TENTATIVE PROGRAM

TENTATIVE PROGRAM THE 7th FOOD INGREDIENT ASIA CONFERENCE (FIAC) "ADVANCING FOOD INGREDIENTS TO PROMOTE HEALTHY LIFE AND SUSTAINABILITY"

Jakarta International Expo Kemayoran, Jakarta Indonesia Wednesday - Friday, 7-9 September 2022

A. OVERALL EVENTS

Time	7 September 2022	Date 8 September 2022	9 September 2022
AM	 Opening events Plenary Session I: Advances in Regulation, Education, & Food Sciences Food Sensory Training Congress IAFT/PATPI 2nd SEAFAST-Nestle Food Product Development Competition 	 Parallel Presentation Sessions Food Sensory Training 2nd SEAFAST-Nestle Food Product Development Competition (Product Display) 	 Halal Workshop 2nd SEAFAST- Nestle Food Product Development Competition (Product Display)
РМ	 Plenary Session II: Engineering & Processing Parallel Presentation Sessions 2nd SEAFAST-Nestle Food Product Development Competition 	 Parallel Presentation Sessions Plenary Session III: Food Safety and Quality Plenary session IV: Nutrition and Health Closing events 	-

B. DETAILED CONFERENCE ACTIVITIES

Time	Activity	
Day 1: Wednesday, 7 th September 2022		
08:00-09:00	Registration	
09:00-10:00	Joint Opening Ceremony - Food Ingredients Asia Exhibition and Conference 2022	
	Remarks from Informa, GAPMMI etc guests determined by Informa	
	Remarks from IAFT President	
10:00-10:15	Morning Refreshment	
10:15-10:20	Report from the Committee	
10:20-10:30	Remarks by the Head of Department of Food Science and Technology IPB	
10:30-10:40	Remarks by Rector IPB University	
	Support of IPB University in the Development of Food Science and Technology in Indonesia	
	Prof. Dr. Arif Satria (TBA)	
	on 1: Advances in Regulation, Education, & Food Sciences	
	rof. Ir. Aman Wirakartakusumah M.Sc., Ph.D.	
10:40-11:00	Keynote Speech (TBA):	
	Role of National Standardization Agency of Indonesia in Regulation, Education, & Food Sciences	
	Drs. Kukuh S. Achmad, M.Sc	
	(Head of National Standardization Agency of Indonesia (BSN))	
11:00-11:20	Challenges of Food Processing Technology and Industry for the Achievement of SDGs	
	Prof. Purwiyatno Hariyadi (IPB University, PATPI)	
11:20-11:40	Sustainable Food and Functional Ingredient Production	
	Dr. Philipp Fuhrmann (University of Natural Resources and Life Science - BOKU, Vienna, Austria)	
11:40-12:00	Discussion	
12:00-14:00	Lunch, Break, Praying, Exhibition Visit	
Plenary Sessi	on 2: Engineering & Processing	
Moderator: R	obi Andoyo, PhD	
14:00-14:30	Novel Ingredients & Compounds to Alleviate Metabolic Syndrome	
	Prof. Dr. Milen I. Georgiev (Institute of Microbiology, Bulgarian Academy of Sciences)	
14:30-15:00	Advance Thermal Process for Local Commodity Based Food Ingredients:	
	Ohmic-based Seaweed Processing	
	Prof. Dr. Ir. Salengke, M.Sc (Hasanuddin University)	
15:00-15:20	Discussion	
15:20-15:30	Afternoon Break	

