Table of Contents i Industrial Application Briefs iii Editorial iv R: CONCISE REVIEWS/HYPOTHESES IN FOOD SCIENCE	Fusion Behavior: Quantification of the Liquid Fat Content by
Microbial Contamination in Sprouts: How Effective Is Seed Disinfection Treatment?—Hongliu Ding, Tong-Jen Fu, and Michelle A. Smith	Antioxidant Extraction from Mustard (Brassica juncea) Seed Meal Using High-Intensity Ultrasound—Jeremiah Dubie, Aaron Stancik, Matthew Morra, and Caleb Nindo
C: FOOD CHEMISTRY	Effect of Lipid Physical State of Palm Derivatives on β-Carotene Bleaching—Sonia Calligaris, Lara Manzocco, Sara Da Pieve, Gianmichele Arrighetti, and Maria Cristina Nicoli E549
Enzymatic Properties of \(\beta - 1, 3 - Glucanase from \) Streptomyces sp Mo.—Masahiro Kurakake, Yuuki Yamanouchi, Kouta Kinohara, and Shingo Moriyama	M: FOOD MICROBIOLOGY AND SAFETY
Accelerated Aging against Conventional Storage: Effects on the Volatile Composition of Chardonnay White Wines—María Jesús Cejudo-Bastante, Isidro Hermosín-Gutiérrez, and María Soledad Pérez-Coello	Antimicrobial Effects of Allyl Isothiocyanate and Modified Atmosphere on <i>Pseduomonas Aeruginosa</i> in Fresh Catfish Fillet under Abuse Temperatures—Yu-Hsin Pang, Shiowshuh Sheen, Siyuan Zhou, Linshu Liu, and Kit L. Yam
Effect of In Vitro Digestion on Free α-Dicarbonyl Compounds in Balsamic Vinegars—Adele Papetti, Dora Mascherpa, Giorgio Marrubini, and Gabriella Gazzani	Antimicrobial Activity and Hydrophobicity of Edible Whey Protein Isolate Films Formulated with Nisin and/or Glucose Oxidase—María M. Murillo-Martínez, Salvador R. Tello-Solís, Miguel A. García-Sánchez, and Edith Ponce-Alquicira
E: FOOD ENGINEERING AND PHYSICAL PROPERTIES	Effect of Immobilization and Salt Concentration on the
Properties and Water Sorption Characteristics of Spaghetti Prepared Using Various Dies—Masashi Yoshino, Takenobu Ogawa, and Shuji Adachi	Growth Dynamics of Escherichia coli K12 and Salmonella Typhimurium—Kathleen Boons, Eva Van Derlinden, Laurence Mertens, Vicky Peeters, and Jan F. Van Impe
Development and Characterization of an Edible Composite Film Based on Chitosan and Virgin Coconut Oil with Improved Moisture Sorption Properties—P.K. Binsi, C.N. Ravishankar, and T.K. Srinivasa Gopal	Characterization of Soybean Protein Hydrolysates able to Promote the Proliferation of Streptococcus Thermophilus ST—Zhao Hongfei, Bai Fengling, Zhou Fang, Piotr Walczak, Jiang Xiangning, and Zhang Bolin

April online and print cover: Cross-section segments of spaghetti prepared using the dies made of Teflon, polycarbonate, aluminum, and bronze (magnification 100X), in "Properties and Water Sorption Characteristics of Spaghetti Prepared Using Various Dies" by Masashi Yoshino, Takenobu Ogawa, and Shuji Adachi; p E523.

