

IUFoST WORLD FOOD CONGRESS 2026: HONG KONG
POSTER PRESENTATION SESSIONS

POSTER PRESENTATIONS

Theme : FOOD PROCESS AND ENGINEERING

Date 26.10.2026

Time : 0830 - 1600 hrs

Venue : Hall 5

(Please note : Installation: 17:00-1800hrs (5:00 p.m.–6:00 p.m.) on 25 Oct 2026

Removal: 16:00-17:00hrs (4.00pm-5.00pm) on 26 Oct 2026)

Advanced Food Preservation and Processing Technologies

1. **#7 EFFECTS OF PROCESS CONDITIONS ON THE PHYSICOCHEMICAL AND SENSORY PROPERTIES OF AN HEIRLOOM RICE (ORYZA SATIVA L.) SOYBEAN (GLYCINE MAX) BLEND BEVERAGE**

Abbie Padrones * , Maricar Albao, Gyle Tampil, Jordan Vincent Tiama, Junimer Lala

Food and Nutrition Research Institute-Department of Science and Technology, Bicutan, Taguig City, Metro Manila, Philippines

2. **#49 HIGH HUMIDITY THERMAL STRESS FOR STORABILITY ENHANCEMENT OF SWEETPOTATO**

Yong Hoon Kim * , Bal Geum Kim, Chun Wan Park

Department of Agricultural Engineering, National institute of Agricultural sciences

3. **#56 EVALUATION OF TERMINALIA ARJUNA LEAF MUCILAGE AS A NATURAL GELATIN SUBSTITUTE IN SET YOGURT FORMULATION**

Hasitha Senarathna, Thilini Kananke *

Department of Food Science and Technology, Faculty of Applied Sciences, Sabaragamuwa University of Sri Lanka, Belihuloya, Sri Lanka

4. **#82 SYNERGISTIC EFFECTS OF PULSED LIGHT TREATMENT IN CONTROLLING AFLATOXIN B1 CONTAMINATION IN RICE**

Gaurav Meena * , JATINDRA K SAHU INDIAN INSTITUTE OF TECHNOLOGY DELHI, CENTRE FOR RURAL DEVELOPMENT AND TECHNOLOGY, NEW DELHI , INDIA

5. **#150 MICROBIAL SAFETY OF ULTRA-SHEAR TECHNOLOGY FOR LIQUID FOOD PROCESSING**

Hetian Hu * , V. M. Balasubramaniam

University of Georgia, Department of Food Science and Technology, Griffin GA, USA

6. **#187 EFFECT OF TECHNOLOGICAL PROCESSES ON OROTIC ACID CONTENT IN MILK AND DAIRY PRODUCTS**

Tomasz Sawicki * ¹, Monika Jabłońska¹, Marika Bielecka², Katarzyna Przybyłowicz¹

Department of Human Nutrition, Faculty of Food Sciences, University of Warmia and Mazury in Olsztyn, Poland ² Department of Dairy Science and Quality Management, Faculty of Food Science, University of Warmia and Mazury in Olsztyn, Poland

7. **#198 CHALLENGES IN ISOCHORIC FREEZING: EXPERIMENTAL INSIGHTS INTO THE ICE FORMATION MECHANISMS AND APPLICATION TO SEAFOOD PRESERVATION**
Yijun Yang *¹, Nicholas P.L. Tuckey², Sravani Gupta³, Siew-Young Quek⁴, Meng Wai Woo¹
Department of Chemical & Materials Engineering, Faculty of Engineering, The University of Auckland, Auckland, New Zealand ² *New Zealand Institute for Bioeconomy Science Limited, Nelson, New Zealand* ³ *New Zealand Institute for Bioeconomy Science Limited, Auckland, New Zealand* ⁴ *Food Science Programme, School of Chemistry, Faculty of Science, The University of Auckland, Auckland, New Zealand*
8. **#199 MECHANISMS UNDERLYING THE ENHANCED PHYSICAL STABILITY OF ALMOND MILK BY PROTEIN-GLUTAMINASE**
Toya Ishii *¹, Yasuki Matsumura², Kiyota Sakai³, Keita Okuda³, Shotaro Yamaguchi³
Faculty of Agriculture, Kagawa University, Kagawa, Japan ² *Research Institute for Sustainable Humanosphere, Kyoto University, Kyoto, Japan* ³ *Innovation Center, Amano Enzyme Inc., Gifu, Japan*
9. **#220 CELL WALL REMODELING AND SOFTENING SUPPRESSION IN FROZEN BROCCOLI VIA POSTHARVEST WATER CURING**
Chotika VIRIYARATTANASAK *¹, Tomoko Hashimoto², Yuji Takemura¹, Yu Horiuchi¹
Central Research Laboratory, Tokyo Innovation Center, Nissui Corporation, Nanakuni, Hachioji, Tokyo 192-0991, Japan ² *Food Safety Research*
Department, Tokyo Innovation Center, Nissui Corporation, Nanakuni, Hachioji, Tokyo 192-0991, Japan
10. **#258 ATMOSPHERIC COLD PLASMA PRETREATMENT ENHANCES PLANT-BASED PROTEIN PRODUCTION FROM PEANUT MEAL THROUGH IMPROVED EXTRACTION, FUNCTIONALITY, AND REDUCED ALLERGENICITY**
Kuan-Chen Hsieh * , Yuwen Ting
Institute of Food science and Technology, National Taiwan University
11. **#274 POST-HARVEST PROCESSING UNDER EXTREME CONSTRAINTS: REQUIREMENTS AND CONCEPTUAL DESIGN FOR CEREAL-BASED FOOD PRODUCTION IN CLOSED HABITATS**
Cecilia Ricci *
Department of Mechanical and Aerospace Engineering, Politecnico di Torino, Turin, Italy
12. **#296 PHYSICOCHEMICAL CHARACTERIZATION OF A LOW-ABSORPTION STRUCTURED LIPID OBTAINED BY INTERESTERIFICATION FOR APPLICATION IN BISCUIT FILLINGS**
Valdecir Luccas *¹, Carla Lea de Camargo Vianna¹, Gabriela Alves Macedo², Vanessa Alves², Lara Lima Cornejo¹
Food Technology
Institute – Ital, Cereal and Chocolate Technology Center – Cereal Chocotec ² *State University of Campinas – UNICAMP, School of Food Engineering – FEA*
13. **#309 OPTIMIZATION AND CHARACTERIZATION OF READY-TO-COOK RICE-SHAPED KERNELS MADE FROM WHITE CORN GRITS**
Charlie Adona, Jayson Tagaroma, Francesca Louise Garcia * , Herlyn Villamento

Food and Nutrition Research Institute, Department of Science and Technology, Taguig City, Philippines

14. #325 IMPACT OF ADDITIVE INCORPORATION ON THE FRYING PERFORMANCE AND STABILITY OF PALM OLEIN

Yih Phing Khor * , Huey Fang Teh, Nur Azwani Ab Karim, Norliza Saporin
Downstream Research, SD Guthrie Technology Centre, Ground Floor,
Block A, UPM-MTDC III Technology Centre, Lebu Silikon, 43400
Serdang, Selangor, Malaysia.

15. #344 STEAM AGGLOMERATION OF BEAN PROTEIN FLOUR ENRICHED WITH FREEZE-DRIED MANGO POWDER

Kaciane Andreola¹, Edson Ribeiro Junior¹, Fernanda Vissotto², Mitie Sadahira³, Maria Teresa Bertoldo-Pacheco * ^{1 1} Food Technology

Institute, Food Science and Quality Center, São Paulo, Brazil ² Food Technology Institute, Cereal and Chocolate Technology Center, São Paulo, Brazil ³ Food Technology Institute, Fruit and Vegetable Technology Center, São Paulo, Brazil

16. #345 EXTRUSION PROCESSING OF DIRECT-EXPANDED SNACKS FROM PROTEIN RICH BEAN STARCH ENRICHED WITH DRUM-DRIED MANGO PULP

Edson Ribeiro Junior¹, Kaciane Andreola¹, Bruno Costa², Roseli Aparecida Ferrari¹, Maria Teresa Bertoldo-Pacheco * ^{1 1} Food Technology

Institute, Food Science and Quality Center, São Paulo, Brazil ² Food Technology Institute, Fruit and Vegetable Technology Center, São Paulo, Brazil

17. #357 DATA-DRIVEN DOUGH MATURATION CONTROL, FOR TRADITIONAL FRIED SNACKS UNDER WHEAT FLOUR VARIABILITY: A CASE STUDY AT SAEHAN GRAIN

Hyorim Seo * ¹, Minju Son², Chunggil Lee³, Junkyu Park³, Sanghyun Lee²

Department of Smart Food and Drug, Inje University, Korea ² Department of Food technology and Nutrition, Inje University, Korea ³ Saehangrain Co., Ltd.

18. #366 IMPROVED STORAGE STABILITY AND LONG-TERM VIABILITY OF LEUCONOSTOC MESENTEROIDES VIA STARCH-BASED W1/O/W2 DOUBLE EMULSIONS

Ye won Kim * ¹, Sung Hee Park², Yun-Jeong Choi², Mi-Jung Choi³, Mi-Ai Lee^{2 1} Sustainable Distribution Research Group World

Institute of Kimchi, Gwangju, South Korea, Department of Food Science and Biotechnology of Animal Resources, Konkuk University, Seoul, South Korea ² Sustainable Distribution Research Group World Institute of Kimchi, Gwangju, South Korea ³ Major of Food Engineering, School of Animal & Food Sciences and Marketing, Konkuk University, Seoul, South Korea

19. #401 COMPARATIVE CHARACTERISATION OF ULTRASOUND-EXTRACTED PROTEINS FROM RED SEAWEED AND SUNFLOWER MEAL

Yuchen Ban * ¹, Gaoya Dong¹, Da-Wen Sun², Brijesh Tiwari^{1 1}

Department of Food Chemistry and Technology, Teagasc Food Research Centre, Ashdown, Dublin, Ireland ² Food Refrigeration and Computerized Food Technology (FRCFT), Agriculture and Food Science Centre, University College Dublin, National University of Ireland, Belfield, Dublin ⁴, Ireland

20. #448 PRESERVING FRESH EGGS VIA A RECYCLABLE AND IMPACT-RESISTANT GELATIN HYDROGEL

Xin Wang * , Shahriar Islam, Shuxiang Liu Sichuan Agricultural
University

- 21. #517 ENGINEERING OLEIC ACID-LOADED SPRAY-DRIED POWDERS: EFFECTS OF PROTEIN SOURCE, DENATURATION, AND SURFACTANT TYPE ON MICROSTRUCTURE AND REHYDRATION STABILITY**

Heeyeon Choi * , Han-Gyeol Gwon, Yeon-Ji Jo

Department of Food Processing and Distribution, Kangwon National University, Korea

- 22. #531 TAILORING THE STRUCTURE AND FOOD FUNCTIONALITY OF MICROALGAE AUXENOCHLORELLA PROTOTHECOIDES PROTEIN BY SUPERCRITICAL CARBON DIOXIDE AND SUBCRITICAL WATER TREATMENT**

Dingsong Lin * ¹, Jingyuan Wang¹, Jiewen Fu¹, Sreenivasa Reddy Puniredd², Dejian Huang^{1 1}

*Department of Food Science and Technology, National University of Singapore ²
Singapore Institute of Food and Biotechnology Innovation (SIFBI), Agency for Science, Technology and Research (A*STAR)*

- 23. #564 THERMAL PROCESSING OF READY-TO-EAT CHOCOLATE RICE PORRIDGE: ADVANCING SHELF STABILITY, SAFETY, AND SENSORY EVALUATION**

Donnalyn Imbas * ¹, Maria Christina Ramos², Jadess Lorraine Vista², Mark Winston Ladrillo², Anthony Sales^{1 1}

Department of Science and Technology Davao Region, corner Dumanlas and Friendship Roads, Bajada, Davao City, Davao del Sur, 8000, Philippines; Food Processing Innovation Center-Davao, Philippine Women's College of Davao, University Avenue, Matina, Davao C ² Food Processing Innovation Center-Davao, Philippine Women's College of Davao, University Avenue, Matina, Davao City, Davao del Sur, 8000, Philippines

- 24. #583 EFFECT OF 4-A-GLUCANOTRANSFERASE ADDITION ON THE STORAGE STABILITY OF RICE FLOUR BREAD**

Chihiro Tagami * ¹, Nakako Katsuno^{2 1} Gifu

University, Graduate School of Natural Science and Technology, Gifu, Japan ² Gifu University, Faculty of Applied Biological Sciences, Gifu, Japan

- 25. #584 CHANGES IN LIGNAN CONTENT DURING THE PROCESSING OF SESAME PRODUCTS**

Miku Terazawa * ¹, Makoto Fujimura², Nakako Katsuno^{3 1} Gifu

University, Graduate School of Natural Science and Technology, Gifu , Japan ² SHINSEI Co., Ltd., Kita-Nagoya, Japan ³ Gifu University, Faculty of Applied Biological Sciences, Gifu, Japan

- 26. #600 ADVANCED ULTRASOUND PROCESSING FOR SUSTAINABLE INSECT PROTEIN ISOLATION: YIELD, FUNCTIONALITY, AND BIOACTIVITY**

Lamia L'Hocine * , Allaoua Achouri, Delphine Martineau-Côté, Mélanie Pitre, Stéphane Sirois

Agriculture and Agri-Food Canada, Saint-Hyacinthe Research and Development Centre, Saint-Hyacinthe, QC, Canada

27. #608 OPTICAL PROPERTIES OF CARBON QUANTUM DOTS SYNTHESIZED FROM COMMON BUCKWHEAT HULLS USING HYDROTHERMAL AND MICROWAVE-ASSISTED METHODS

Jimin Kim * , Seong-Ae Lee, Jaecheol Kim

Department of Food and Nutrition, Sungshin Women's University, Seoul, Republic of Korea

28. #609 OPTIMIZATION OF HYDROTHERMAL SYNTHESIS CONDITIONS FOR MAXIMIZING THE QUANTUM YIELD OF CARBON QUANTUM DOTS DERIVED FROM COMMON BUCKWHEAT HULLS USING RESPONSE SURFACE METHODOLOGY

Seong-Ae Lee * , Jimin Kim, Jaecheol Kim

Department of Food and Nutrition, Sungshin Women's University, Seoul, Republic of Korea

29. #610 OPTIMIZATION OF MICROWAVE-ASSISTED PROCESSING CONDITIONS AFFECTING SULFORAPHANE CONTENT IN BROCCOLI SPROUTS USING RESPONSE SURFACE METHODOLOGY AND AN ARTIFICIAL NEURAL NETWORK COUPLED WITH A GENETIC ALGORITHM

Minjung Park * , Jaecheol Kim

Department of Food and Nutrition, Sungshin Women's University, Seoul, Republic of Korea

30. #611 DUAL MODELING FOR OPTIMIZATION OF COROSOLIC ACID EXTRACTION CONDITIONS FROM LAGERSTROEMIA SPECIOSA LEAVES USING RESPONSE SURFACE METHODOLOGY AND AN ARTIFICIAL NEURAL NETWORK COUPLED WITH A GENETIC ALGORITHM

Seoyeon Yu * , Jaecheol Kim

Department of Food and Nutrition, Sungshin Women's University, Seoul, Republic of Korea

31. #640 REAL-TIME REPLENISHING EMBEDDING SYSTEM FOR STRUCTURAL REPLICATION OF SEVEN-BAND GROUPER VIA 3D FOOD PRINTING

Su Hyun Lee * ¹, Jiyoung Yu², Hyun Woo Kim^{1 1} Korea

University ² Jeonju University

32. #655 EFFECT OF ANTICAKING AGENT ADDITION ON THE PHYSICO-CHEMICAL AND FUNCTIONAL PROPERTIES OF PARTIALLY SUBSTITUTED SPRAY DRIED SALT

Vidushi Kapoor * ¹, Raja Vijayakumar², Mahalakshmi Lakshmanan², Mahsa Majzoobi³, Benu Adhikari³, Anandharamakrishnan Chinnaswamy⁴

Agro-Processing and Technology Division, CSIR-National Institute for Interdisciplinary Science and Technology (CSIR-NIIST), Thiruvananthapuram, 695019, Kerala, India, Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India, School ² Agro-Processing and Technology Division, CSIR-National Institute for Interdisciplinary Science and Technology (CSIR-NIIST), Thiruvananthapuram, 695019, Kerala, India ³ School of Science, STEM College, RMIT University, Bundoora, VIC 3083, Australia ⁴ Agro-Processing and Technology Division, CSIR-National

*Institute for Interdisciplinary Science and Technology (CSIR-NIIST),
Thiruvananthapuram, 695019, Kerala, India, Academy of Scientific and Innovative
Research (AcSIR), Ghaziabad, 201002, India*

33. #739 MILLING AS A PRE-TREATMENT STRATEGY FOR IMPROVING PROTEIN ENRICHMENT EFFICIENCY DURING DRY FRACTIONATION OF CHICKPEA

Prashant Kumar * , P. Srinivasa Rao Indian

Institute of Technology Kharagpur, India

34. #750 HORDEIN MICROBEADS DERIVED FROM BREWER'S SPENT GRAIN FOR CULTIVATED MEAT CULTURING

Xianjian Zeng * ¹, Linzhi Jing², Dejian Huang^{1 1}

Department of Food Science and Technology, National University of Singapore, ² Science Drive ², 117542, Singapore, Bezos Centre for Sustainable Protein, Faculty of Science, National University of Singapore, ² Science Drive ², 117542, Singapore, National U ² Department of Food Science and Technology, National University of Singapore, ² Science Drive ², 117542, Singapore, Bezos Centre for Sustainable Protein, Faculty of Science, National University of Singapore, ² Science Drive ², 117542, Singapore

35. #781 PRODUCTION AND NUTRITIONAL ASSESSMENT OF COCOA (THEOBROMA CACAO) POWDER BEVERAGE USING DATE PALM FRUIT (PHOENIX DACTYLIFERA) AS SWEETENER

IJEOMA PRINCEWILL-OGBONNA * , Ginika Akubuobi, Obinna Agwo

Department of Food Science and Technology, Michael Okpara University of Agriculture, Umudike, Umuahia, Abia State, Nigeria

36. #783 INFLUENCE OF ATMOSPHERIC PRESSURE PLASMA JET PROCESSING PARAMETERS ON TOTAL PLASMA-GENERATED REACTIVE OXYGEN SPECIES IN AQUEOUS PHASE AND ITS QUANTIFICATION USING IODINE AND STARCH

Josephine Shu Fen Phang * , Weibiao Zhou

Department of Food Science and Technology, National University of Singapore, ² Science Drive ², 117542, Singapore

37. #867 EFFECT OF BLEEDING METHODS ON MICROBIOLOGICAL QUALITY, TEXTURAL PROPERTY AND OXIDATIVE STABILITY OF REFRIGERATED ASIAN SEABASS SLICES

Balamanikandan Vijayakumar * ¹, Sootawat Benjakul¹, Kigen Takahashi²
¹ International Center of Excellence in Seafood Science and Innovation (ICE-SSI), Faculty of Agro-Industry, Prince of Songkla

University, Hat Yai, Songkhla 90110, Thailand ² Department of Food Science and Technology, Tokyo University of Marine Science and Technology, Konan ⁴⁻⁵⁻⁷, Minato-Ku, Tokyo, Japan

38. #875 SPRAY DRYING AND EVALUATION OF PHYSICO-CHEMICAL AND RECONSTITUTION PROPERTIES OF PINEAPPLE (ANANAS COMOSUS VAR. SMOOTH CAYENNE) JUICE POWDER

Wendell Lee * , Adeliza Dorado

University of the Philippines Los Banos (UPLB), Institute of Food Science and Technology (IFST)

39. #877 THE PROPERTIES OF PROTEIN HYDROLYSATE FROM NORTH PACIFIC KRILL (EUPHAUSIA PACIFICA) AS INFLUENCED BY MAILLARD REACTION

Thom Van Nguyen * ¹, Jie-Ting Geng¹, Thuy Thi Minh Le², Ha Thi Nhu Nguyen², Kazufumi Osako^{1 1}

Department of Food Science and Technology, Tokyo University of Marine Science and Technology, ^{4,5-7} Konan, Minato-ku, Tokyo, 108-8477, Japan ² Faculty of Seafood Science and Technology, College of Aquaculture and Fisheries, Can Tho University, ^{3/2} street, Ninh Kieu ward, Can Tho city, 94000, Viet Nam

40. #880 INTERNET OF THINGS (IOT) ULTRASOUND EXTRACTION OF PROTEINS FROM SUGAR BEET LEAVES

Anet Režek Jambrak * ¹, Anita Slavica¹, Mojca Čakić Semenčić¹, Josipa Dukić¹, Filip Jukić^{2 1} Faculty of Food Technology and Biotechnology,

University of Zagreb ² University of Zagreb, Faculty of Electrical Engineering and Computing, Zagreb, Croatia

41. #940 MICROWAVE-ASSISTED ENZYMATIC HYDROLYSIS PROCESSING MODULATED ALLERGENIC POTENTIAL AND FUNCTIONAL PROPERTIES OF COW MILK CASEIN

Tao Wang * ¹, Vijaya Raghavan², Jin Wang^{1 1}

Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing 210009, China ² Department of Bioresource Engineering, Faculty of Agricultural and Environmental Sciences, McGill University, 21111 Lakeshore Rd, Sainte-Anne-de-Bellevue, H⁹X³V⁹, QC, Canada

42. #959 CURRENT ASPECTS OF QUALITY AND SAFETY ASSURANCE IN RADIATION PROCESSING OF LOW-MOISTURE FOODS

VLADIMIR RUSAKOV * , ESAULOVA OLGA

Federal Scientific Center of Hygiene named after F.F Erisman of Rospotrebnadzor

43. #974 ULTRASONICATION-ASSISTED OSMOTIC MEMBRANE DISTILLATION OF ORANGE JUICE: FLUX BEHAVIOR AND ITS QUALITY EVALUATION

Yumnam Nandan * , Akula Deepchander, Sairam Sandeep, Nilesh Choudhary, KSMS Raghavarao Indian

Institute of Technology Tirupati

44. #979 ULTRASOUND-ASSISTED SALT EXTRACTION OF FUNCTIONAL PROTEINS FROM OILSEED PRESS CAKES FOR SUSTAINABLE FOOD INGREDIENT DEVELOPMENT

Savindi Wanninayake * , Joonas Koskinen, Marjo Pöysä, Samuel Perez-Vega

Department of Separation Science, LUT School of Engineering Sciences, Lappeenranta-Lahti University of Technology LUT, Kauppalankatu ¹³, FI-45100 Kouvola, Finland

45. #983 EFFECT OF ULTRASOUND PROCESSING ON GERMINATION, NUTRITIONAL QUALITY AND ENZYME ACTIVITY IN MUNG BEAN SPROUTS

Taniya M. Nanayakkara * , Marleny D. A. Saldaña

Department of Agricultural, Food and Nutritional Science, University of Alberta, Edmonton, AB, Canada

- 46. #985 DIELECTRIC BARRIER DISCHARGE COLD PLASMA-INDUCED STRUCTURAL MODIFICATION OF HAZELNUT PROTEINS TO REDUCE IMMUNOREACTIVITY AND ENHANCE DIGESTIBILITY AND FUNCTIONAL PROPERTIES**
Xin Wang * , Mukeshimana Camus-Ela, Jin Wang Key Laboratory of Environmental Medicine and Engineering, Ministry of Education, and
Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing, China
- 47. #987 APPLICATION OF DIELECTRIC BARRIER DISCHARGE PLASMA: A TECHNIQUE FOR REDUCING MICROORGANISMS, IMPROVING ANTIOXIDANT CAPACITY, AND INHIBITING SOFTENING OF WINTER JUJUBE**
Xinxue Zhang * , Jing Qian, Jin Wang Key Laboratory of Environmental Medicine and Engineering, Ministry of Education, and
Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing, China
- 48. #989 SEQUENTIAL APPLICATION OF COLD PLASMA IN CHICKEN BREAST: IMPROVEMENT OF MEAT TENDERNESS AND BACTERICIDAL MECHANISM AGAINST HISTAMINE-PRODUCING RAOULTELLA SP.**
Xinxue Zhang * , Jing Qian, Jin Wang Key Laboratory of Environmental Medicine and Engineering, Ministry of Education, and
Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing, China
- 49. #994 OPTIMIZATION OF MIXING RATIO FOR TEXTURED VEGETABLE PROTEIN USING SOYBEAN AND SESAME PROTEIN ISOLATES ENRICHED WITH METHIONINE AND ARGININE**
Junsu Park * ¹, Yeon Jae Jo², Yun Jo Jung¹, Ga On Park¹, Heon Sang Jeong^{1 1}
Department of Food Science and Biotechnology, Chungbuk National University ² Korea Testing & Research Institute
- 50. #996 EVALUATION OF UV ENERGY TRANSFER AND ENERGY EFFICIENCY IN FLOW-THROUGH SYSTEMS FOR LIQUID FOOD TREATMENT**
Ralf Greiner * , Jonas Colberg, Volker Gräf, Volker Gaukel, Mario Stahl
Innovation Centre for Food and Process Technologies, Max Rubner-Institut, Haid-und-Neu-Straße ⁹, 76131 Karlsruhe, Germany
- 51. #997 RESEARCH PROGRESS ON THE APPLICATION OF EMERGING FOOD TECHNOLOGIES IN THE FIELD OF FOOD ALLERGY**
JIN WANG * , XIN WANG, Qiaoyun Wei, Xinxue Zhang, Wenjing Chen
Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing, China
- 52. #998 ICE-BINDING PROTEINS FROM WHEATGRASS FOR THE APPLICATION IN YEAST DOUGH**
Ralf Greiner * , David Grijalva Garcés, Volker Gaukel

Innovation Centre for Food and Process Technologies, Max Rubner-Institut, Haid-und-Neu-Straße 9, 76131 Karlsruhe, Germany

53. #1005 CHARACTERIZATION OF THE PHYSICOCHEMICAL PROPERTIES OF THE CARRIER AGENT-OPTIMIZED MICROENCAPSULATED SAPINIT POWDER

Antonio Jr Palomeno * , Casiana Blanca Villarino

Department of Food Science and Nutrition, College of Home Economics, University of the Philippines Diliman, Quezon City 1101, Philippines

54. #1054 INTEGRATED SURVEILLANCE AND COLD PLASMA CONTROL OF MAIZE-BORNE FUNGI AND MYCOTOXINS

Qiaoyun Wei * ¹, Jianhao Zhang², Jin Wang¹ ¹

School of Public Health, Southeast University, Nanjing, China ² College of Food Science and Technology, Nanjing Agricultural University, Nanjing, China

55. #1085 COMPARATIVE EFFECTS OF ADVANCED MICROWAVE AND SOUS VIDE PROCESSING ON MEAT IN-VITRO PROTEIN DIGESTIBILITY: INSIGHTS FROM MOLECULAR STRUCTURE ANALYSIS AND PEPTIDOMICS

Mariero Gawat * ¹, Lovedeep Kaur², Jaspreet Singh², Mike Boland² ¹

Department of Science and Technology-Caraga; School of Food Technology and Natural Sciences, Massey University, Palmerston North; Riddet Institute, Palmerston North 4442, New Zealand ² School of Food Technology and Natural Sciences, Massey University, Palmerston North; Riddet Institute, Palmerston North 4442, New Zealand

56. #1087 OPTIMISING COLD PLASMA-ACTIVATED MEDIA FOR MICROBIAL CONTROL

Steffi Thomas * ¹, Sravani Gupta², Jonghyun Choi³, Graham C. Fletcher², Phil Bremer⁴ ¹

Department of Food Science, University of Otago, Dunedin and New Zealand's Institute of Bioeconomy of science, Auckland, New Zealand ² New Zealand's Institute of Bioeconomy of science, Auckland, New Zealand ³ New Zealand Institute for Bioeconomy Science, Hamilton, New Zealand ⁴ Department of Food Science, University of Otago, Dunedin, New Zealand

57. #1111 BIOPRESERVATIVE ACTIVITY OF EXOPOLYSACCHARIDES PRODUCED BY LACTIC ACID BACTERIA FROM INDIGENEOUS FERMENTED FOODS ON THE SHELF LIFE OF CHERRY TOMATOES

AFOLABI OLUWATOYIN REBECCA *

Department of Microbiology, College of Biosciences, Federal Univesity of Agriculture, Abeokuta, Nigeria.

