# ISNFF 2025 PROGRAMME AT A GLANCE

	14 September / Sun	15 Septem	ber / Mon	16 Septem	iber / Tue	17 Septemb	er / Wed	
All day		Regist	tration	Regist	tration	Registra	ation	
08:30 - 09:00		Opening (	Ceremony			ISNFF 2026 C Induction	Conference	
09:00 - 10:30		PI PI PI	£2	PI PI PI		PL? PL8 PL9	3	
10:30 - 11:00			reak / Poster sion	Nutrition Poster S	n Break / Session	Nutrition	Break	
11:00 - 13:00		S1	S2	S7	S8	S13 (Flash Talk Presentation)	S14	
13:00 - 14:00		Lunch p	provided AGM Me		Lunch provided AGM Meeting (Lunch provided)		Lunch provided	
14:00 - 16:00		S3	S4	S9	S10	S15	S16	
16:00 - 16:30	Registration		reak / Poster sion	Nutrition Poster S	n Break / Session	Nutrition	Break	
16:30 - 18:30		S5	S6	S11	S12	S17	S18	
18:30 - 19:30						Closing and Competitio Cerem	n Award	
20:00 - 23:00	Free time	Welcor partic	ning of ipants	Free		Gala Di		

<sup>\*</sup> ISNFF and Fellow Award Winners will be announced at the Congress Gala Dinner, which will be a ticketed event. **AGM:** Annual General Meeting of ISNFF (restricted to Professional Members of ISNFF).

PL (1-9): Plenary (30 min each presentation including questions).

S (1-18): Session (20 min each presentation including questions).

ROOM A	ROOM B
Session 1: Polyphenols, their Metabolites, Antioxidant, and Health - 1	Session 2: Proteins and Bioactive Peptides - 1
Session 3: Upcycling and Zero Waste Processing of Food - 1 IUFoST & ISNFF Session	Session 4: Proteins and Bioactive Peptides - 2
Session 5: Fermented Food and Beverages, Food, and Health	Session 6: Proteins and Bioactive Peptides - 3
Session 7: Polyphenols, their Metabolites, Antioxidant, and Health - 2	<b>Session 8:</b> Proteins, Bioactive Peptides, Extraction, and Digestion
Session 9: Upcycling and Zero Waste Processing of Food - 2 IUFoST & ISNFF Session	Session 10: Food Production, Processing (Including Ultra-Process), Nutrition, and Health
<b>Session 11:</b> Functional Lipids, Omega-3, and Dietary Supplement	Session 12: Traditional and Novel Approcahes for Bioavailability Improvement
Session 13: Flash Talk Session	Session 14: R&D of Functional Foods, Nutraceuticals, and Dietary Supplements
Session 15: Functional Carbohydrate, Controlled- Release, and Bioactive Valorization	Session 16: Spices, Fruits/Vegetables, Nuts, Microbiome
Session 17: Analytical Methods, Molecular Docking Combined with Cereals and Legumes	Session 18: Marine and Aquaculture Products, Carotenoids, and Regulation

# **PLENARY SPEAKERS**

# **Moderators:**

Fereidoon Shahidi (Memorial University of Newfoundland, Canada) Nguyen Vu Hong Ha (International University, Vietnam National University, Vietnam)

PL1	1077	Upcycling of Food Processing Discards and Generation of Functional Food Ingredients and	
		Nutraceuticals	
		Fereidoon Shahidi - Memorial University of Newfoundland (Canada)	
PL2	1056	R&D Roadmaps and Ecosystem for Successful Functional Food Products	
		Pavinee Chinachoti - IUFoST President-Elect (Thailand)	
PL3	1063	Bioprocessing Blueprints and Marine Bioproducts	
		Colin J. Barrow - Deakin University (Australia)	

#### Moderators:

Cesarettin Alasalvar (TÜBİTAK MAM, Türkiye) Jianping Wu (University of Alberta, Canada)

PL4	1044	Bioavailability of Polyphenol Metabolites-Conjugate are Active or Inactive?		
		Toshiro Matsui - Kyushu University (Japan)		
PL5	1059	Multifunctional Food Bioactive Peptides for Cardiovascular Disease Prevention: Challenges and		
		Perspectives		
		Carmen Lammi - University of Milan (Italy)		
PL6	1192	Nutritional Lipids: Trends of Research and Market Development		
		Xuebing Xu - Wilmar (Shanghai) Biotechnology Research and Development Center Ltd.		
		(China)		