TECHNICAL SI	ESSION 1	
	Food Safety Moderator: Harum Fadhilatunnur, MSc (IPB University)	Novel Ingredients & Processing Moderator: Dr. Dias Indrasti (IPB University)
15.30-15.42	Comparative Study of Antioxidant And Antibacterial Activity Of Tropical Citrus (Extract And Peel) Intan Nurul Azni (Sahid University) FS - 1	Characteristic of Gallic Acid Conjugated Corn Starch Samsu Udayana Nurdin (Lampung University) NI - 1
15.42-15.54	Antibiotic Resistance of Salmonella Isolated from Kampung Chicken and Broiler Carcasses Ni Gusti Ayu Made Widyatari Asthiti (IPB University) FS - 2	Synthesis of Butyl Cinnamate Using Enzymatic Membrane Reactor in a Free Solvent System Helena Listiarini (IPB University) NI - 2
15.54-16.06	Expression of the Virulence Gene of Salmonella typhimurium during Freezing and Chilling Treatment Siti Nurjanah (IPB University) FS - 3	Study of Basil Seed Gum Usage Potentitial In The Food Industry Ghaida' Inas (IPB University) NI - 3
	Novel Ingredients & Processing Moderator: Harum Fadhilatunnur, MSc (IPB University)	Novel Ingredients & Processing Moderator: Dr. Dias Indrasti (IPB University)
16.06-16.18	Chemical, Microbiological, and Sensory Characteristics of Low Molecular Weight Fraction of Tauco Products Vika Tresnadiana Herlina (IPB University) NI - 8	Synthesis of Mono-Diacylglycerol (MDAG) from Refined Bleached Deodorized Palm Oil (RBDPO) Using Glycerolysis Method on Pilot Plant Scale Nur Wulandari (IPB University) NI - 4
16.18-16.30	Folate Biosynthesis by Lactic Acid Bacteria from Different Food Sources Fenny Amilia Mahara (IPB University) NI - 9	Chemical And Physical Properties of Porang (Amorphophallus oncophyllus) Flour Modified with Enzymes Gusti setiavani (Polbangtan Medan) NI - 5
16.30-16.42	Characteristics of Kathak Porang Bulbil Flour Hanifa Dermawan (IPB University) NI - 10	Synthesis Of Biodegradable Plastic From Mulu Bebe Banana Peel Starch With Addition Of Chitosan And Glycerol Plasticizer Erna Rusliana M. Saleh (Universitas Khairun) NI - 6
16.42-16.54	Evaluation of Roasting Conditions to Improve Bioactive Compounds and Antioxidant Activities of Grafted Pine Nut Shell and Skin Nadya Mara Adelina (Universitas Al-Azhar Indonesia) NI - 11	Extraction of Umami Components in Peci Shrimp Head (<i>Penaeus merguiensis</i>) with Ultrasonication Hanifah Nuryani Lioe (IPB University) NI - 7

Time	Ac	tivity
	Day 2: Thursday, 8 th Sep	otember 2022
TECHNICAL SE	SSION 2	
	Health and Nutrition Moderator: dr. Mira Dewi, PhD (IPB University)	Food Quality Moderator: Dr. Dian Herawati (IPB University)
09.00-09.12	Assessment of Nutrient Intakes on Pregnant Women, Pair of Lactating Women and Exclusive Breastfed Infants in Kabupaten Sumbawa Besar, West Nusa Tenggara Lukman Azis (Universitas Al-Azhar Indonesia) HN - 1	Application High Resolution Melting (HRM)- real time PCR Method for Identification of CITES-indexed shark Carcharinus falciformis in Seafood Products Dr. Asadatun Abdullah (IPB University) FQ - 1
09.12-09.24	Physicochemical and Sensory Evaluation of Functional Drink Made from Butterfly Pea (<i>Clitoria ternatea</i>) and Lemon Peel Hamidatun (Sahid University) HN - 2	Physicochemical and Organoleptic Characteristics of Canned Vegetable candle (Saccharum edule Hasskarl) as a Traditional Food of North Maluku Hamidin Rasuu (Universitas Khairun) FQ - 2
09.24-09.36	Continuous Production of Antihypertensive Peptides from Velvet Bean Nadine Kurniadi (IPB University) HN - 3	Physical and Sensory Properties of Ice Cream Containing Gelatin Extracted from Yellowfin Tuna (<i>Thunnus albacares</i>) Skin Sarah Giovani (Universitas Al-Azhar Indonesia) FQ - 3
09.36-09.48	Lactic Fermentation of Germinated Soymilk to Increase Antioxidant Activity Hendry Noer Fadlillah (IPB University) HN - 4	Application of optimized Streptococcus thermophilus and Lactobacillus bulgaricus on coconut milk in the production of niyogurt Dewi Yunita (Universitas Syiah Kuala) FQ - 4
09.48-10.00	Formulation of Beverages Made of Ginger and Cinnamon as Sources of Flavonoids Neneng Munifah S (Sahid University) HN - 5	Impact of Adding Different Emulsifiers on the Physical Stability of Coconut Milk Emulsions Ichlasia Ainul Fitri (University of Mercu Buana Yogyakarta) FQ - 5
10.00-10.12	The Effect of Water from Various Sources on the Chemical and Physical Properties of Boiled Broccoli Rinentahan Rahadjeng (IPB University) HN - 6	Analysis of Physicochemical and Organoleptic Properties of Tomato Sauce with the Addition of Mocaf and Konjac Flour as Alternative Thickener Satrijo Saloko (University of Mataram) FQ - 6
10.12-10.24	The Study of Ginger Rhizome (<i>Citrus</i> <i>Amblycarpa</i>) Mass Ratio Supplementation on Physicochemical of Rich-Antioxidant of Liang Tea Pontianak Yohana Sutiknyawati Kusuma Dewi	Physical and Chemical Properties of Residual Flour from Purple Sweet Potato Var. Ayamurasaki Elisa Julianti (Universitas Sumatera Utara) FQ - 7