58. #1123 EXTENDING THE SHELF LIFE OF UNCURED FRESH SAUSAGE USING HERBAL EXTRACTS AND COLD PLASMA

Wieslaw Kopec * ¹, Ewa Grzybowska¹, Anna Pudlo², Martyna Piesyk¹, Katarzyna Huras¹ ¹

Cedrob S.A. Poland ² Wrocław University of Environmental and Life Sciences, Poland

59. #1136 DEVELOPMENT OF A MICROWAVE-ASSISTED CONTINUOUS VIBRO-FLUIDIZED BED DRYING SYSTEM FOR HIGH-VALUE SPICES

**Ashish Bidkar * ¹, JK Sahu^{2 1} Food and Bioprocess Engineering Group,
Center for Rural Development and Technology, Indian**

Institute of Technology Delhi ² Indian Institute of Technology Delhi

- 60. #1156 CONSUMER ACCEPTANCE AND SAFETY OF 3DPRINTED
CONFECTIONERY: INSIGHTS INTO MICROBIAL RISKS AND
FUNCTIONAL–NUTRITIONAL QUALITY**

**Elohor O. Oisaemi * ¹, Taiwo Esther Adewole¹, Tonna Ashim Anyasi²,
Kelechi Ojini³, Oluwafemi Aina^{3 1} London Metropolitan**

*University, England, United Kingdom ² University of Greenwich, United Kingdom ³
Trinity University Yaba, Lagos, Nigeria*

- 61. #1173 COMPARATIVE ANALYSIS OF CLASSICAL VS. CELL
PELLETING INOCULATION ON PHYSICOCHEMICAL STABILITY
AND MICROBIAL GROWTH IN KUMQUAT FERMENTATION**

**Turkan UZLASIR * ¹, Pınar KADIROGLU², Gökay DİŞKEN², Hasim
KELEBEK^{2 1} Alanya**

University ² Adana Alparslan Türkeş Science and Technology University

- 62. #1270 COMPARISON OF TWO PRETREATMENT STRATEGIES FOR
MANNITOL FRACTIONATION FROM HIGH-ASH SEAWEED
EXTRACTS USING SEQUENTIAL ION-EXCHANGE PURIFICATION**

zhihang zhang * ¹, Eugenia Mazzara¹, Yueying Xie², Brijesh Tiwari^{1 1}

*Department of Food Chemistry & Technology, Teagasc Food Research Centre,
Ashtown, Dublin, Ireland ² University College Dublin*

- 63. #1288 APPLICATION OF ULTRASONIC-ASSISTED DEEP FRYING
AS AN ALTERNATIVE TO TRADITIONAL DEEP FRYING IN THE
PRODUCTION OF STRAW MUSHROOM (VOLVARIELLA
VOLVACEA) CHIPS**

Colleen Fuyoc * , Dennis Cantre

University of the Philippines Los Baños

- 64. #1298 ESTABLISHING A PROCESSING WINDOW FOR
HIGHIRRADIANCE 405NM LIGHT TREATMENT IN PAPRIKA
POWDER USING ENTEROCOCCUS FAECIUM AS A SALMONELLA
SURROGATE**

**Luis Sabillon * , Minor Minor, Sergio Martínez-Monteagudo New Mexico
State**

University

- 65. #1308 COMPARATIVE EVALUATION OF HYBRID DRYING
TECHNIQUES FOR ORANGE FLESHED SWEET POTATO: DRYING
KINETICS, QUALITY, THERMODYNAMIC ANALYSIS, AND
COMPUTATIONAL FLUID DYNAMICS**

**Khuthadzo Mugodo * ¹, Tilahun Seyoum Workneh¹, Naushad
Emmambux², Sunette Laurie^{3 1}**

University of KwaZulu-Natal ² University of Pretoria ³ Agricultural Research Council

- 66. #1310 HIGH-HYDROSTATIC PRESSURE FOR MICROBIAL
INACTIVATION AND SHELF-LIFE EXTENSION OF SOUS-VIDE
BARRAMUNDI MEATS**

Yung-Hsiang Tsai * , Hung-I Chien, Yi-Chen Lee

Department of Seafood Science, National Kaohsiung University of Science and Technology, Kaohsiung, Taiwan

67. #1311 ENHANCEMENT OF SHELF LIFE AND MICROBIAL SAFETY IN READY-TO-EAT SOY-SAUCE-MARINATED RAW CRAB THROUGH HIGH-PRESSURE PROCESSING

Yung-Hsiang Tsai, Hsin-Yu Yang *, Yi-Chen Lee

Department of Seafood Science, National Kaohsiung University of Science and Technology, Kaohsiung, Taiwan

68. #1327 EFFECTS OF ULTRASONIC-ASSISTED AND CONVENTIONAL SOAKING ON HYDRATION KINETICS, NUTRITIONAL QUALITY, METABOLOMIC PROFILE, AND DEVELOPMENT OF GLUTEN FREE MUFFINS FROM SOYBEAN FLOUR

Narpinder Singh *, Akanksha Negi, Deepika Kathuria Graphic Era Deemed to be

University

69. #1354 VIABILITY EVALUATION OF LYOPHILIZED PURE CULTURES OF ACETIC ACID BACTERIA PRODUCING PHILIPPINE NATA DE COCO

Manuel Viktor Madrid, Richard Navarro *

Institute of Food Science and Technology, University of the Philippines Los Banos

70. #1375 INNOVATION IN THE METHOD OF HIGH-EFFICIENCY AND LOW-DAMAGE PHYSICAL MUTAGENESIS OF ACTIVE BIOMATERIAL MICROBIAL STRAINS

Haile Ma * Jinangsu

University

71. #1380 ANTIMICROBIAL SCREENING OF NEPHROLEPIS EXALTATA EXTRACT AND ALGINATE FORMULATION FOR NATURAL FOOD PRESERVATION

Doruk Gunduz *, Nisanur Cirak

Goztepe Ihsan Kursunoglu High School

72. #1398 DEVELOPMENT OF INNOVATIVE PRODUCTS FOR THE PRODUCTION PROCESS OF FRUIT FILLINGS AND GELS

**Marijana Blazic *¹, Darko Glad², Darko Trkulja², Mario Bozic³, Ines Cindric¹
¹ Karlovac**

University of Applied Sciences, Karlovac, Croatia ² GLAZIR d.o.o., Oborovo, Croatia ³ PROCESTEH d.o.o., Zagreb, Croatia

73. #1400 APPLICATION OF GOLDEN CHLORELLA–STARCH INKS FOR 3D PRINTED DYSPHAGIA FOODS

Su Hyun Lee *, Aram Kim, Song Yi Koo

Natural Products System Biology Research Center, Korea Institute of Science and Technology

74. #1412 MICROWAVE ASSISTED EXTRACTION OF SESAME MEAL PROTEIN: INFLUENCE OF CONVENTIONAL AND GREEN

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Thamanna Yousaf * , Sajad Sofi, Sajid Maqsood

Department of Food Science, College of Agriculture and Veterinary Medicine, United Arab Emirates University, Al-Ain, 15551, United Arab Emirates

- 75. #1479 COMPARATIVE EFFECTS OF THERMAL AND NON-THERMAL PROCESSING ON THE QUALITY, ANTHOCYANINS, AND VOLATILE PROFILE OF BLACK MULBERRY JUICE**

Yakup Şirin¹, Arif Mermer * ², Perihan Gürkan^{1 1}

Sem-As Food Tourism Trade and Industry Co. LTD., R&D Center, Ankara, Türkiye

- 76. #1485 FUNCTIONAL NUTRITIONAL INTERVENTIONS DIFFERENTIALLY MODULATE ADIPOSE REMODELING AND METABOLIC HEALT**

HSiyng Tu * , Shan Xu, Xiaoyu Hao, Hui Xia, Liao Wang, Shaokang Wang, Guiju Sun

Key Laboratory of Environmental Medicine and Engineering of Ministry of Education, and Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing 210009, China

- 77. #1510 ALTERNATIVE PROTEIN SOURCE: OPTIMIZATION OF PIGEON PEA (CAJANUS CAJAN) PROTEIN EXTRACTION USING RESPONSE SURFACE METHODOLOGY**

Annabelle Flores, Stanly Adams Jocson * , Norli Aidasani, Maribeth Encarnacion

Department of Science and Technology - Industrial Technology Development Institute

- 78. #1512 EXTRACTION, CHARACTERIZATION, AND ANTIOXIDANT EVALUATION OF PROTEIN FROM CHENOPODIUM ALBUM L. LEAVES USING ULTRASOUND-ASSISTED TRI-PHASIC PARTITIONING TECHNIQUE**

Prakash Rai * , Chetan Prakash Yadav, Dr. Sunil Meena

Department Of Dairy Science And Food Technology , Institute Of Agricultural Science, Banaras Hindu University (Varanasi) , Uttar Pradesh , India

- 79. #1513 TITLE: ADVANCEMENTS IN FOOD PROCESSING AND TECHNOLOGY: ENSURING SAFETY, QUALITY, AND SUSTAINABILITY IN MODERN FOOD SYSTEMS**

Nouman Ali *

PMAS Arid Agriculture university Rawalpindi (Institute of food nutrition and science)

- 80. #831 INTEGRATED PRESSURIZED FLUID PROCESSING WITH ULTRASOUND FOR VALUE-ADDED PRODUCTS OF AGRI/FOOD BY-PRODUCTS**

Marleny D.A. Saldaña *

Department of Agricultural, Food and Nutritional Science, University of Alberta, Edmonton, AB, Canada

- 81. #1541 INNOVATING THE FUTURE OF FOOD SCIENCE**

Maryam Wazir *

PMAS-Arid Agriculture University Rawalpindi, Pakistan

Process Innovation and Delivery Systems

82. #145 ENHANCED STABILITY AND BIOACCESSIBILITY OF MINOR GINSENOSES VIA NANOEMULSION AND MICROENCAPSULATION

Liu yaowei * ¹, Yang Tao¹, LI kexin², Liu Changshu³, Zhou Peng^{1 1}

School of Food Science and Technology, Jiangnan University, Wuxi, Jiangsu, China ² Le Bonta Wellness Co., Ltd. Room ⁵, 4th Floor, Building ¹, No. ³⁹, Jiatai Road, Pilot Free Trade Zone, Shanghai, China ³ Standard Foods (China) Co., Ltd. No. ⁸⁸ Dalian West Road, Taicang Port Economic and Technological Development Zone New Zone, Jiangsu, China

83. #152 NUTRITIONAL AND POTENTIAL HEALTH BENEFITS OF LACTOSE-FREE AND CITRUS-WASTE DIETARY FIBRE FORTIFIED ICE CREAM

Dupe Otolowo * , Nuvie Ediri

Department of Food Science and Technology, Mountain Top University, Ogun State, Nigeria

84. #156 ELECTROSPINNING OF PROTEINS FROM FABA BEAN LEAVES (VICIA FABA L.) AND RED BETROOT LEAVES (BETA VULGARIS L.) AFTER INTERNET OF THINGS (IOT) ULTRASOUND EXTRACTION

Ines Borić, Josipa Dukić, Anet Režek Jambrak *

Faculty of Food Technology and Biotechnology, University of Zagreb

85. #240 PALM OIL-FREE STRUCTURED LIPID BASES ANALOGOUS TO PALM SHORTENING FOR MARGARINE FORMULATIONS

Gabriela Alves Macedo * ¹, Vanessa Alves¹, Matheus Augusto Silva Roman¹, Valdecir Luccas^{2 1}

¹ University of Campinas (UNICAMP) , Campinas, SP, Brazil; ² Food Technology Institut (ITAL), Campinas, SP Brazil

86. #362 EFFECT OF AUXENOCHLORELLA PROTOTHECOIDES INCORPORATION ON COOKING BEHAVIOUR, TEXTURE, AND COLOUR OF WHEAT NOODLES

Rong Wang * , Shao Quan Liu National

University of Singapore, Singapore

87. #516 STRUCTURE–FUNCTION RELATIONSHIPS IN LACTOSE–PROTEIN POWDERS: EFFECTS OF PROTEIN SOURCE AND MOISTURE-INDUCED PHYSICAL STATE ON INTERFACIAL FUNCTIONALITY

Han-Gyeol Gwon * , Heeyeon Choi, Yeon-Ji Jo

Department of Food Processing and Distribution, Kangwon National University, Korea

88. #551 ENHANCING DIFFUSION-ASSISTED FORTIFICATION IN RICE THROUGH MICRO-PERFORATION: A KINETIC AND MASS TRANSFER STUDY

Arunima Mukherjee * ¹, Jatindra K. Sahu¹, P. Hariprasad^{2 1}

Food Customization and Research Lab, Centre for Rural Development and Technology, Indian Institute of Technology Delhi, Hauz Khas, New Delhi- 110016, India

² Environmental Biotechnology Lab, Centre for Rural Development and Technology
Indian Institute of Technology Delhi, Hauz Khas, New Delhi- 110016, India

**89. #658 ENGINEERING POROUS STARCH FROM CASSAVA AND
FABA BEAN TO ENHANCE ENCAPSULATION CAPACITY:
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Mayang Pawitra * , Peter J. Torley, Asgar Farahnaky, Mahsa Majzoobi
RMIT

University

**90. #762 ULTRASOUND-MODIFIED TARWI (LUPINUS MUTABILIS)
PROTEIN AS A SUSTAINABLE WALL MATERIAL FOR IRON
MICROENCAPSULATION**

Mery Luz Cusiche Huamani * ¹, Ritva Repo-Carrasco-Valencia², Julio
Vidaurre-Ruiz² ¹ Doctoral Program in Nutrition, Universidad Nacional
Agraria La Molina, Lima, Peru ² Universidad Nacional Agraria La Molina,
Lima, Peru

**91. #814 INFLUENCE OF OAK AGING ON THE SENSORY PROFILE AND
TEMPORAL PERCEPTION OF 80% COCOA BEAN-TO-BAR
CHOCOLATE**

Amanda Felipe Reitenbach * ¹, Ana Carolina Broch¹, Livia de Lacerda
Oliveira², Grace Ferreira Ghesti¹ ¹

Institute of Chemistry – LMCerva Laboratory University of Brasília, Brasília, DF,
BRAZIL ² Post-Graduation Program in Pharmaceutical Sciences. College of Health
Sciences

**92. #828 MICROENCAPSULATION OF PHENOLIC-RICH EXTRACT
FROM DEFECTIVE COFFEE BEANS BY IONIC GELATION**

Sarah de Medeiros Pinheiro Souza¹, Izabela Dutra Alvim², Lidiane Bataglia
da Silva¹, Juliana Alves Macedo¹, Gisele Anne Camargo * ² ¹ Food Science
and Nutrition

Department, Universidade Estadual de Campinas (UNICAMP) – Brazil ² Institute of
Food Technology (Ital), Campinas, Brazil

**93. #851 ENHANCING AGRO-ECOLOGICAL RESILIENCE THROUGH
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Michael Oke * Michael Adedotun

Oke Foundation / Federal Capital Territory Agricultural Development Program

**94. #864 RHEOLOGICAL, TRIBOLOGICAL, AND SPREADABILITY
PROPERTIES OF CAROTENOID-ENRICHED BIGELS**

Caroline Ramos-Souza¹, Jorge Vieira², Veridiana de Rosso * ¹, Ana
Cristina Pinheiro², Antônio Vicente² ¹

¹ Federal University of São Paulo ² University of Minho

**95. #986 FABRICATION OF AN INNOVATIVE GELATIN/POLYVINYL
ALCOHOL/VANILLIN AEROGEL CONTAINING D-LIMONENE
NANOSTRUCTURED LIPID CARRIERS AND ITS PRESERVATION
EFFECTS ON STRAWBERRIES**

Xin Wang *, Jin Wang

Key Laboratory of Environmental Medicine and Engineering, Ministry of Education, and Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing, China

96. #1031 BIPHASIC CO-ENCAPSULATION OF PIPERINE AND CURCUMIN IN O/W EMULSIONS STABILIZED BY 4-A-GLUCANOTRANSFERASE-MODIFIED POTATO STARCH FOR ENHANCED BIOACCESSIBILITY AND DYSPHAGIA-ORIENTED DELIVERY

Yong-Ro Kim * ¹, In-Geun Jung¹, Shin-Jae Lee¹, Jae Yong Shim^{2 1} Seoul National

University ² Hankyong National University

97. #1092 CORE-SHELL GEL STRATEGIES USING CELLULOSES AS A PROBIOTIC DELIVERY SYSTEM FOR ENHANCED GASTROINTESTINAL STABILITY

Gyu Ri Shin * , Young Hoon Jung

School of Food Science and Biotechnology, Kyungpook National University, Daegu 41566, Republic of Korea

98. #1121 EFFECTS OF PRE-PROCESSING ON THE DRY MILLING FRACTIONATION OF PEARL MILLET AND COWPEA: CHALLENGES IN PROTEIN SEPARATION

Carlos Wanderlei Piler Carvalho * ¹, Alexander Ferreira Brito², Leonardo Souza Diniz², José Luis Ramírez Ascheri¹, Silmara Rossana Bianchi^{1 1}

Embrapa Food Technology ² Post-graduate Program in Food Science and Technology, UFRRJ Institute

99. #1211 MICROWAVE TREATMENT AND PHENOLIC COMPOUND INCORPORATION AS COMPLEMENTARY STRATEGIES TO TAILOR THE FUNCTIONALITY OF MAIZE STARCH

Ainhoa Vicente, Antonio J. Vela * , Marina Villanueva, Felicidad Ronda

ProCerealTech group of Food Technology, Department of Agriculture and Forestry Engineering, and Research Institute on Bioeconomy (BioEcoUVa), University of Valladolid, Spain

100. #1281 pH-RESPONSIVE ALGINATE HYDROGELS DERIVED FROM FERMENTED UNDARIA PINNATIFIDA BY-PRODUCTS FOR CONTROLLED INTESTINAL DELIVERY OF BIOACTIVE COMPOUNDS

Minyoung Je * , Hyun-Sun Kang, Minseo Choi, Jihui On, Jiyeon Chun

Department of Food Science and Technology, Suncheon National University, Suncheon, Republic of Korea

101. #1370 IMPROVING PROCESS FOR EXTRACTING OLEOSOMES FROM PUMPKIN SEEDS: PHYSICAL STABILITY THROUGH HIGH-PRESSURE HOMOGENIZATION

Beatriz Pérez * ¹, Beatriz Llavata¹, Gemma Moraga^{2 1}

AINIA – Food Industries. Benjamin Franklin ⁵, Parque Tecnológico de Valencia, 46980, Paterna, Spain ² Research Group of Food Microstructure and Chemistry (MIQUALI), Instituto Universitario de Ingeniería de Alimentos—FoodUPV, Universitat Politècnica de València, 46022, Valencia

102. #1371 DRY FRACTIONATION AS A SUSTAINABLE ALTERNATIVE FOR PROTEIN CONCENTRATES PRODUCTION

Mariana Valverde * , Alba Gozalbes, Beatriz Llavata, Beatriz Pérez

AINIA – Food Industries. Benjamin Franklin ⁵, Parque Tecnológico de Valencia, 46980, Paterna, Spain

103. #1421 REDISPERSIBLE CASEIN-ZEIN NANOCARRIERS ENABLE SELECTIVE LOADING OF SAPONIN RD FROM CRUDE EXTRACTS FOR IMPROVED THERAPY OF ACUTE ALCOHOLIC LIVER INJURY

Feilong Yang, Menglin Yuan, Heyuan Jiang *

Institute of Urban Agriculture, Chinese Academy of Agricultural Sciences, Chengdu, 610213, China

104. #1548 A POROUS HYDROGEL-BIOFILM DELIVERY SYSTEM FOR ENHANCED INTESTINAL COLONIZATION OF PROBIOTICS AND TARGETED AMELIORATION OF AFLATOXIN B1-INDUCED ENTEROHEPATIC INJURY

Yan Wang, Sigan Lu

College of Food Science and Engineering, Zhejiang University of Technology, China

105. MUSHROOM β -GLUCAN-RESVERATROL NANOCARRIERS TARGET MICROGLIAL MITOCHONDRIA TO ATTENUATE NEUROINFLAMMATION VIA IMMUNOMETABOLIC REPROGRAMMING.

Yuting Su¹, Huafang Ding¹, Hanyue Zhu¹, Shouhe Huang¹, Zhen-Yu Chen¹, Mingfu Wang²

¹ Guangdong Pharmaceutical University, China; ² Shenzhen University, China

106. #421 PRINT PARAMETERS SHAPE TEXTURE AND QUALITY IN 3D PRINTED CHICKPEA PROTEIN DYSPHAGIA FOODS

Laura Lopez Aldana * ¹, John Wolodko¹, Wendy Wismer¹, Marleny Saldaña¹

¹ University of Alberta, Canada

Scaling Up Traditional Technologies

107. #74 SCALING UP TRADITIONAL FISH SALTING AND DRYING: A COMMUNITY-BASED PROCESS CONTROL FRAMEWORK FOR ARTISANAL SYSTEMS

Abigail Ann Ching-Calata * , Myrna Benita Luna

University of the Philippines Diliman

108. #428 DEVELOPMENT OF LOW-COST PROCESSING TECHNOLOGIES FOR THE PRODUCTION OF NUTRIENT-DENSE PUPURU WITH IMPROVED SAFETY AND QUALITY

Adesoji Olaniyan * ¹, Cordelie Jaiyeoba², Adefisola Adepeju² ¹

Department of Agricultural and Bioresources Engineering, Faculty of Engineering, Federal University Oye-Ekiti, Ikole-Ekiti, Nigeria ² Department of Food Science and Technology, Faculty of Agriculture, Federal University Oye-Ekiti, Ikole-Ekiti, Nigeria

109. #566 LIQUID-LIQUID PHASE SEPARATION FOR FOOD SYSTEM

Xing Li * China Agricultural
University

110. #845 REFORMULATING TRADITIONAL PHUTU PAP BY PARTIALLY REPLACING NORMAL MAIZE WITH NIXTAMALIZED MAIZE.

Faith Matiza Ruzengwe * ¹, Sisipho Rebe², Carina Bothma², Alba Du Toit¹

ARC/DALRRD/UFS Chair: Innovative Agro-processing for Climate Smart Food Systems, Department of Sustainable Food Systems and Development, Faculty of Natural and Agricultural Sciences, University of the Free State, Bloemfontein, South Africa ² Department of Sustainable Food Systems and Development, Faculty of Natural and Agricultural Sciences, University of the Free State, Bloemfontein, South Africa

111. #887 SCALING UP TRADITIONAL DETARIUM SENEGALENSE FRUIT PROCESSING THROUGH THE LICKA'S PULPER-REFINER TECHNOLOGY

Nafissatou Diop * Université Rose Dieng France Sénégal

Bio transformation and Functional Fermentation for Health

112. #50 FERMENTATION-DERIVED DIHYDROFERULIC ACID FROM RICE BRAN ATTENUATES DEXAMETHASONE-INDUCED MUSCLE DYSFUNCTION AND EXHIBITS DOSE-DEPENDENT NEURONAL DIFFERENTIATION RESPONSES

HYEONJIN LEE¹, NAKYEOM LEE¹, HYESOOK LEE², SANGHYUN LEE * ^{1 1}

Department of Food Nutrition and Food Engineering, INJE UNIVERSITY, KOREA ² Simply Care Bio Co. Ltd. KOREA

113. #231 BEYOND TRADITIONAL TEMPEH: SYNERGISTIC EFFECTS OF R. ORYZAE AND R. BABJEVAE ON BIOACTIVE COMPOUNDS

Laura Castaneda * , Volkmar Passoth, Su-Lin L. Leong, Maud Langton, William Newson

Swedish University of Agricultural Sciences

114. #312 RICE BRAN HYDROLYSATES AS A LOW-COST, BY-PRODUCT DERIVED SUBSTRATE FOR SINGLE-CELL PROTEIN PRODUCTION VIA MICROALGAE-YEAST CO-CULTIVATION

Janna Patricia Tungol * , Justin Godfred Peralta

University of the Philippines - Diliman

115. #414 OAT SOLID-STATE FERMENTATION METABOLITE MODULATION: INSIGHTS FROM UNTARGETED 1H-NMR METABOLOMICS

Stella Green * ¹, Nicholas Horlacher², Graham T Eyres¹, Biniam Kebede^{2 1}

University of Otago ² University of Guelph

116. #420 DISCOVERY OF FOOD-RELEVANT MICROORGANISMS CAPABLE OF ACTIVE VITAMIN B12 BIOSYNTHESIS

Ricco Tindjau * ¹, Maybelle Kho Go¹, Wen Shan Yew², Shao-Quan Liu³, Michael Miller^{4 1}

Illinois Advanced Research Center at Singapore ² *Illinois Advanced Research Center at Singapore, National University of Singapore, NUS Synthetic Biology for Clinical and Technological Innovation* ³ *National University of Singapore, National University of Singapore Suzhou Research Institute* ⁴ *Illinois Advanced Research Center at Singapore, University of Illinois Urbana-Champaign*

117. #644 EVALUATION OF S-ADENOSYLMETHIONINE (SAM) AND RELATED METABOLITES IN SAKE KASU PRODUCED BY DIFFERENT YEAST STRAINS

Haruka Oikawa * ¹, Haruka Ogasawara², Yoriko Okamatsu², Satoshi Miyauchi³, Yasutaka Shigemura^{3 1} Graduate

School of Health and Nutrition, Tokyo Kasei University, Tokyo, Japan ² *Ina Food Industry Co., Ltd., Nagano, Japan* ³ *Department of Nutrition, Tokyo Kasei University, Tokyo, Japan*

118. #666 BIOCHEMICAL PROPERTIES OF BETA-GLUCOSIDASE FROM COMMERCIAL ENZYME FOR THE PRODUCTION OF PHYLLDULCIN AND HYDRANGENOL

Min-Hyeong Kim * ¹, Ye-Jin Yang², Young-Min Kim^{1 1}

Department of Integrative Food, Bioscience and Biotechnology, Chonnam National University ² *Department of Food Science and Technology, Chonnam National University*

119. #668 ENZYMATIC SYNTHESIS OF O-METHYLATED EGCGS USING CAFFEYOYL-COA O-METHYLTRANSFERASE TO ENHANCE OXIDATIVE STABILITY

Min-Yeong Lee * ¹, Yu-ju Jang², Young-Min Kim^{1 1}

Department of Integrative Food, Bioscience and Biotechnology, Chonnam National University ² *Division of Food and Nutrition, Chonnam National University*

120. #676 EFFECTS OF MOISTURE AND SALT CONCENTRATION ON AMINO ACID LEVELS DURING MISO-LIKE FERMENTATION OF TRADITIONAL FLINT CORN

Takayuki Tsukui * , Tomoya Yamamoto, Yuri Kintaka

Department of Nutrition, Sapporo University of Health Sciences, Hokkaido, Japan

121. #1126 INVESTIGATING THE EVOLUTION OF GEL NETWORK INTERACTIONS DURING RIPENING AND THEIR IMPACT ON THE PROPERTIES OF A FERMENTED FABA BEAN PROTEIN-BASED CHEESE ANALOGUE

Alban Fiscarelli, Solange Buchin, Christine Achilleos, Florence Husson, Remi Saurel *

Université Bourgogne Franche-Comté, L'Institut Agro, Université de Bourgogne, INRAE, UMR PAM 1517, 21000 Dijon, France

122. #1139 DEVELOPMENT OF PROBIOTIC MEAD USING THE MICROBIOTA OF FRIESEOMELITTA VARIA POLLEN

Clara Katharina Vaz da Silva * ¹, Ana Luísa Kruschewsky da Paz², Grace Ferreira Ghesti¹, Talita Souza Carmo^{2 1}

University of Brasília, Chemistry Institute - Brasília, Brazil. ² *Institute of Biological Sciences - Brasília, Brazil.*

123. #1147 PRODUCTION OF VOLATILE COMPOUNDS BY SACCHAROMYCES CEREVISIAE FROM A LIPID MEDIUM

Maria Terezinha Santos Leite Neta¹, Regina Santiago Campos Nascimento¹, Rosângela Bergamasco * ², Hannah Caroline Santos Araujo¹, Daniel Alfonso Spudeit¹, Narendra Narain^{1 1}

*Laboratory of Flavor and Chromatographic Analysis, Federal University of Sergipe ²
State University of Maringá (UEM), Department of Chemical Engineering*

124. #1149 SUBMERGED FERMENTATION OF TROPICAL FRUIT RESIDUES AS A PLATFORM FOR BIOAROMA AND CAROTENOID PRODUCTION

Hannah Caroline Santos Araujo¹, Rosangela Bergamasco * ², Daniel Alfonso Spudeit¹, Monica Silva de Jesus¹, Rafael Donizete Dutra Sandes¹, Maria Terezinha Santos Leite Neta^{1 1}

*Laboratory of Flavor and Chromatographic Analysis, Federal University of Sergipe ²
State University of Maringá (UEM), Department of Chemical Engineering*

125. #1183 MICROSTRUCTURAL CHANGES DURING SOLID-STATE FERMENTATION OF OATS DRIVE NUTRIENT DIGESTIBILITY AND BIOACTIVE RELEASE

Stella Green * ¹, Nicholas Horlacher², Graham Eyres¹, Biniam Kebede^{2 1}

University of Otago, Department of Food Science, Dunedin, New Zealand ² University of Guelph, Department of Food Science, Guelph, Canada

126. #1381 MICROBIOME MODULATION OF SOURDOUGH BREAD PRODUCED WITH LACILACTOBACILLUS BREVIS ED25 AND LIMOSILACTOBACILLUS REUTERI E81 AS POTENTIAL STARTER CULTURES

Enes Dertli *¹, Mukadder Aksoy², Zuhail Alkay², Tekmile Cankurtaran-Körmürçü², Stephen R. Lindemann³, Yunus Emre Tunçil^{2 1}

Istanbul Technical University ² Food Engineering Department, Necmettin Erbakan University, Konya, Türkiye ³ Food Science Department, Purdue University, West Lafayette, IN, USA

127. #427 FERMENTATION-BASED BIOTRANSFORMATION OF NATIVE PLANT MATRICES INTO FUNCTIONAL FOOD BASES: A SCALABLE MODEL FOR SUSTAINABLE FOOD SYSTEMS

Daiana Julissa Disconzi * ¹, Itaciara Larroza Nunes²

¹ Federal University of Santa Catarina (UFSC), Department of Nutrition; Graduate Program in International Relations, Florianópolis, Brazil ² Federal University of Santa Catarina (UFSC), Department of Food Science and Technology, Florianópolis, Brazil

Microbiome Interactions and Physiological Impact

128. 1537 DIETARY CHOLESTEROL IMPAIRS COGNITION VIA GUT MICROBIOTA-DERIVED DEOZYCHOLIC ACID IN OBESE MICE

Yan Liu¹, Baiyi Lu²

¹ Southwest University, China; ² Zhejiang University, China

129. #1536 DOREA LONGICATENA AND ITS EXTRACELLULAR VISICLES ATTENUATE OVALBUMIN-INDUCED FOOD ALLERGY IN MICE

Yiyi Wang, Wenjing Chen

*Key Laboratory of Environmental Medicine and Engineering, Ministry of Education, and
Department of Nutrition and Food Hygiene, School of Public Health, Southeast
University, China*

Traditional Foods for future applications

130. #21 DEVELOPMENT AND CHARACTERIZATION OF A PROTEIN-FORTIFIED PLANT-BASED BEVERAGE FROM BAMBARA GROUNDNUT (VIGNA SUBTERRANEA): IMPACT OF VARIETY AND ENZYMATIC HYDROLYSIS

Thammarat Kaewmanee * , Damiya Semmad

Department of Food Science and Nutrition, Faculty of Science and Technology, Prince of Songkla University, Muang, Pattani 94000, Thailand

131. #51 STARCH FUNCTIONALITY-DRIVEN STANDARDIZATION OF TRADITIONAL KOREAN BUGAK USING THERMALLY PROCESSED RICE FLOURS

SUA BAK¹, HYORIM SEO¹, WOOTAE SONG², BOMI YOON², SANGHYUN LEE * ^{3 1}

Department of Smart Food and Drug, Graduate School, INJE UNIVERSITY, KOREA ² SKY BIO Co., Ltd. ³ Department of Food Nutrition and Food Engineering, INJE UNIVERSITY, KOREA

132. #132 SEASONAL VARIATION AND MULTI-TARGET BIOLOGICAL ACTIVITIES OF ROSMARINUS OFFICINALIS L. EXTRACTS: PHENOLIC PROFILE, ANTIOXIDANT

khalil GUELIFET * ¹, Mohammed MESSAOUDI², Mohamed Amine Ferhat², khaled kherraz^{3 1}

¹Department science physique, Laboratoire de Recherche sur les Produits Bioactifs et Valorisation de la Biomasse, Département de Chimie, ENS Kouba, Alger. ² Department science physique, Laboratoire de Recherche sur les Produits Bioactifs et Valorisation de la Biomasse, Département de Chimie, ENS Kouba, Alger. ³ Département biologie, Laboratoire d'ethnobotanique et substances naturelles(LESN)

133. #174 MARIGOLD FLOWER PROTEIN AS A SUSTAINABLE FOOD INGREDIENT FOR FUTURE FOOD APPLICATIONS

ANAND MOHAN * , Fidele Benimana, Kentaro Kawata

University of Georgia / Dept. of Food Science & Technology, 100 Cedar Street, Athens, Georgia, 30602, United States of America

134. #391 NUTRITIONAL ASPECTS AND NATURAL RADIOACTIVITY IN BRAZILIAN NUTS

Mariana Del Ben Mayer * ¹, Sandra Maria Chenin Seabra da Silva¹, Lucio Leonardo¹, Sandra Regina Damatto², Sandra Emi Kitahara^{3 1}