#### Moderators:

Ronald B. Pegg (University of Georgia, USA) Tien Nguyen (International University, Vietnam)

PL7	1057	Reduction of Oxalates: Should Physical, Chemical, or Biological Approaches be Chosen?	
		Nguyen Vu Hong Ha - International University, Vietnam National University (Vietnam)	
PL8	1095	Valorization of Flounder Fish By-Products from Filet Processing into Functional Food Ingredients	
		You-Jin Jeon - Jeju National University (Republic of Korea)	
PL9	1090	Resistant Starch Formation and Application for Low-Carb Food Production	
		Pham Van Hung - International University, Vietnam National University (Vietnam)	

# **ORAL PRESENTATIONS**

# September 15, 2025 (Monday)

# Session 1: Polyphenols, their Metabolites, Antioxidant, and Health - 1

#### **Moderators:**

Jerzy Zawistowski (University of British Columbia, Canada) Petras Rimantas Venskutonis (Kaunas University of Technology, Lithuania)

01	1089	Nanotechnology and Functional Foods–Opportunities, Perspectives, Applications, and		
		Regulations		
		Jerzy Zawistowski - University of British Columbia (Canada)		
02	1138	Extraction and Application of Rosmarinic Acid and Carnosic Acid from <i>Melissa Officinalis</i> and		
		Rosmarinus Officinalis: Natural Antioxidants for Sustainable Food Preservation and Antimicrobial		
		Therapy		
		Olatunji Salako - University of West Attica (Greece)		
О3	1105	Phytochemicals for Functional Foods and Nutraceuticals: Prospects and Challenges		
		Petras Rimantas Venskutonis - Kaunas University of Technology (Lithuania)		
04	1141	Novel Postbiotic Metabolites Derived from Proanthocyanidins Demonstrate Potential to Mitigate		
		Metabolic Dysregulation		
		H.P. Vasantha Rupasinghe - Dalhousie University (Canada)		
05	1130	Characterization of Phenolic Compounds in Purple Carrot–Enriched Wild Rice Noodles and		
		Physical Assessment		
		Beverly Too - University of Manitoba (Canada)		
06	1209	Evaluation of the Anticancer Potential of Antioxidant-Rich Fractions in the Methanolic Leaf Extract		
		of Piper Betle L. (Piperaceae)		
		Maude Angela Aujero - University of the Philippine (Philippine)		

# Session 2: Proteins and Bioactive Peptides - 1

#### **Moderators:**

Rotimi Aluko (University of Manitoba, Canada) Jianping Wu (University of Alberta, Canada)

07	1066	Structure and Function of Pea Protein-Derived Peptide Inhibitors of Butyrylcholinesterase
		Rotimi Aluko - University of Manitoba (Canada)
08	1075	Canola Meal as a Source of Bioactive Peptides for the Prevention of Osteoporosis
		Jianping Wu - University of Alberta (Canada)
09	1067	Novel Food Protein-Derived Bitter Taste Blockers and their Mechanisms of Action
		Prashen Chelikani - University of Manitoba (Canada)
010	1073	Protein Hydrolysates from Flixweed/Sophia ( <i>Descurainia Sophia</i> L.) Seed Meal Serve as a Source of
		Antioxidant and ACE Inhibitory Peptides
		Chandrika Sewwandi Dissanayaka - Memorial University of Newfoundland (Canada)
011	1149	Flaxseed-Derived Trypsin Inhibitor: Physicochemical Characterization and Application in Fish Surimi Gel
		Production
		Hitomi Kumagai - Nihon University (Japan)

012	1080	Functional Evaluation of Buckwheat Albumin-Polysaccharide Conjugates
		Kazumi Ninomiya - Gunma University (Japan)

# Session 3: Upcycling and Zero Waste Processing of Food - 1 IUFoST & ISNFF Session

#### **Moderators:**

Cesarettin Alasalvar (TÜBİTAK MAM, Türkiye)

Deijian Huang (National University of Singapore (Singapore)