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	(Tanjungpura University)	
	HN - 7	
10.24-10.36	Development of Black Soybean Gluten- Free Bread Prepared Using Ohmic Heating (The Effect of Proofing Time And Transglutaminase Addition) Aji Sutrisno (Universitas Brawijaya) HN - 8	Chemical Characteristics of Sui Wuu, Traditional Food From Bajawa, Flores Island, East Nusa Tenggara, Indonesia Yuliana Tandi Rubak (Universitas Nusa Cendana) FQ - 8
10.36-10.48	Physicochemical Characteristics and Antioxidant Activity of Andaliman Fruit and Fruit Extract (<i>Zanthoxylum</i> <i>acanthopodium DC</i>) Elisa Julianti (Universitas Sumatera Utara) HN - 9	Physicochemical and Sensory Properties of Dark Chocolate with Palm Sugar Added Addion Nizori (Jambi University) FQ - 9
10.48-11.00	Break	
	Regulator & Global Issues Moderator: Dr. Nancy Dewi Yuliana (IPB University)	
11.00-11.12	Systematic Review on Volatile Compound Profile And Its Application in Species Identification for Halal Authentication Siti Hanifah Rifan Ramadhina (Universitas Sumatera Utara) RG - 1	
11.12-11.24	Physicochemical Characterization of Patties Made from Beef, Pork, and Their Mixture Muthia Kautsar Rusydah (IPB University) RG - 2	
11.24-11.36	Frying Oil Authentication Method Using Fourier Transform Infra-Red (FTIR) And Chemometrics Silmiyah Putri, SH, S.TP (IPB University) RG - 3	
11.36-11.48	Vegetable Oil Adulteration Detection using Fourier-Transform Infrared Spectroscopy (FTIR) and Chemometrics Aulia Arningtyas (IPB University) RG - 4	
11.48-12.00	Sensory Variables Effect on The Emotional and Behavioral Intention To Buy Services Case study KFC Ahmad Yani Padang Branch M. Syaefudin Andrianto (IPB University) RG - 5	
12:00-13.15	Lunch, Break, Praying, Exhibition Visit	

Plenary Sessi	on 3: Food Safety and Quality
Moderator: P	rof. Dr. Ir. Winiati Pudji Rahayu M.S
13:15-13:45	Food Safety and Quality
	Dr. Dian Anggraini Suroto, S.T.P., M.P., M.Eng. (Gadjah Mada University, PATPI)
13:45-14:15	Risk-based Improvement in Food Safety Status in Indonesia
	Prof. Dr. Ratih Dewanti-Hariyadi (IPB University)
14:15-14.30	Discussion
14:30-14.45	Afternoon Break
Plenary Sessi	on 4: Nutrition and Health
Moderator: D	r. Dwi Larasatie Nur Fibri
14:45-15:15	NUTRIX - One of the worlds first fish based RUTF, to fight Malnutrition
	Lyndon Paul (Danish Care Foods-Phnom Penh, Cambodia)
15:15-15:45	Healthy Hydration for Pregnant & Lactating Mothers
	Prof. Dr. Ir. H. Hardinsyah, MS (PT. Tirta Investama (Danone Aqua))
15:45-16:00	Discussion
16:00-16:15	Break
16:15-16.30	Competition Winner Announcement
16:30-16:40	Closing Remarks - President Director of Informa Market
10.50 10.10	