Centro Universitário São Camilo-São Paulo-Brazil ² Instituto de Pesquisas Energéticas e Nucleares-IPEN-São Paulo-Brazil ³ Centro Universitário SENAI-SP-Campus Barra Funda-São Paulo-Brazil, Universidade Municipal de São Caetano do Sul-USCS-São Caetano do Sul-Brazil

135. #392 DEVELOPMENT AND NUTRITIONAL EVALUATION OF GLUTEN-FREE PASTA ENRICHED WITH MUSHROOM FLOUR FOR INDIVIDUALS WITH CELIAC DISEASE

Sandra Emi Kitahara * ¹, Valéria Vieira da Silva², Mariana Del Ben Mayer³

Centro Universitário SENAI-SP-Campus Barra Funda-São Paulo-Brazil, Universidade Municipal de São Caetano do Sul-São Caetano do Sul-Brazil ² Centro Universitário SENAI-SP-Campus Barra Funda-São Paulo-Brazil ³ Centro Universitário São Camilo-CUSC-São Paulo-Brazil

136. #394 EVALUATION OF THE SENSORY DIFFERENCE BETWEEN FRESH, FROZEN AND ULTRA-FROZEN JAPANESE RICE BALLS (ONIGIRI)

Sandra Emi Kitahara * ¹, Camila Akemi Karubi Yokota², Mariana Del Ben Mayer³ ¹

Centro Universitário SENAI-SP-Campus Barra Funda-São Paulo-Brazil, Universidade Municipal de São Caetano do Sul-São Caetano do Sul-Brazil ² Centro Universitário SENAI-SP-Campus Barra Funda-São Paulo-Brazil ³ Centro Universitário São Camilo-CUSC-São Paulo-Brazil

137. #395 DEVELOPMENT AND PROXIMATE CHARACTERIZATION OF GLUTEN-FREE PASTA FORMULATED WITH ARROWROOT FLOUR AND TAIOPA RHIZOME

Mariana Del Ben Mayer * ¹, Beatriz de Luca Silva¹, Heloiza de Oliveira Trindade¹, Vanessa Bernardo Uehara¹, Sandra Emi Kitahara² ¹

Centro Universitário São Camilo-São Paulo-Brazil ² Centro Universitário SENAI-SP-Campus Barra Funda-São Paulo-Brazil, Universidade Municipal de São Caetano do Sul-São Caetano do Sul-Brazil

138. #412 SUSTAINABLE UPCYCLING OF CHEESE WHEY VIA SYMBIOTIC FERMENTATION FOR FUNCTIONAL METABOLITE GENERATION

Paula Toshimi Matumoto-Pintro * ¹, Jessyca Caroline Rocha Ribas¹, Leandra da Silva Florentino¹, Hélène Tormo² ¹

Universidade Estadual de Maringá, Maringá, PR, Brasil. ² France Occi'Food, Ecole d'Ingénieurs de Purpan, Université de Toulouse, Toulouse, France

139. #476 EFFECT OF DRYING TIME AND TEMPERATURE ON THE PHYSICO-CHEMICAL AND CONSUMER ACCEPTABILITY OF CARROT-BASED JERKY STRIPS

Kylie Frances Ty * , Jin Mark Pagulayan

Department of Food Science and Nutrition, College of Home Economics, University of the Philippines Diliman

140. #547 PRODUCTION AND QUALITY EVALUATION OF AN OAT WHEAT COMPOSITE BREAD ENRICHED WITH RICE BRAN AND BANANA EXTRACTS

Ofoedum A.F. * ¹, Olawuni I.A.¹, Njoku N.E.¹, Odimegu E.N.¹, Anaeke E.J.¹, Ofoedum S.L.² ¹

Department of Food Science and Technology, School of Engineering and Engineering Technology, Federal University of Technology, Owerri, Imo State, Nigeria. ² Department of Pharmacy, Faculty of Pharmaceutical Sciences, Nnamdi Azikiwe University, Awka, Anambra State, Nigeria

141. #567 REPOSITIONING INDIGENOUS FOODS AND TRADITIONAL KNOWLEDGE FOR FUTURE FOOD SYSTEMS IN SUB-SAHARAN AFRICA: A SCOPING REVIEW

Sheila Kilonzi * ¹, Lydiah Asiko-Omondi², Anselimo Makokha¹ ¹

Jomo Kenyatta University of Agriculture and Technology, Department of Food Science, Nairobi-Kenya ² Karatina University, Department of Food Science and Nutrition, Karatina-Kenya

142. #646 COMPARATIVE EVALUATION OF MINERAL COMPOSITION, MICROBIOLOGICAL SAFETY, AND YOGURT APPLICATION OF COCONUT SAP SUGAR FROM DIFFERENT REGIONS OF THE PHILIPPINES

Mylene Ross Arcena * , Russell Caesar Enoc, Era Puti-an, Mary Antonette Pardilla, Anthony Sales

Department of Science and Technology Davao Region, corner Dumanlas and Friendship Roads, Bajada, Davao City, Davao del Sur, 8000, Philippines

143. #754 HIMALAYAN WILD BLUEBERRY (VACCINIUM GLAUCOALBUM): CHEMICAL COMPOSITION AND FUNCTIONAL POTENTIAL

Mridusmita Barman * , Dr. Poonam Mishra

Department of Food Engineering & Technology, Tezpur University

144. #1103 PROFILING OF BIOACTIVE COMPONENTS AND IN VITRO EVALUATION OF THE ANTIOXIDANT ACTIVITY OF ARATILES (MUNTINGIA CALABURA L.) FRUIT AS AFFECTED BY HEAT TREATMENT

JOANNA MARIE R. RAMOS¹, CATHERINE ANN C. ISRAEL²

¹Department of Science and Technology, Industrial Technology Development Institute, Philippines; ²Institute of Food Science and Technology, University of the Philippines Los Baños, Philippines

145. #822 FUNCTIONAL PROPERTIES OF BIOACTIVE POLYSACCHARIDES EDIBLE FLOWERS

ANAND MOHAN * , Kentaro Kawata

Department of Food Science and Technology, University of Georgia, 100 Cedar Street, Athens, GA, USA

146. #899 CHARACTERIZATION AND SENSORY QUALITY OF AIR FRIED SNACKS FROM ORANGE FLESHED SWEET POTATO AND PALM WEEVIL LARVA COMPOSITE FLOURS

Tolulope Oresanya * ¹, Hannah Olaleye², Oladeinde Ogundipe², Bolatito Sofolahan², Dota Odimegwu² ¹ Food Science

Department, Organigram Global Inc., Winnipeg, Manitoba, Canada ² Department of Food Science and Technology, Yaba College of Technology, Lagos, Nigeria

147. #903 FUNCTIONAL MODIFICATION OF TRADITIONAL WARANKASHI CHEESE: EFFECTS OF SOURSOP JUICE ON COMPOSITION AND ANTIOXIDANT ACTIVITY.

Oladeinde Olatunde Ogundipe * ¹, Hannah Temitayo Olaleye¹, Femi Fidelis Akinwande¹, Olaitan Odukumaju², Simbiat Olaide Dawodu² ¹

Department of Food science and Technology, Yaba College of Technology, Yaba College of Technology, Yaba, Lagos, Nigeria. ² Department of Food Science and Technology, Federal University Oye-Ekiti, Ekiti State, Nigeria

148. #1044 GENOTYPIC CHARACTERIZATION OF THE MICROBIOTA OF TENGBA

Paolo Aldrei Zara * , Baby Richard Navarro, Clyde Francis Romeo Medina
Institute of Food Science and Technology, College of Agriculture and
Food Science,

University of the Philippines Los Baños, Laguna, Philippines

**149. #1072 FROM TRADITIONAL YAM TO FUNCTIONAL FLOUR:
MAXIMIZING RESISTANT STARCH IN PHILIPPINE YAM FLOUR
USING RESPONSE SURFACE METHODOLOGY**

Arianna Denise O. Cedo * , Prince Joseph V. Gaban, Jonina Marie J.
Tengco, John Andrew D. Del Mar, Florencio C. Reginio Jr. Institute of
Food Science and Technology, College of Agriculture and Food Science,

University of the Philippines Los Baños, 4031 Laguna, Philippines

**150. #1193 PHYSICOCHEMICAL AND MICROBIOLOGICAL CHANGES IN
BREAD ENRICHED WITH FRESH, BLACK, AND ENCAPSULATED
GARLIC DURING STORAGE**

**Hatice Kubra SASMAZ¹, Turkan UZLASIR *², Pınar KADİROĞLU¹, Mehmet
Sertaç ÖZER³, Serkan SELLİ³, Hasim KELEBEK^{1 1}**

*Department of Food Engineering, Faculty of Engineering, Adana Alparslan Türkeş
Science and Technology University, 01250 Adana/ Türkiye ² Department of
Gastronomy and Culinary Arts, Art and Design Faculty, Alanya University, 07400,
Alanya/Türkiye ³ Department of Food Engineering, Faculty of Agriculture, Cukurova
University, 01330 Adana/Türkiye*

**151. #1233 INTEGRATED TAXONOMIC AND PREDICTIVE FUNCTIONAL
PROFILING OF THE TENGBA MICROBIOME**

**Ryan Christopher Quiambao¹, Liezel Shine Mananquil¹, Andrew
Montecillo², Richard Navarro *^{1 1}** Institute of Food Science and
Technology, College of Agriculture and Food Science,

*University of the Philippines Los Baños, Los Baños, Laguna, Philippines ² Institute of
Biological Sciences, College of Arts and Sciences, University of the Philippines Los
Baños, Los Baños, Laguna, Philippines*

**152. #1280 ISOLATION AND CHARACTERIZATION OF AMYLOID-LIKE
PROTEIN AGGREGATES FROM WHITE BREAD FOR THEIR
INTERACTION WITH PATHOGENIC AMYLOIDS**

ABHISHEK SINGH YADAV * , JAY KANT YADAV

*CENTRAL UNIVERSITY OF RAJASTHAN, DEPARTMENT OF BIOTECHNOLOGY,
AJMER, INDIA*

**153. #1344 CHEMICAL COMPOSITION AND PHYTOCHEMICAL
CHARACTERIZATION OF HIMALAYAN WILD BLUEBERRY
(VACCINIUM GLAUCOALBUM): A TRADITIONALLY CONSUMED
FRUIT OF ARUNACHAL PRADESH, INDIA**

Mridusmita Barman * , Dr. Poonam Mishra

Department of Food Engineering & Technology, Tezpur University, Assam, India

**154. #1355 LEVILACTOBACILLUS BREVIS ED25 AND
LIMOSILACTOBACILLUS REUTERI E81 IMPROVE THE
TECHNOLOGICAL AND NUTRITIONAL QUALITY OF SOURDOUGH
BREAD**

**Mukadder Aksoy¹, Zuhail Alkay¹, Tekmile Cankurtaran-Kömürcü¹,
Stephen R. Lindemann², Enes Dertli³, Yunus Emre Tuncil *^{1 1}** Food
Engineering

Department, Necmettin Erbakan University, Konya, Türkiye ² *Food Science Department, Purdue University, West Lafayette, IN, USA* ³ *Food Engineering Department, Istanbul Technical University, Istanbul, Türkiye*

155. #1376 PROXIMATE COMPOSITION AND SENSORY ACCEPTABILITY OF PLANT-BASED YOGHURT ANALOGUES FROM MIXTURES OF SOYMILK AND PIGEON PEA MILK

Dorothy Arukwe *, Blessing Offia Olua, Ijeoma Okereke Michael Okpara
University of Agriculture, Umudike

156. #1377 FERMENTATION OF TRADITIONAL TURKISH COFFEE WITH KOMBUCHA

Ayşe Muslu Aykoc * Alanya
University Art and Design Faculty Gastronomy and Culinary Arts

157. #1401 HIGH-PRESSURE PROCESSING OF HYDROLYZED SESAME PROTEIN: GELATION FOR NEXT-GENERATION PROTEIN-RICH FOODS

Beatriz Lederman Valente * ¹, Giang Vu², Osvaldo Campanella², Marcelo Cristianini¹ ¹

Department of Food Engineering and Technology, School of Food Engineering, University of Campinas (UNICAMP), Campinas, SP, Brazil. ² *Department of Food Science and Technology, The Ohio State University, Columbus, OH, USA*

158. #1404 VALORISATION OF FARMED AUSTRALIAN SALTWATER CROCODILE (CROCODYLUS POROSUS) CARCASS MATERIAL AS A NOVEL SOURCE OF BIOACTIVE COLLAGEN PEPTIDES

Rina Wong¹, Pdraig Strappe * ² ¹ **Faculty of Health, Curtin Medical Research Institute, Curtin**

University, Perth, WA 6102, Australia ² *Charles Darwin University-Menzies Medical Program, Darwin, NT 0810, Australia*

159. #1413 ENRICHMENT OF GABA IN SOYBEANS THROUGH LACTOCOCCUS LACTIS AND LACTOBACILLUS PLANTARUM FERMENTATION AND ITS APPLICATION IN COOKIE PRODUCTION

Yan Liu *, Xin Chen, Zhenjia Chen, Perry Ng Michigan State
University

160. #1414 PH-DEPENDENT STRUCTURAL MODIFICATIONS OF LUPIN PROTEINS INDUCED BY HIGH-PRESSURE HOMOGENIZATION

MARcelo Cristianini *, Priscilla Barbosa André State
University of Campinas

161. #1467 NUTRITIONAL AND BIOACTIVE POTENTIAL OF CHEKA AND BORDE: TRADITIONAL ETHIOPIAN FERMENTED BEVERAGES

Endale Amare Kifle * ¹, Tesfaye Legesse Bedada¹, Cristina Martínez-Villaluenga², Masresha Tessema¹, Elena Penas² ¹

Nutrition, Environmental Health and Non-communicable Diseases Research Directorate, Ethiopian Public Health Institute, Addis Ababa, Ethiopia ² *Institute of Food Science, Technology and Nutrition (ICTAN-CSIC), Jos'e Antonio Novais* ⁶, 28040 Madrid, Spain

162. #1474 INTEGRATED MULTI-ANALYTICAL CHARACTERIZATION OF INDIAN HIMALAYAN SEA BUCKTHORN FOR TRADITIONAL FOOD INNOVATION AND FUTURE APPLICATIONS

Sunil Meena * , Prakash Rai, Raj Duary

Department of Dairy Science and Food Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi - 221005

163. #1480 CHARACTERIZATION OF PHYSICOCHEMICAL PROPERTIES, FATTY ACIDS, FLAVOR VOLATILES AND PHENOLIC COMPOUNDS OF AVOCADO VARIETIES

Jiating Chen *

School of Chemical Sciences, The University of Auckland, Auckland, New Zealand

164. #349 FROM INDIGENOUS FARMS TO FUNCTIONAL FLOURS: EFFECTS OF PRETREATMENT ON THERMAL AND PASTING PROPERTIES OF PHILIPPINE PURPLE YAM (DIOSCOREA ALATA)

Edward Peter De Guzman¹, Airisse Rae Basinang * ¹, Emily Soriano², Casiana Blanca Villarino¹

¹Food Application and Sensory Laboratory, Department of Food Science and Nutrition, College of Home Economics, University of the Philippines Diliman, Quezon City, Philippines

²Regional Field Office III, Department of Agriculture, San Fernando, Pampanga, Philippines

165. #1227 IMPACT OF REGULAR GRAPE CONSUMPTION ON EYE HEALTH AND THE REGULATION OF ADVANCED GLYCATION END PRODUCTS

Marcus Ting,¹Jessie Jya Yin Ang,¹May Yoke Yeo,¹Gregory Chung Tsing Chan², Jung Eun Kim³

¹Department of Food Science & Technology, National University of Singapore²Saw Swee Hock School of Public Health, National University of Singapore

³Department of Food Science & Technology, Bezos Centre for Sustainable Protein, National University of Singapore

166. #1560 THE EFFECT OF MICROWAVE, OVEN, AND FREEZE DRYING ON EDIBLE INSECTS SPHENARIUM PURPURASCENS AND ATTA MEXICANA'S DRYING KINETICS, NUTRITIONAL CONTENT, AND BIOACTIVITY

Mario Peña-Alvarado¹ Julio E. González-Pérez¹ Celeste C. Ibarra-Herrera*¹

¹Tecnologico de Monterrey, School of Engineering and Sciences, Puebla, Mexico

POSTER PRESENTATIONS

Theme : FOOD ATTRIBUTES : CHEMISTRY AND SENSORY

Date 27.10.2026

Time : 0830 - 1600

Venue : Hall 5

(Please note : Installation: 17:00-1800hrs (5.00pm-6.00pm) on 26 Oct 2026
Removal: 16:00-17:00hrs (4.00pm-5.00pm) on 27 Oct 2026)

Food and Analytical Chemistry

1. #11 PROXIMATE, AND FUNCTIONAL PROPERTIES OF DOUGH MEAL FROM CARROT AND ORANGE-FLESHED SWEET POTATOES

Abiodun Adebayo-Oyetoro * , Adejumo Salau, Mary Ayodele, Magdalene Monday, Emmanuel Alake, Izuchukwu Mbonu

Yaba College of Technology, Department of Food Science and Technology, Yaba, Lagos, Nigeria

2. #178 QUANTIFICATION OF TOTAL RESIN GLYCOSIDES IN SWEET POTATO AND RAPID IDENTIFICATION OF SWEET POTATO CULTIVARS WITH HIGH RG CONTENTS FROM LARGE SAMPLE POOLS

Qingtong Xie * ¹, Yi Lin¹, Qiuyu Zhang¹, Tiange Liu², Dejian Huang³

¹ Department of Food Science & Technology, National University of Singapore, Singapore ² National University of Singapore (Suzhou) Research Institute, Suzhou, Jiangsu, China. ³ Department of Food Science & Technology, National University of Singapore, Singapore, National University of Singapore (Suzhou) Research Institute, Suzhou, Jiangsu, China.

3. #189 URCHIN-SHAPED COFS EMPOWER DUAL-MODE SENSOR INTEGRATING MULTIPLE SIGNAL AMPLIFICATION FOR ULTRASENSITIVE NUCLEIC ACID DETECTION

Xinxue Zhang * ¹, Geoffrey Waterhouse², Jin Wang¹

¹ Key Laboratory of Environmental Medicine and Engineering, Ministry of Education, and Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing, China ² School of Chemical Sciences, The University of Auckland, Auckland 1142, New Zealand

4. #192 GLUCOSINOLATES IN DIFFERENT ORGANS OF CHOY SUM (BRASSICA RAPA VAR. PARACHINENSIS) AND INDOOR FAR-RED LIGHT STRATEGY TO INCREASE THEIR CONTENTS

Jim Junhui Huang * , Yufeng Xue, Qian Zeng, Li Zou, Weibiao Zhou*

Department of Food Science & Technology, National University of Singapore

5. **#286 EFFECT OF CONTINUOUS AND CYCLIC HYDROTHERMAL ANNEALING ON THE PASTING AND THERMAL PROPERTIES OF CASSAVA STARCH**

Tayla Danieli Lopes Dias¹, Michelle de Paula Cardozo², Ivo Mottin Demiate¹, Luiz Gustavo Lacerda *

¹ ¹ State University of Ponta Grossa, Food Science and Technology Graduation Program, Ponta Grossa, PR, Brazil ² State University of Ponta Grossa, Department of Food Engineering, Ponta Grossa, PR, Brazil

6. **#308 IMPACT OF CITRIC ACID ON THE MAILLARD REACTION IN THE PRODUCTION OF INSTANTIZED IRON-FORTIFIED RICE USING HIGH-TEMPERATURE HIGH-PRESSURE EXTRUSION**

Charlie Adona * , Jayson Tagaroma, Francesca Louise Garcia, Herlyn Villamento, Maricar Albao

Food and Nutrition Research Institute, Department of Science and Technology, Taguig City, Philippines

7. **#319 METHOD VALIDATION FOR THE DETERMINATION OF 31 PER- AND POLYFLUOROALKYL SUBSTANCES IN ANCHOVY USING LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY**

Youngbin Jang¹, Haejin Kwon¹, Yebeen Kang¹, Cho-il Kim², Hyun-Mee Park *

¹ ¹ Advanced Analysis and Data Center, Korea Institution of Science and Technology, Hwarang-ro 14-gil 5, Seongbuk-gu, Seoul, 02792, Republic of Korea ² Department of Food and Nutrition, Seoul National University, Gwanak-ro 1, Gwanak-gu, Seoul, 08826, Republic of Korea

8. **#334 FOOD GRADE SYNTHESIS OF FLAVONE DIMER LIBRARY AND SCREENING OF THEIR ANTIBACTERIAL ACTIVITY**

Chuyi Wang * , Dejian Huang, Siyu Chen

Department of Food Science and Technology, National University of Singapore

9. **#341 PHYSICOCHEMICAL AND SPECTRAL CHARACTERIZATION OF PORK AND BEEF CUTS USING HYPERSPECTRAL IMAGING AND FOOD SCANNER ANALYSIS**

Ji Yoon Cha * , Min Kyung Park, Yun-Sang Choi Korea Food Research Institute

10. **#196 DE NOVO PEPTIDE SEQUENCING BY N-TERMINAL COUMARIN DERIVATIZATION AIDED LIQUID CHROMATOGRAPHY-TRAPPED ION MOBILITY SPECTROMETRY-QUADRUPOLE TIME-OF-FLIGHT MASS SPECTROMETRY AND ITS APPLICATION IN PEPTIDOMICS**

Hui Luan¹, Yumiko Toyama², Fumiya Honda¹, Ryotaro Asai¹, Risa Katagihara¹, Yizhi Xiao¹, Saya Nakamura¹, Toshiro Matsui³, Mitsuru Tanaka³

¹Agriculture Graduate School of Kyushu University, Japan; ²Research and Development Center for Five-Sense Devices, Kyushu University, Japan; ³Agriculture Graduate School of Kyushu University, Japan, and Research and Development Center for Five-Sense Devices, Kyushu University, Japan

11. #446 GREEN EXTRACTION OF BIOACTIVE COMPOUNDS FROM COFFEA ARABICA SIDESTREAMS WITH AQUEOUS DEEP EUTECTIC SOLVENT AND THEIR APPLICATION IN MAYONNAISE AS ANTIOXIDANT AGENTS

Gaston Adoyo * ¹, Willis Owino¹, Elizabeth Wafula¹, Søren Engelsen², George Abong³

¹ Jomo Kenyatta University of Agriculture and Technology ² University of Copenhagen ³ University of Nairobi

12. #507 LIGNAN COMPOSITION AND ANTIOXIDANT ACTIVITY OF SAFFLOWER SEEDS FROM DIFFERENT REGIONS OF KOREA

Gajin Kim * , Jinseo Lee, Sujong Park, Seulbi Seo, Younghwa Kim

Department of Food Science and Biotechnology, BB21plus Project Team, Kyungsung University, Busan, Republic of Korea

13. #509 CHANGES IN LIGNAN AND FLAVONOID METABOLISM AND ANTIOXIDANT ACTIVITY DURING SESAME GERMINATION AND ASSOCIATED METABOLIC PATHWAYS

Jinseo Lee * , Yoonjeong Kim, Daeyoon Kang, Gajin Kim, Younghwa Kim

Department of Food Science and Biotechnology, BB21plus Project Team, Kyungsung University, Busan, Republic of Korea

14. #579 NEW INSIGHTS INTO VOLATILE PHENOL-DRIVEN OFF-FLAVOR IN SOY (1) CONTRIBUTION OF STRUCTURALLY RELATED VOLATILE PHENOLS TO THE BEANY OFF-FLAVOR IN SOYMILK

Naomichi Nakagawa * , Misato Baba, Kenichi Tomi

Fuji Oil Co., Ltd., Osaka, Japan

15. #580 NEW INSIGHTS INTO VOLATILE PHENOL-DRIVEN OFF-FLAVOR IN SOY (2) REGULATION OF OFF-FLAVOR CONTRIBUTING VOLATILE PHENOLS IN SOYMILK USING LACCASE

Misato Baba * , Naomichi Nakagawa, Kenichi Tomi

Fuji Oil Co., Ltd., Osaka, Japan

16. #586 EFFECT OF ELICITORS ON LIGNAN ACCUMULATION DURING SAFFLOWER SEED GERMINATION

Yoonjeong Kim * , Jinseo Lee, Gajin Kim, Daeyoon Kang, Younghwa Kim

Department of Food Science and Biotechnology, BB21plus Project Team, Kyungsung University, Busan, Republic of Korea

- 17. #590 DETERMINATION OF TOTAL PHENOLIC AND FLAVONOID CONTENT WITH ANTIOXIDANT ACTIVITY IN VACUUM FREEZE-DRIED BREWED LIBERICA COFFEE (COFFEA LIBERICA VAR LIBERICA)**

Maria Christiana Sobreviñas * , Dennis Cantre, Adeliza Dorado, Jelynn Tamayo, Bernadeth Balonga

Institute of Food Science and Technology, University of the Philippines Los Banos, Laguna, Philippines

- 18. #612 FAGOPYRIN F CONTENT IN EXTRACTS FROM COMMON AND TARTARY BUCKWHEAT HULLS UNDER DIFFERENT EXTRACTION CONDITIONS**

Youngseo Yoon * , Minjung Park, Jaecheol Kim

Department of Food and Nutrition, College of Natural Science, Sungshin Women's University, Seoul, Republic of Korea

- 19. #631 UNRAVELING IRON–STARCH COORDINATION IN FORTIFIED RICE FLOUR SYSTEMS VIA VIBRATIONAL SPECTROSCOPY**

Guiller Sarmenta * ¹, Kathrina Lois Taaca², Glenn Vincent Ong³, Nese Sreenivasulu³, Aldrin Bonto⁴

¹ Department of Chemistry and Biochemistry, College of Allied Sciences, De La Salle Medical and Health Sciences Institute, Dasmariñas City, Cavite 4114, Philippines ² Department of Mining, Metallurgical and Materials Engineering, College of Engineering, University of the Philippines Diliman, Quezon City 1101, Philippines ³ Consumer-driven Grain Quality and Nutrition Unit, Rice Breeding and Innovations Cluster, International Rice Research Institute, Los Baños 4030, Philippines ⁴ Department of Chemistry, De La Salle University, 2401 Taft Avenue, Manila 0922, Philippines

- 20. #641 ESTABLISHMENT OF OPTIMAL EXTRACTION CONDITIONS FOR PLATYCODON GRANDIFLORUS ROOT USING BBD-RSM**

SEONG-JOON CHO * , Dong-Min Kang, Woo-Jin Jeong, Yu Bin Lee, Mi-Jeong Ahn

College of Pharmacy and Research Institute of Pharmaceutical Sciences, Gyeongsang National University, Jinju 52828, Korea

- 21. #714 CHEMICAL AND TECHNO-FUNCTIONAL CHARACTERIZATION OF AVOCADO, MAIZE, AND AGAVE BY-PRODUCTS FOR CLEAN-LABEL APPLICATIONS**

Fabio Macías-Gallardo¹, Cesar Ozuna¹, Amparo Quiles², Isabel Hernando *

² ¹ Food Department, Universidad de Guanajuato, Irapuato, Mexico ² Food Microstructure and Chemistry Research Group, Instituto Universitario de Ingeniería de Alimentos FoodUPV, Universitat Politècnica de València, Valencia, Spain

- 22. #725 TEMPERATURE-DRIVEN MOLECULAR INTERACTIONS GOVERNING STABILITY OF FUNCTIONAL MILK BEVERAGES**

ENRICHED WITH AUSTRALIAN NATIVE FRUIT AND HERBAL PIGMENTS

Dilema Wijegunawardhana * , Mayumi Silva, Jayani Chandrapala

Department of Food Technology and Nutrition, School of Science, RMIT University, Melbourne, Australia

- 23. #727 WEAK-BASE SYNCHRONOUS MEMBRANE SEPARATION: A GREEN STRATEGY FOR ENHANCING EMULSIFICATION STABILITY OF SOY PROTEIN ISOLATE BY REGULATING INTERFACIAL FLEXIBILITY**

jiaqi shao * , dengfeng peng, qianchun deng Oil Crops Research

Institute, Chinese Academy of Agricultural Sciences, Wuhan, Hubei, P.R. China

- 24. #734 MOLECULAR MECHANISM OF TRANSMEMBRANE TRANSPORT AND HIGH-EFFICIENCY STABLE DELIVERY OF CAROTENOIDS INDUCED BY THE INTERFACE OF NATURAL FLAXSEED OIL BODIES AS A CARRIER**

shan zhang * , yashu chen, qianchun deng Oil Crops Research

Institute, Chinese Academy of Agricultural Sciences, Wuhan, Hubei, PR China

- 25. #789 VARIABILITY IN THE PUN1 LOCUS IN CAPSICUM GERMPLASM**

Paulo Sergio Lourenco Freitas * Freitas P.S.L, Teixeira M.L.D.B, Polli B.S.M, Contiero R. L., Gonela A.

- 26. #803 IDENTIFICATION OF CONGENERS IN IRISH WHISKEY MATURING IN DIFFERENT TYPES OF CASKS**

Tereza W. Ng'ambi * ¹, Maria Kyrleou², Kieran N. Kilcawley³, Christine O'Connor⁴

¹ Sustainability & Health Research Hub, Technological University Dublin, Dublin Ireland, School of Food Science & Environmental Health, Technological University Dublin, Dublin, Ireland ² Sustainability & Health Research Hub, Technological University Dublin, Dublin Ireland, Food Quality & Sensory Science Department, Teagasc Food Research Centre, Co. Cork, Ireland, School of Food Science & Environmental Health, Technological University Dublin ³ Food Quality & Sensory Science Department, Teagasc Food Research Centre, Co. Cork Ireland, School of Food Science & Environmental Health, Technological University Dublin, Dublin, Ireland ⁴ School of Food Science & Environmental Health, Technological University Dublin, Dublin, Ireland

- 27. #819 VOLATILE PROFILE AND SENSORY CHARACTERISATION OF MANIPUEIRA SELVAGEM, AN EMERGING BRAZILIAN WILD-FERMENTED CASSAVA BEER**

Amanda Felipe Reitenbach * ¹, Ana Carolina Broch¹, Luciane Effting², Grace Ferreira Ghesti¹

¹ Institute of Chemistry – LMCerva Laboratory University of Brasília, Brasília, DF, BRAZIL ² Institute of Chemistry – UFRGS, RS, BRAZIL

28. #842 VERIFICATION OF THE ANALYTICAL METHOD FOR 14 TYPES OF PHTHALATES IN FOOD USING GC-MS

min jeong seo * ¹, Ji-hyun Lee¹, Ji-yeon Lee², Sung-Ok Kwon³, Gae-ho Lee¹

¹ Korea Research Institute of Analytical Technology ² Korea Health Industry Development Institute, Republic of Korea ³ Department of Food and Nutrition, Seoul National University, Gwanak-ro 1, Gwanak-gu, Seoul 08826, Republic of Korea

29. #876 EVALUATING THE FUNCTIONALITY OF A RAPID ON SITE COLORMETRIC DEVICE FOR DETECTION OF SUDAN IV DYE ADULTRATION IN PALM OIL

Promise Ogbonna *

National Agency for Food and Drug Administration and Control.

