liu, M. Zhang, B. Bhandari and D. Yu 110455
- The influence of non-traditional sourdough made with quinoa, hemp and chia flour on the characteristics of gluten-free maize/rice bread**
J. Jagelaviciute and D. Cizeikiene 110457
- Investigation of the functional and thermal properties of Mahua deoiled cake flour and its protein isolate for prospective food applications**
A.K. Biswal, C. Lenka, P.K. Panda, J.-M. Yang and P.K. Misra 110459
- Microencapsulation of jabuticaba extracts (*Myrciaria cauliflora*): Evaluation of their bioactive and thermal properties in cassava starch biscuits**
D. de Cássia Sousa Mendes, E.R. Asquieri, R.D. Batista, C.C. de Moraes, D.P. Ramirez Ascheri, I.Y.L. de Macêdo and E. de Souza Gil 110460
- Effects of manufacturing on the volatile composition of raw Pu-erh tea with a focus on de-enzyming and autoclaving-compressing treatments**
X. Fan, N. Chen, F. Cai, F. Ren, J. Zhong, D. Wang, L. Shi, D. Ren and L. Yi 110461

Impact of incubation on nutritional and antioxidant properties of defatted adlay (<i>Coix lachryma-jobi</i> L.) bran <i>L. Xu, S. Gao, H. Xu, X. Wang, Y. Hou, N. Liang and X. Chen</i>	110463	Lactic acid produced by <i>Streptococcus thermophilus</i> activated glutamate decarboxylase (GadA) in <i>Lactobacillus brevis</i> NPS-QW 145 to improve γ-amino butyric acid production during soymilk fermentation <i>T. Xiao and N.P. Shah</i>	110474
Technology and safety evaluation of <i>Bacillus coagulans</i> exhibiting antimicrobial activity for starter development <i>Y.-S. Kim, J. Lee, S. Heo, J.-H. Lee and D.-W. Jeong</i>	110464	Enhancing the colloidal stabilities of zein nanoparticles coated with carboxylic curdlans <i>Y.-B. Yu, C. Wang, T.-T. Chen, Z.-W. Wang and J.-K. Yan</i>	110475
Application of plasma-activated water (PAW) for mitigating methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) on cooked chicken surface <i>J. Wang, R. Han, X. Liao and T. Ding</i>	110465	Influence of partial sodium replacement on proximate composition, physical and sensory quality of marinated anchovy (<i>Engraulis encrasicolus</i>) <i>N. Demirtas Erol, Ö.A. Erdem, S. Cakli and A.B. Yavuz</i>	110476
The change characteristics in moisture distribution, physical properties and protein denaturation of slightly salted silver carp (<i>Hypophthalmichthys molitrix</i>) filets during cold/hot air drying processing <i>D. Yu, T. Feng, Q. Jiang, F. Yang, P. Gao, Y. Xu and W. Xia</i>	110466	Stability of milk chocolate with hygroscopic fibers during storage <i>A.B. Verde, I.D. Alvim, V. Luccas and R.M. Vercelino Alves</i>	110477
Technological quality and sensory acceptability of nutritive bars produced with Brazil nut and baru almond coproducts <i>D.S. Lima, M.B. Egea, I.d.C.C. Cabassa, A.B.d. Almeida, T.L.d. Sousa, T.M.d. Lima, R.A. Loss, A.C.P. Volp, L.G.d. Vasconcelos, E.L. Dall'Oglio, T. Hernandes and K.P. Takeuchi</i>	110467	Screening of the volatile compounds in fresh and thermally treated watermelon juice via headspace-gas chromatography-ion mobility spectrometry and comprehensive two-dimensional gas chromatography-olfactory-mass spectrometry analysis <i>F. Yang, Y. Liu, B. Wang, H. Song and T. Zou</i>	110478
Effect of three-stage encapsulation on survival of emulsified <i>Bifidobacterium animalis</i> subsp. Lactis during processing, storage and simulated gastrointestinal tests <i>N. Juárez-Trujillo, M. Jiménez-Fernández, E. Franco-Robles, C.I. Beristain-Guevara, M.A. Chacón-López and R.I. Ortiz-Basurto</i>	110468	A novel method for simultaneous degumming and deacidification of corn oil by miscella refining in one step <i>B. Wang, S. Sun, N. Yao and C. Chu</i>	110480