013	1191	Upcycling of Several Food By-Products for Food and Feed Applications
		Kazuo Miyashita - Hokkaido Bunkyo University (Japan)
014	1213	Sustainable Agriceuticals: Reclaiming Food Bioactives from Coproducts of Agricultural and Food
		Industry
		Dejian Huang - National University of Singapore (Singapore)
015	1079	Upcycling Oilseed Processing Industry Co-Products for Functional Ingredients
		Nandika Bandara - University of Manitoba (Canada)
016	1125	Upcycling of Virgin Coconut Oil Processing By-Products into Coconut Protein-Based Ingredients:
		Characterization, <i>In Vitro</i> Digestion Behavior, and Effects on Immune Response Biomarkers
		Restituto Tocmo - University Of Reading (UK)
017	1184	Closing the Loop: Transforming Seafood Co-Products into Sustainable Lobster Bait in the Blue
		Circular Economy
		Zhuliang Tan - Subait Inc, Nova Scotia, Canada; Zhejiang Xingye Group Co., Ltd., Zhoushan,
		Zhejiang (China)
O18	1064	Valorization of Nut Processing By-Products: Opportunities in Functional Food and Health
		Industries
		Cesarettin Alasalvar – TÜBİTAK MAM (Türkiye)

# Session 4: Proteins and Bioactive Peptides - 2

#### **Moderators:**

Richard FitzGerald (University of Limerick Ireland) Lorenza d'Adduzio (University of Milan, Italy)

019	1167	Limpet ( <i>Patella Vulgata</i> ) Protein Concentrate Hydrolysates: Preparation, Characterisation and <i>In Vitro</i>
		Bioactive Properties
		Richard Fitzgerald - University of Limerick (Ireland)
O20	1207	Development of Bioactive 3D-Printed Scaffolds Functionalized with Okara-Derived Peptides for Tissue
		Regeneration
		Lorenza d'Adduzio - University of Milan (Italy)
021	1173	Contribution of Genetic Background to Nutritional and Bioactive Properties of Canadian Peas (Pisum
		Sativum)
		Matthew Nosworthy - Agriculture and Agri-Food Canada (Canada)
022	1172	Regulation of Ras P21-Ral Gtpase Pathway Through Bitter Receptor Agonist, Quinine
		Raj Bhullar - University of Manitoba (Canada)
023	1190	Antidiabetic Potential and Bioavailability Challenges of a Modified Yeast-Derived Peptide (VW9) and its
		Derivatives

	and and the state of the state
	Mahta Mirzaei - Ghent University Global Campus (Republic of Korea)
1	interior initiation of the conversity diobat campas (nepublic of Norca)

# Session 5: Fermented Food and Beverages, Food, and Health

#### **Moderators:**

Christofora Hanny Wijaya (IPB University, Indonesia) Min-Hsiung Pan (National Taiwan University, Taiwan)

		The second secon
024	1177	Piceatannol Attenuates Benzo[A]Pyrene/DSS-Induced Colorectal Cancer in Mice
		Min-Hsiung Pan - National Taiwan University (Taiwan)
025	1205	Standardizing Traditional Fermented Dairy Product Production <i>Via</i> Starter Cultures Made with Lactic Acid
		Bacteria Blends: A Case Study on Nono Production
		George Cavender - Clemson University (USA)
026	1144	Improvement of High-Fat Diet-Induced Gut Dysbiosis in Mice by Fermented Botanical Product and its
		Peptides Produced by Digestion of Small Intestinal Mucosa Extract
		Tomoko Asai Emel - Kyoto University (Japan)
027	1092	"Oncom", a Fermented Food Made from Agriculture Residue as a Promising Functional Food
		Christofora Hanny Wijaya - IPB University (Indonesia)
028	1193	Impact of Functional Foods on Antibiotic Resistome in Human Gut
		Pangzhen Zhang - The University of Melbourne (Australia)
029	1043	Potential of Oat Protein in Preventing Hypertension and its Cardiovascular Complications
		Thomas Netticadan - Agriculture & Agri-Food Canada (Canada)

# Session 6: Proteins and Bioactive Peptides - 3

#### **Moderators:**

Kenji Sato (Kyoto University, Japan) Nan Shang (China Agricultural University, China)