30. #896 POLYCYCLIC AROMATIC HYDROCARBONS IN CACAO PRODUCTS: PROFILES AND ASSOCIATED HEALTH RISKS

Jannelle Cristobal * ¹, Jonah Bondoc¹, Charita Kwan¹, Benelyn Dumelod²

¹ Natural Sciences Research Institute, University of the Philippines Diliman, Diliman, Quezon City 1101, Philippines ² Department of Food Science and Nutrition, College of Home Economics, University of the Philippines Diliman, Diliman, Quezon City 1101, Philippines

31. #931 EFFECTS OF PRETREATMENTS ON THE PHYSICOCHEMICAL PROPERTIES AND PROXIMATE COMPOSITION OF VACUUM FREEZE-DRIED MAKAPUNO COCONUT (COCOS NUCIFERA VAR. MAKAPUNO))

Rei Chelsey Eusebio * , Dennis Cantre, Adeliza Dorado, Bernadeth Balonga, Hannah Mae Cauilan

Institute of Food Science and Technology (IFST), University of the Philippines Los Baños, Laguna 4031, Philippines

32. #955 DETERMINATION OF BIOTIN CONTENT IN VEGETABLES AND MUSHROOMS COMMONLY CONSUMED IN KOREA

Daeyoon Kang * , Sujong Park, Seulbi Seo, Younghwa Kim

Department of Food Science and Biotechnology, BB21plus project, Kyungsung University, Busan, 48434, Republic of Korea

33. #958 INFLUENCE OF CONTINUOUS AND CYCLIC HYDROTHERMAL ANNEALING ON THE THERMAL, PASTING, MORPHOLOGICAL, AND STRUCTURAL PROPERTIES OF BEAN STARCH

Tayla Danieli Lopes Dias¹, Michelle de Paula Cardozo¹, Ivo Mottin Demiate¹, Meng Wai Woo², Luiz Gustavo Lacerda *

¹ ¹ State University of Ponta Grossa, Food Engineering Department, Ponta Grossa, Brazil. ² University of Auckland, Department of Chemical & Materials Engineering, Auckland, New Zealand.

34. #999 ANALYSIS OF PROTEINACEOUS COMPONENTS AND BIOACTIVITIES IN THE BOILED EXTRACT OF SKIPJACK TUNA SAWDUST

China Minoshima *¹, Megumi Hosokawa¹, Mami Yamazaki¹, Ryo Sawada², Yasutaka Shigemura³

¹ Graduate School of Health and Nutrition, Tokyo Kasei University, Tokyo, Japan ² Kyokuyo Co. Ltd., Miyagi, Japan ³ Department of Nutrition, Tokyo Kasei University, Tokyo, Japan

35. #1037 RATIONAL DESIGN AND AI-DUIDED EVOLUTIONARY ENGINEERING OF CAS12J-8 FOR RAPID FLUORESCENCE DETECTION OF CRONOBACTER SAKAZAKII IN DAIRY PRODUCTS

Yunpeng Jiang * , Xiong Ding

Key Laboratory of Environmental Medicine and Engineering, Ministry of Education, and Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing, China

36. #1061 AN INTEGRATED AUTOMATED DISPERSIVE LIQUID-LIQUID MICROEXTRACTION WORKFLOW FOR VOLATILE ANALYSIS OF JAPANESE MANDARIN JUICES

Lingyi Li *¹, Gwen Sin Yee Lim², Lay Peng Tan³, Shao Quan Liu¹, Bin Yu⁴

¹ Department of Food Science and Technology, National University of Singapore, S14 Level 5, Science Drive 2, Singapore, 117542 ² CTC Analytics Asia Pte Ltd, ⁴¹ Science Park Road, #04-03B The Gemini, Singapore, 117610 ³ Agilent Technologies Singapore (Sales) Pte Ltd, ¹ Yishun Avenue 7, Singapore, 768923 ⁴ Mane SEA Pte Ltd, ³ Biopolis Drive, #07-17/18/19 Synapse, Singapore, 138623

37. #1135 CHEMICAL DIVERSITY OF NATIVE BRAZILIAN VANILLA SPECIES AND THEIR DIFFERENTIATION FROM COMMERCIAL VANILLA VARIETIES

Clara Katharina Vaz da Silva *¹, Diego Coelho Barroso dos Santos¹, Amanda Felipe Reitenbach¹, Talita Souza Carmo², Grace Ferreira Ghesti¹

¹ University of Brasília, Chemistry Institute - Brasília, Brazil. ² University of Brasília (UnB), Institute of Biological Sciences (IB) - Brasília, Brazil.

38. #1151 BOTANIC ASPECTS OF THE LEAVES AND CHEMICAL CONSTITUENTS IN THE ESSENTIAL OIL FROM TWO VARIETIES OF BASIL (OCIMUM SPP) GROWN IN BRAZIL

Robinson Luiz Contiero * , Paulo Sérgio Lourenço de Freitas, Roberto Kenji Nakamura Cuman

Universidade Estadual de Maringá

39. #1153 QUALITY OF OLIVE OILS AND OLIVE BAGASSE OIL AND THEIR USE IN THERMAL PROCESSES

Robinson Contiero * , Cassia Inês Lourenzi Franco Rosa

Universidade Estadual de Maringá

40. #1180 ORANGE JUICE ENRICHED WITH DEFECTIVE COFFEE EXTRACT AND THE EFFECT OF PASTEURIZATION

Sarah de Medeiros Pinheiro Souza *¹, Lidiane Bataglia Silva², Gisele Anne Camargo², Juliana Alves Macedo¹

¹ Food Science and Nutrition Department, Universidade Estadual de Campinas ² Institute of Food Technology (ITAL)

41. #1186 TWO-STAGE MIXED-DYE-BASED ISOTHERMAL AMPLIFICATION WITH RIBONUCLEASE-CLEAVABLE ENHANCED PROBES FOR DUAL-VISUALIZATION DETECTION OF SARS-COV-2 VARIANTS OF INTEREST

Yaru Wang * , Xiong Ding

Key Laboratory of Environmental Medicine and Engineering, Ministry of Education, and Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing, China

42. #1187 RNASE H2-MEDIATED ISOTHERMAL AMPLIFICATION COUPLED WITH CRISPR-CAS12B FOR RAPID DETECTION OF COMMON AQUACULTURE VIRUSES

Lanxiang Zhang * , Xiong Ding

Key Laboratory of Environmental Medicine and Engineering, Ministry of Education, and Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing, China

43. #1200 OPTIMIZATION OF PROLINE–CITRIC ACID NATURAL DEEP EUTECTIC SOLVENT FOR ULTRASOUND-ASSISTED RECOVERY OF FLAVANONES FROM ORANGE PEEL WASTE

Liping Fan * ¹, Nichakorn Khondee², Shiming Li³, Monthana Weerawatanakorn¹

¹ Department of Agro-Industry, Faculty of Agriculture, Natural Resources and Environment Naresuan University, ⁹⁹ Moo 9, Tha Pho, Phitsanulok 65000, Thailand ² Department of Natural Resources and Environment, Faculty of Agriculture, Natural Resources and Environment, Naresuan University, ⁹⁹ Moo 9, Tha Pho, Phitsanulok, Thailand ³ Department of Food Science, Rutgers University, New Brunswick, New Jersey 08901, USA

44. #1283 DEVELOPMENT OF A NATIONAL VITAMIN B6 DATABASE THROUGH COMPREHENSIVE ANALYSIS OF PYRIDOXINE, PYRIDOXAL, AND PYRIDOXAMINE IN KOREAN FOODS

Minyoung Je * , Soyeon Joo, Jun-Yeol Park, Chae-Ryeong Kang, Jiyeon Chun

Department of Food Science and Technology, Sunchon National University, Suncheon, Republic of Korea

45. #1324 AROMA CHARACTERISTICS OF GRILLED SQUID EXTRACTS OBTAINED BY SUPERCRITICAL CARBON DIOXIDE AND SUBCRITICAL WATER EXTRACTION METHODS

Yuka Mori * , Risa Ishizuka, Akimasa Hatanaka

Central Research Laboratory, Nissui Corporation, 1-32-3, Nanakuni, Hachioji-shi, Tokyo 192-0991, Japan

- 46. #1361 AN ULTRASENSITIVE STRATEGY FOR MILK ALLERGEN MONITORING BY INTEGRATING MAGNETIC ENRICHMENT AND DNAZYME-ASSISTED ELECTROCHEMICAL**

YAJIE TANG * ¹, JIN WANG²

¹ Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing, China ² Department of Bioresource Engineering, McGill University, Quebec, Canada

- 47. #1367 AN ULTRASENSITIVE STRATEGY FOR MILK ALLERGEN MONITORING BY INTEGRATING MAGNETIC ENRICHMENT AND DNAZYME-ASSISTED ELECTROCHEMICAL**

YAJIE TANG *

Key Laboratory of Environmental Medicine and Engineering, Ministry of Education, and Department of Nutrition and Food Hygiene, S

- 48. #1373 RATIOMETRIC SELF-CALIBRATING CONDUCTIVE HYDROGEN-BONDED ORGANIC FRAMEWORK FOR RELIABLE ARA H 1 BIOSENSING**

Maojie Hu * , Youfa Wang

School of Public Health, Southeast University, Nanjing, Jiangsu, China

- 49. #1423 OPTIMIZATION OF EXTRACTION CONDITIONS FOR BIOACTIVE COMPOUNDS FROM PLATYCODON GRANDIFLORUS ROOT USING BBD-RSM**

Yu Bin Lee * , Seong-Joon Cho, Dong-Min Kang, Woo-Jin Jeong, Mi-Jeong Ahn

College of Pharmacy and Research Institute of Pharmaceutical Sciences, Gyeongsang National University, Jinju 52828, Korea

- 50. #1437 INTEGRATED METABOLOMICS AND LIPIDOMICS ENABLE AUTHENTICATION OF ORGANIC LEAFY VEGETABLES ACROSS CULTIVATION SYSTEMS**

KA YI MAN * ¹, Francesco Capozzi², Kevin Wing-Hin Kwok³, Daniel Kam-Wah Mok¹, Ka-Hing Wong³

¹ Department of Food Science and Nutrition, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong, China ² Department of Agricultural and Food Sciences, Alma Mater Studiorum –University of Bologna, Piazza Goidanich 60, 47521 Cesena FC, Italy ³ Department of Food Science and Nutrition & Research Institute for Future Food, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong, China

- 51. #1530 REGIONAL AND SEASONAL VARIATION IN PHYSICOCHEMICAL CHARACTERISTICS OF PHILIPPINE**

CALAMANSI JUICE: AN EXPLORATORY PRINCIPAL COMPONENT ANALYSIS

Michelle Evaristo, Stanly Adams Jocson, Christian Niamey Cortado, Carmelita Umali

Department of Science and Technology, Industrial Technology Development Institute,

- 52. #1482 PHYTOCHEMICAL CHARACTERIZATION AND BIOACTIVE POTENTIAL OF THE ENDEMIC BROWN MACROALGAE FUCUS VIRSOIDES**

Krunoslav Aladić * ¹, Marta Lores², Aly Castillo², Snježana Keleković¹, Kristina Perišić¹, Stela Jokić¹

¹ Josip Juraj Strossmayer University of Osijek, Faculty of Food Technology Osijek, Franje Kuhača 18, 31000 Osijek, Croatia ² LIDSA, Department of Analytical Chemistry, Nutrition and Food Science, Universidade de Santiago de Compostela, E-15782, Santiago de Compostela, Spain

- 53. #1562 MILPA TORTILLAS: BIOACTIVE COMPOUNDS AND ANTIOXIDANT EFFECT IN OVARECTOMIZED FEMALE C57BL/6 MICE**

Román Cardona-Herrera*¹ Esther Pérez-Carrillo² Elena Franco-Robles¹ César Ozuna¹

¹Universidad de Guanajuato, Mexico; ²Tecnológico de Monterrey, Mexico

- 54. #1221 PHYSICOCHEMICAL CHARACTERISTICS OF NANOVESICLES DERIVED FROM WHITE ROSE FLOWER ACCORDING TO PRETREATMENT CONDITIONS**

DO YOUNG AN * ¹, Heon Sang Jeong¹, Yun Bae Kim², Yun Jo Jung¹, Ga On Park¹

Department of Food Science and Biotechnology, Chungbuk National University, Republic of Korea

Flavor Chemistry and Sensory Science

- 55. #18 SENSORY CHARACTERIZATION AND STABILITY OF IRON-FORTIFIED SPICED COCONUT (COCOS NUCIFERA) WATER VINEGAR IN DIFFERENT STORAGE TIMES AND PACKAGING MATERIALS**

Abbie Padrones, Gyle Tampil * , Maricar Albao, Cyrho Sumera, Trinidad Il Arcangel

Food and Nutrition Research Institute, Department of Science and Technology, Taguig City, National Capital Region, 1630 Philippines

- 56. #133 A METHOD TO GENERATE ANIMAL-BASED BROTH-LIKE FLAVORS FROM SOY PROTEIN VIA COMBINED PROTEASE AND MAILLARD REACTIONS**

Kosaku Nishimura * , Tatsuya Abe Toyō

*Institute of Food Technology, Research Department, Kawanishi City,
Hyogo Prefecture, Japan*

57. #217 SOFTENING TRADITIONS: SENSORY PROFILING OF TEXTURED MODIFIED PULUT HITAM DESSERT

**Christine Hui Qin Goh * , Xiaoqing Lin, Mei Yin Wang, Jorry Dharmawan,
Verena Ming Hui Tan Singapore**

Institute of Technology

58. #222 AROMA CHARACTERISTICS OF GRILLED SQUID EXTRACTS OBTAINED BY SUPERCRITICAL CARBON DIOXIDE AND SUBCRITICAL WATER EXTRACTION

Yuka Mori * , Risa Ishizuka, Akimasa Hatanaka

Central Research Laboratory, Tokyo Innovation Center, Nissui Corporation, 1-32-3, Nanakuni, Hachioji-shi, Tokyo 192-0991, Japan

59. #333 CONSUMER PREFERENCES TOWARDS THE EUROPEAN FLAT OYSTER (OSTREA EDULIS) FROM INTEGRATED MULTI-TROPHIC AQUACULTURE (IMTA)

Elena Dujmić¹, Nada Vahčić², Jelka Pleadin³, Snježana Zrnčić⁴, Greta Kresic *

¹ Faculty of Tourism and Hospitality Management, University of Rijeka, Primorska 46, P.O. Box 97, 51410 Opatija, Croatia ² University of Zagreb Faculty of Food Technology and Biotechnology, Pierottijeva 6, 10000 Zagreb, Croatia ³ Laboratory for Analytical Chemistry, Croatian Veterinary Institute, Savska Cesta 143, 10000 Zagreb, Croatia ⁴ Laboratory for Aquatic Animal Diseases, Croatian Veterinary Institute, Savska Cesta 143, 10000 Zagreb, Croatia

60. #407 FROM CONSUMER IDEAL TO SWEET POTENCY DETERMINATION: SWEETNESS OPTIMIZATION OF NATURAL SWEETENERS IN A CHOCOLATE-FLAVORED TARWI (LUPINUS MUTABILIS) BEVERAGE

Maricielo Sanchez Alvarez * , Alessandra Cazelatto de Medeiros, Helena Maria Andre Bolini

State University of Campinas. School of Food Engineering. Campinas, SP - Brasil

61. #660 EXPLORING CONSUMER PERCEPTION ACROSS ITALY AND JAPAN: A CROSS-CULTURAL STUDY ON FUNCTIONAL PASTA

Francesca Sileoni¹, Francesca Pompei * ², Matteo Bonfini¹, Masaki Ohno³, Elena Vittadini¹

¹ School of Biosciences and Veterinary Medicine, University of Camerino ² School of Pharmacy, Chemistry Interdisciplinary Project (ChIP), University of Camerino ³ Graduate School of Gastronomy Management, Ritsumeikan University

62. #723 BITTERNESS AND METALLIC AFTERTASTE REDUCTION IN LOW SODIUM POTASSIUM CHLORIDE SEASONING USING YEAST EXTRACT AND PEPTIDE RICH INGREDIENTS

**HYEONGJUN KIM, YOSEPH CHO * , JUYONG SIM, HYEONJI SIM,
SANGHYUN LEE**

Department of Food Nutrition and Engineering, Inje University

- 63. #1171 CAROTENOID DEGRADATION AND DERIVED VOLATILE
FORMATION DURING LONG-TERM TEA AGING**

*Li Ni * , Wen Zhang, Wangxin Liu Fuzhou University*

- 64. #1256 CHARACTERIZATION OF THE TEMPORAL SENSORY
PERCEPTION OF FERMENTED AND UNFERMENTED RUBUS
ROSIFOLIUS SM. USING TEMPORAL DOMINANCE OF
SENSATIONS**

Althea Louise Velasco * , Rona Camille Lizardo-Agustin

*Institute of Food Science and Technology, College of Agriculture and
Food Science, University of the Philippines Los Baños, College, 4031
Laguna, Philippines*

- 65. #1405 CONSUMER SEGMENTS, AWARENESS, AND BARRIERS TO
SOY YOGURT ADOPTION IN NORTHERN VIETNAM**

**Quyen Nguyen Thi * ¹, Phuong Tang Nam², Kim Moens¹, Koen
Dewettinck¹, Dinh Tran Thi²**

*¹ Food Structure and Function Research Group – Department of Food
Technology - Safety and Health – Ghent University – Ghent 9000 –
Belgium ² Faculty of Food Science and Technology- Vietnam National
University of Agriculture - Hanoi 10000- Vietnam*

- 66. #1406 TURN IT DOWN TO EAT MORE HEALTHILY**

Shucheng Cao, Lei Zheng * Macau

University of Science and Technology

- 67. #1419 CHEMICAL BASIS OF FLAVOR VARIATION AMONG
DIFFERENT COMMERCIAL BRANDS OF TROTTER SOUP
REVEALED BY INTEGRATED AROMA, TASTE, AND SENSORY
ANALYSES**

Fangkun Yu, Dequan Zhang, Hong Chen, Caiyan Huang *

*Institute of Urban Agriculture, Chinese Academy of Agricultural
Sciences, Chengdu, National Agricultural Science and Technology
Center, Chengdu, 610213, China*

- 68. #1427 DEVELOPMENT OF PLANT-BASED SEAFOOD
ALTERNATIVES USING HIGH MOISTURE EXTRUSION AND
SECOND-STAGE PROCESSING**

Shang-Wen Chung * , Chung-I Hung, Li-Wei Lin, Jenshinn Lin

*Department of Food Science, National Pingtung University of Science
and Technology, Pingtung County, Taiwan*

- 69. #1509 CUTTING SALT WITHOUT LOSING FLAVOR: HOW
SEAWEED-DERIVED UMAMI CAN IMPROVE HEALTHIER FOODS**

VANNIZSA RAMAS, FRANKIE LYCURGUS AVORQUE, CZARLYN APRIL JOY MENDOZA-CELA * , CARISSA SALDAÑA-TANDA, ALLEN JASPER DIÑO, KRISTINE NACIONALES, FILOTEO PONTE

DOST-Food and Nutrition Research Institute, Bicutan, Taguig City, Metromanila, Philippines 1630

Color and Pigments in Food Systems

70. #245 IDENTIFICATION OF THE BETALAIN PROFILE IN PITAYA (STENOCEREUS SP.) AND EVALUATION OF ITS STABILITY UNDER THE EFFECT OF TEMPERATURE

Clara Cervantes-Arista * ¹, Daniel Trujillo-Ramírez¹, María Guadalupe Bustos-Vázquez¹, Angélica Román-Guerrero², Gloria Trejo-Aguilar²

¹ Biotechnology Laboratory, Autonomous University of Tamaulipas, Multidisciplinary Academic Campus, Mante, Tamaulipas, Mexico ² Department of Biotechnology, Metropolitan Autonomous University, Iztapalapa Campus, Mexico City, Mexico

71. #793 PIGMENTS FROM RHODOTORULA MUCILAGINOSA TO INCREASE QUALITY AND FUNCTIONALITY OF FERMENTED CHICKPEA BASED HUMMUS

Francesca Patrignani * , Sona Hajiyeva, Lorenzo Siroli, Davide Gottardi, Rosalba Lanciotti

Alma Mater Studiorum-University of Bologna, Department of Agricultural and food Sciences

72. #932 THE TOXIC GLOW: SCREENING FOR ILLEGAL COLOUR ADULTERATION IN COMMERCIAL TURMERIC POWDER WITHIN THE SRI LANKAN MARKET

D.R.I. Udeshini * , K.D.W. Panchami

Government Analyst's Department, Battaramulla, Sri Lanka

73. #1004 EVALUATION OF THE EFFECT OF DIFFERENT PROCESSING METHODS ON COLOR CHARACTERISTICS AND PHYTOCHEMICAL PROPERTIES OF SAPINIT

Antonio Jr Palomeno * , Casiana Blanca Villarino

Department of Food Science and Nutrition, College of Home Economics, University of the Philippines Diliman, Quezon City 1101, Philippines

74. #1143 TECHNOLOGICAL PROSPECTION OF MICROBIAL CAROTENOID PRODUCTION FROM CRUDE GLYCEROL FOR NATURAL FOOD COLORANTS

MARIA LUA DOS REIS BENTO¹, Giovanna Esperidião dos Santos Pereira¹, Talita Souza Carmo *

² ¹ University of Brasília, Chemistry Institute - Brasília, Brazil. ² University of Brasília, Institute of Biological Sciences — Brasília, Brazil.

75. #1468 CAROTENOID DIVERSITY IN ETHIOPIAN PLANT FOODS: EXPANDING FOOD COMPOSITION DATA FOR NUTRITION AND FOOD SYSTEMS

Endale Amare Kifle * ¹, Nigat Ashenafi¹, Getachew Tollera¹, Alex McAlvay², Masresha Tessema¹

¹ *Nutrition, Environmental Health and Non-communicable Diseases Research Directorate, Ethiopian Public Health Institute, Addis Ababa, Ethiopia* ² *New York Botanical Garden*

Texture, Rheology, and Material Properties of Foods

76. #87 AQUEOUS EXTRACTION OPTIMISATION OF OKRA (ABELMOSCHUS ESCULENTUS) MUCILAGE FOR FOOD PROCESSING APPLICATIONS: RHEOLOGICAL, FTIR, AND TGA CHARACTERISATION

Nelly Virginia Nkosi * ¹, Prof. Frederick Tabit²

¹ *PhD student* ² *Supervisor*

77. #155 MODULATING STARCH RETROGRADATION IN FRESH RICE-BASED NOODLES: EFFECTS OF HYDROCOLLOIDS AND EMULSIFIERS ON TEXTURAL STABILITY DURING STORAGE

Evelyn Goh * , Tan Yu An, Candy, Janit Thapa Magar, Timothy Lim Hong Le Temasek Polytechnic

78. #201 LOW-ACYL GELLAN GUM FOR STRUCTURING GLUCONO- Δ -LACTONE TRIGGERED COLD-SET EMULSION GELS

Tan-Ying Wang * ¹, Canice Chun-Yin Yiu¹, Carol Yan², Yong Wang¹, Cordelia Selomulya¹

¹ *School of Chemical Engineering, UNSW Sydney, NSW 2052, Australia*

² *Electron Microscope Unit, Mark Wainwright Analytical Centre, University of New South Wales, Sydney, NSW 2052, Australia*

79. #371 THREE-DIMENSIONAL PRINTED SWEET POTATO TEETHING SNACKS: TUNING TEXTURE WITH HYDROXYPROPYL METHYLCELLULOSE

Myra Aslam Qureshi * , Haosong ZHONG, Cuiyun YANG, Mitch Guijun Li
Department of Integrative Systems and Design, The Hong Kong University of Science and Technology, Clear Water Bay, Hong Kong SAR, China

80. #409 REGULATORY EFFECTS OF ULTRASONICATED POLYSACCHARIDES ON FISH PROTEIN CONFORMATION AND FUNCTIONAL PROPERTIES

Nan Lin * ¹, Divya Aggarwal², Da-Wen Sun³, Brijesh Tiwari⁴

¹ *Department of Food Chemistry and Technology, Teagasc Food Research Centre, Ashtown, Dublin, Ireland; Food Refrigeration and Computerized Food Technology (FRCFT), Agriculture and Food Science Centre, University College Dublin, National University of Ireland* ² *Department of Food Chemistry and Technology, Teagasc Food Research Centre, Ashtown, Dublin, Ireland; Department of Land Sciences, School of Science and Computing, South East Technological University, Cork Road, X91 K0EK, Waterford, Ireland* ³ *Food Refrigeration and Computerized Food Technology (FRCFT), Agriculture*

and Food Science Centre, University College Dublin, National University of Ireland, Belfield, Dublin 4, Ireland ⁴ *Department of Food Chemistry and Technology, Teagasc Food Research Centre, Ashtown, Dublin, Ireland*

81. **#457 EFFECT OF GELLING AGENT COMPOSITION ON RHEOLOGICAL PROPERTIES AND EXTRUDABILITY OF JELLY INKS FOR THREE-DIMENSIONAL FOOD PRINTING**

Wonyeong Park * ¹, Hae Jin Park¹, Jin-Kyu Rhee², Jieun Oh³

¹ *Department of Nutritional Science and Food Management, Ewha Womans University, Seoul, Republic of Korea* ² *Department of Food Science and Biotechnology, Ewha Womans University, Seoul, Republic of Korea* ³ *College of Science and Industry Convergence, Ewha Womans University, Seoul, Republic of Korea*

82. **#555 3D-PRINTED CHOCOLATE FOR DYSPHAGIA: HYDROCOLLOID-ENHANCED RHEOLOGY, TEXTURE AND PRINTABILITY**

Arianna Dick * , Carolyn Mejares, Sandra Kai Chin Low, Wan Rou Leow
School of Science, RMIT University, Melbourne, Australia

83. **#632 COMPOSITION AND THERMAL PROPERTIES OF PHILIPPINE CACAO-BASED DARK CHOCOLATE ENRICHED WITH LACTIPLANTIBACILLUS PLANTARUM**

Czarina Corine Topacio * , Romeo Jamey Yaquin Jr., Florabelle Querubin, Maria Carmen Tan, Aldrin Bonto De La Salle
University

84. **#653 A NOVEL GREEN AND EFFICIENT METHOD FOR CHIA SEED MUCILAGE EXTRACTION: PHYSICO-CHEMICAL PROPERTIES AND FUNCTIONAL CHARACTERISTICS**

ZEWEL WU *

Department of Food Science & Technology, National University of Singapore, ² Science Drive 2, Singapore 117542, Singapore

85. **#662 EFFECT OF SWEETENER TYPE AND PROTEIN COMPOSITION ON THE QUALITY CHARACTERISTICS OF HIGH-PROTEIN BAR” EMPHASIS ON PROTEIN-SWEETENER INTERACTIONS**

Jihee Choo * ¹, Hae Jin Park¹, Sehyun Joo¹, Wonyeong Park¹, Jieun Oh²

¹ *Department of Nutritional Science and Food Management, Ewha Womans University, Korea* ² *College of Science & Industry Convergence, Ewha Womans University, Korea*

86. **#708 PHYSICAL, RHEOLOGICAL AND MICROSTRUCTURAL PROPERTIES OF GRAPE POMACE-BASED EMULSION GELS FOR THE DEVELOPMENT OF REDUCED-FAT FOOD SYSTEMS**

Samuel Rodríguez¹, Teresa Sanz², Amparo Quiles¹, Isabel Hernando *

¹ ¹ Food Microstructure and Chemistry Research Group, FoodUPV, Universitat Politècnica de València, Valencia, Spain ² Group of Physical and Sensory Properties of Food. Instituto de Agroquímica y Tecnología de Alimentos (IATA-CSIC), Paterna, Valencia, Spain

87. #710 OPTIMISING EMULSION STABILITY IN POTATO PROTEIN SYSTEMS: ROLES OF POLYSACCHARIDES IN INTERFACIAL AND RHEOLOGICAL BEHAVIOURS

Tianqi Shang * ¹, Meng Wai Woo², Siew-Young Quek¹

¹ School of Chemical Sciences, The University of Auckland, Auckland, New Zealand ² Department of Chemical and Material Engineering, The University of Auckland, Auckland, New Zealand

88. #925 LOW METHOXYL PECTIN GELATIN SCAFFOLDS FOR ANIMAL FAT TISSUE MIMICS

Haowen Zhu * , Dejian Huang

Department of Food Science and Technology, National University of Singapore, ² Science Drive 2, Singapore 117542, Singapore, Bezos Centre for Sustainable Protein, National University of Singapore, ² Science Drive 2, Singapore 117542, Singapore

89. #982 INTERCONNECTED PLANT-BASED MEAT AND FAT ANALOGUES VIA DOUBLE-NETWORK EMULSION GELS

Canice Chun-Yin Yiu * , Yong Wang, Cordelia Selomulya

School of Chemical Engineering, The University of New South Wales, NSW, 2052, Australia

90. #1090 UPCYCLED INSOLUBLE FIBROUS POLLOCK SKIN POWDER AS A NOVEL REINFORCING FILLER FOR SOY PROTEIN ISOLATE-BASED THREE-DIMENSIONAL FOOD PRINTING INKS

Haran Jo * ¹, Ju Young Kim¹, Sin-Won Park¹, Ji-Eun Bae², Sang Gil Lee³

¹ Department of Smart Green Technology Engineering at Pukyong National University (Republic of Korea) ² Department of Food Science and Nutrition at the College of Fisheries Science of Pukyong National University (Republic of Korea) ³ Department of Smart Green Technology Engineering at Pukyong National University (Republic of Korea), Department of Food Science and Nutrition at the College of Fisheries Science of Pukyong National University (Republic of Korea)

91. #1164 ENHANCING THE EMULSIFYING PROPERTIES OF MEALWORM (TENEBRIO MOLITOR) PROTEIN THROUGH ENZYMATIC HYDROLYSIS

Yu Ji Ye, Min Hyeock Lee *

Department of Biotechnology, College of Life Sciences and Biotechnology, Korea University, Republic of Korea

92. #1274 PREPARING CASSAVA STARCH-WHEY PROTEIN COMPOSITES THROUGH GENIPIN CROSSLINKING, AND

THERMAL PROCESSING: STRUCTURAL AND FUNCTIONAL IMPLICATIONS

Haleh Harati * , Stefan Kasapis, Asgar Farahnaky

Department of Food Technology and Nutrition, RMIT University, Melbourne, VIC, Australia

- 93. #1290 FLUENCE-DEPENDENT EFFECTS OF PULSED LIGHT ON FUNCTIONAL PROPERTIES OF AIR-CLASSIFIED NAVY BEAN PROTEIN CONCENTRATES**

Rania Marie Buenavista * , Yonghui Li, Sajid Alavi, Kaliramesh Siliveru

Department of Grain and Food Science, Kansas State University, Manhattan, Kansas, USA

- 94. #1291 A STUDY OF THE INCORPORATION OF FOXTAIL MILLET INTO THE BROWN-RICE PUFFED SNACKS**

Qandeel Zahra, Jenshinn Lin * National Pingtung

University of Science and Technology

- 95. #1320 CHALLENGES OF RECOMBINANT MILK PROTEINS: THE IMPORTANCE OF CASEIN PHOSPHORYLATION**

Fatemeh Mirpoor * ¹, Julia Maldonado-Valderrama², Afroditi Chatzifragkou¹, Dimitris Charalampopoulos¹