Table of Contents continued on next page

Observation of Injured E. coli Population Resulting from the Application of High-Pressure Throttling Treatments—Silvia De Lamo-Castellví, Romeo Toledo, and Joseph F. Frank	Effect of Cover Brine Type on the Quality of Meat from Herring Marinades—Mariusz Szymczak, Barbara Szymczak, Anna Koronkiewicz, Katarzyna Felisiak, and Mateusz Bednarek
Safety Assessment and Probiotic Evaluation of Enterococcus Faecium YF5 Isolated from Sourdough—Qianglai Tan, Hengyi Xu, Zoraida P. Aguilar, Shanshan Peng, Suqin Dong, Baogui Wang, Ping Li, Tingtao Chen, Feng Xu, and Hua Wei	N: NANOSCALE FOOD SCIENCE, ENGINEERING, AND TECHNOLOGY
Prevalence, Antimicrobial Resistance, and Virulence Characteristics of mecA-Encoding Coagulase-Negative Staphylococci Isolated from Soft Cheese in Brazil—Cláudia Oliveira Fontes, Vânia Lúcia Silva, Mayara Rodrigues Brandão de Paiva, Rafaela Alvim Garcia, Juliana Alves Resende, Alessandra Barbosa Ferreira-Machado, and Cláudio Galuppo Diniz	Antimicrobial Efficacy of Poly (DL-lactide-co-glycolide) (PLGA) Nanoparticles with Entrapped Cinnamon Bark Extract against Listeria monocytogenes and Salmonella typhimurium—Laura E. Hill, T. Matthew Taylor, and Carmen Gomes
CNA al CNA alla CI antia Antid Degrania	H: HEALTH, NUTRITION, AND FOOD
Comparison of Mathematical Models of Lactic Acid Bacteria Growth in Vacuum-Packaged Raw Beef Stored at Different Temperatures—M. Y. Li, X. M. Sun, G. M. Zhao, X. Q. Huang, J. W. Zhang, W. Tian, and Q. H. Zhang	Evaluating and Predicting the Oxidative Stability of Vegetable Oils with Different Fatty Acid Compositions—Hongyan Li, Ya-wei Fan, Jing Li, Liang Tang, Jiang-ning Hu, and Ze-yuan Deng
S: SENSORY AND FOOD QUALITY	
Determining the Primary Drivers of Liking to Predict Consumers' Acceptance of Fresh Nectarines and Peaches—Claudia Delgado, Gayle M. Crisosto, Hildegarde Heymann, and Carlos H. Crisosto	T: TOXICOLOGY AND CHEMICAL FOOD SAFETY
	All India Survey for Analyses of Colors in Sweets and Savories: Exposure Risk in Indian Population—Sumita Dixit, Subhash K. Khanna, and Mukul Das
Effect of Psychrotrophic Growth on the Milk Fat Fraction at Different Temperatures of Storage—Thiago Braga Izidoro, Juliano Gonçalves Pereira, Vanessa Mendonça Soares, and José Paes de Almeida Nogueira Pinto	Safety Evaluation of Excessive Ingestion of Mozuku Fucoidan in Human—Sunao Abe, Kimiko Hiramatsu, Osamu Ichikawa, Hitoshi Kawamoto, Takeshi Kasagi, Yasunari Miki, Takayuki Kimura, and Tadasu Ikeda
ı	

Table of Contents i Industrial Application Briefs iii Editorial v	Profile of Grey Triggerfish (Balistes capriscus) Captured Along
C: FOOD CHEMISTRY	I con the state of
Profiling the Ginsenosides of Three Ginseng Products by Lc-Q-T of/Ms—Chu Chu, Shaojing Xu, Xingnuo Li, Jizhong Yan, and Li Liu	Impact of Processing Parameters on the Phenolic Profile of Wines Produced from Hybrid Red Grapes Maréchal Foch, Corot noir, and Marquette—David C. Manns, Céline T.M. Coquard Lenerz, and Anna Katharine Mansfield
Effect of Sequestering Intrinsic Iron on the Electron Paramagnetic Resonance Signals in Powdered Soy Proteins—William L. Boatright and M. Shah Jahan	Phenolics, Aroma Profile, and In Vitro Antioxidant Activity of Italian Dessert Passito Wine from Saracena (Italy)—Monica R. Loizzo, Marco Bonesi, Giuseppe Di Lecce, Emanuele Boselli, Rosa Tundis, Alessandro Pugliese, Francesco Menichini,
Comparison between Supercritical CO ₂ Extraction and Hydrodistillation for Two Species of Eucalyptus: Yield, Chemical Composition, and Antioxidant Activity—Najia	and Natale Giuseppe Frega
Herzi, Jalloul Bouajila, Séverine Camy, Sylvie Cazaux,	E: FOOD ENGINEERING AND PHYSICAL PROPERTIES
Mehrez Romdhane, and Jean Stéphane Condoret	Microencapsulation of Essential Oil for Insect Repellent in Food Packaging System—Seong Kyun Chung, Ji Yeon Seo, Jung Hoon Lim, Hyung Hwan Park, Myeong Jai Yea, and Hyun Jin Park
Antioxidant Activity of Various Solvent Fractions from Edible	M: FOOD MICROBIOLOGY AND SAFETY
Brown Alga, Eisenia bicyclis and Its Active Compounds—Tae-Hyung Kwon, Tae-Wan Kim, Choong-Gon Kim, and Nyun-Ho Park	Antimicrobial Effect of Sour Pomegranate Sauce on Escherichia coli O157: H7 and Staphylococcus aureus—Duygu Kışla and Şeniz Karabıyıklı
Green Tea Formulations with Vitamin C and Xylitol on Enhanced Intestinal Transport of Green Tea Catechins—Jae-Hwan Chung, Sol Kim, Sang-Jun Lee, Jin-Oh Chung, Yu-Jin Oh, and Soon-Mi Shim	Efficacies of Garlic and L. sakei in Wine-Based Marinades for Controlling Listeria monocytogenes and Salmonella spp. in Chouriça de Vinho, a Dry Sausage Made from Wine-Marinated Pork—María Belén Linares, María Dolores Garrido, Conceição Martins, and Luis Patarata