O30	1165	Oral Administration of Glutathione Improves Liver Function Via Enhancing Cysteine Transportation to
		Liver
		Kenji Sato - Kyoto University (Japan)
031	1164	Antioxidant Properties and Prediction of Bioactive Peptides Produced from Sophia Meal ( <i>Descurainis</i>
		Sophia L.)
		Thi Ty Na Ngo - Nong Lam University (Vietnam)
032	1154	Immunomodulatory Effects of Proline-Containing Diketopiperazines (Csp, Cap, And Clp) on J774A.1
		Macrophage
		Ann Elaine Wagan - Kyoto University (Japan)
O33	1153	Ultrasound-Assisted Enzymatic Hydrolysis Enhances Bioactive Peptide Yield and Bioactivity from
		Common Bean and Pumpkin Seed Proteins: Antioxidant, Anti-Inflammatory and Anti-Steatotic Effects
		Erick Huerta-Rodriguez - Tecnológico De Monterrey (Mexico)
034	1151	Sturgeon Collagen Peptides as Potential Anti-Aging Agents: from Preparation to Molecular Mechanisms

	Nan Shang - China Agricultural University (China)

# September 16, 2025 (Tuesday)

Session 7: Polyphenols, their Metabolites, Antioxidant, and Health - 2

#### **Moderators:**

Rong Tsao (Agriculture & Agri-Food Canada, Canada) Vasantha Rupasibghe (Dalhousie University, Canada)

O35	1161	Anti-Obesity Effect of Adzuki Bean Saponin and its Related Molecular Mechanism
		Baojun Xu - Beijing Normal-Hong Kong Baptist University (China)
O36	1086	Dietary Polyphenols as Antioxidants, Anti-Inflammatory Agents, Prebiotics and Postbiotics
		Rong Tsao - Agriculture & Agri-Food Canada (Canada)
037	1088	Gastrointestinal Fate of Acai Berry Polyphenols and Anthocyanins: Impact of Food Matrix
		Kumkum Ravish - Deakin University (Australia)
O38	1081	Bioaccessibility Enhancement of Lentil Hulls Phenolics Using Steam Explosion and High-Pressure
		Processing
		Sarusha Santhiravel - Memorial University of Newfoundland (Canada)
O39	1072	Durian Fruit Rind: A Rich Source of Bioactive Compounds with Potential Biological Activities
		Hoang Chinh Nguyen - Deakin University (Australia)
O40	1186	Antioxidant Capacity, Antimicrobial Properties, and Glycemic Enzyme Inhibition of Caesalpinia Minax
		Hence Extract
		Ngoc Thao Ngan Trinh - Nong Lam University (Vietnam)

# Session 8: Proteins, Bioactive Peptides, Extraction, and Digestion

#### **Moderators:**

Wang Liao (Southeast University, China)

Megumi Hosokawa (Tokyo Kasei University, Japan)

041	1131	Antioxidant and Anti-Inflammatory Activities of Pea Protein Hydrolysate in Lipopolysaccharide-
		Stimulated RAW 264.7 Macrophages
		Deepak Kadam - University of Manitoba (Canada)
042	1108	Anti-Hypertensive Effects of Egg White Hydrolysate: A Synergy Between Gut Microbiome-Dependent and
		Independent Mechanisms
		Kaustav Majumder - University of Nebraska-Lincoln (USA)
043	1093	Thermal Structural Alterations of Carnosine by Heat Treatment in Chicken Breast
		Megumi Hosokawa - Tokyo Kasei University (Japan)

044	1101	The Regulatory Effects of Food Protein-Derived Peptides on Glucose Metabolism: Evidence from New
		Perspectives
		Wang Liao - Southeast University (China)
O45	1206	Hansen Solubility-Based Screening of Natural Deep Eutectic Solvents (NADES) for Selective Extraction of
		Methyl Gallate-Rich Fractions from Paeonia Spp.
		Sana Abbas - Kaunas University of Technology (Lithuania)
046	1134	Comparison of Basic Chemical Composition and Antioxidant Activity of Whole Garlic Plants Harvested at
		Various Times
		Jerzy Zawistowski - University of British Columbia (Canada)

# Session 9: Upcycling and Zero Waste Processing of Food - 2 IUFoST & ISNFF Session

#### **Moderators:**

Cesarettin Alasalvar (TÜBİTAK MAM, Türkiye)

Zhuliang Tan (Subait Inc, Nova Scotia, Canada; Zhejiang Xingye Group Co., Ltd., Zhoushan, Zhejiang, China)