¹ Department of Food and Nutritional Sciences, University of Reading, Harry Nursten Building, Pepper Lane, Whiteknights, Reading RG6 6DZ, UK ² Department of Applied Physics, University of Granada, Campus de Fuentenueva sn 18071, Granada, Spain

- 96. #1473 STUDY ON THE TWIN-SCREW EXTRUSION OF EDAMAME FLOUR, SOY PROTEIN ISOLATE, AND CORN STARCH FOR A HIGH-MOISTURE MEAT ANALOG**

Sri Oktavia, Jenshinn Lin * National Pingtung

University of Science and Technology

- 97. #232 Olive Leaf Water Extract Enhances the Physical Properties of Pea Protein Gels through Covalent Crosslinking**

Lillah Zuhrotul Ukhro * 1, Toya Ishii², Masahiro Ogawa²

University of Science and Technology

- 98. #1561 EFFECT OF PECTIN ON EMULSIFYING PROPERTIES OF SOY PROTEIN ISOLATE: TAILORING EMULSION GEL INKS FOR 3D-PRINTED FOOD SYSTEM**

Muhammad Muntaqem Arain* ¹ Fengxia Liu¹

¹College of Food Science and Technology, Huazhong Agricultural University, Wuhan, Hubei, PR China

POSTER PRESENTATIONS

Theme : FOOD SAFETY , QUALITY, AND RISK COMMUNICATION

Date 27.10.2026

Time : 0830 - 1600

Venue : Hall 5

(Please note : Installation: 17:00-1800hrs (5.00pm-6.00pm) on 26 Oct 2026
Removal: 16:00-17:00hrs (4.00pm-5.00pm) on 27 Oct 2026)

Foodborne Pathogens and Prevention Strategies

99. #36 IMPROVE THE HYGIENE STATUS OF WASHER/WAXER BRUSH ROLLERS IN A CUSTOM-MADE PEACH PACKING LINE PROTOTYPE

Jinru Chen * , Yaxi Dai, Vondel Reyes Ortega, Kevin Mis Solval The
University of Georgia, USA

100. #37 FATE OF SALMONELLA ENTERICA IN SPROUTED PEANUT AND ALMOND BUTTER AFFECTED BY THE USE OF ELLAGITANNINS FROM AQUEOUS AND ETHANOLIC EXTRACTS OF POMEGRANATE PEELS

Jinru Chen * , Weifan Wu, Kevin Mis Solval The
University of Georgia, USA

101. #101 THE CHALLENGES OF FOOD SAFETY AND EMERGING CONTAMINANTS IN NIGERIA

Gregory Onwuka * Michael Okpara
University of Agriculture, Umudike, Abia State, Nigeria

102. #115 MULTI-OMICS INSIGHTS INTO SALMONELLA THERMAL RESISTANCE AT DIFFERENT WATER ACTIVITIES AND TEMPERATURES AND EVALUATION OF E. FAECIUM NRRL B-2354 AS A SURROGATE

Azka Batool, Xin Wang, Shuxiang Liu * College of Food Science, Sichuan Agricultural
University

103. #279 COLD PLASMA-MEDIATED INACTIVATION OF BACILLUS IN MILLET FLOUR: KINETICS, MECHANISMS, AND QUALITY IMPACTS

Jaspreet Kaur * , Dibakar Saha, Kanishka Bhunia
Agricultural and Food Engineering Department, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal, India

104. #453 COMPARATIVE EVALUATION OF PHAGE COCKTAILS AGAINST A BROAD RANGE OF FOODBORNE PATHOGENS

Xi Liu * , Yuechong Liu, Song Zhang, Tian Ding, Juhee Ahn Future Food Laboratory, Innovation Center of Yangtze River Delta, Zhejiang
University, Jiaxing, Zhejiang 314100, China

105. #461 ENVIRONMENTAL STRESS ADAPTATION AND PHENOTYPIC HETEROGENEITY IN SHRIMP-BORNE VIBRIO PARAHAEMOLYTICUS

Xiaoyu Wang * , Jiayi Zhang, Tian Ding, Xinyu Liao, Juhee Ahn Future Food Laboratory, Innovation Center of Yangtze River Delta, Zhejiang

University, Jiaxing, Zhejiang 314100, China

106. #535 FOOD-GRADE SYNTHESIZED BIFLAVONOIDS AS PROMISING ANTIMICROBIALS AGAINST METHICILLIN-RESISTANT STAPHYLOCOCCUS AUREUS

Siyu Chen * ¹, Chuyi Wang¹, Qiao Yuan², Shu-Sin Chng³, Dejian Huang^{1 1}

Department of Food Science and Technology, National University of Singapore, Singapore, Singapore ² School of Chemistry, Chemical Engineering and Biotechnology (CCEB), Nanyang Technological University, Singapore, Singapore ³ Department of Chemistry, National University of Singapore, Singapore, Singapore

107. #543 EVALUATION OF THE BACTERICIDAL EFFECTS OF OZONE ULTRAFINE BUBBLE WATER IN MODEL SYSTEMS AND FRESH VEGETABLES FOR APPLICATION IN JAPANESE PICKLES PRODUCTION

Satomi TSUTSUURA * ¹, Natsumi MITA¹, Tomoko YAMAGUCHI², Yutaka TERAOKA^{3 1} Faculty of Agriculture, Niigata

University, Niigata, Japan ² Faculty of Agriculture, Niigata University, Faculty of Education, Niigata University, Niigata, Japan ³ Division of Microbiology and Infectious Diseases, Niigata University Graduate School of Medicine, Dentistry and Health Sciences, Niigata, Japan

108. #591 IDENTIFICATION AND DETECTION OF VIBRIO CHOLERAЕ IN GREEN MUSSELS (PERNA VIRIDIS) FROM IDENTIFIED GROWING AREAS IN LUZON (PANGASINAN AND CAVITE) USING POLYMERASE CHAIN REACTION

Patricia Mae M. Lagazon * ¹, Abigail S. Rustia¹, Crisanto M. Lopez², Erniel B. Barrios³, Leslie Michelle M. Dalmacio^{4 1}

Department of Food Science and Nutrition, College of Home Economics, University of the Philippines Diliman, Quezon City, Metro Manila 1101 Philippines ² Microbiology Services Laboratory, Philippines Institute of Pure and Applied Chemistry, Quezon City 1108 Philippines ³ School of Business, Monash University Malaysia, Selangor, 47500 Bandar Sunway Selangor Darul Ehsan, Malaysia ⁴ College of Medicine, University of the Philippines Manila, Manila, Metro Manila 1000 Philippines

109. #595 BEYOND THE LAB: INTEGRATING ENVIRONMENTAL AND COMMUNITY DATA FOR ADAPTIVE MANAGEMENT OF VIBRIO PARAHAEMOLYTICUS AND VIBRIO CHOLERAЕ IN PHILIPPINE GREEN MUSSELS

Patricia Mae M. Lagazon * ¹, Abigail S. Rustia¹, Crisanto M. Lopez², Erniel B. Barrios³, Leslie Michelle M. Dalmacio^{4 1}

Department of Food Science and Nutrition, College of Home Economics, University of the Philippines Diliman, Quezon City, Metro Manila 1101 Philippines ² Department of Biology, School of Science and Engineering, Ateneo de Manila University, Quezon City, Metro Manila 1108 Philippines ³ School of Business, Monash University Malaysia, Selangor, 47500 Bandar Sunway Selangor Darul Ehsan, Malaysia ⁴ College of Medicine, University of the Philippines Manila, Manila, Metro Manila 1000 Philippines

110. #623 APPLICATION OF PLASMA CHILL SPRAY TECHNOLOGY FOR INACTIVATION OF ESCHERICHIA COLI BIOFILMS ON STAINLESS STEEL SURFACES

Roopesh Mohandas Syamaladevi *¹, Negar Ravash¹, Xianqin Yang^{2 1}

University of Alberta, Edmonton, Canada ² Agriculture and Agri-Food Canada

111. #638 CHASING MICROBIAL FOOTPRINTS

Sherlyn Ardison, Amanda Liyanage, Daniel A. Dias, Snehal R. Jadhav *

ARC Training Centre for Hyphenated Analytical Separation Technologies (HyTECH), Deakin Centre for Advanced Food Sciences, School of Exercise and Nutrition Sciences, Deakin University, 221 Burwood Highway, Burwood, VIC 3125 Australia

112. #695 GRAS BIOCONTROL FOR CULTURED MEAT: SELECTIVE ACTIVITY OF ANTIMICROBIAL FATTY ACIDS

Steven Leonardi * , Johnson Esua, Vinayak Ghat, Weibiao Zhou

Department of Food Science and Technology, National University of Singapore

113. #971 DIVERGENT COEVOLUTIONARY FATES OF ENVIRONMENTAL PHAGES AND ESCHERICHIA COLI: IMPLICATIONS FOR PHAGE-BASED BIOCONTROL IN FOOD SAFETY

Yiming Luo * , Lin Chen

Nanyang Technological University, China

114. #995 RATIONAL DESIGN AND AI-GUIDED EVOLUTIONARY ENGINEERING OF CAS12J-8 FOR RAPID FLUORESCENCE DETECTION OF CRONOBACTER SAKAZAKII IN DAIRY PRODUCTS

Yunpeng Jiang * , Xiong Ding

Key Laboratory of Environmental Medicine and Engineering, Ministry of Education, and Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing, China

115. #1332 ENVIRONMENTAL STRESS ADAPTATION AND PHENOTYPIC HETEROGENEITY IN SHRIMP-BORNE VIBRIO PARAHAEMOLYTICUS

Xiaoyu Wang * , Jiayi Zhang, Tian Ding, Xinyu Liao, Juhee Ahn

Innovation Center of Yangtze River Delta, Zhejiang University

116. #1547 INTEGRATED TRANSCRIPTOME AND REGULATORY NETWORK OF PSEUDOMONAS PLECOGLOSSICIDA REVEALS ADAPTIVE STRATEGIES AND CONSERVED VULNERABILITIES UNDER ENVIRONMENTAL CONDITIONS

Zhe Xie, Yibei Zhang, Qiyao Wang

State Key Laboratory of Bioreactor Engineering, East China University of Science and Technology, China

117. 1546 BACTERIAL ANTI-TOXIN HIGA REGULATES HOST INTESTINAL SEROTONIN HOMEOSTASIS IN A T6SS-DEPENDENT MANNER

Chunli Li

State Key Laboratory of Bioreactor Engineering, East China University of Science and Technology, China

- 118. #1542 MECHANISTIC INSIGHTS INTO SOLUTE-DEPENDENT SALMONELLA GROWTH KINETICS UNDER WATER ACTIVITY STRESS VIA WATER STATE CHARACTERIZATION AND TRANSCRIPTOMIC ANALYSIS**
Zheneng Sun*, Mohan Li, Shuxiang Liu
College of Food Science, Sichuan Agricultural University, China
- 119. #1538 SOUS VIDA PROCESSING AND SAFETY VALIDATION OF CHICKEN ADOBO AND BEEF RANDANG**
Monica Manalo, Maria Clarissa Manabat, Flores Bienvendio Jr.
Food Processing Division, Industrial Technology Development Institute, Department of Science and Technology, Philippines
- 120. #585 SUPPLY CHAIN VULNERABILITY ASSESSMENT FOR HEPATITIS A VIRUS IN PHILIPPINE OYSTERS AND MUSSELS: INFORMING RESILIENCE-BUILDING THROUGH MULTI-CRITERIA DECISION ANALYSIS**
Abigail S. Rustia * 1, Patricia Mae M. Lagazon¹, Leslie Michelle M. Dalmacio², Crisanto M. Lopez³, Erniel B. Barrios⁴
1Department of Food Science and Nutrition, College of Home Economics, University of the Philippines Diliman, Quezon City, Metro Manila 1101 Philippines
2College of Medicine, University of the Philippines Manila, Manila, Metro Manila 1000 Philippines
3Department of Biology, School of Science and Engineering, Ateneo de Manila University, Quezon City, Metro Manila 1108 Philippines
- 121. #1559 DIRECTED SENSING OF HOST FERRIC IRON BY AN ARCHETYPE HISTIDINE KINASE MEDIATES VIRULENCE OF AN ENTERIC PATHOGEN**
Yibei Zhang^{*1}, Qiyao Wang¹, Xiaohui Zhou²
¹ East China University of Science and Technology, China
² Southern University of Science and Technology, China
- 122. #1322 QUANTITATIVE FLOW-CYTOMETRIC EVIDENCE OF DIVERGENCE BETWEEN CULTURABILITY AND PHYSIOLOGICAL VIABILITY IN HIGH-PRESSURE-TREATED LISTERIA MONOCYTOGENES**
Anna Zadernowska^{*1}, Wioleta Chajęcka-Wierzchowska¹, Patryk Wiśniewski¹, Arkadiusz Zakrzewski¹
¹Department of Food Microbiology, Meat Technology and Chemistry. Faculty of Food Science. University of Warmia and Mazury in Olsztyn, Poland
- 123. #846 BIOFILM SURVIVAL OF LISTERIA MONOCYTOGENES AFTER HIGH-PRESSURE PROCESSING: IMPLICATIONS FOR FOOD SAFETY**
Anna Zadernowska^{*1}, Wioleta Chajęcka-Wierzchowska¹, Patryk Wiśniewski¹, Arkadiusz Zakrzewski¹
¹Department of Food Microbiology, Meat Technology and Chemistry. Faculty of Food Science. University of Warmia and Mazury in Olsztyn, Poland
- 124. # 1559 DIRECT SENSING OF HOST FERRIC IRON BY AN ARCHETYPE HISTIDINE KINASE MEDIATES VIRULENCE OF AN ENTERIC PATHOGEN**

Yibei Zhang^{*1} Qiyao Wang¹ Xiaohui Zhou²

¹East China University of Science and Technology; ²Southern University of Science and Technology

Safety Regulations & Global Harmonization

125. #1407 REGULATORY CONSIDERATIONS OF RECENTLY INDIVIDUALLY RECOGNIZED KOREAN HEALTH FUNCTIONAL FOOD INGREDIENTS WITH BIOAVAILABILITY-ENHANCING PROCESSING TECHNOLOGIES

Gyoung-Deuck Kim¹ Hae-yeon Lee¹ Eunju Kim¹

¹International Life Sciences Institute Korea, Seoul, Republic of Korea

126. #1527 ESTABLISHING CHEMICAL AND MICROBIOLOGICAL SAFETY AND QUALITY PARAMETERS FOR PHILIPPINE PEANUT BUTTER

Maria Clarissa Manabat *, Una Grace Dollete, Charles Feb Palla, Ana Rose Boqueo, Anna Katrina Loberiano

Industrial Technology Development Institute (ITDI), Department of Science and Technology (DOST), Bicutan, Taguig City 1631, Philippines

127. #557 OSMOTIC STRESS ENHANCES ANTIBIOTIC RESISTANCE AND BIOFILM FORMATION OF LISTERIA MONOCYTOGENES IN DAIRY PROCESSING ENVIRONMENTS

Wioleta Chajęcka-Wierzchowska *, Patryk Wiśniewski, Patryk Adamski, Anna Zadernowska

Department of Food Microbiology, Meat Technology and Chemistry, Faculty Food Science, University of Warmia and Mazury, ¹⁰-726 Olsztyn, Poland

128. #1148 FROM WASTE TO WELLNESS: BLACKCURRANT POMACE s A SOURCE OF BIOACTIVE INGREDIENTS FOR SKIN CARE APPLICATIONS

Milda Pukalskienė^{*1}, Laura Augustinaitytė¹, Gabriela Kowalska², Joanna Oracz², Susana Cardoso³

¹Department of Food Science and Technology, Kaunas University of Technology, Lithuania; ²Institute of Food Technology and Analysis, Faculty of Biotechnology and Food Sciences, Lodz University of Technology, Poland; ³Department of Chemistry, University of Aveiro, LAQV-REQUIMTE, 3810-193 Aveiro, Portugal

129. #1328 BEYOND FOOD PRESERVATION: TECHNOLOGICAL STRESSES AS DRIVERS OF ANTIMICROBIAL RESISTANCE AND VIRULENCE IN FOODBORNE STAPHYLOCOCCI

Wioleta Chajęcka-Wierzchowska*, Joanna Gajewska¹, Zuzanna Byczkowska-Roztkowska¹, Anna Zadernowska¹

¹Department of Food Microbiology, Meat Technology and Chemistry, Faculty of Food Science, University of Warmia and Mazury in Olsztyn, Poland

Risk Perceptions and Communication in Education

**130. #64 PHILIPPINE FOODBORNE DISEASE OUTBREAKS (2018-2024):
EPIDEMIOLOGICAL TRENDS AND FOOD SAFETY IMPLICATIONS**

Gerieka Anapi * , Dominic Panaligan

Laboratory of Food Microbiology and Hygiene, Department of Food Science and Nutrition, College of Home Economics, University of the Philippines Diliman

**131. #1305 DEVELOPMENT, OPTIMIZATION, AND VALIDATION OF
LATERAL FLOW APTAMER-BASED RAPID ANALYTICAL FOOD
TESTING KITS FOR DETECTION OF FOLIC ACID IN FORTIFIED
FOODS**

Sabia Luthra * ¹, Hariprasad .P¹, Jatindra K Sahu^{2 1}

Environmental Biotechnology Lab, School of Interdisciplinary Research, Indian Institute of Technology, Hauz Khas, New Delhi-110016, India. ² Food and Bioprocess Engineering Lab, School of Interdisciplinary Research, Indian Institute of Technology, Hauz Khas, New Delhi-110016, India.

**132. #1407 REGULATORY CONSIDERATIONS OF RECENTLY
INDIVIDUALLY RECOGNIZED KOREAN HEALTH FUNCTIONAL
FOOD INGREDIENTS WITH BIOAVAILABILITY-ENHANCING
PROCESSING TECHNOLOGIES**

Gyoung-Deuck Kim * , Hae-yeon Lee, Eunju Kim International Life Sciences Institute Korea, Seoul, Republic of Korea

**133. #883 ASSESSMENT OF ALLERGEN CROSS-CONTACT FROM
REUSED COOKING MEDIA IN RETAIL AND FOODSERVICE**

Xingyi Jiang * , Ben Remington, Stefano Luccioli, Laurie Williams, Veronica Moore, Lauren Jackson

USFDA

**134. #1015 BACTERIAL SAFETY OF STREET-VENDED READY-TO-EAT
FRUITS AND FOOD SAFETY KNOWLEDGE, ATTITUDES, AND
PRACTICES OF VENDORS IN MANILA: A CORRELATIONAL STUDY**

Iliana Cashmere Cruz, A2Z B. Cada * , Gracielle Danette Delos Angeles, Elaine Marie Catoy, Lourminette Dela Cruz, Denise Kristel Cruz, Canellie Canlas-Ocsona, Clarenz Sarit Concepcion, Richmon Cuatico

Department of Medical Technology, Faculty of Pharmacy, University of Santo Tomas, Manila, Philippines

**135. #511 FACTORS AFFECTING WILLINGNESS OF FILIPINOS TO
CONSUME CELL-BASED FISH MEAT (PRELIMINARY ANALYSIS)**

Rowena Grace Rumbaoa-Sanchez * ¹, John Rinno Sanchez¹, Lerrie Ann Ipulan-Colet²

¹Department of Food Science and Nutrition, College of Home Economics, University of the Philippines Diliman, Quezon City, Philippines

²Institute of Biology, College of Science, University of the Philippines Diliman, Quezon City, Philippines

Microplastics and nanomaterials in food systems

**136. #302 PROTECTIVE EFFECTS OF ERINACINE A-ENRICHED
HERICIUM ERINACEUS MYCELIUM AGAINST REPRODUCTIVE
DAMAGE INDUCED BY POLYSTYRENE MICROPLASTICS IN MALE
RATS**

**Yi-Yuh Hwang * 1, Sabri Sudirman², En-Yu Wei¹, Deng-Fwu Hwang¹,
ZWE-LING KONG¹**

1Department of Food Science, National Taiwan Ocean University

*2Department of Fisheries Product Technology, Faculty of Agriculture, Universitas
Sriwijaya*

POSTER PRESENTATIONS

Theme : AI, DATA SCIENCE AND DIGITAL TRANSFORMATION IN FOOD SYSTEMS

Date 27.10.2026

Time : 0830-1600

Venue : Hall 5

(Please note : Installation: 1700-1800hrs (5:00 pm–6:00 pm) on 26 Oct 2026
Removal: 1600–1700 hrs (4:00 pm–5:00 pm) on 27 Oct 2026)

Foodomics and Multi-Omics Approaches

137. #561 TRANSLATING BULK PROTEIN INTO BIOACTIVE POTENTIAL: A MULTI-SCALE EXPLORATION BASED ON HEMPSEED

Xuan Dong *¹, Siew-Young Quek^{2 1} Food Science,

School of Chemical Sciences, The University of Auckland, Auckland, 1010, New Zealand² Food Science, School of Chemical Sciences, The University of Auckland, Auckland, 1010, New Zealand; Riddet Institute, Centre of Research Excellence for Food Research, Palmerston North 4474, New Zealand

138. #626 OVERPRODUCTION OF A TRUNCATED CYCLOISOMALTOOLIGOSACCHARIDE GLUCANOTRANSFERASE FROM THERMOANAEROBACTER THERMOCOPRIAE IN ESCHERICHIA COLI

Jeong-Min Lee *¹, Young-Min Kim², Young-Wan Kim^{1 1}

Department of Food and Biotechnology, Korea University, Sejong, Korea² Department of Food Science and Technology, Chonnam National University, Gwangju, South Korea

139. #679 COMPUTATIONAL SCREENING OF LEVAN FRUCTOTRANSFERASE BASED ON ACTIVE SITE STRUCTURE SIMILARITY

Hyeon-Seok Jeong * , Young-Wan Kim

Department of Food and Biotechnology, Korea University, Sejong, South Korea

140. #721 A GENOMIC APPROACH TO THE BIOLOGICAL MINING OF THE INDIGENOUS NEW ZEALAND MUSHROOM HERICIUM NOVAE-ZEALANDIAE

Yuan Wen¹, Xuan Dong *¹, Siew Young Quek^{2 1} Food Science,

School of Chemical Sciences, The University of Auckland, Auckland 1010, New Zealand² Food Science, School of Chemical Sciences, The University of Auckland, Auckland 1010, New Zealand, Riddet Institute, Centre of Research Excellence for Food Research, Palmerston North 4474, New Zealand

141. #1068 IDENTIFICATION OF DIAGNOSTIC INDICATORS USING GENOMIC TOOLS TO SUPPORT DECISION-MAKING IN CHEDDAR CHEESE RIPENING

Élisabeth Robert *¹, Marie-Hélène Lessard¹, Julien Chamberland¹, Marie-Claude Gentès², Steve Labrie^{1 1} Université Laval, Departement of food science, Quebec, Qc, Canada² Saint-Hyacinthe Research and

Development Centre, Agriculture and Agri-Food Canada, Saint-Hyacinthe, Qc, Canada

142. **#1110 ANTIOXIDANT AND ANTI-INFLAMMATORY POTENTIAL OF MYAGROPSIS MYAGROIDES: AN INTEGRATED STUDY OF EXTRACTION DIVERGENCE, UNTARGETED DUAL-MODE UPLC-MS/MS, AND NETWORK PHARMACOLOGY**

Sari Suhendriani * ¹, Su Hyeon Baek², Lei Cao³, Sanggil Lee⁴ ¹

Department of Smart Green Technology Engineering, Pukyong National University, Busan 48513, Republic of Korea ² *Department of Food Science and Nutrition, Pukyong National University, Busan 48513, Republic of Korea* ³ *Ocean and Fisheries Development International Cooperation Institute, Pukyong National University, Busan 48513, Republic of Korea* ⁴ *Department of Smart Green Technology Engineering, Pukyong National University, Busan 48513, Republic of Korea. Department of Food Science and Nutrition, Pukyong National University, Busan 48513, Republic of Korea*

143. **#1549 INSIGHT INTO THE MEAT QUALITY DIFFERENCES OF TIBETAN SHEEP FROM DIFFERENT ALTITUDES BASED ON METABOLOMICS**

Li Chen* ¹, Ruisi Liu¹, Jianing Fu¹, Dequan Zhang¹ ¹*Institute of Food Science and Technology, CAAS, China*

Artificial Intelligence for sensory and quality prediction

144. **#332 A COLORIMETRIC AND PHOTOTHERMAL DUAL-MODE NANOZYME PLATFORM: MULTIMODAL MACHINE LEARNING GUIDED REAL-TIME FRESHNESS SENSING AND PREDICTING OF AQUATIC PRODUCTS UNDER CHALLENGING LIGHTING CONDITIONS**

Jingqi Shen * , Weijia Zhang, Miaolin Duan, Zunying Liu, Fei Jia

College of Food Science and Engineering, Ocean University of China, 266003, Qingdao, China

145. **#406 DECODING THE UMAMI PROFILE OF TRADITIONAL FERMENTED SUFU: A HIGH-THROUGHPUT PREDICTION STRATEGY INTEGRATING PEPTIDOMICS, MACHINE LEARNING, AND VIRTUAL SCREENING**

Jieqi Mao * ¹, Yinying Liu¹, Dongna Ma², Zhilei Zhou² ¹

Department of Food Science and Technology, National University of Singapore, Science Drive ², Singapore, 117546, Singapore ² *School of Food Science and Technology, National Engineering Research Center of Cereal Fermentation and Food Biomanufacturing, Jiangnan University, Wuxi 214122, Jiangsu, China.*

146. **#702 MACHINE LEARNING-BASED SENSORY QUALITY PREDICTION AND FLAVOR DRIVER IDENTIFICATION IN FERMENTED EDIBLE INSECT SEASONINGS**

Eujae Lee * , Yookyung* Kim

Department of Human Ecology, Graduate School, Korea University, Seoul, Republic of Korea

147. **#858 ENHANCING PORK FRESHNESS PREDICTION VIA RGB-TO-HYPERSPECTRAL RECONSTRUCTION UNDER VARYING LED ILLUMINATIONS**

Ji Ma * ¹, Shan Huang¹, Jia-Huan Qu², Zhong Han¹ ¹

School of Food Science and Engineering, South China University of Technology, Guangzhou 510641, China ² *Institute of Pharmaceutical Analysis, College of Pharmacy, Jinan University, Guangzhou 510632, China*

- 148. #1418 A DUAL-RESPONSE COLORIMETRIC SENSOR ARRAY INTEGRATED WITH DEEP LEARNING FOR MOBILE INTELLIGENT FRESHNESS ASSESSMENT OF AQUATIC PRODUCTS**

Qi Yu * ¹, **Min Zhang**¹, **Chung Lim Law**² ¹ *Jiangnan University, Wuxi, China*
² *Taylor's University, Selangor, Malaysia*

- 149. #1526 CHEMOMETRIC AND MACHINE-LEARNING APPLICATIONS FOR FOOD CHARACTERISATION AND AUTHENTICATION**

Alessandra Biancolillo * , **Lorenzo Marsili**, **Angelo Antonio D'Archivio**

Department of Physical and Chemical Sciences, University of L'Aquila, Via Vetoio, 67100, Coppito, L'Aquila, Italy

- 150. #269 PREDICTION OF MOISTURE CONTENT IN CUT APPLES DURING HOT-AIR DRYING USING DEEP NEURAL NETWORK WITH FINE TUNING**

Yosuke Matsuo * ¹, **Satoshi Kawamura**², **Daisuke Kurata**³, **Takahiro Orikasa**⁴, **Shoji Koide**⁴ ¹

Graduate School of Arts and Sciences, Iwate University, ³⁻¹⁸⁻⁸ Ueda, Morioka, Iwate 020-8550, Japan ² *Super Computing and Information Sciences Center, Iwate University, ³⁻¹⁸⁻⁸ Ueda, Morioka, Iwate 020-8550, Japan* ³ *AI & Data Science, Moneytree KK, Castalia 2F, ¹³⁻³ Nishiazabu ², Minato, Tokyo 106-0031, Japan* ⁴ *Faculty of Agriculture, Iwate University, Iwate University, 3-18-8 Ueda, Morioka, Iwate 020-8550, Japan*

AI driven analysis of food consumption and innovation

- 151. #59 FOOD INFORMATICS: LEVERAGING DATA AND KNOWLEDGE TO ADVANCE FOOD SYSTEMS**

Mabel Zitong Leow, **Dachuan Zhang** *

Department of Food Science and Technology, Faculty of Science, National University of Singapore, ² Science Drive ², Singapore 117542, Singapore.

- 152. #294 MACHINE LEARNING-BASED CLASSIFICATION OF WHEAT CULTIVARS UTILIZING MULTI-INSTRUMENTAL PHYSICO-CHEMICAL ANALYSIS**

Chanmin Sagong, **Suyong Lee** * *Sejong University*

- 153. #815 DIGITAL AND SPECTROSCOPIC INNOVATIONS FOR SUSTAINABLE FOOD QUALITY CONTROL UNDER FOOD INDUSTRY 4.0**

Chyngyz Erkinbaev * , **Yinka Sikiru**

University of Manitoba

- 154. #1036 DECODING CONSUMER SENTIMENT TOWARD EDIBLE INSECTS USING AI APPROACHING**

Kyungmo Kang *

Department of Food Science and Technology, Hoseo University, ⁷⁹ Hoseo-Ro, Baebang-Eup, Asan, 31499, Republic of Korea

**155. #1511 ARTIFICIAL INTELLIGENCE-GENERATED SENSORY
RESPONSES TO NON-TRADITIONAL FLAVOR INGREDIENTS IN
CHOCOLATE BROWNIES**

Stacie Yee Sing Tan * , Damir Torrico

University of Illinois-Urbana Champaign, Chicago, USA

POSTER PRESENTATIONS

Theme : EDUCATION, CAPACITY BUILDING AND WORK FORCE TRANSFORMATION

Date 27.10.2026

Time : 0830-1600

Venue : Hall 5

(Please note : Installation: 1700-1800hrs (5:00 pm–6:00 pm) on 26 Oct 2026
Removal: 1600–1700 hrs (4:00 pm–5:00 pm) on 27 Oct 2026)

Education, Capacity Building, and Workforce Transformation

156. #588 DEVELOPING A TRAINING COURSE ON FOOD SAFETY RISK PROFILING FOR CHEMICAL AND MICROBIOLOGICAL HAZARDS IN THE PHILIPPINES: TEACHING AND COMMUNICATING RISK TO REGULATORY AGENCIES

Abigail Rustia * 1, Deon Mahoney²

¹Department of Food Science and Nutrition, College of Home Economics, University of the Philippines Diliman, Quezon City, Metro Manila 1101 Philippines

²Produce Marketing Association Australia–New Zealand Ltd., Docklands, Victoria 3008 Australia

POSTER PRESENTATIONS

Theme : FUNCTIONAL FOODS, BIO ACTIVES AND HEALTH PROMOTION

Date 28.10.2026

Time : 0830-1600

Venue : Hall 5

(Please note : Installation: 1700-1800hrs (5:00 pm–6:00 pm) on 27 Oct 2026
Removal: 1600–1700 hrs (4:00 pm–5:00 pm) on 28 Oct 2026)

Functional Foods and Supplements: Safety & Health Outcomes

1. **#15 COMPARATIVE STUDIES ON THE FUNCTIONAL GROUPS AND SELECTED FUNCTIONAL PROPERTIES OF PROTEIN CONCENTRATES OBTAINED FROM DIFFERENTLY DRIED SENECIO BIAFRAE LEAFY VEGETABLE**

Akinsola Famuwagun * , Oluseye Abiona, Clement Adebooye
Osun State University, Osogbo Nigeria

2. **#20 DEVELOPMENT OF LOW-GLYCEMIC INDEX MEAL REPLACEMENT BARS USING NATIVE AND PREGELATINIZED GREEN BANANA FLOUR**

Thammarat Kaewmanee * ¹, Acharaporn Issuriya², Surasak Limsuwan³, Sasitorn Chusri⁴, Damiya Semmad¹

Department of Food Science and Nutrition, Faculty of Science and Technology, Prince of Songkla University, Muang, Pattani 94000, Thailand ² Division of Health and Applied Sciences, Faculty of Science, Prince of Songkla University, Hat Yai, Songkhla, 90110, Thailand ³ Traditional Thai Medical Research and Innovation Center, Faculty of Traditional Thai Medicine, Prince of Songkla University, Hat Yai 90110, Thailand ⁴ Biomedical Technology Research Group for Vulnerable Populations and School of Health Science, Mae Fah Luang University, Muang, Chiang Rai 57100, Thailand.