May Online Cover: SEM image of thyme oil microcapsules, showing rough microcapsule surface due to this emulsifer's weak hydrophobic properties at the emulsification process temperature. Other emulsifiers were tested, with greater success. From "Microencapsulation of Essential Oil for Insect Repellent in Food Packaging System" by Seong Kyun Chung, Ji Yeon Seo, Jung Hoon Lim, Hyung Hwan Park, Myeong Jai Yea, and Hyun Jin Park; p E711.

Antimicrobial Effects of Vapor Phase Thymol, Modified	S: SENSORY AND FOOD QUALITY
Atmosphere, and Their Combination against Salmonella spp. on Raw Shrimp—Siyuan Zhou, Shiowshuh Sheen, Yu-Hsin Pang, LinShu Liu, and Kit L. Yam	The Usefulness of Intermediate Products of Plum Processing for Alcoholic Fermentation and Chemical Composition of the
Antifungal Effect of Allium tuberosum, Cinnamomum cassia, and Pogostemon cablin Essential Oils and Their Components Against Population of Aspergillus Species—Dragana Kocevski,	Obtained Distillates—Maria Balcerek, Katarzyna Pielech-Przybylska, Piotr Patelski, Ewelina Sapińska, and Mirosława Księżopolska
Muying Du, Jianquan Kan, Chengjun Jing, Ines Lačanin, and Hrvoje PavlovićM731	Inulin and Erythritol As Sucrose Replacers in Short-dough Cookies: Sensory, Fracture, and Acoustic Properties—Laura
Determination of Enterotoxigenic and Methicillin Resistant Staphylococcus aureus in Ice Cream—Ali Gücükoğlu, Özgür Çadirci, Göknur Terzi, T. Onur Kevenk,	Laguna, Cristina Primo-Martín, Ana Salvador, and Teresa Sanz
and Mustafa Alişarli	H: HEALTH, NUTRITION, AND FOOD
Selection of Yeasts as Starter Cultures for Table Olives—Antonio Bevilacqua, Luciano Beneduce, Milena Sinigaglia, and Maria Rosaria Corbo	Coenzyme Q10 Regulates Osteoclast and Osteoblast Differentiation—Ho-Jin Moon, Wan-Kyu Ko, Min-Seo Jung, Jung Ho Kim, Won-Jun Lee, Kyoung-Sun Park,
Improvement of Karmali Agar by Addition of Polymyxin B for the Detection of Campylobacter jejuni and C. coli in Whale Chicken Carcass Prince—Juna Whan Chon	Ja-Kyung Heo, Jae Beum Bang, and Il Keun KwonH785
Whole-Chicken Carcass Rinse—Jung-Whan Chon, Hyunsook Kim, Jin-Hyeok Yim, Kwang-Young Song,	T: TOXICOLOGY AND CHEMICAL FOOD SAFETY
Jin-San Moon, Young-Jo Kim, and Kun-Ho Seo	An Applicable Strategy for Improvement Recovery in
Performance in Nondairy Drinks of Probiotic L. casei Strains	Simultaneous Analysis of 20 Pesticides Residue in
Usually Employed in Dairy Products—Mario Céspedes,	Tea—Shahram Shoeibi, Maryam Amirahmadi, Hossein Rastegar,
Pamela Cárdenas, Martín Staffolani, María C. Ciappini, and Gabriel Vinderola	Roya Khosrokhavar, and Amin Mousavi KhaneghahT792
	Potential of Sawdust as a Green and Economical Sorbent for
Microbial Succession and Metabolite Changes during	Simultaneous Preconcentration of Trace Amounts of
Long-Term Storage of Kimchi—Sang Hyeon Jeong,	Cadmium, Cobalt, and Lead from Water, Biological,
Se Hee Lee, Ji Young Jung, Eun Jin Choi,	Food, and Herbal Samples—Mostafa Hossein Baki,
and Che Ok JeonM763	Farzaneh Shemirani, and Rouhollah KhaniT797