047	1208	Building a Regional Blue Bioeconomy: Upcycling of Seafood Organic Waste in Atlantic Canada
		Heather Burke - Memorial University of Newfoundland (Canada)
O48	1099	Utilization of Innovatively Processed Food Waste Residues for Sustainable Aquafeed Formulation
		Krishmali Ekanayake - Deakin University (Australia)
O49	1104	Enzymatic Hydrolysates from Lophiomus Setigerus Byproducts: A Sustainable Approach to
		Promote Muscle Growth
		R.P.G.S.K. Amarasiri - Jeju National University (Republic of Korea)
O50	1136	Upcycling of Mustard Seed Processing By-Products: A Comprehensive Profiling of Mustard Bran
		Phenolics and Glucosinolates and their Antioxidant Potential after Solid-State Fermentation by
		Rhizopus Spp.
		Joy Roasa - Agriculture and Agri-Food Canada (Canada)
051	1157	Hydrothermal-Assisted Co-Recovery of Pectin, Phenolics, and Sugars Coupled with Development
		of Highly Functional Insoluble Dietary Fibres from Apple Pomace
		Sachin Talekar - Deakin University (Australia)
052	1115	Antioxidant Potential of Lophiomus Setigerus-Bone Hydrolysate Against H2O2-Induced Oxidative
		Stress In Vitro and In Vivo
		<b>Li Yiqiao -</b> Jeju National University (Republic of Korea)

# Session 10: Food Production, Processing (Including Ultra-Process), Nutrition, and Health

# **Moderators:**

Woo-Ju Kim (Seoul National University of Science and Technology, Republic of Korea) Farnaz Maleky (The Ohio State University, USA)

O53	1091	Physical and Tribo-Rheological Properties of Agglomerated Guar Gum with Fucoidan Binder
		Juneha Bak - Dongguk University-Seoul (Republic of Korea)
054	1058	Novel Approach for Control of Food Safety: Potential of AI Technolgoy
		Woo-Ju Kim - Seoul National University of Science and Technology (Republic of Korea)

O55	1170	Impact of Confinement-Based Sucrose Feeding on Honey Yield, Physicochemical Properties and Microbial Composition of Heterotrigona Itama Stingless Bee Species  Rabiatul Adawiah Mohd Noor - Universiti Putra Malaysia (Malaysia)
O56	1146	Protein–Lipid Colloidal Matrices for Enhanced Structural Fidelity in 3D Food Printing  Farnaz Maleky - The Ohio State University (USA)
O57	1078	Quality Evaluation of Brown Rice-Based Flaked Breakfast Cereal Enriched with Defatted Soybean and Ginger Blends  Mojisola Oladapo - Obafemi Awolowo University (Nigeria)
058	1211	Al-Driven Enzyme Discovery and Evolution for Functional Food and Nutraceutical Innovation  Zilong Qiu - Matwings Technology Co., Ltd. (China)

# Session 11: Functional Lipids, Omega-3, and Dietary Supplement

#### **Moderators:**

Chin-Kun Wang (Chung Shan Medical University, Taiwan) Jaroslav Kralovec (Apollo Advanced Biosciences, Canada)

O59	1204	Long-Chain Fatty Acid-Derived Therapeutics: Emerging Frontiers in Lipid-Based Medicines
		Jaroslav Kralovec - Apollo Advanced Biosciences (Canada)
O60	1076	Improvement of Gac Fruit Aril Oil on Eyes and Skin
		Chin-Kun Wang - Chung Shan Medical University (Taiwan)
061	1110	Bioprocessing of Squid Viscera for Production of Omega-3 Rich Oil
		Asavari Achyut Joshi - Deakin University (Australia)
062	1065	Correlating Surface Activity with the Foaming Properties of Milk Upon Limited Lipolysis
		Nguyen Nam Dung Phan - University of Guelph (Canada)
O63	1049	Development and Evaluation of Vitamin D Fortified Cream Sandwich Biscuits for Addressing
		Micronutrient Deficiency in School-Age Children
		Sana Sadaat - Government College University Faisalabad (Pakistan)
O64	1045	Structured Lipids Containing DHA and EPA: Potential Nutritional and Health Benefits
		Lanh Van Nguyen - Memorial University of Newfoundland (Canada)