3. **#72 BIOTECHNOLOGICAL UPCYCLING OF GRAPE POMACE: ENHANCING ANTIOXIDANT POTENCY AND PHENOLIC DIVERSITY VIA SELECTIVE ENZYMATIC HYDROLYSIS**

Rosangela Bergamasco * , Denise Silva Aquino, Marsilvio Lima de Moraes Filho, Beatriz Cervejeira Bolanho Barros, Natália Ueda Yamaguchi
State University of Maringá, Brazil

4. **#73 EVALUATION OF THE GLYCEMIC INDEX OF COMPOSITE BREADS FORMULATED BY SUBSTITUTING 30% OF WHEAT FLOUR WITH YAM FLOUR RICH IN RESISTANT STARCH**

Olivier Kouadio Kouadio * ¹, Charlemagne Nindjin¹, Kouakou Nestor Kouassi², Bassirou Bonfoh³, Georges N'guessan Amani²

*University Nangui Abrogoua-Department of Food Science and Technology, Centre Suisse de Recherches Scientifiques en Côte d'Ivoire-Department of Sustainable Agriculture and Nutrition*² *University Nangui Abrogoua-Department of Food Science and Technology*³ *Centre Suisse de Recherches Scientifiques en Côte d'Ivoire-Department of Sustainable Agriculture and Nutrition*

5. #92 PHYTOCHEMICAL PROFILING OF NTURUKPA (PTEROCARPUS SANTALINOIDES) LEAVES: IMPLICATIONS FOR FOOD SECURITY AND NUTRACEUTICAL DEVELOPMENT

Nkiruka David-Chukwu *¹, Philippa Ojmelukwe², Fabian Ugwuona², Chinasa Okorie¹, Chinechendu Ubadire-Agua²

*Abia State Polytechnic, Aba, Abia State, Nigeria*² *Michael Okpara University of Agriculture, Umudike, Abia State, Nigeria*

6. #98 PHENOLIC PROFILING AND MECHANISTIC INSIGHTS INTO THE ANTIOXIDANT POTENTIAL OF AUSTRALIAN SORGHUM BRAN PHENOLICS

Xuefu Zhou *¹, Pangzhen Zhang¹, Danyang Ying², Zhongxiang Fang¹

*School of Agriculture, Food and Ecosystem Sciences, Faculty of Sciences, University of Melbourne, Parkville, VIC 3010, Australia*² *CSIRO Agriculture & Food, Werribee, VIC 3030, Australia*

7. #103 MICROENCAPSULATION OF IRON-RICH AMARANTHUS GANGETICUS L. LEAF EXTRACT AND VITAMIN C USING SPRAY-DRYING AND FREEZE-DRYING TECHNIQUES

Saika Vicgneswaran *¹, O.D.A.N. Perera¹, N.M. Adasooriya²

*Department of Food Science and Technology, Faculty of Livestock, Fisheries and Nutrition, Wayamba University of Sri Lanka, Gonawila, Sri Lanka*² *Department of Chemical and Process Engineering, Faculty of Engineering, University of Peradeniya, Peradeniya, Sri Lanka*

8. #179 ENHANCED EXTRACTION OF ASHWAGANDHA ANTIOXIDANTS USING RESPONSE SURFACE METHODOLOGY AND THEIR STABILIZATION IN O/W EMULSIONS: A STUDY WITH REFERENCE TO GLUCOSE MODULATION

Insharah Saleem¹, Misha Arooj¹, Iqra Nasim², Nauman Khalid *

*¹ Department of Human Nutrition and Dietetics, School of Food and Agricultural Sciences, University of Management and Technology, Lahore 54000, Pakistan*² *Department of Food Science and Technology, School of Food and Agricultural Sciences, University of Management and Technology, Lahore 54000, Pakistan*³ *College of Health Sciences, Abu Dhabi University, Abu Dhabi, 59911, United Arab Emirates*

9. #186 ANTI-INFLAMMATORY EFFECT OF LACTIC ACID BACTERIA-FERMENTED SOY MILK

Takuya Sugahara *¹, Nanako Ishimaru¹, Momoko Ishida², Kosuke Nishi³, Yasuhiro Sasuga⁴

Graduate School of Agriculture, Ehime University ² *Food and Health Function Research Center, Ehime University* ³ *The United Graduate School of Agricultural Sciences, Ehime University* ⁴ *B&S Corporation*

10. #190 RASPBERRY KETONE MODULATES GLIAL INFLAMMATION AND LIPID METABOLISM IN MICE

Xinyue Qi * ¹, **Hui Ye**¹, **Vibhavari Aysha Bansal**¹, **Lijun Liu**¹, **Ting Luo**²

School of Chemistry, Chemical Engineering, and Biotechnology, Nanyang Technological University, Singapore, 637371 ² *State Key Laboratory of Bioreactor Engineering, East China University of Science and Technology, Shanghai, China.*

11. #194 THE MAGIC OF STARCH – A SCIENTIFIC JOURNEY WITH STARCH FOR FOOD APPLICATIONS

Janusz Kapusniak * , **Kamila Kapusniak**, **Malwina Wojcik**, **Arkadiusz Zarski**, **Magdalena Rudlicka**

Department of Dietetics and Food Studies, Innovative and Pro-Health Food (InnoFood) Research Centre, Faculty of Science and Technology, Jan Dlugosz University in Czestochowa, Armii Krajowej 13/15, 42-200 Czestochowa, Poland

12. #211 DEVELOPMENT OF A REDUCED-FAT CAKE BAR USING JUTE (CORCHORUS OLITORIUS L.) MUCILAGE AS A FUNCTIONAL FOOD INGREDIENT

Mayleen Joyce Villanueva * ¹, **Grecebio Jonathan Alejandro**², **Rosario Sagum**¹

The Graduate School, University of Santo Tomas, España Boulevard, Manila 1008, Philippines ² *The Graduate School, University of Santo Tomas, España Boulevard, Manila 1008, Philippines, College of Science and Research Center for the Natural and Applied Sciences, University of Santo Tomas, España Boulevard, Manila 1008, Philippines*

13. #267 INTEGRATED EXTRACTION, PAPAIN HYDROLYSIS, AND ULTRAFILTRATION OF SOYBEAN, BLACK SOYBEAN, AND PEA FOR MULTIFUNCTIONAL BIOACTIVE PEPTIDE FRACTIONS

Hyorim Seo * ¹, **Jinwoo Jeong**¹, **Hyunjin Lee**², **Kyunghwan Kim**³, **Sanghyun Lee**²

Department of Smart food and Drug, Inje University, Korea ² *Department of Food technology and Nutrition, Inje University, Korea* ³ *Humeal Co. Ltd., Korea*

14. #270 UPCYCLING WHEAT BRAN THROUGH LACTIC ACID FERMENTATION TO ENHANCE SOLUBLE DIETARY FIBER, FREE FERULIC ACID, AND ANTIOXIDANT ACTIVITY

Jinwoo Jeong * ¹, **Prasetyo Agung**¹, **Kyunghwan Kim**², **Jeongmin Park**², **Sanghyun Lee**³

Department of Smart Food and Drug, Inje university, Korea ² *Humeal Co. Ltd., Korea* ³ *Department of Food technology and Nutrition, Inje university, Korea*

15. #271 INTEGRATED PROCESS DEVELOPMENT OF A FUNCTIONAL RICE BRAN INGREDIENT USING OPTIMIZED ALLIUM HOOKERI EXTRACT, ENZYMATIC PRETREATMENT, AND LACTIC FERMENTATION

Suah Bak * ¹, Nakyeom Lee¹, Rubab Subhani², Hyesook Lee³, Hyeonjin Lee¹

Department of Food technology and Nutrition, Inje university, Korea ²

Department of Smart Food and Drug, Inje university, Korea ³

Simplycarebio Co. Ltd., Korea

16. #293 SUSTAINABLE STARCH MODIFICATION FOR CLEAN-LABEL, FIBRE-ENRICHED FOOD INGREDIENTS

Mahsa Majzoobi * , Anthony Halim, Mayang Pawitra, Asgar Farahnaky

Department of Food Technology and Nutrition, School of Science, RMIT University, Melbourne, Australia, 3083.

17. #337 EFFECT OF MICROWAVE SEED TREATMENT ON SILYMARIN CONTENT IN MILK THISTLE (SILYBUM MARIANUM (L.) GAERTN.) SPROUTS DETERMINED BY INFRARED SPECTROSCOPY

Paulina Ropuszyńska-Robak¹, Lucyna Dymińska¹, Agnieszka Orkusz * ², Edyta Kucharska¹, Wojciech Sasiadek¹

Wrocław University of Economics and Business, Department of Bioorganic Chemistry, Wrocław, Poland ² Wrocław University of Economics and Business, Department of Biotechnology and Food Analysis, Wrocław, Poland

Wrocław University of Economics and Business, Department of Biotechnology and Food Analysis, Wrocław, Poland

18. #346 EVALUATING CULTIVAR SPECIFIC BIOPROTECTIVE RESPONSES OF PEF ENHANCED CARROT PURÉES AGAINST OXIDATIVE STRESS USING A HUMAN CELL LINE MODEL

Indrawati Oey * ¹, David Burritt², Sze Ying Leong³

Department of Food Science, University of Otago, Dunedin, New Zealand ² Department of Botany, University of Otago, Dunedin, New Zealand ³ School of Biosciences, Faculty of Health and Medical Sciences, Taylor's University, Subang Jaya, Selangor, Malaysia

School of Biosciences, Faculty of Health and Medical Sciences, Taylor's University, Subang Jaya, Selangor, Malaysia

19. #359 MASLINIC ACID PROMOTES HAIR GROWTH AND MODULATES PIGMENTATION THROUGH ASSOCIATED SIGNALING PATHWAYS ACROSS IN VIVO, 2D, AND 3D MODELS

Aprill Kee Oliva Mizushima * ¹, Meryem Bouhoute¹, Meriem Bejaoui¹, Farhana Ferdousi², Hiroko Isoda²

Alliance for Research on the Mediterranean and North Africa (ARENA), University of Tsukuba, Tsukuba City, 305-8572, Japan ² Alliance for Research on the Mediterranean and North Africa (ARENA), University of Tsukuba, Tsukuba City, 305-8572, Japan; Open Innovation Laboratory for Food and Medicinal Resource Engineering (FoodMed-OIL), National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan

20. #372 DEVELOPMENT OF A SCREENING FRAMEWORK FOR FUNCTIONAL EVALUATION OF CRUCIFEROUS VEGETABLE GERMPLASM

Wei Lin Liew * , Chin Wee Heng, Mei Hui Liu a

Department of Food Science and Technology, National University of Singapore, Science Drive 2, Singapore, 117542, Singapore, b Bezos Centre for Sustainable Proteins, Science Drive 2, Singapore, 117542, Singapore

21. #377 FROM BEAN TO BIOACTIVE PEPTIDES: OPTIMIZATION OF MUNG BEAN (VIGNA RADIATA L.) PROTEIN HYDROLYSATE AND EVALUATION OF SIZE-FRACTIONATED ANTIOXIDANT AND ANTI-INFLAMMATORY POTENTIAL

Worrapob Chaisan *¹, Kanokwan Promjeen², Suphat Phongthai³, Chawan Manaspon⁴, Niramom Utama-ang¹

Cluster of High Value Products from Thai Rice and Plants for Health, Chiang Mai University, Chiang Mai, Thailand ² Division of Product Development Technology, Faculty of Agro Industry, Chiang Mai University, Chiang Mai, Thailand ³ Division of Food Science and Technology, Faculty of Agro-Industry, Chiang Mai University, Chiang Mai, Thailand ⁴ Biomedical Engineering Institute, Chiang Mai University, Chiang Mai, Thailand

22. #389 EXTRACTION, NUTRITIONAL, TECHNO-FUNCTIONAL AND SAFETY ASSESSMENT OF ALTERNATIVE PROTEINS FROM WATERWEED, ELODEA NUTTALLII.

Gaoya Dong *¹, Monjurul Hoque¹, Shay Hannon², Brijesh Tiwari¹

Food Chemistry and Technology Department, Teagasc Food Research Centre, Ashtown, D15 DY05 Dublin, Ireland ² Food Industry Development Department, Teagasc Food Research Centre, Ashtown, D15 DY05 Dublin, Ireland

23. #466 ENZYMATIC HYDROLYSATES OF BEER BREWING BY-PRODUCTS AS POTENT AGENTS AGAINST ULTRAVIOLET B-INDUCED PHOTOAGING IN HUMAN DERMAL FIBROBLASTS

Chanmi Jeong * , Huijoo Bae, Seonghwa Hong, Hana Lee, Junsoo Lee

Department of Food Science and Biotechnology, Chungbuk National University, Cheongju, Chungbuk, Korea

24. #467 IDENTIFICATION OF NOVEL DPP-IV INHIBITORY PEPTIDES FROM PERILLA SEED MEAL BASED ON MACHINE LEARNING AND EXPERIMENTAL VALIDATION

Junyoung Park * , Seoyeon Kim, Seonghwa Hong, Hana Lee, Junsoo Lee

Department of Food Science and Biotechnology, Chungbuk National University, Cheongju, Chungbuk, Korea

25. #468 PHYSICOCHEMICAL PROPERTIES AND IN VITRO DIGESTIBILITY OF SORGHUM POLYPHENOL-POTATO STARCH COMPLEXES FOR GLYCEMIC MANAGEMENT

Minju Kim * , Yeseul Lim, Seonghwa Hong, Hana Lee, Junsoo Lee

Department of Food Science and Biotechnology, Chungbuk National University, Cheongju, Chungbuk, Korea

- 26. #469 SYNERGISTIC PROTECTIVE EFFECTS OF BLACK SOYBEAN AND BLACKBERRY EXTRACTS AGAINST DIHYDROTESTOSTERONE-INDUCED OXIDATIVE STRESS IN HUMAN DERMAL PAPILLA CELLS**

Hyeonjeong Jo * , Seonghwa Hong, Hana Lee, Junsoo Lee

Department of Food Science and Biotechnology, Chungbuk National University, Cheongju, Chungbuk, Korea

- 27. #472 PROTECTIVE EFFECTS OF GARLIC SPROUT AND DIALLYL TRISULFIDE AGAINST PALMITATE-INDUCED ATROPHY IN C2C12 MYOTUBES**

Hanbin Kim * , Hana Lee, Junsoo Lee, Seonghwa Hong

Department of Food Science and Biotechnology, Chungbuk National University, Cheongju, Chungbuk, Korea

- 28. #473 ENHANCEMENT OF BIOACTIVE COMPOUNDS AND BIOLOGICAL ACTIVITIES IN CENTELLA ASIATICA LEAVES BY COMBINED TREATMENT OF MELATONIN AND ULTRASOUND**

Changmin An * , Sua Park, Seonghwa Hong, Hana Lee, Junsoo Lee

Department of Food Science and Biotechnology, Chungbuk National University, Cheongju, Chungbuk, Korea

- 29. #492 EFFECT OF PROCESSING ON ENDOCANNABINOIDS IN COCOA**

Cemile Yilmaz * , Vural Gökmen Food Quality and Safety (FoQuS) Research Group,

Department of Food Engineering, Hacettepe University, Ankara, Türkiye

- 30. #501 FOOD ORIGINATED POLYAMINES AS METHYLGLYOXAL-TRAPPING AGENTS: ANTI GLYCATION ACTIVITY AND STRUCTURAL CHARACTERIZATION OF REACTION ADDUCTS**

Simin Tan * , Dejian Huang

Department of Food Science and Technology, National University of Singapore, ² Science Drive 2, Singapore, 117542

- 31. #519 DEVELOPMENT AND CHARACTERIZATION OF CINNAMON-INFUSED INSTANT BLACK TEA FOR INSTANT FUNCTIONAL BEVERAGE APPLICATION**

T.W.U.P. Apsara * , H.U.K.D.Z. Rajapakse, O.D.N.A. Perera

Department of Food Science and Technology, Faculty of Livestock, Fisheries and Nutrition, Wayamba University of Sri Lanka, Makandura, Gonawila, Sri Lanka

32. #521 ISORHAMNETIN AS A DIETARY FLAVONOID: EXPLORING ITS MULTITARGET ACTIVITY ACROSS DIVERSE BIOLOGICAL SYSTEMS

Munkhzul Ganbold * ¹, Pakavarin Louphrasitthiphol², Takafumi Miyamoto³, Hiroko Isoda⁴

Alliance for Research on the Mediterranean and North Africa (ARENA), University of Tsukuba, Tsukuba, Japan ² *Department of Gastrointestinal and Hepato-Biliary-Pancreatic Surgery, Faculty of Medicine, University of Tsukuba, Tsukuba, Japan;* *Ludwig Institute for Cancer Research, Nuffield Department of Clinical Medicine, University of Oxford, Headington, Oxford, UK* ³ *Department of Internal Medicine (Endocrinology and Metabolism), Institute of Medicine, University of Tsukuba, Tsukuba, Japan;* *Transborder Medical Research Center, University of Tsukuba, Tsukuba, Japan* ⁴ *Alliance for Research on the Mediterranean and North Africa (ARENA), University of Tsukuba, Tsukuba, Japan;* *Institute of Life and Environmental Sciences, University of Tsukuba, Tsukuba, Japan*

33. #541 DEVELOPMENT OF GLUTEN-FREE DRIED RICE NOODLES INCORPORATED WITH RED SEAWEED, KAPPAPHYCUS ALVAREZII

Patricia Matanjun * , Nur Naisha Dayana Salim Salvador @ Salim Food Security Research Laboratory,

Faculty of Food Science and Nutrition, Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia.

34. #553 CONSUMER BEHAVIOUR TOWARDS FUNCTIONAL FOODS, DIETARY SUPPLEMENTS AND NUTRIENT AWARENESS: A COMPARATIVE STUDY ACROSS FIVE EUROPEAN COUNTRIES

Olga Szulecka * ¹, Tomasz Kulikowski¹, Adam Mytlewski¹, Ida-Johanne Jensen², Eva Falch², Alina Culetu³

National Marine Fisheries Research Institute, Department of Fisheries Economics, ¹ Kołtątaja St, 81-332 Gdynia, Poland ² *Norwegian University of Science and Technology, Department of Biotechnology and Food Science, NTNU, NO-7491, Trondheim, Norway* ³ *National Institute of Research & Development for Food Bioresources, IBA Bucharest, ⁶ Dinu Vintila Street, 021102 Bucharest, Romania*

35. #559 MULTISCALE PROBING OF CHOLESTEROL-LOWERING EFFECT FROM DIETARY BIOACTIVES

Mingqin Li * Adolphe Merkle

Institute, University Fribourg, Fribourg, Switzerland

36. #582 DEVELOPMENT OF FUNCTIONAL READY-TO-DRINK BEVERAGE FROM CALABASH (CRESCENTIA CUJETE) FRUIT

Maria Christina Ramos * ¹, Maribeth Hanson¹, Ludivina Porticos², Donnalyn Imbas³, Jadess Lorraine Vista¹

Food Processing Innovation Center - Davao, Philippine Women's College of Davao, University Avenue, Matina, Davao City, 8000,

Philippines ² *University of the Immaculate Conception, Poblacion District, Davao City, 8000, Philippines* ³ *Department of Science and Technology Davao Region, corner Dumanlas and Friendship Roads, Bajada, Davao City, Davao del Sur, 8000, Philippines*

37. **#597 COMPARATIVE EVALUATION OF ANTIOXIDANT ACTIVITY AND ANTI-MUSCLE ATROPHY EFFECTS OF MEJU SUPPLEMENTED WITH MEALWORM AND OKARA**

Seohyeon Kim * ¹, Yookyung Kim²

¹ *Department of Human Ecology, Korea University, Seoul, Republic of Korea* ², *Department of Home Economics Education, Korea University, Seoul, Republic of Korea*

38. **#606 LION'S MANE MUSHROOM AS A FUNCTIONAL INGREDIENT IN OAT-BASED DESSERTS FOR DYSPHAGIA AND HEALTHY AGEING**

Samiddhi Gunathilake * ¹, Supuni Aluthge¹, Asgar Farahnaky¹, Tien Huynh², Mahsa Majzoobi¹

Department of Food Technology and Nutrition, School of Science, STEM College, RMIT University, Bundoora West Campus, Plenty Road, Melbourne, VIC 3083, Australia ² *Department of Biology, School of Science, STEM College, RMIT University, Bundoora West Campus, Plenty Road, Melbourne, VIC 3083, Australia*

39. **#645 PILOT-SCALE EXTRUSION AND SENSORY EVALUATION OF A MULTI-NUTRIENT RICE KERNELS FOR MATERNAL HEALTH**

Abbie L. Padrones * , Trinidad II T. Arcangel, Charlie E. Adona, Marcela C. Saies

Department of Science and Technology- Food and Nutrition Research Institute, Taguig City, Metro Manila, Philippines

40. **#652 PHOTOPROTECTIVE EFFECTS OF FLAVONES ARE HIGHLY SENSITIVE TO THE NUMBER AND POSITION OF PHENOLIC GROUPS**

Guo Chen * , Dejian Huang

Department of Food Science and Technology, National University of Singapore, Singapore

41. **#656 EFFECT OF HIGH-PRESSURE HOMOGENISATION ON THE STRUCTURE AND FUNCTIONAL PROPERTIES OF MICRO ALGAE GOLDEN CHLORELLA (AUXENOCHLORELLA PROTOTHECOIDES)**

Mayang Pawitra¹, Billy Lo * ¹, Asgar Farahnaky¹, Roman Buckow², Yakindra Timilsena², Mahsa Majzoobi¹

RMIT University ² *La Trobe University*

42. **#687 EVALUATION OF AMINO ACID PROFILE OF COMMERCIALY AVAILABLE "PLANT-BASED" OR "VEGAN" COLLAGEN PEPTIDES**

Kotoko Yamada * ¹, Megumi Hosokawa¹, Satoshi Miyauchi², Yasutaka Shigemura²

*Graduate School of Health and Nutrition, Tokyo Kasei University, Tokyo, Japan*² *Department of Nutrition, Tokyo Kasei University, Tokyo, Japan*

- 43. #696 INVESTIGATION OF PHYSICOCHEMICAL, STRUCTURAL, NUTRITIONAL, BIOACTIVE, AND DIGESTIVE PROPERTIES OF MALTED MILK POWDER ENRICHED WITH GERMINATED CEREALS AND PULSES**

Chamodi Gunathunga *¹, Madhura Jayasinghe², Suraji Senanayake², Tuyen Truong³, Charles Stephen Brennan⁴, R.A.U.J. Marapana², Jayani Chandrapala¹

*School of Science, RMIT University, Melbourne, Australia*² *Department of Food Science and Technology, Faculty of Applied Sciences, University of Sri Jayewardenepura, Gangodawila, Nugegoda, Sri Lanka*³ *School of Science, Engineering & Technology, RMIT University, Ho Chi Minh City, Vietnam*⁴ *Department of Food Science, University of Otago, Dunedin, New Zealand*

- 44. #716 PROTEIN DIGESTIBILITY, PEPTIDOMIC PROFILES, AND PUTATIVE ALLERGENICITY OF NEW ZEALAND-SOURCED LOCUSTA MIGRATORIA: FOLLOWING SIMULATED GASTROINTESTINAL DIGESTION**

Caiyan Ye *, Duncan McGillivray, Siew-Young Quek

School of Chemical Sciences, The University of Auckland

- 45. #751 PRODUCT DEVELOPMENT OF INSTANT ULTRA-LOW GLYCEMIC INDEX RICE PORRIDGE**

Stephanie Anne Lim *¹, Rona Camille Lizardo-Agustin², Glenn Vincent Ong³, Nese Sreenivasulu³, Noel Pascua³

*Institute of Food Science and Technology, College of Agriculture and Food Science, University of the Philippines Los Baños and Consumer-driven Grain Quality and Nutrition Cluster, Rice Breeding Innovations, International Rice Research Institute*² *Institute of Food Science and Technology, College of Agriculture and Food Science, University of the Philippines Los Baños, Los Baños, Laguna, Philippines*³ *Consumer-driven Grain Quality and Nutrition Cluster, Rice Breeding Innovations, International Rice Research Institute, Los Baños, Laguna, Philippines*

- 46. #847 NOVEL W/O/W DOUBLE EMULSION-BASED GELLED PROBIOTIC MICROCAPSULES FOR NON-DAIRY CHEESE APPLICATION**

Toshifumi Udo¹, Ethan He², Gopinath Mummaleti¹, Yang Jiao³, Rakesh K. Singh *¹, Fanbin Kong¹

*Department of Food Science and Technology, University of Georgia, Athens, GA 30602, USA*² *Signature School, Evansville, IN 47708, USA*³ *College of Food Science and Technology, Shanghai Ocean University, Shanghai, 201306, China*

- 47. #854 SUSTAINABLE UNDERUTILIZED PLANT RESOURCES FOR GUT MICROBIOTA TARGETED PREBIOTIC DEVELOPMENT**

Choshani Dalukdeniya * , Goobiha Arunthavarajah, Hashini Perera Sabaragamuwa

University of Sri Lanka

48. #906 ANTIOXIDANT PEPTIDES FROM FERMENTED WHEY: SCREENING, PEPTIDOMICS, AND IN SILICO INSIGHTS

Feliz Louie Salazar * ¹, Lotis Mopera², Kuan-Chen Cheng³

Institute of Food Science and Technology, University of the Philippines Los Banos; Department of Food Technology, University of Santo Tomas;¹ Institute of Food Science and Technology, University of the Philippines Los Banos; ² Institute of Food Science and Technology, National Taiwan University

49. #969 APPLICATION OF BIOACTIVE MUNG BEAN PROTEIN HYDROLYSATE IN A HIGH-PROTEIN VEGAN SOUP

Kanokwan Promjeen * ¹, Somdet Srichairatanakool², Suphat Phongthai³, Rajnibhas Sukeaw Samakradhamrongtha¹, Niramom Utama-ang¹

Division of Product Development Technology, Faculty of Agro-Industry, Chiang Mai University, Thailand ² Department of Biochemistry, Faculty of Medicine, Chiang Mai University, Thailand ³ Division of Food Science and Technology, Faculty of Agro-Industry, Chiang Mai University, Thailand

50. #972 DIGESTIVE HEALTH AS A DRIVER OF PLANT-BASED DAIRY ALTERNATIVE CONSUMPTION: EVIDENCE FROM MULTI COUNTRIES SURVEYS

Christelle Bou-Mitri * ¹, Virginia Messina², Klaudia Wiśniewska³, Laëtitia Duret⁴

Faculty of Nursing and Health Sciences, Notre Dame University-Louaize, Zouk Mosbeh, P.O.Box: 72, Zouk Mikael, Lebanon ² Nutrition Matters, Inc. ²⁶ Spadina Parkway, Pittsfield, MA 01201 USA ³ Department of Social Medicine and Public Health, Medical University of Warsaw, 02-091 Warsaw, Poland ⁴ ERDYN, ²³ rue Vergniaud, 75013 Paris, France

51. #975 EFFECT OF GRAIN COMPOSITION ON GROWTH AND CORDYCEPIN PRODUCTION OF CORDYCEPS MILITARIS CULTIVATED ON VARIOUS FOOD CROPS

Beom Seok Kim * ¹, Hak Hyun Lee², Se Jeong Kim², Mi Keong, Lee^{*2 1} Farmther Inc., Cheongju, Republic of Korea

College of Pharmacy, Chungbuk National University, Cheongju, Republic of Korea

52. #1029 APPLICATION OF HYBRID TEXTURED VEGETABLE PROTEIN WITH COCONUT DIETARY FIBER IN PLANT-BASED SAUSAGE: A PRELIMINARY STUDY

Jin Mark Pagulayan * , Edward De Guzman, Mary Michelle Velasquez, Casiana Blanca Villarino Food Application and Sensory Laboratory,

*Department of Food Science and Nutrition, College of Home Economics,
University of the Philippines Diliman, Quezon City 1101, Philippines*

**53. #1059 DIGESTIVE STABILITY, ANTI-INFLAMMATORY ACTIVITY,
AND GUT MICROBIOTA MODULATION OF SORGHUM 3-
DEOXYANTHOCYANIDINS**

Yanbei Wu *¹, Suhang Yao¹, Wei Ding², Bei Wang¹

*School of Food and Health, Beijing Technology & Business University²
College of New Materials and Chemical Engineering, Beijing Institute of
Petrochemical Technology*

**54. #1102 OAT BETA-GLUCAN AS ADJUNCTIVE NUTRITIONAL
THERAPY IN ACTIVE ULCERATIVE COLITIS: CLINICAL AND
INFLAMMATORY OUTCOMES OF A 28-DAY INTERVENTION**

**Joanna Harasym *¹, Alicja Zalecińska², Łukasz Kopiasz³, Katarzyna
Dziendzikowska³, Joanna Gromadzka-Ostrowska³**

*Department of Biotechnology and Food Analysis Wrocław University of
Economics and Business, Adaptive Food Systems Accelerator (AFSA) -
Research Centre Wrocław University of Economics and Business, 53-
345 Wrocław, Poland² Doctoral School, Warsaw University of Life
Sciences, 02-797 Warsaw, Poland³ Department of Dietetics, Institute of
Human Nutrition, Warsaw University of Life Sciences, 02-797 Warsaw,
Poland*

**55. #1152 UNLOCKING THE ANTIDIABETIC POTENTIAL OF VIBURNUM
OPULUS (EUROPEAN CRANBERRYBUSH) BARK: IMPACT OF
EXTRACTION STRATEGIES ON ENZYME INHIBITORY ACTIVITY**

**Milda Pukalskienė *¹, Beatrice Žaldokaitė¹, Audrius Pukalskas², Petras
Rimantas Venskutonis¹**

*Department of Food Science and Technology, Kaunas University of
Technology, Lithuania² Lithuanian Research Centre for Agriculture and
Forestry, Lithuania*

**56. #1201 EFFECT OF A MANGO- AND CHIA-BASED BEVERAGE ON
GUT MICROBIOTA IN CHILDREN WITH EXCESS WEIGHT: STUDY
DESIGN AND IMPLEMENTATION PROGRESS**

**Walter Sandoval, Guiomar Viveros, Julieta Mendez, Gladys Estigarribia *
, Gloria Gonzalez Universidad Nacional de Caaguazu, Facultad de
Ciencias de la Salud**

57. #1223 BRIDGING THE FIBRE GAP: WHERE DID WE GO WRONG?