	Layer by Layer Assembly of a Biocatalytic Packaging Film: Lactase covalently Bound to Low-Density Polyethylene—Dana E. Wong, Joey N. Talbert, and Julie M. Goddard E853
C: FOOD CHEMISTRY	Characterization of Extruded and Toasted Milk Protein Concentrates—J.C. Banach, S. Clark,
Effect of Gelatin Addition on Properties of Pullulan Films—Chao Zhang, Dandan Gao, Yue Ma, and Xiaoyan Zhao	M: FOOD MICROBIOLOGY AND SAFETY
Effects of Locust Bean Gum and Mono- and Diglyceride Concentrations on Particle Size and Melting Rates of Ice Cream—S.L. Cropper, N.A. Kocaoglu-Vurma, B.W. Tharp, and W.J. Harper	Control of Postharvest Blue Mold of Nanfeng Mandarin by Application of Strain YS-1 Paenibacillus brasilensis—Qihong Tu, Jinyin Chen, and Juanhua Guo
Quality Change of Apple Slices Coated with Aloe vera Gel during Storage—Hye-Yeon Song, Wan-Shin Jo, Nak-Bum Song, Sea C. Min, and Kyung Bin Song	Sweet Wine Production by Two Osmotolerant Saccharomyces cerevisiae Strains—Teresa García-Martínez, Nieves López de Lerma, Juan Moreno, Rafael A. Peinado, M. Carmen Millán, and Juan C. Mauricio
Protein Oxidation at Different Salt Concentrations Affects the Cross-Linking and Gelation of Pork Myofibrillar Protein Catalyzed by Microbial Transglutaminase—Chunqiang Li, Youling L. Xiong, and Jie Chen	Biofilm Formation of O157 and Non-O157 Shiga Toxin-Producing <i>Escherichia coli</i> and Multidrug-Resistant and Susceptible <i>Salmonella</i> Typhimurium and Newport and Their
Formation of Heterocyclic Amines in Salami and Ham Pizza Toppings During Baking of Frozen Pizza—Monika Gibis and Jochen Weiss	Inactivation by Sanitizers—Aliyar Fouladkhalı, Ifigenia Geornaras, and John N. Sofos
δ ¹⁸ O of Ethanol in Wine and Spirits for Authentication Purposes—Matteo Perini and Federica Camin	S: SENSORY AND FOOD QUALITY
E: FOOD ENGINEERING AND PHYSICAL PROPERTIES	Descriptive Analysis of Flavor Characteristics for Black Walnut Cultivars—Ashley E. Miller and Delores H. Chambers
Development of Novel Methods to Determine Crystalline Glucose Content of Honey Based on DSC, HPLC, and Viscosity Measurements, and Their Use to Examine the Setting Propensity of Honey—Nasser A. Al-Habsi, Fred J. Davis, and Keshavan Niranjan	Quantitative and Qualitative Variation of Fat in Model Vanilla Custard Desserts: Effects on Sensory Properties and Consumer Acceptance—Maja Tomaschunas, Ehrhard Köhn, Petra Bennwitz, Jörg Hinrichs, and Mechthild Busch-Stockfisch
June Online Cover: Example of ham pizza used for chemical and sensory testing, which showed that baking time and cupping of meat toppings can affect concentrations of heterocyclic amines. From "Formation of Heterocyclic Amines in Salami and Ham Pizza Toppings during Baking of Frozen Pizza" by Monika Gibis and Jochen Weiss; p C832.	

Quality Assessment of Commercially Processed Carbon Monoxide-Treated Tilapia Fillets—Lori F. Pivarnik,	H: HEALTH, NUTRITION, AND FOOD
Cameron Faustman, Surendranath P. Suman, Catherine Palmer, Nicole L. Richard, P. Christopher Ellis, and Michael DiLiberti	Garlic Oil Suppressed the Hematological Disorders Induced by Chemotherapy and Radiotherapy in Tumor-Bearing Mice—Tao Zeng, Yang Li, Cui-Li Zhang, Li-Hua Yu, Zhen-Ping
Preference Mapping of Frozen and Fresh Raspberries— R.R. Villamor, C.H. Daniels, P.P. Moore, and C.F. Ross	Zhu, Xiu-Lan Zhao, and Ke-Qin Xie
N: NANOSCALE FOOD SCIENCE, ENGINEERING, AND TECHNOLOGY	T: TOXICOLOGY AND CHEMICAL FOOD SAFETY
Fabrication, Gastromucoadhesivity, Swelling, and Degradation of Zein-Chitosan Composite Ultrafine Fibers—Saowakon Wongsasulak, Natthon Puttipaiboon, and Tipaporn Yoovidhya	Determination of Xylazine and 2,6-Xylidine in Animal Tissues by Liquid Chromatography—Tandem Mass Spectrometry—Xiaochun Zheng, Xiaoxia Mi, Sicong Li, and Gang Chen