Biocontrol of <i>Salmonella</i> Enteritidis on chicken meat and skin using lytic SE-P3, P16, P37, and P47 bacteriophages <i>Ö. Aydin Demirarslan, H. Alasalvar and Z. Yildirim</i>	110469	Effects of fermentation time and shooting period on amino acid derivatives and free amino acid profiles of tea <i>S. Salman, C. Yilmaz, V. Gökmen and F. Özdemir</i>	110481
Changes in antimicrobial activity and resistance of antibiotics in meat patties during <i>in vitro</i> human digestion <i>S.Y. Lee, D.Y. Lee, H.J. Kang, J.H. Kang and S.J. Hur</i>	110470	Prebiotic-alginate edible coating on fresh-cut apple as a new carrier for probiotic lactobacilli and bifidobacteria <i>M.V. Alvarez, M.F. Bambace, G. Quintana, A. Gomez-Zavaglia and M.d.R. Moreira</i>	110483
Production of lactose derivative hetero-oligosaccharides from whey by glucansucrase E81 and determination of prebiotic functions <i>H. İspirli and E. Dertli</i>	110471	Effect of whole hempseed flour incorporation on the rheological, microstructural and nutritional characteristics of chapati – Indian flatbread <i>S. Sharma and P. Prabhasankar</i>	110491
Enrichment of antioxidants compounds in cookies produced with camu-camu (<i>Myrciaria dubia</i>) coproducts powders <i>E.G.L. das Chagas, F.M. Vanin, V.A. dos Santos Garcia, C.M.P. Yoshida and R.A. de Carvalho</i>	110472	Formulation and physico-chemical and sensory characterisation of chocolate made from reconstituted cocoa liquor and high cocoa content <i>M. Puchol-Miquel, C. Palomares, J.M. Barat and É. Perez-Esteve</i>	110492
Microencapsulation of red cabbage anthocyanin-rich extract by drum drying technique <i>K. Sakulnarmrat, D. Wongsrikaew and I. Konczak</i>	110473	Apoptosis-induction effect of ϵ-poly-lysine against <i>Staphylococcus aureus</i> and its application on pasteurized milk <i>H.-Q. Ning, Y.-Q. Li, H. Lin and J.-X. Wang</i>	110493
		Mass transfer and texture characteristics of fish skin during deep-fat frying, electrostatic frying, air frying and vacuum frying <i>M. Fang, G.-J. Huang and W.-C. Sung</i>	110494

- Effect of vacuum grinding and storage under oxygen free condition on antioxidant activity and bacterial communities of strawberry puree**
A.-N. Kim, W.S. Hu, K.-Y. Lee, O.-K. Koo, W.L. Kerr and S.G. Choi 110495
- Freeze-drying of *Enterococcus durans*: Effect on their probiotics and biopreservative properties**
M.L. Estilarte, E.E. Tymczyszyn, M.d.l.Á. Serradell and P. Carasi 110496
- The effect of simulated vibration frequency on the physico-mechanical and physicochemical properties of peach during transportation**
C. Dagdelen and M.S. Aday 110497
- Exploration of some potential bioactive essential oil components as green food preservative**
S. Das, V.K. Singh, A.K. Dwivedy, A.K. Chaudhari and N.K. Dubey 110498
- Effects of different emulsifier substitutes on artisanal ice cream quality**
E. Loffredi, M.E. Moriano, L. Masseroni and C. Alamprese 110499
- Clarification of the pomegranate juice in a bioreactor packed by pectinase enzymes immobilized on the glass bead activated with polyaldehyde polysaccharides**
S.S. Hosseini, F. Khodaiyan, S.M. Mousavi and S.Z. Azimi 110500
- An in-line optical technology to control the emulsification degree in a continuous industrial emulsifier for meat sausage production**
Z. González-Martínez, A. Zamora, M. Mor-Mur and M. Castillo 110562