# Session 12: Traditional and Novel Approcahes for Bioavailability Improvement

#### **Moderators:**

Nandika Bandara (University of Manitoba, Canada) Kaustav Majumder (University of Nebraska-Lincoln, USA)

O65	1102	Traditional and Novel Approaches to Evaluate the Digestion and Absorption of Carbohydrates
		Tong Wang – Southeast University (China)
066	1148	Relationship between Hydroxyproline Peptides Concentration in Human Blood and Condition of
		Osteoarthritis after 12 Weeks of Collagen Peptide Ingestion
		Yasutaka Shigemura - Tokyo Kasei University (Japan)
067	1132	Taste Engineering: Next-Gen Savory Peptides Via Peptidomics and Computational Chemistry
		Kaustav Majumder - University of Nebraska-Lincoln (USA)

O68	1180	Natto-Derived Dipeptide Gln-Gln Improves Cognitive Function through BBB Penetration and
		Hippocampal Modulation
		Shigeru Katayama - Shinshu University (Japan)
<b>O</b> 69	1155	In Vitro Digestive Stability of Extracellular Polysaccharides from Bifidobacterium Animalis RH and Analysis
		of Prebiotic Effects
		Shuyuan Shi And Nan Shang - China Agricultural University (China)
070	1210	Unlocking the Gut Health Benefits of Indigenous Fermented Foods and Underutilised Crops in Borneo
		and Malaysia: Bridging Traditional Practices with Functional Nutrition
		Shahrul Razid Sarbini - Universiti Putra Malaysia (Malaysia)

# September 17, 2025 (Wednesday)

#### Session 13: Flash Talk Session

#### **Moderators:**

Fereidoon Shahidi (Memorial University of Newfoundland, Canada) Ronald B. Pegg (University of Georgia, USA)

**Notes:** Awards consist of a certificate and cash. All invited finalists must be a member of ISNFF, so applications fees for 2025 will be deducted from the cash payment to ensure membership compliance (please have your membership application completed if you are invited and are not an ISNFF member already). Selected students (up to 15) from oral and poster sessions will advance to the flash talk session upon invitation. Therefore, all student presenters are expected to be prepared for giving a 5 min (3 min talk with 3 slides + 2 min questions) talk. There will be a maximum of 15 awards to be presented for the first (one awardee), second (two awardees), third place (three awardees) and the rest as honorable mention. Awards (1st-3rd) consist of a certificate and cash.

#### Session 14: R&D of Functional Foods, Nutraceuticals, and Dietary Supplements

#### **Moderators:**

Shiming Li (Huanggang Normal University, China) Nae-Cherng Yang (Chung Shan Medical University, Taiwan)

071	1176	The Protective Effects of Gastrodia Elata Biophytochemicals on Brain Diseases
		Shiming Li - Huanggang Normal University (China)
072	1135	The Synthesis, Toxicity, and Safety Profile of Parapyruvate
		Nae-Cherng Yang - Chung Shan Medical University (Taiwan)
073	1048	Oral Administration of Cysteine Peptides Attenuates UV-B-Induced Skin Erythema and Pigmentation and
		Increases Skin Brightness in Humans
		Ayako Sakuma - Mitsubishi Corporation Life Sciences Limited (Japan)
074	1107	Synergistic Antimicrobial Potential of Herbal Extract-Based Nanoparticles from Azadirachta Indica, Aloe
		Vera Barbadensis, and Curcuma Longa
		Ghulam Mustafa Kamal - Khwaja Fareed University (Pakistan)
075	1082	Valorization of Agricultural By-Products Using Electrolysis Technology for Development of Functional
		Food
		Parkash Meghwar - University of Karachi (Pakistan)
076	1179	Effect of Curcumin on STX-Induced Brain Glucose Metabolic Dysregulation and Neurotoxicity in Lobster
		Cockroach Modell
		Kehinde Aluko - Federal University of Technology (Nigeria)

# Session 15: Functional Carbohydrate, Controlled-Release, and Bioactive Valorization

#### **Moderators:**

Amin Bin Ismail (Universiti Putra Malaysia, Malaysia) Gow-Chin Yen (National Chung Hsing University, Taiwan)