Day 3: Friday, 9 th September 2022 (Halal Workshop)	
08:00-09:00	Registration
	Moderator: Prof. Dr. Ir. Umar Santoso, M.Sc.
09:00-09:30	Challenging and Prospective View of Implementation New Halal Regulation in Indonesia
	Dr. H. Muhammad Aqil Irham, M.Si - Head of Halal Product Assurance Agency (Badan Penyelenggara Jaminan Produk Halal - BPJH) (TBC)
09:30-10:00	Challenging and Prospective of Science, Technology and Methodology for Halal Research
	Dr. Nancy Dewi Yuliana, STP., MSc - Researcher of Halal Science Center (HSC) IPB & SEAFAST Center LPPM IPB, Lecturer Dept. Food Science
	and Technology IPB University
10:00-10:30	Challenging and Prospective of Process Halal Certification in New Era Halal Regulation and World Global Halal
	Ir. Hj. Muti Arintawati, M.Si Director of LPPOM MUI
10:30-11.00	Role and Prospect Global Halal Market
	Adhi S Lukman - Chairman of GAPMMI
11:00-11:30	Discussion

C. DETAILED FOOD SENSORY TRAINING ACTIVITIES

Time	Activities	
Day 1: Wednesday, 7 th September 2022		
08.30 - 09.00	Registration for the first day	
09.00 - 10.30	Advanced Sensory and Consumer Science <i>(online)</i> Prof. Gie Liem (Deakin University, Australia)	
10.30 - 12.30	Measurement beyond liking: THE SECRET OF QDA UPON GOOD SENSORY PRACTICE Prof. Dede R Adawiyah (IPB University)	
12.30 -13.30	Lunch break	
13.30 - 15.30	The trends in Sensory Sciences DrIng. Dase Hunaefi (IPB University)	
	Day 2: Thursday, 8 th September 2022	
08.30 - 09.00	Registration for the second day	
09.00 - 10.30	Sensory related with Physical and Texture Properties Dr. Phillip Fuhrman (University of Natural Resources and Life Science - BOKU, Vienna, Austria)	
10.30 - 12.00	Practical class Consumer Sensory Profiling DrIng. Dase Hunaefi (IPB University)	
12.00 - 13.30	Lunch break	
13.30 - 15.30	Maximizing Product Understanding through Emotional Sensory Mapping and Branding Personification Zen Fauzan S, STP (PT Mane Indonesia)	

D. DETAILED FOOD PRODUCT DEVELOPMENT COMPETITION ACTIVITIES

Time	Activity
	Day 1: Wednesday, 7 th September 2022
07:00-08:00	Display Preparation
08:00-09:00	Registration
09:00-10:40	Joint Opening Ceremony - 2nd SEAFAST-Nestlé Food Product Development Competition (FPDC) and Food Ingredients Asia Exhibition and Conference 2022 Opening Remarks
10:40-11:00	Preparation for FPDC
11:00-11:05	FPDC Presentation Stage Opening
11:05-11:10	Remarks by Project Officer
11:10-11:15	Remarks by Head of HIMITEPA
11:15-11:20	Remarks by Head of SEAFAST Center
11:20-11:25	Transition Time
11:25-11:50	Team 1 Presentation
11:50-13:00	Lunch, Break, Praying, Exhibition Visit
13:00-14:46	Team 2-5 Presentation
14:46-15:30	Break, Praying, Exhibition Visit
15:30-17:10	Product Display Assessment - 10 teams, 10 minutes per Assessment
17:10-17:15	Closing Day 1
	Day 2: Thursday, 8 th September 2022
08:00-08:30	Display Preparation
08:30-09:00	Registration
09:00-09:05	Opening Day 2
09:15-11:00	Product Display
11:00-13:05	Lunch, Break, Praying, Exhibition Visit
13:05-14:25	Attending FIA Plenary Session III: Food Safety and Quality
14:25-14:45	Break
14:45-16:00	Attending FIA Plenary Session IV: Nutrition and Health
16:00-16:15	Break, Praying, Exhibition Visit
16:15-16:30	Competition Winner Announcement and Awarding
16:30-16:50	Closing Remarks and Official Closing of 2nd SEAFAST-Nestlé Food Product Development Competition (FPDC) 2022
	Day 3: Friday, 9 th September 2022
07:30-08:00	Display Preparation
08:00-08:30	Registration
08:30-08:50	Opening Day 3
08:50-10:30	Product Display and Exhibition Visit
10:30-10:40	Closing Day 3



Program & Abstracts

The 7th FiA Conference 2022

"Advancing Food Ingredients to Promote Healthy Life and Sustainability"



Jakarta International EXPO Kemayoran Indonesia September, 7-9th 2022 The 7th FiA Conference 2022

*Advancing Food Ingredients to promote Healthy Life and Sustainability"