Sushil Dhital *

*Department of Chemical and Biological Engineering, Monash University,
Australia*

**58. #1234 QUALITY AND FUNCTIONAL CHARACTERISTICS OF DAIRY
PRODUCTS SUPPLEMENTED WITH FERMENTED PHILIPPINE
INDIGENOUS FRUITS: RUBUS ROSIFOLIUS AND MUNTINGIA
CALABURA**

Dana Sophia Ysabel A. Fernandez, Bhea Patrice D. Aquino, John Joshua R. Javier, Dandro L. Sosa, Rona Camille Lizardo-Agustin *

Institute of Food Science and Technology, College of Agriculture and Food Science, University of the Philippines Los Baños, College, 4031 Laguna, Philippines

- 59. #1251 BEYOND ANTIOXIDANT: UNLOCKING THE FULL POTENTIAL OF A-TOCOPHEROL FOR HUMAN HEALTH AND PLANT ADAPTATION TO ENVIRONMENTAL STRESSES**

Deepak kumar * Plant Engineering and Stress Adaptomics Lab,
Department of Botany, Institute of Science, Banaras Hindu University, Varanasi, India

- 60. #1284 FERMENTATION OF TRADITIONAL TURKISH COFFEE WITH SCOPY**

Ayşe Muslu Aykoc *
Alanya University, Faculty of Arts and Design, Department of Gastronomy and Culinary Arts

- 61. #1330 AVOTASTIC OAT BUNS: THE DEVELOPMENT AND SENSORY ACCEPTABILITY OF HEART-FRIENDLY SNACK BUNS INTENDED FOR ADULTS (20-59 YEARS OLD) WITH HYPERTENSION AND DYSLIPIDEMIA**

Clariza Angela Arbilo *, Adrienne Gylle Alexie S. Fernandez, Ma. Camille R. Quiapos, Claire Anne Y. Santiago, Stephanie Reign T. Villanueva
University of Santo Tomas, Philippines

- 62. #1349 VALORIZATION OF SOYBEAN HULLS THROUGH THE DEVELOPMENT OF FOOD-GRADE PECTIN-ALGINATE HYDROGELS**

Adma Melo *, Nikol Tsvetkova, Manuela Pintado, María Emilia Brassesco
Universidade Católica Portuguesa, CBQF - Centro de Biotecnologia e Química Fina – Laboratório Associado, Escola Superior de Biotecnologia, Rua Diogo Botelho 1327, 4169-005 Porto, Portugal

- 63. #1360 COMPARATIVE EFFECTIVENESS OF FERROUS SULFATE VERSUS FERROUS FUMARATE IN YINGYANGBAO FOR IMPROVING ANEMIA IN INFANTS**

Lijuan Wang *, Yifan Xu, Yanbin Tang, Mengyao Zhang, Jian Huang
National Institute for Nutrition and Health, Chinese Center for Disease Control and Prevention, Beijing, China

- 64. #1382 HESPERETIN AMELIORATES BRAIN AGING BY RESTORING CIRCADIAN GENE EXPRESSION AND ATTENUATING NEUROINFLAMMATION IN D-GALACTOSE-INDUCED AGING MICE**

Minkyong Lee, Suhyeon Lee, Yumin Sim, Eunju Kim *
Department of Food and Nutrition, Kongju National University

65. #1387 EFFECTS OF BAICALIN ON MITOCHONDRIAL FUNCTION AND CIRCADIAN REGULATION IN DEXAMETHASONE-INDUCED SKELETAL MUSCLE ATROPHY

Suhyeon Lee * , Yumin Sim, Minkyong Lee, Eunju Kim

Department of Food and Nutrition, Kongju National University, Yesan, Republic of Korea

66. #1391 SYNTHESIS OF TRIBUTYRIN AND TRIPROPIONIN AND THEIR ALLEVIATIVE EFFECTS ON COLITIS AND GUT MICROBIOTA IN MICE

shouhe huang * ¹, Zhenyu Chen²

Guangdong Pharmaceutical University ² Guangdong Pharmaceutical University, The Chinese University of HONG KONG

67. #1408 FUCOIDAN REGULATES THE ABSORPTION AND METABOLISM OF NICOTINAMIDE RIBOSIDE WHEN SUPPLEMENTED IN A FUNCTIONAL RICE FLOUR

Ji He * ¹, Yuanze Sun¹, Lihong Sun², Shaoping Nie³, Jun Lu¹

Future Food and Agriculture Department, Yangtze Delta Region Institute of Tsinghua University, Jiaxing, China ² Fuquan Biotechnology Company Ltd., Hangzhou, China ³ State Key Laboratory of Food Science and Resources, Nanchang University, Nanchang 330047, China

68. #1417 FEEDING THE CLOCK: HOW CHRONONUTRITION FIGHTS JET LAG, CIRCADIAN DISRUPTION, AND NEURODEGENERATION

Wai Yin Cheng *

The Hong Kong Polytechnic University, China

69. #1431 DIGESTION AND FECAL FERMENTATION BEHAVIOR OF AMPELOPSIS GROSSEDENTATA POLYSACCHARIDE AND ITS MODULATION ON HUMAN GUT MICROBIOME

Lu Xu * , Kailin Li, Tim-fat Shum, Jiachi Chiou

The Hong Kong Polytechnic University, China

70. #1436 POMEGRANATE ELLAGITANNIN-RICH EXTRACT IMPROVES CHOLESTEROL METABOLISM THROUGH GUT MICROBIOTA-MEDIATED BILE ACID REMODELING

Tianhui Li * ¹, Pui Kei Lee², Bojian Chen³, Jie Xiong³, Danyue Zhao⁴

Dept. of Food Science and Nutrition, Research Centre for Chinese Medicine Innovation (RCMI), PolyU, Hong Kong, China; State Key Laboratory of Chinese Medicine and Molecular Pharmacology (Incubation), PolyU Shenzhen Research Institute, Shenzhen, China ² Dept. of Food Science and Nutrition, Research Institute for Future Food (RiFood), RCMI, PolyU, Hong Kong, China ³ Dept. of Food Science and Nutrition, RiFood, PolyU, Hong Kong, China; State Key Laboratory of Chinese Medicine and Molecular Pharmacology (Incubation), PolyU Shenzhen Research Institute, Shenzhen, China ⁴ Dept. of Food Science and Nutrition, RiFood, RCMI, PolyU, Hong Kong, China; State Key

*Laboratory of Chinese Medicine and Molecular Pharmacology
(Incubation), PolyU Shenzhen Research Institute, Shenzhen, China*

**71. #1460 MOLECULAR INTERACTIONS GOVERNING THE
PHYSICOCHEMICAL, NUTRITIONAL AND SENSORIAL
PROPERTIES OF MILK-TEA SYSTEMS**

**Dilema Wijegunawardhana * ^{1,2}, Isuru Wijesekara³, Rumesh Liyanage²,
Mayumi Silva¹, Jayani Chandrapala¹**

*School of Science, STEM College, RMIT University, Bundoora, VIC
3083, Australia ² Department of Biosystems Technology, Faculty of
Technology, University of Sri Jayewardenepura, Dampe-Pitipana Road,
Homagama 10200, Sri Lanka ³ Department of Food Science and
Technology, Faculty of Applied Sciences, University of Sri
Jayewardenepura, Gangodawila, Nugegoda 10250, Sri Lanka*

**72. #400 EFFECTS OF CELL DISRUPTION ON THE BIOACCESSIBILITY
OF FRACTIONATED AUXENOCHLORELLA PROTOTHECOIDES
DURING IN VITRO DIGESTION**

Nur Syahirah Amirruddin * ¹, Wei Lin Liew¹, Mei Hui Liu²

*Department of Food Science and Technology, National University of
Singapore, Singapore ² Department of Food Science and Technology,
National University of Singapore, Singapore; Bezos Center for
Sustainable Protein, National University of Singapore, Singapore*

**73. #458 COMPARATIVE GENOMIC ANALYSIS REVEALING DISTINCT
ACID TOLERANCE MECHANISMS IN LACTIPLANTIBACILLUS
PLANTARUM TMA126 AND KCCP 11859**

Minjeong Kim * ¹, Huijin Jeong², Young-Seo Park²

*Department of Food Science and Biotechnology, Gachon University,
Seongnam 13120, Republic of Korea , Korean Culture Center of
Microorganisms, Seoul, Republic of Korea ² Department of Food
Science and Biotechnology, Gachon University, Seongnam 13120,
Republic of Korea*

**74. #523 ENHANCING PROBIOTIC FUNCTIONALITY USING A PEACH
KERNEL OIL-BASED DOUBLE EMULSION SYSTEM**

**Anand Kumar Sethukali * , Ling Zhi Cheong, Said Ajlouni, Senaka
Chandima Ranadheera**

*School of Agriculture, Food and Ecosystem Sciences, Faculty of
Science, The University of Melbourne, Melbourne, Victoria 3010,
Australia*

**75. #1014 WHEN FOOD GOES BAD: STUDYING BIOFILM FORMATION
TO REDUCE FOOD SPOILAGE AND EXTEND SHELF LIFE**

**Xue Zhao * ¹, John Harold Nataño¹, Laura Nolan^{1,2} ¹ Singapore Centre for
Environmental Life Sciences Engineering, Nanyang Technological**

*University, Singapore ² School of Biological Sciences, Nanyang
Technological University, Singapore*

- 76. #1204 CHOLESTEROL-LOWERING EFFECTS OF BIFIDOBACTERIUM BREVE IDCC 4401(BBR 4401): INTEGRATED PRECLINICAL AND CLINICAL EVIDENCE**
Jin Seok Moon¹, Jungwoo Yang * ^{2 1} R&D Team, ILDONG Bioscience Co., Ltd., Pyeongtaek-si, Gyeonggi-do, 17957, Republic of Korea
Department of Microbiology, College of Medicine, Dongguk University, 123-Dongdae ro, Gyeongju, 38066, Republic of Korea
- 77. #1476 HEAT-INACTIVATED BIFIDOBACTERIUM BREVE 207-1 PREVENTS GLUCOSE METABOLISM DETERIORATION IN PATIENTS WITH TYPE 2 DIABETES MELLITUS: A RANDOMIZED CONTROLLED TRIAL**
Yanyan Tian * ¹, Liao Wang², Ligang Yang³, Guiju Sun⁴, Shaokang Wang⁵
Key Laboratory of Environmental Medicine and Engineering of Ministry of Education, Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing 210009, China ² +8613732288022 ³ +8613813981531 ⁴ +8613951928860 ⁵ +8613951087334
- 78. #1471 LUTEOLIN STABILIZES EPHX1 AND ENGAGES AN ARACHIDONIC ACID–PPAR α –ACSL4 AXIS ASSOCIATED WITH LIPID PEROXIDATION AND MLKL SIGNALING IN GASTRIC CANCER**
Huan Zhang * , Ke Tao, Guiju Sun, Shaokang Wang
Southeast University, China
- 79. #1472 MULTI-OMICS INSIGHTS INTO THE PROTECTIVE EFFECTS OF SALIDROSIDE AGAINST HYPERURICEMIA-ASSOCIATED LIVER–KIDNEY METABOLIC DYSFUNCTION IN RATS**
Wenqian Tang * , Haojing Chang, Shaokang Wang, Guiju Sun
Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing, China
- 80. #1481 WHEN FOOD SYNERGY BREAKS: FAILURE-MODE MAPPING AND A STAGE-GATED EVIDENCE PIPELINE FOR FUNCTIONAL FOOD BIOACTIVE COMBINATIONS**
Chang Hyung Lee *
School of Pharmacy, Sungkyunkwan University, Republic of Korea
- 81. #1483 QUALITY AND FUNCTIONAL CHARACTERISTICS OF DAIRY PRODUCTS SUPPLEMENTED WITH FERMENTED PHILIPPINE INDIGENOUS FRUITS: RUBUS ROSIFOLIUS AND MUNTINGIA CALABURA**
Rona Camille Lizardo-Agustin * , Dana Sophia Ysabel Fernandez, Bhea Patrice Aquino, John Joshua Javier, Dandro Sosa
Institute of Food Science and Technology, College of Agriculture and Food Science, University of the Philippines Los Baños, College, 4031 Laguna, Philippines
- 82. #1484 FUNCTIONAL NUTRITIONAL INTERVENTIONS ATTENUATE MUSCLE DECLINE AND MODULATE GUT MICROBIOTA DURING AGING**

Siying Tu * , Xiaoyu Hao, Shan xu, Hui Xia, Liao Wang, Shaokang Wang, Guiju Sun

Key Laboratory of Environmental Medicine and Engineering of Ministry of Education, and Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing 210009, China

83. #1485 FUNCTIONAL NUTRITIONAL INTERVENTIONS DIFFERENTIALLY MODULATE ADIPOSE REMODELING AND METABOLIC HEALTH

HSiying Tu * , Shan Xu, Xiaoyu Hao, Hui Xia, Liao Wang, Shaokang Wang, Guiju Sun

Key Laboratory of Environmental Medicine and Engineering of Ministry of Education, and Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing 210009, China

84. #1504 HEAT-INACTIVATED BIFIDOBACTERIUM BREVE 207-1 IMPROVES GLUCOSE METABOLISM IN TYPE 2 DIABETES MELLITUS PATIENTS: A RANDOMIZED CONTROLLED TRIAL

Yanyan Tian * , Ligang Yang, Guiju Sun, Shaokang Wang, Wang Liao

Key Laboratory of Environmental Medicine and Engineering of Ministry of Education, and Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing 210009, China

85. #1505 A-LINOLENIC ACID-RICH PERILLA OIL IMPROVES SARCOPENIC OBESITY IN MICE AT DIFFERENT LIFE STAGES VIA MODULATING ENERGY SUBSTRATE UTILIZATION

Tianyu Wu * , Cui Huang, Jiongnan Wang, Wang Liao, Guiju Sun

Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, China

86. #1506 PROTEIN CONTENT AND AMINO ACID COMPOSITION OF A HIGH-PROTEIN BEVERAGE MADE FROM DIFFERENT PROTEIN POWDERS FOR OLDER ADULTS

Vannizsa Ramas * , Carissa Saldaña-Tanda, Czarlyn April Joy Mendoza-Cela, Anna Katrina Loberiano, Gyle Tampil, John Lester Ramirez, Francesca Louise Garcia

Department of Science and Technology - Food and Nutrition Research Institute

87. #1507 COCONUT-BASED CEREAL MIX AS SUPPLEMENTAL FEEDING ALTERNATIVE FOR SCHOOL-AGE CHILDREN

Vannizsa Ramas * , Carissa Saldaña-Tanda

Department of Science and Technology - Food and Nutrition Research Institute

88. #1508 NUTRITIONAL PROFILE AND BIOLOGICAL VALUE OF A BEVERAGE POWDER MIX FOR OLDER ADULTS

Vannizsa Ramas * , Carissa Saldaña-Tanda, Czarlyn April Joy Mendoza-Cela, Gyle Tampil, John Lester Ramirez

Department of Science and Technology - Food and Nutrition Research Institute

89. #1514 EFFECTS OF PHYTOSTEROLS WITH PHOSPHOLIPIDS ON BLOOD LIPIDS IN OVERWEIGHT ADULTS WITH DYSLIPIDEMIA: A RANDOMIZED CONTROLLED TRIAL

Wei Yan * , Ligang Yang, Guiju Sun

Key Laboratory of Environmental Medicine and Engineering of Ministry of Education, and Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing 210009, China

90. #1515 PENTADECANOIC ACID REGULATES MICROBIOTA-METABOLISM AXIS AGAINST CHRONIC HEPATIC FIBROSIS

Peixuan Tian * 1, Hui Xia¹, Jing Sui¹, Evan Yi-Wen Evan Yi-Wen², Yating Chen²

Key Laboratory of Environmental Medicine and Engineering of Ministry of Education, Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing 210009, China.

2 Key Laboratory of Environmental Medicine and Engineering of Ministry of Education, Department of Epidemiology & Biostatistics, School of Public Health, Southeast University, Nanjing 210009, China.

91. #1516 GANODERMA LUCIDUM-DERIVED EXTRACELLULAR VESICLES AMELIORATE CHRONIC OBSTRUCTIVE PULMONARY DISEASE BY SUPPRESSING INFLAMMATORY RESPONSES

Peixuan Tian * , Hui Xia, Jing Sui

Key Laboratory of Environmental Medicine and Engineering of the Ministry of Education, Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing 210009, China.

92. #1517 HIGH-INTENSITY ULTRASOUND FUNCTIONALIZATION OF BROCCOLI BY-PRODUCT PROTEIN CONCENTRATE FOR DEVELOPMENT OF A PROTEIN-RICH INSTANT SOUP MIX

Santoshi Rawat * 1, C K Sunil², D V Chidanand³, Ashish Rawson², N Venkatachalapathy²

Department of Food Process Technology, National Institute of Food Technology, Entrepreneurship and Management, Thanjavur (NIFTEM-T), Tamil Nadu, India

2 Department of Food Process Engineering, National Institute of Food Technology, Entrepreneurship and Management, Thanjavur (NIFTEM-T), Tamil Nadu, India

Department of Food Business Management, National Institute of Food Technology, Entrepreneurship and Management, Thanjavur (NIFTEM-T), Tamil Nadu, India

93. #278 ANTI-CANCER EFFECTS OF FLAVONE DIMER ZHL10 AGAINST OVARIAN CLEAR CELL CARCINOMA

ZIYI YU * ¹, Min Zhang², Hongling Zheng¹, Lih-Wen Deng³, Dejian Huang¹

¹Department of Food Science and Technology, National University of Singapore, 117542 Singapore, Singapore.

²National University of Singapore (Suzhou) Research Institute, 377 Linquan Street, 215123 Suzhou, Jiangsu, China.

³Department of Biochemistry, Yong Loo Lin School of Medicine, National University of Singapore, MD 7, 8 Medical Drive, 117596 Singapore, Singapore.

94. #619 MICROBIAL RISK IN BLENDERIZED TUBE FEEDING: IMPLICATIONS FOR DECENTRALIZED PREPARATION

Cecile Klaudine Cabigas * ¹, Myrna Benita Luna¹, Isa Terese Santos¹

¹Department of Food Science and Nutrition, College of Home Economics, University of the Philippines Diliman

95. #148 DIETARY CYCLIC ORGANOSULFIDES AS H₂S DONORS: MODULATING NF-KB SIGNALING PATHWAY TO EXERT ANTI-INFLAMMATORY ACTIVITY IN RAW264.7 MACROPHAGE

Molan Zhang * 1, Lijun You¹, Dejian Huang²

1School of Food Science and Engineering, South China University of Technology, Guangzhou 510640, China.

2National University of Singapore (Suzhou) Research Institute, 377 Lin Quan Street, Suzhou Industrial Park, Jiangsu 215123, China.

- 96. #1093 PROTECTIVE EFFECTS OF HEAT-KILLED LACTICASEIBACILLUS PARACASEI HY7017 ON GUT MICROBIOTA AND IMMUNE FUNCTION IN CYCLOPHOSPHAMIDE-INDUCED IMMUNOSUPPRESSED MICE**

Ji Hun Jang * 1, So Jeong Lim², Jae Yeon Joung³, Nam Su Oh¹

1Department of Food and Biotechnology, Korea University, Sejong 30019, South Korea

2Department of Food Regulatory Science, Korea University, Sejong 30019, South Korea

3Institute of Natural Science, Korea University, Sejong 30019, South Korea

- 97. #358 EFFECT OF A WHEY PROTEIN NUTRITIONAL COMBINATION ON MUSCLE RECOVERY**

Dong Kai * 1, Cong Yang², L chang², Liu Ruonan¹, Zhou Peng¹

1School of Food Science and Technology, Jiangnan University, Wuxi, Jiangsu 214122, China

2Standard Foods (China) Co, Ltd., Suzhou, Jiangsu Province 215400, China

- 98. #1543 STRUCTURE-DEPENDENT TRIGLYCERIDE PROTECTION OF FREEZE-DRIED LACTIPLANTIBACILLUS PLANTARUM STORAGE PROTECTION WINDOW, LIPID OXIDATION, AND STRESS ADAPTATION**

Zhneug Sun, Nan Zhang, Shuxiang Liu

College of Food Science, Sichuan Agricultural University, China

- 99. #1532 MECHANISMS OF PROTOCATECHUIC ACID IN ALLEVIATING STREPTOZOTOXIN-INDUCED DIABETES IN MICE**
Huafang Ding, Shouhe Huang, Yuting Su, Hanyue Zhu, Zhen-Yu Chen
GuangDong Engineering Technology Research Center of Medicine Food Homologous Foods, School of Food Science, Guangdong Pharmaceutical University, China

- 100. #603 SHELF-LIFE DETERMINATION OF MULBERRY (MORUS NIGRA L.), SOURSOP (ANNONA MURICATA), AND CRANBERRY (VACCINIUM MACROCARPON) JUICE BLEND USING ACCELERATED SHELF-LIFE TESTING**

Jan Clarisse Credo * , Katherine Ann Castillo-Israel, Sheba Mae Duque, Romel Felismino, Jan Irish Estanislao

Institute of Food Science and Technology, University of the Philippines Los Baños, Laguna, Philippines

- 101. #1550 PRODUCT DEVELOPMENT OF GUYABANO (Annona muricata), MULBERRY (Morus spp.), AND CRANBERRY (Vaccinium macrocarpon) FREEZE DRIED POWDER MIX**

Thelma Lauriane Julian*¹, Katherine Ann Castillo-Israel¹, Sheba Mae Duque Duque¹, Romel Felismino¹, Jan Irish Estanislao¹

¹Institute of Food Science and Technology, University of the Philippines Los Baños, College, Laguna, 4031, Philippines

102. #1564 INVESTIGATION OF SEAWEED-DERIVED BIOCHEMICAL COMPOUNDS FOR TYPE 2 DIABETES MANAGEMENT

Nancy Maina*¹, Agus Suyanto¹

¹Universitas Muhammadiyah Semarang

POSTER PRESENTATIONS

Theme : SUSTAINABLE FOOD SYSTEMS AND GLOBAL FOOD SECURITY

Date 28.10.2026

Time : 0830-1600

Venue : Hall 5

(Please note : Installation: 1700-1800hrs (5:00 pm–6:00 pm) on 27 Oct 2026
Removal: 1600–1700 hrs (4:00 pm–5:00 pm) on 28 Oct 2026)

Food Systems and Climate Change

**103. #219 CELL AND MATERIAL DESIGN FOR CELL BASED FOODS:
PRINCIPLES AND PLATFORM TECHNOLOGIES**

Sungkwon Park * , Bosung Kim

Department of Food Science and Biotechnology, Sejong University

**104. #244 THE BITTER TRUTH: PROP TASTER STATUS, NEOPHOBIA,
AND PREFERENCE IN RELATION TO ATTITUDE TOWARD
ALTERNATIVE FOODS**

Airisse Rae Basinang, Mary Michelle Velasquez * , Casiana Blanca Villarino

Food Application and Sensory Laboratory, Department of Food Science and Nutrition, College of Home Economics, University of the Philippines Diliman, Philippines

**105. #486 PRODUCTION-SIDE VULNERABILITY AND CONSTRAINED
RESILIENCE UNDER DROUGHT STRESS IN CHINA'S GRAIN
SYSTEM**

Jie Luo * , Tracy Bradfield, Thia Hennessy, Mary McCarthy

Cork University Business School, University College Cork, Cork, Ireland

**106. #520 ENVIRONMENTAL INFLUENCE ON THE NUTRITIONAL
COMPOSITION, ANTIOXIDANT ACTIVITY, AND CONSUMER
ACCEPTABILITY OF HYDROPONIC SWEET BASIL (OCIMUM
BASILICUM L.): A HIGHLAND-LOWLAND COMPARISON**

Sook Wah Chan * ¹, Yu Xin Fong Siow², Lye Yee Chew¹, Yen Teng Wong², Ziwei Cai³

School of Biosciences, Faculty of Health and Medical Sciences, Taylor's University, 47500 Subang Jaya, Selangor, Malaysia, Centre for Active Living, Taylor's University, 47500 Subang Jaya, Malaysia ² School of Biosciences, Faculty of Health and Medical Sciences, Taylor's University, 47500 Subang Jaya, Selangor, Malaysia ³ Department of Biological Sciences and Bioinformatics, School of Science, Xi'an Jiaotong-Liverpool University, Suzhou, Jiangsu 215123, China

**107. #637 NUTRITION-ORIENTED LIFE CYCLE ASSESSMENT OF MUNG
BEAN AND LENTIL PROTEINS**

YI LIN *¹, Yan Kong², Yunjiao Liu¹, Dachuan Zhang³, Dejian Huang⁴

Department of Food Science and Technology, National University of Singapore, ² Science Drive 2, 117542, Singapore; Bezos Centre for Sustainable Protein at the National University of Singapore, ² Science Drive 2, 117542, Singapore ² National University of Singapore (Suzhou) Research Institute, 377 Linqun Street, Suzhou, Jiangsu, 215123, China ³ Department of Food Science and Technology, National University of Singapore, ² Science Drive 2, 117542, Singapore; National University of Singapore (Suzhou) Research Institute, 377 Linqun Street, Suzhou, Jiangsu, 215123, China ⁴ Department of Food Science and Technology, National University of Singapore, ² Science Drive 2, 117542, Singapore; Bezos Centre for Sustainable Protein at the National University of Singapore, ² Science Drive 2, 117542, Singapore; National University of Singapore

108. #755 LIFE CYCLE ASSESSMENT OF PLANT PROTEINS USING PROTEIN QUALITY-RELATED FUNCTIONAL UNITS

Yuchen Ma *¹, Qiming Wu², Yi Lin³, Caili Fu⁴, Dejian Huang⁵

Department of Food Science and Technology, National University of Singapore, Singapore; National University of Singapore (Suzhou) Research Institute, Suzhou, China ² Amway Innovation & Science, Shanghai, China ³ Department of Food Science and Technology, National University of Singapore, Singapore; Bezos Centre for Sustainable Protein at the National University of Singapore, Singapore ⁴ National University of Singapore (Suzhou) Research Institute, Suzhou, China ⁵ Department of Food Science and Technology, National University of Singapore, Singapore; National University of Singapore (Suzhou) Research Institute, Suzhou, China; Bezos Centre for Sustainable Protein at the National University of Singapore, Singapore

109. #1533 HEALTH AND ENVIRONMENTAL EVIDENCE, CHALLENGES, AND SUSTAINABLE STRATEGIES OF PLANETARY HEALTH DIET: A MIXED-METHODS REVIEW

Jia Wang, Lau Jiang, Jin Wang

Key Laboratory of Environmental Medicine and Engineering, Ministry of Education, and Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, China

110. 1046 DEVELOPMENT OF A LOW-COST CULTURE MEDIUM FOR THE COMMERCIAL PRODUCTION OF PORPHYRIDIUM CRUENTUM AS A SOURCE OF PHYCOERYTHRIN

Florencia Belén Cáceres-Ferroni * , María Salinas-García, Gabriel Acién, Emanuele Viviano, Tomás Lafarga

CIESOL-Solar Energy Research Centre, University of Almeria, Almeria, Spain

Circular Economy and Zero Waste Approaches

111. #38 ZERO-WASTE VIRGIN COCONUT OIL (VCO) PROCESSING WASTE THROUGH UPCYCLING (VCØ-UP): A FRAMEWORK FOR BIOCIRCULAR FOOD SYSTEM

Casiana Blanca Villarino *

Food Application and Sensory Laboratory, Department of Food Science and Nutrition, College of Home Economics, University of the Philippines-Diliman

112. #39 A ZERO-WASTE APPROACH TO SNACK BAR FORMULATION: UTILISING DRY-FRACTIONATED DEFATTED CAKE FROM DURUM WHEAT MILLING BY-PRODUCTS

Antonella Pasqualone * , Vittoria Latrofa, Francesca Vurro, Davide De Angelis, Francesco Caponio

University of Bari, Department of Soil, Plant and Food Science, Bari, Italy

113. #45 UPCYCLING COCONUT RESIDUE VIA HOT WATER EXTRACTION: TECHNO-FUNCTIONAL DIETARY FIBER FOR FOOD APPLICATIONS

Mary Michelle Velasquez, Casiana Blanca Villarino * , Jin Mark Pagulayan

Food Application and Sensory Laboratory, Department of Food Science and Nutrition, College of Home Economics, University of the Philippines Diliman, Quezon City, Philippines

114. #243 VALORIZATION OF PHILIPPINE SQUASH (CUCURBITA MOSCHATA DUCHESNE) BY-PRODUCTS FOR FUNCTIONAL COMPOSITE FLOUR DEVELOPMENT: A REVIEW

Mary May Hernandez * ¹, Myrna Benita Luna²

Student Master of Science in Food Science, College of Home Economics, Department of Nutrition and Food Science, University of the Philippines, Diliman, Quezon City 1101, Philippines ² Associate Professor, Department of Food Science and Nutrition, College of Home Economics, Department of Nutrition and Food Science, University of the Philippines, Diliman, Quezon City 1101, Philippines

115. #259 ATMOSPHERIC COLD PLASMA TREATMENTS ON AQUAPONIC WASTEWATER FOR ENHANCED MICROALGAL GROWTH

Kuan-Chen Hsieh * ¹, Jen-Yi Huang²

Institute of Food science and Technology, National Taiwan University ² Department of Food Science and Technology, The Ohio State University, Columbus, Ohio, United States

116. #264 IMPROVING FOOD WASTE RECYCLING WITH BLACK SOLDIER FLY LARVAE

Adrian Fuhrmann¹, Moritz Gold¹, Nalini Puniamoorthy², Alexander Mathys *

¹ *ETH Zurich - Sustainable Food Processing Laboratory, Singapore-ETH Centre* ² *National University of Singapore - Department of Biological Science*

117. #268 VALORIZATION OF BLUE SWIMMING CRAB (PORTUNUS PELAGICUS) SHELL WASTE FOR CHITOSAN EXTRACTION

Aleeya Mari Garcia *, Jelynn Tamayo, Ara Fatima Carbonera, Anna Rina Evangelista-Albacea

Institute of Food Science and Technology, University of the Philippines Los Baños

118. #369 EVALUATING SPENT TEA AND PEANUT SKIN BLENDS AS SUSTAINABLE SUBSTRATES FOR PEARL OYSTER MUSHROOM PRODUCTION

Rui En Koh *¹, Chin Wee Heng¹, Mei Hui Liu²

Department of Food Science and Technology, National University of Singapore, Science Drive 2, Singapore, 117542, Singapore ² *Department of Food Science and Technology, National University of Singapore, Science Drive 2 Singapore 117542, Singapore, Bezos Centre for Sustainable Proteins, Science Drive 2 Singapore 117542 Singapore*