077	1111	Health-Promoting Properties and Components of Wheat Fermented by Schizophyllum Commune
		Mushroom
		Amin Bin Ismail - Universiti Putra Malaysia (Malaysia)
078	1062	RS4 Tapioca Resistant Starch Ameliorates High-Fat Diet-Induced Obesity in Mice by Modulating Lipid
		Metabolism and Gut Microbiota
		Gow-Chin Yen - National Chung Hsing University (Taiwan)
079	1050	Nanoemulsion-Based Delivery of Chrysin for Enhanced Functional Efficacy in Food Applications
		Yuna Lee - Korea Atomic Energy Research Institute (Republic of Korea)
080	1201	Exploring Fruit Biowaste Bioactive Compounds for Development of Functional Food and Drug Therapies
		Shivraj Nile - National Agri-Food Biotechnology Institute – NABI (India)

# Session 16: Spices, Fruits/Vegetables, Nuts, Microbiome

# **Moderators:**

Yuan Soon Ho (China Medical University, Taiwan)

Yao Tang - Tianjin University of Science and Technology (China)

081	1185	Assessment of Anti-Inflammatory Potential of Georgia Pecan Phenolics Using Murine and Human
		Macrophages
		Ronald B. Pegg - University of Georgia (USA)
082	1126	Total Saponin, Polysaccharide, Tannin, and Flavonoid Contents, and DPPH Inhibitory Activity of <i>Ilex</i>
		Annamensis, Ilex Cochinchinensis, Ilex Rotunda, and Ilex Triflora Crude Methanol Extracts
		An Chieu Tran - Vietnam Academy of Science and Technology (Vietnam)
O83	1133	Dietary Γ-Glutamyl Valine: A Novel Modulator of Gut Microbiota for Atherosclerosis Alleviation
		Kaustav Majumder - University of Nebraska (USA)
O84	1178	Phloretin Increases Anti-HER2 Antibody Drug Affinity for Cancer Cells as an Adjunct Therapy for Drug-
		Resistant Tumors in HER2-Positive Breast Cancer
		Yuan Soon Ho - China Medical University (Taiwan)
O85	1137	A Novel Thermal Processing Approach to Enhance Target Phytochemicals in Medicinal-Edible Plants for
		High-Value Nutraceuticals
		Yao Tang - Tianjin University of Science and Technology (China)

# Session 17: Analytical Methods, Molecular Docking Combined with Cereals and Legumes

#### **Moderators:**

Banu Sezer (Anton Paar GmbH, Austria) Heather Burke (Marine Institute, Memorial University, Canada)

O86	1183	Multimodal Analytical Approaches for Enhancing Quality in Functional Food Systems
		Banu Sezer - Anton Paar Gmbh (Austria)
087	1196	Combined Nitrogen and Sulfur Fertilization on the Structural and Physicochemical Properties of
		Buckwheat Starch
		Licheng Gao - Ghent University (Belgium)
088	1166	Investigating Protein Hydrolysates as Dual DPP-IV and ACE Inhibitors through Integrated In Silico And In
		Vitro Approaches
		Ali Iqbal - China Medical University (Taiwan)
O89	1055	Metabolomics-Driven Discovery of Bioactive Compounds in Functional Foods for Health and
		Therapeutic Applications
		Doralyn Dalisay - University of San Agustin (Philippines)

# Session 18: Marine and Aquaculture Products, Carotenoids, Regulation and Others

#### **Moderators:**

Deepika Dave (Marine Institute of Memorial University of Newfoundland, Canada) Ye Hui (Nanyang Technological University, Singapore)

O90	1129	Assessment of Bioaccessibility of Dietary Carotenoid Compounds from Durum Wheat
		Trust Beta - University of Manitoba (Canada)
091	1195	Exploring High-Value Applications of Atlantic Seaweeds: A Multi-Sectoral Perspective
		Deepika Dave - Memorial University of Newfoundland (Canada)
092	1113	Sargassum Swartzii-Derived Sulfated Polysaccharides Attenuate Urban Particulate Matter-Induced
		Lung Inflammation <i>Via</i> Inhibition of TLR-Mediated NF-ĸB Signalling
		Dinusha Shiromala Dissanayake - Jeju National University (Republic of Korea)
O93	1212	Naringin Ameliorates Obesity Via Stimulating Adipose Thermogenesis, Promoting Browning, and
		Modulating Gut Microbiota in Diet-Induced Obese Mice
		Ye Hui - Nanyang Technological University (Singapore)