TECHNICAL SESSION

Code Tittle of Paper

Food S	afety
FS-1	Comparative Study of Antioxidant and Antibacterial Activity of Tropical Citrus (Extract And Peel)
	Julfi Restu Amelia ¹ , Fildzah Hashfi Safitri ¹ , Giyatmi ¹ , Intan Nurul Azni ^{1,2*} ¹ Study Program of Food Technology, Sahid University, Jakarta
	² Study Program of Food Science, IPB University, Bogor
FS-2	Antibiotic Resistance of Salmonella Isolated from Kampung Chicken and Broiler Carcasses
	Ni Gusti Ayu Made Widyatari Asthiti ¹ , Siti Nurjanah ^{*1,2} , Winiati P. Rahayu ^{1,2} ¹ Department of Food Science and Technology, Faculty of Agricultural Technology, IPB University, Bogor Indonesia ² South-East Asia Food and Agricultural Science and Technology (SEAFAST) Center,
	IPB University, IPB Dramaga, Bogor 16680, Indonesia
FS-3	Expression of the Virulence Gene of Salmonella typhimurium during Freezing and Chilling Treatment
	Siti Nurjanah ^{1,2*} , Mareta Dwi Purbandari ¹ , Winiati P. Rahayu ^{1,2}
	¹ Department of Food Science and Technology, Faculty of Agricultural Technology, IPB
	University, Bogor Indonesia
	² South East Asia Food and Agricultural Science and Technology (SEAFAST) Center, IPB University, Bogor Indonesia
Novel	Ingredients & Processing
NI-1	Characteristic of Gallic Acid Conjugated Corn Starch
	Samsu Udayana Nurdin ^{1*} , Subeki ¹ , Novita Herdiana ¹
	¹ Department of Agricultural Technology, Faculty of Agriculture, University of Lampung
NI-2	Synthesis of Butyl Cinnamate Using Enzymatic Membrane Reactor in a Free Solvent System
	Helena Listiarini ¹ , Azis Boing Sitanggang ^{1*} , Slamet Budijanto ¹
	¹ Department of Food Science and Technology, Kampus IPB Dramaga, IPB University, Bogor 16680, Indonesia
NI-3	Study of Basil Seed (Ocimum basilicum L) Gum Usage Potential In The Food Industry
	Ghaida' Inas ^{1*} , Dede Robiatul Adawiyah ² , Eko Hari Purnomo ² ¹ Food Science Graduate Study Program, Department of Food Science and Technology, Faculty of Agricultural Technology, IPB University
	² Department of Food Science and Technology, Faculty of Agricultural Technology, IPB University



FS-1

Comparative Study of Antioxidant and Antibacterial Activity of Tropical Citrus (Extract And Peel)

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ABSTRACT

Tropical citrus consists some major biologically active compounds, such as d-limonene, eriocitrin, a-terpineol, terpinen-4-ol, etc. These compounds possess several health beneficial properties like antioxidant and antibacterial. This study provided comparative data of antioxidant and antibacterial activity of tropical citrus extract and peel, such as local lemons (Citrus assamensis), imported lemons (Citrus limon (L.) Burm. f), and limes (Citrus aurantifolia). Antioxidant activity of tropical citrus was determined using DPPH and expressed as IC50. Antibacterial activity was evaluated using the agar diffusion method against pathogenic bacteria (E.coli, B.subtilis, and S.aureus). The results showed that very strong antioxidant was determined in the extract and peel of local lemons (33.45 ppm and 44.50 ppm) and the extract and peel of import lemons (31.43 ppm and 15.89 ppm), but the extract and peel of limes had strong antioxidant activity (60.35 ppm and 59.54 ppm). The highest inhibition zone was observed against S.aureus, while the lowest was recorded against E.coli. The inhibition zones diameter of local lemons, import lemons, and limes extract for S.aureus (grampositive cocci) was 26.40 mm, 27.95 mm, and 27.31 mm; E.coli (gram-negative bacilli) was 15.64 mm, 16.84 mm, and 16.63 mm, B.subtilis (gram-positive bacilli) was 17.88 mm, 21.77 mm, and 21.24 mm, respectively. The extracts of tropical citrus demonstrated higher activities against the gram-positive bacteria than the gram-negative bacteria tested. Gram positive bacteria have a peptidoglycan layer which is more accessible to permeation by the extracts. The results also showed that the antibacterial activity was higher against cocci bacteria than against bacilli bacteria. Moreover, the peel of local lemons, import lemons, and limes did not inhibit E.coli, B.subtilis, and S.aureus.

Keywords: antibacterial, antioxidant, lemon, limes, tropical citrus