119. #370 AGRO-INDUSTRIAL VALORISATION OF PEANUT SKIN AND MOROMI ON PLEUROTUS OSTERATUS MYCELIAL COLONISATION

Chin Wee Heng *¹, Rui En Koh¹, Mei Hui Liu²

Department of Food Science & Technology, National University of Singapore, Science Drive 2, Singapore 117542, Singapore ² *Department of Food Science & Technology, National University of Singapore, Science Drive 2, Singapore 117542, Singapore, Bezos Centre for Sustainable Proteins, Science Drive 2, Singapore, 117542, Singapore*

120. #411 UPCYCLING OF SHIITAKE (LENTINULA EDODES) RESIDUES VIA KOMBUCHA-TYPE MIXED FERMENTATION: A SUSTAINABLE STRATEGY TO ENHANCE BIOACTIVE COMPOUNDS AND ANTIOXIDANT POTENTIAL

Bruna Samiri Barbosa Maciano¹, Jaqueline Ferreira Silva², Jessyca Caroline Rocha Ribas *², Fernando Antônio Anjo³, Paula Toshimi Matumoto Pinto²

Department of Agronomy, State University of Maringá, Maringá, Brazil ² *Department of Animal science, State University of Maringá, Maringá, Brazil* ³ *Department of Food Science, State University of Maringá, Maringá, Brazil*

121. #417 ENHANCING POLYPHENOL RECOVERY AND ANTIOXIDANT ACTIVITY FROM PILI (CANARIUM OVATUM, ENGL.) FRUIT POMACE THROUGH OPTIMIZED MICROWAVE – ASSISTED EXTRACTION

Emjay Samin *¹, Elizabeth Arenas²

The Graduate School, University of Santo Tomas, Espana Blvd, Manila, Philippines 1015 ² *The Graduate School, University of Santo Tomas, Espana Blvd, Manila, Philippines 1015, Department of Food Technology, University of Santo Tomas, Espana Blvd, Manila, Philippines 1015, Research Center for the Natural and Applied Sciences, University of San*

122. **#465 CIRCULAR BIOPROCESSING: A CASE STUDY OF SPENT MEDIA AND SPENT MICROBIAL BIOMASS RECYCLING IN A ZERO-WASTE FERMENTATION PROCESSES WITH UMBELOPSIS ISABELLINA**

Kah Yin Lee * , Christian Hermansen, Khanijou Jasmeet Kaur, Yoganathan Kanagasundaram, Sreenivasa Reddy Puniredd Singapore

*Institute of Food and Biotechnology Innovation, Agency for Science Technology and Research (A*STAR)*

123. **#506 EFFECT OF ROASTING TEMPERATURE AND TIME ON THE PHYSICO-CHEMICAL PROPERTIES AND CONSUMER ACCEPTABILITY OF CAFFEINE-FREE COFFEE SUBSTITUTE FROM COCONUT RESIDUE**

Mary Antonette Cuachon * , Jin Mark Pagulayan, Mary Michelle Velasquez, Casiana Blanca Villarino

Food Application and Sensory Laboratory, Department of Food Science and Nutrition, College of Home Economics, University of the Philippines Diliman, Quezon City 1101, Philippines

124. **#515 EFFECT OF COCONUT FLOUR AND WHEAT FLOUR FORMULATIONS ON THE PHYSICO-CHEMICAL AND CONSUMER ACCEPTABILITY OF KABABAYAN BREAD (FILIPINO MUFFINS)**

Shekainah Natividad * , Jin Mark Pagulayan, Mary Michelle Velasquez, Casiana Blanca Villarino

Food Application and Sensory Laboratory, Department of Food Science and Nutrition, College of Home Economics, University of the Philippines Diliman, Quezon City 1101, Philippines

125. **#761 FUNCTIONAL CHARACTERISTICS OF UPCYCLED AVOCADO SEED STARCH AND ITS EFFECTS ON PHYSICO-CHEMICAL AND STORAGE PROPERTIES OF SET-TYPE YOGHURT**

Winnie Nyongje * ¹, Elizabeth Wafula¹, Esmanur Ilhan², Willis Owino¹, Mecit Oztop²

Jomo Kenyatta University of Agriculture and Technology ² *Middle East Technical University (METU)*

126. **#784 INTEGRATION OF EMERGING TECHNOLOGIES FOR THE PRODUCTION OF DEHYDRATED EDIBLE JELLYFISH IN A ZERO-WASTE BIOREFINERY FRAMEWORK**

Oliver Schlueter * , Nader Marzban, Holger Kuehnhold, Luma Rossi Ribeiro, Marios Psarianos

Leibniz Institute for Agricultural Engineering and Bioeconomy (ATB)

127. #788 ADVANCING SUSTAINABLE FOOD SYSTEMS WITH MOBILE FRUIT PROCESSING: A FEASIBILITY STUDY ON UPCYCLING UNDERUTILIZED PRODUCE IN GEORGIA

Yi Li *, James P. Gratzek, Joseph G. Usack

Department of Food Science & Technology, University of Georgia

128. #805 UPCYCLING COFFEE CASCARA INTO INSTANT BEVERAGE INGREDIENTS: A SUSTAINABLE APPROACH FOR BY-PRODUCT VALORIZATION

Marileusa D. Chiarello * ¹, Aryane Ribeiro Oliveira¹, Amanda Felipe Reitenback¹, Livia de Lacerda de Oliveira²

University of Brasília, Department of Pharmacy, Brasília, Brazil ² University of Brasília, Department of Nutrition, Brasília, Brazil

129. #839 GRAPE POMACE FLOUR AS A SOURCE OF NUTRIENTS AND PHENOLIC COMPOUNDS

Tatiane de Oliveira Xavier Machado * ¹, Faezeh Fathi², Maria Beatriz P. P. Oliveira², Cláudio Dariva³, Eliana B. Souto⁴

Department of Agroindustry, Federal Institute of Sertão Pernambucano, Petrolina, Brazil ² REQUIMTE/LAQV, Department of Chemical Sciences, Faculty of Pharmacy, University of Porto, Porto, Portugal ³ Process Engineering Program, University of Tiradentes, Farolândia, Sergipe, Brazil. ⁴ School of Chemical and Bioprocess Engineering, University College Dublin, Belfield, Dublin, Ireland

130. #976 A-MAIZE-ING WASTE: A BIO-CIRCULAR ECONOMY FRAMEWORK FOR THE PHILIPPINE CORN INDUSTRY

Gerieka Anapi * ¹, Elaine Sanieel², Casiana Blanca Villarino¹

Food Application and Sensory Laboratory, Department of Food Science and Nutrition, College of Home Economics, University of the Philippines-Diliman ² United Nations Development Programme (UNDP)

131. #978 OPTIMIZATION OF SOLVENT-BASED OIL EXTRACTION FROM MIXTURES OF GRAPE AND MAQUI BIOWASTE PRETREATED WITH HIGH HYDROSTATIC PRESSURE

Jose Miguel Bastias Montes * ¹, Monserrat Toloza Mora², Jaime Ortíz Viedma³, Horacio Fraguera Meissimilly¹, Yarleicy Mercado Murillo⁴

Universidad del Bío-Bío, Department of Food Engineering, Chillán, Chile ² Universidad del Bío-Bío, Department of Food Engineering, Chillán, Chile. Universidad Católica del Maule, School of Nutrition and Dietetics, Curicó, Chile ³ Universidad de Chile, Department of Chemistry and Food Sciences, Santiago, Chile ⁴ Universidad de Antioquia, Medellín, Colombia.

132. #1007 INDUSTRY MOTIVATIONS AND FUTURE PATHWAYS FOR HIGHER-VALUE UTILISATION OF PELAGIC FISH PROCESSING SIDE-STREAMS IN FRANCE, NORWAY AND POLAND

Tomasz Kulikowski * ¹, Olga Szulecka¹, Ida-Johanne Jensen², Eva Falch²

National Marine Fisheries Research Institute Department of Fisheries Economics² Norwegian University of Science and Technology Department of Biotechnology and Food Science

133. #1359 MICROALGAE AS PROTEIN-RICH FOOD BIOMASS – CHALLENGES AND OPPORTUNITIES

Shao Quan Liu *

Department of Food Science and Technology, National University of Singapore; Bezos Centre for Sustainable Protein @NUS

134. #1428 DEVELOPMENT OF SUSTAINABLE TREATMENT METHODS TO INCREASE RESISTANT STARCH CONTENT IN THE FABA BEAN STARCH FRACTION

Niina Kelanne *, Tuija Peltomäki, Taru Kariniemi, Martin Ramos Diaz, Sari Mäkinen

Natural Resources Institute Finland

135. #1492 BERRY POMACE AS AN UPCYCLED FUNCTIONAL INGREDIENT IN BAKERY PRODUCTS: A RAPID STRUCTURED REVIEW OF NUTRITIONAL AND TECHNOLOGICAL EFFECTS

Albina Oblitsova *

Advanced Engineering School "Institute of Biotechnology, Bioengineering and Food Systems", Far Eastern Federal University, Vladivostok, Russia

136. #827 MICROBIAL FERMENTATION OF WHEY PERMEATE AS A CIRCULAR APPROACH FOR VALUE GENERATION AND METAL RECOVERY

Marleny D.A. Saldaña *¹, Rayelle C. Silva¹, Juliana S. Ferreira²

¹University of Alberta, ²Federal University of Uberlândia

137. #711 UTILIZATION OF SPENT COFFEE (COFFEA ARABICA) GROUNDS IN THE DEVELOPMENT OF A HIGH-PROTEIN AND HIGH-FIBER SNACK BAR

Abigail Riogelon¹ Raphael Marquez² Czarina Mejia² Maitreya Onalan² Nicole Anne Serafico² Samantha Terrado² Dianne Jane Sunico³

¹University of Santo Tomas - Department of Food Technology, Manila City, Philippines; University of the Philippines - Los Baños - Institute of Food Science and Technology, Laguna, Philippines

²University of Santo Tomas - Department of Food Technology, Manila City, Philippines

Emergency and humanitarian food systems

138. #1357 STRENGTHENING FOOD SAFETY SYSTEM IN INDONESIA'S NATIONAL FREE NUTRITION MEAL PROGRAM (MBG)

Wisnu Samuel Atmaja Triwarsita *¹, Aditya Dian Pratiwi²

¹University of Auckland; ²Yayasan Cakrawala Maju Sejahtera

POSTER PRESENTATIONS

Theme : NUTRITION, POLICY, CLASSIFICATION AND PUBLIC HEALTH

Date 28.10.2026

Time : 0830-1600

Venue : Hall 5

(Please note : Installation: 1700-1800hrs (5:00 pm–6:00 pm) on 27 Oct 2026
Removal: 1600–1700 hrs (4:00 pm–5:00 pm) on 28 Oct 2026)

Dietary Guidelines and Public Health Nutrition

139. #301 THE ROLE OF MASTICATION IN SHAPING MOOD AND COGNITIVE PERFORMANCE

YINYING LIU *¹, Jianshe Chen², Weibiao Zhou^{3 1 a}.

*Department of Food Science and Technology, National University of Singapore, ² Science Drive 2, Singapore 117543, b. Singapore Institute of Food and Biotechnology Innovation (SIFBI), Agency for Science, Technology and Research (A*STAR), ³¹ Biopolis Way ² Singapore Institute of Food and Biotechnology Innovation (SIFBI), Agency for Science, Technology and Research (A*STAR), ³¹ Biopolis Way, #04-01 Nanos, Singapore 138669 ³ Department of Food Science and Technology, National University of Singapore, ² Science Drive 2, Singapore 117543*

140. #743 TOWARDS SUSTAINABLE DIETS ACROSS DIVERSE POPULATION GROUPS

Claudia Lazarte * , Ellen Trolle

National Food Institute, Technical University of Denmark (DTU), Kongens Lyngby, Denmark

141. #852 TITLE: ENHANCING CHILD NUTRITION AND FOOD SAFETY IN THE CHILD AND YOUTH CARE CENTRES (CYCCS): POST-IMPLEMENTATION INSIGHTS FROM KWAZULU-NATAL, SOUTH AFRICA

Mumsy Chibe *

University of South Africa

142. #1094 THE ASSOCIATIONS OF DIETARY PATTERNS WITH MUSCLE HEALTH AND FUNCTIONAL FITNESS IN THE HONG KONG HEALTHSPAN PROJECT

Yu Nan Chen * , Lai Ling Hui

Department of Food Science and Nutrition, The Hong Kong Polytechnic University, Hong Kong SAR, China.

143. #1210 NUTRITIONAL QUALITY OF FOODS FEATURING CHILD-DIRECTED MARKETING STRATEGIES BEFORE AND AFTER THE

IMPLEMENTATION OF BRAZILIAN FRONT-OF-PACKAGE LABELING REGULATIONS

Sarah Polezi, Gabriela Barreiro Bergamin, Luiza Ximenez, Veridiana de Rosso * Federal

University of São Paulo

144. #1352 PAST, PRESENT AND THE FUTURE OF LARGE-SCALE FOOD FORTIFICATION IN NIGERIA

Salisu Maiwada Abubakar *

Nutrition and Dietetics Unit, Department of Biochemistry and Africa Center of Excellence for Population Health and Policy (ACEPHAP), Bayero University, Kano - Nigeria.

145. #1399 INFLUENCE OF TIMED AND TARGETED COUNSELLING ON MATERNAL HEALTH SERVICES AND PRACTICES IN UGANDA

Faith Namayengo Muyonga * ¹, Joweria Namboozee², Daniel Hendry Ruma², James Kimmula³

Department of Nutritional Science and Dietetics, School of Vocational Studies, Kyambogo University. ² Kyambogo University ³ World Vision

146. #1402 ASSOCIATION BETWEEN PROTEIN INTAKE ADEQUACY AND PREDIABETIC GLYCEMIC INDICATORS AMONG KOREAN ADULTS

Yechan Lee, Meeyoung Kim, Eunju Kim * , Je-Hyuk Lee

Department of Food and Nutrition, Kongju National University, Yesan, Korea

147. #1403 CHARACTERISTICS OF DIETARY PROTEIN SOURCES AND GLYCEMIC METABOLIC RISK IN KOREAN ADULTS

Yechan Lee, Eunju Kim * , Meeyoung Kim, Je-Hyuk Lee

Department of Food and Nutrition, Kongju National University, Yesan, Korea

148. #1534 HUMAN MILK-DERIVED EXTRACELLULAR VESICLES ALLEVIATE FOOD ALLERGY BY RESTORING INTESTINAL BARRIER FUNCTION AND IMMUNE HOMEOSTASIS

Wenjing Chen, YiYi Wang

Key Laboratory of Environmental Medicine and Engineering, Ministry of Education, and Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, China

149. #1424 INTAKE EVALUATION OF DIETARY SATURATED FATTY ACIDS IN CHINESE CHILDREN AND ADOLESCENTS

Fanglei Zhao¹, Feng Pan¹, Tongwei Zhang¹, Jianwen Li¹, Weifeng Mao¹,

¹China National Center for Food Safety Risk Assessment, China

R&D Support for Nutrition and Function-related labeling and claims and Food Classification Systems for health and safety communication

150. #779 STARCH-EGCG COMPLEX ALLEVIATES GLYCOGEN FRAGILITY IN DB/DB MICE VIA GUT MICROBIOTA-MEDIATED BILE ACID METABOLISM AND THE FXR-GBE/GYS PATHWAY

Xinyi Deng * , Cheng Li

Food & Nutritional Sciences Programme, School of Life Sciences, The Chinese University of Hong Kong, Shatin 999077, Hong Kong, China

Global Nutrition, Food Security, and Policy

151. #667 EXPLORING UNDERUTILIZED LEGUMES AS SUSTAINABLE PROTEIN SOURCES FOR STRUCTURALLY AND NUTRITIONALLY OPTIMIZED PLANT-BASED MEAT ANALOGUES

Malsha Dinali * ¹, Isuru Wijesekara², Rumesh Liyanage³, Benu Adhikari¹, Lisa Newman¹, Mayumi Silva¹, Jayani Chandrapala¹

School of Science, RMIT University, Bundoora, VIC 3083, Australia ² Department of Food Science and Technology, Faculty of Applied Sciences, University of Sri Jayewardenepura, Nugegoda 10250, Sri Lanka. ³ Department of Biosystems Technology, Faculty of Technology, University of Sri Jayewardenepura, Pitipana 10206, Sri Lanka

152. #937 IMPACT OF PROP TASTER STATUS ON FOOD PREFERENCES AND NEOPHOBIA TOWARD ALTERNATIVE PROTEINS OF FILIPINO ADULTS: INITIAL FINDINGS

Airisse Rae Basinang * ¹, Mary Michelle Velasquez², Casiana Blanca Villarino²

School of Statistics, University of the Philippines Diliman; Department of Food Science and Nutrition College of Home Economics University of the Philippines Diliman ² Department of Food Science and Nutrition College of Home Economics University of the Philippines Diliman

153. #1199 KNOWLEDGE, ATTITUDES, AND PRACTICES OF FOOD INDUSTRY PROFESSIONALS TOWARD RABBIT MEAT UTILIZATION IN FILIPINO CUISINE: IMPLICATIONS FOR SUSTAINABLE PROTEIN DIVERSIFICATION

Adrian Paul Basilio * ¹, Ephraimuel Jose Abellana²

Instructor, Department of Food Science and Nutrition, University of the Philippines, Diliman ² Cluster Dean, Undergraduate and Graduate Studies School of Tourism School of Hospitality Management School of Food Science and Technology Philippine Women's University, Manila City

154. #1309 A PLACE BASED DIETARY BIOMARKERS TO INFORM THE NUTRITION POLICY

Manik Puranik *¹, Gunter Kuhnle², Carol Wagstaff²

Dr² Prof

155. #806 SURVEY of COMMERCIAL COCOA QUALITY USING MAILLARD REACTION PARAMETERS

Salome Martinez-Morales^{1*}, Álvaro Ferreira-Lazarte¹, Guillermo Fernández¹, Ana Muñoz-Labrador¹, Amalia Molina-Chaux¹, María del Mar Villamiel¹

¹Institute of Food Science Research (CIAL), CSIC-UAM, Madrid, Spain

Clean label initiatives and supply chain regulation and regulatory adaptation under the One Health framework

156. #65 ORGANIC ACID PRE-TREATMENT AS A CLEAN-LABEL ALTERNATIVE TO SULFITE IN OSMOTICALLY DEHYDRATED PHILIPPINE CARABAO MANGO (MANGIFERA INDICA L.)

Gerieka Anapi *¹, Ma. Patricia Azanza¹, Guiller Dartin Canapi², Ezra Gabrielle Cacayan², Gina Abrera²

Department of Food Science and Nutrition, College of Home Economics, University of the Philippines Diliman² Microbiological Research and Service Laboratory, Atomic Research Division, Philippine Nuclear Research Institute

157. #1154 ORGANIC ACID PRE-TREATMENT AS A CLEAN-LABEL ALTERNATIVE TO SULFITE IN OSMOTICALLY DEHYDRATED PHILIPPINE CARABAO MANGO (MANGIFERA INDICA L.)

Gerieka Anapi *¹, Ezra Gabrielle Cacayan², Guiller Dartin Canapi², Ma. Patricia Azanza¹, Gina Abrera²

Department of Food Science and Nutrition, College of Home Economics, University of the Philippines Diliman² Biomedical Research Section, Atomic Research Division, Philippine Nuclear Research Institute, Department of Science & Technology

POSTER PRESENTATIONS

Theme : FOOD PACKAGING INNOVATIONS AND ENVIRONMENTAL IMPACT

Date 28.10.2026

Time : 0830-1600

Venue : Hall 5

(Please note : Installation: 1700-1800hrs (5:00 pm–6:00 pm) on 27 Oct 2026
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Intelligent and Smart Packaging

158. #280 WIRELESS RADIO-FREQUENCY IDENTIFICATION (RFID) SYSTEM FOR SMART POST-HVEST ETHYLENE GAS DETECTION

Dibakar Saha * , Jaspreet Kaur, Kanishka Bhunia

Agricultural and Food Engineering Department, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal, India

159. #1144 CAROTENOIDS IN ACTIVE AND INTELLIGENT FOOD PACKAGING: A TECHNOLOGICAL PROSPECTION OF SUSTAINABLE INNOVATIONS

Maria Lua dos Reis Bento ¹, Giovanna Esperidião dos Santos Pereira ¹, Talita Souza Carmo * ²

University of Brasília, Chemistry Institute — Brasília, 70910-900, Brazil. ² University of Brasília, Institute of Biological Sciences — Brasília, 70910-900, Brazil

Biodegradable and Sustainable Packaging Materials

160. #291 DEVELOPMENT OF ACTIVE FILM FROM CHITOSAN INCORPORATED WITH HERBAL EXTRACTS FOR EXTENDING THE SHELF LIFE OF MEAT

P.W.M.N. Fernando * , O.D.N.A. Perera

Department of Food Science and Technology, Faculty of Livestock, Fisheries and Nutrition, Wayamba University of Sri Lanka, Makandura, Gonawila, 60170, Sri Lanka

161. #464 BIODEGRADABLE STARCH FILMS WITH FINGER LIME PEEL ANTIOXIDANT EXTRACTS

Thaiza Serrano Pinheiro de Souza * ¹, Ziming Liu ², Alberto Baldelli ³

School of Agriculture and Food Sustainability (AGFS), The University of Queensland, St Lucia, 4072, Queensland, Australia; Food and

Beverage Accelerator (FaBA), The University of Queensland, St Lucia, 4072, Brisbane, Queensland, Australia ² School of Agriculture and Food Sustainability (AGFS), The University of Queensland, St Lucia, 4072, Queensland, Australia ³ School of Agriculture and Food Sustainability (AGFS), The University of Queensland, St Lucia, 4072, Queensland, Australia; The Queensland Alliance for Agriculture and Food Innovation (QAAFI), The University of Queensland, St Lucia, 4072, Brisbane Queensland, 4072, Australia

162. #489 PREPARATION OF NANO-CHITOSAN LOADED WITH ELDERBERRY ANTHOCYANINS: CHARACTERIZATION OF ADSORPTION KINETICS AND PHYSICOCHEMICAL PROPERTIES FOR SUSTAINABLE PACKAGING

Haoze Ren * , Xiaoyu Luo

Beijing Normal-Hong Kong Baptist University, Zhuhai, 519087, China

163. #549 HIGH YIELD BACTERIAL CELLULOSE FROM WASTE DERIVED CULTURE MEDIA FOR SUSTAINABLE FOOD PACKAGING

Madara Jayanetti * ¹, Mauro Mocerino ², Wei Shan Cassandra Chong ², Weeraya Karnpanit ², Ranil Coorey ²

School of Molecular and Life Sciences, Curtin University, Bentley, Western Australia, 6102, Australia, Department of Applied Sciences, Sri Lanka Institute of Information Technology (SLIIT), Malabe, 10115, Sri Lanka ² School of Molecular and Life Sciences, Curtin University, Bentley, Western Australia, 6102, Australia

164. #562 PRODUCTION OF BIOPOLYMERS FROM FOOD WASTE: THE CASE OF ECUADOR

Carlos Jadán Piedra * ¹, Francisco Demera Lucas ¹, Caroline Loor Moreira ¹, Felipe Jadán Piedra ², Nathaly Giler Intriago ³

Escuela Superior Politécnica Agropecuaria de Manabí Manuel Félix López, Production Engineering Program, Calceta, 130350, Ecuador. ² Universidad Técnica de Manabí, Department of Food Chemistry and Biotechnology, Faculty of Engineering and Applied Sciences, Portoviejo, 130105, Ecuador. ³ Universidad Técnica de Manabí, Department of Chemistry, Faculty of Basic Sciences, Portoviejo, 130105, Ecuador.

165. #801 SUSTAINABILITY GAPS IN INTELLIGENT AND ACTIVE FOOD PACKAGING: A GLOBAL PATENT LANDSCAPE ANALYSIS

Frederico Ramaiana Carreno Ribeiro, Fernanda Gonsalves de Andrade, Natália Lima de Oliveira, Marileusa D. Chiarello *

University of Brasília, PROFNIT, Brasília, 70910-900, Brazil

166. #991 BEYOND BIODEGRADATION: NATURAL DEEP EUTECTIC SOLVENT RECONSTITUTION OF MANDARIN PEEL PECTIN AND POLYMETHOXYFLAVONES INTO WATER-REPROCESSABLE ACTIVE PACKAGING FILMS

Hongwei Wu * , Guomin Xiao

*School of chemistry and chemical engineering, Southeast University,
Nanjing, 211189, China*

**167. #1088 CELLULOSE BIOFILLERS FROM FRUIT PEELS FOR
REINFORCING ALGINATE-BASED BIODEGRADABLE FILMS FOR
FRESH-CUT VEGETABLE PACKAGING**

Yeon Ju Lee * , Young Hoon Jung

*School of Food Science and Biotechnology, Kyungpook National
University, Daegu, 41566, Republic of Korea*

**168. #1177 DEVELOPMENT OF FLAT-DIE EXTRUDED
POLYCAPROLACTONE (PCL)-CARRAGEENAN COMPOSITE
FILMS AS A SCALABLE APPROACH FOR MARINE BIOPOLYMER-
BASED FOOD PACKAGING.**

**Harikrishnan Manikyaparambil*¹, Carlos Álvarez García ², Swarna
Jaiswal ³, Amit K. Jaiswal ³, Shivani Pathania ¹**

*Food Industry Development Department, Teagasc Food Research
Centre, Ashtown, D15DY05, Dublin, Ireland ² Dept of Animal
Production and Food Quality. University of Zaragoza. ARAID -IA2,
50009, Spain ³ Centre for Sustainable Packaging & Bioproducts
(CSPB), School of Food Science and Environmental Health,
Technological University Dublin-City Campus, Central Quad,
Grangegorman, Dublin, D07 ADY7, Ireland*

**169. #1208 DEVELOPMENT OF CARBOXYMETHYL
CHITOSAN/PULLULAN COMPOSITE EDIBLE FILMS
INCORPORATED WITH ERICA MANIPULIFLORA EXTRACT FOR
FOOD PRESERVATION**

Ümran İp ¹, Dilara Baz ², Arif Mermer * ³, Ronayi Coskun ²

*University of Health Sciences, Department of Biotechnology, İstanbul,
34668, Türkiye ² University of Health Sciences, Faculty of Pharmacy,
İstanbul, 34668, Türkiye ³ University of Health Sciences, Department of
Biomaterials, İstanbul, 34668, Türkiye*

**170. #1304 DEVELOPMENT OF ACTIVE FOOD PACKAGING BASED ON
A CHITOSAN MATRIX REINFORCED WITH POLYPHENOL
EXTRACT FROM THE TROPICAL RED MACROALGAE**

**Quynh Nhu Pham * ¹, Hoang Thao Linh Nguyen ², Minh Vuong Phan ²,
Tuyen Truong ¹, Yunus Khatri ³**

*School of Science, STEM College, RMIT University, Bundoora,
Melbourne, VIC, 3083, Australia ² Institute of Advanced Technology,
Vietnam Academy of Science and Technology, 1B TL29, An Phu Dong
Ward, Ho Chi Minh City, 700000, Viet Nam ³ School of Science,
Engineering and Technology, RMIT University, 702 Nguyen Van Linh,
Tan Hung Ward, District 7, Ho Chi Minh City, 700000, Vietnam*

171. #1529 SUSTAINABLE GELLAN GUM-BASED BIOPOLYMER COATINGS REINFORCED WITH NFC AND ZEIN FOR PAPER FOOD PACKAGING

Joey Ng¹, Adeline Su Yien Ting¹, Siang Yin Lee ², Yin Yin Thoo¹

1 Monash University, Malaysia ² Malaysian Rubber Board, Malaysia

172. # 1079 3-Decen-2-one Loaded Zein-Hydroxypropyl Methylcellulose Coating to Delay Sprouting and Greening in Potato Tubers

Yuyang Zhang¹, Jeannine Bonilla² Caihua Shi³ Iris J. Joye² Loong-Tak Lim²

¹Department of Food Science, University of Guelph, Canada; School of Food Science and Engineering, South China University of Technology, China; Academy of Contemporary Food Engineering, South China University of Technology, China

²Department of Food Science, University of Guelph, Canada

³Department of Food Science, University of Guelph, Canada; EarthFresh Farms Inc., Canada

POSTER PRESENTATIONS

Theme : FOOD PROCESS AND ENGINEERING

Date 28.10.2026

Time : 0830 - 1600 hrs

Venue : Hall 5

(Please note : Installation: 17:00-1800hrs (5:00 p.m.–6:00 p.m.) on 27 Oct 2026
Removal: 16:00-17:00hrs (4.00pm-5.00pm) on 28 Oct 2026)

Biotransformation and Functional Fermentation for Health

173. #255 MONITORING CELL GROWTH AND KINETIC BEHAVIOR OF SACCHAROMYCES CEREVISIAE DURING FERMENTATION IN A BIOFLO/CELLIGEN 115 BIOREACTOR

**Rosangela Bergamasco * ¹, Regina Santiago Campos Nascimento²,
Juliete Pedreira Nogueira², Maria Terezinha Santos Leite Neta², Narendra
Narain^{2 1}**

*Chemistry Engineer Department, State University of Maringá ² Laboratory of Flavor
and Chromatographic Analysis, Federal University of Sergipe*

174. #1395 SYNTHESIS OF PANOSE-TYPE OLIGOSACCHARIDES DERIVED FROM FOUR DISACCHARIDES WITH DIFFERENT GLYCOSIDIC LINKAGES AND ITS APPLICATION

Bo-Hwa Kim¹, Seong-Jin Hong², Young-Min Kim¹

*1 Department of Integrative Food, Bioscience, and Technology, Chonnam National
University, Korea; ² Research Institute of Agricultural Science and Technology,
Chonnam National University, Korea*

175. #322 SHEAR-INDUCED ALIGNMENT AND PH-RESPONSIVE PHASE TRANSITIONS IN 3D-PRINTED LIPID MESOPHASES FOR PRECISION DELIVERY

Yuxuan Zheng^{*1} Yuanheng Zhang¹ Yier Xu¹ Tingting Cui² Fanghui Fan¹

*¹Department of Food Science and Engineering, College of Chemistry and
Environmental Engineering, Shenzhen University; ²School of Materials Science and
Engineering, South China University of Technology*

Additional posters

Integration of Food science, nutrition, pharmacology, biotechnology and toxicology

176. #747 UNLOCKING COMMERCIALY PRODUCED MARINE MICROALGAE FROM SOUTHERN BRAZIL FOR FUTURE FOODS: AN INTEGRATED CHARACTERIZATION

**Jusciele Nicolladelli¹ Carlen B. Bianchini¹ Ângelo P. Matos² Fábio F. Neves²
Giustino Tribuzi¹**

*¹Department of Food Science and Technology, Federal University of Santa Catarina
(UFSC), Florianópolis, Brazil; ²Department of Fisheries Engineering and Biological
Sciences, Santa Catarina State University (CERES/UDESC), Laguna, Brazil*