

Room	Time	Session Code	Lecture Title	Speakers	Country
[Day 2] April 29 (Monday)					
Plenary Lecture					
[PL 1] Plenary 1					
Tanna A (3F)	Chairperson :				
	08:30-09:30	PL-1	Beautiful and Familiar Seaweeds in Jeju Islands; Diversity and Distribution	Sung Min BOO	Korea
Mini Symposium					
[MS 01] Algal taxonomy – an update after 25 years of molecular phylogenetics					
303 (3F)	Chairperson : Olivier De Clerck (Belgium), Hwan Su Yoon (Korea)				
	09:45-10:05	MS01-1	Red Algal Tree of Life and Its Recent Update	Hwan Su Yoon	Korea
	10:05-10:25	MS01-2	Systematics of green seaweeds (Ulvophyceae), recent progress and challenges	Olivier De Clerck	Belgium
	10:25-10:45	MS01-3	Evolutionary Relationships Of Heterokont Algae Based Upon Gene And Genome Phylogenies.	Robert Andersen	United States
	10:45-11:05	MS01-4	Phylogenetic studies in brown algae with special reference to the early evolution of Laminariales and taxonomic revision of Ectocarpales	Hiroshi Kawai	Japan
[MS 02] Seaweed-to-biofuel: Overview of different biotechnological approaches					
Halla A (3F)	Chairperson : Bert GROENENDAAL (Belgium), Jaap van Hal (The Netherlands)				
	09:45-10:05	MS02-1	Biochemical Conversions of Seaweed for Combined Ethanol and Feed Ingredients Production	Trine Sofie Bladt	Denmark
	10:05-10:25	MS02-2	Economics and environmental sustainability of biological seaweed-to-fuel/energy conversion	Jay LIU	Korea
	10:25-10:45	MS02-3	Offshore Green Algae Seagriculture in Israel For Biorefinery and Bioeconomy	Alexander GOLBERG	Israel
	10:45-11:05	MS02-4	Replacing the fossil C-molecule	Justus Wouters	The Netherlands
[MS 03] Seaweed cultivation and breeding for the future					
Halla B (3F)	Chairperson : Eun Kyoung HWANG (Korea), Shaojun PANG (China)				
	09:45-10:05	MS03-1	Seaweed Cultivation and Breeding Programs to Adapt Environmental Changes in Korea	Eun Kyoung HWANG	Korea
	10:05-10:25	MS03-2	Current Status and Assignments of Seaweed Cultivation and Breeding in Japan	Norishige YOTSUKURA	Japan
	10:25-10:45	MS03-3	Seaweed farming in China has benefited from application of cultivars	Shaojun PANG	China
	10:45-11:05	MS03-4	Micropropagation of Selected Kappaphycus Strains For the Purpose of Boosting the Supply of Much Needed, New Cultivars for Commercial Farming	Anicia HURTADO	Philippines
[MS 04] Mechanisms responding to metabolic stressors in microalgae.					
Samda A (3F)	Chairperson : Jae-Hyeok Lee (Canada)				
	09:45-10:05	MS04-1	Signaling pathways Regulating Photosynthesis in Response to Nutrient Starvation and Trophic Regimes.	Jae-Hyeok Lee	Canada
	10:05-10:25	MS04-2	The bZIP1 Transcription Factor Regulates Lipid Remodeling and Contributes to ER Stress Management in Chlamydomonas reinhardtii	Yasuyo Yamaoka	Korea
	10:25-10:45	MS04-3	Gene silencing in microalgae	Eun-Jeong Kim	Korea
	10:45-11:05	MS04-4	Algae-Microbe Interaction – A New Twist To Biological Nitrogen Fixation	Sowmyalakshmi Subramanian	Canada
[MS 05] Macroalgal blooms on the rise around the world					
Samda B (3F)	Chairperson : Peimin He (China), Jang Kim (Korea)				
	09:45-10:05	MS05-1	Annual periodic formation process for the world's largest Ulva blooms in the Yellow Sea	Peimin He	China
	10:05-10:25	MS05-2	Golden Tide Seaweeds in Korean Waters: Genetic and Genomic Comparisons between Floating and Benthic Populations	Hyuk Je Lee	Korea
	10:25-10:45	MS05-3	Challenges and opportunities in relation to Sargassum blooms along the coast of the Mexican Caribbean	Daniel Robledo	Mexico
	10:45-11:05	MS05-4	Speciation and Identification of Species in Green Tide Forming Ulva Species Complex	Masanori Hiraoka	Japan
Oral Session					
[OR 01] Open water seaweed aquaculture <1>					
Halla A (3F)	Chairperson :				
	14:00-14:15	OR01-1	Manipulating Sporophyte Morphology Towards an Enhanced Productivity of Macrocyctis Pyrifera (Ochrophyta)	Alejandro Buschmann	Chile
	14:15-14:30	OR01-2	The Development of Seaweed Farming in Europe - Environmental Impacts and Prioritizing Key Knowledge Gaps	Adrian Macleod	United Kingdom
	14:30-14:45	OR01-3	Latitudinal and Seasonal Variations of Growth and Chemical Content of the Sugar Kelp <i>Saccharina latissima</i> Along the Norwegian Coast	Silje Forbord	Norway
	14:45-15:00	OR01-4	Challenges in scaling up to massive self-sustaining seaweed farms	Sri Sailaja Nori	India
	15:00-15:15	OR01-5	Biomass Allocation of the Brown Alga <i>Sargassum fusiforme</i> and Its Relationship With Modules	Jingyu Li	China
	15:15-15:30	OR01-6	Effect Of Vector And Direct Seeding On Growth Of Sugar Kelp <i>Saccharina latissima</i> At Sea	Jorunn Skjermo	Norway
[OR 02] Algal natural products, functional foods and pharmacology <1>					
Halla B (3F)	Chairperson :				
	14:00-14:15	OR02-1	Biofertilizing Efficacy of the Cyanobacteria <i>Fischerella</i> Sp. Encapsulated in Alginate-Chitosane in the Growth of Radish	Gustavo Hernández	Mexico
	14:15-14:30	OR02-2	TPG Clade Cryptomonads as a New Microalgal Group to Enrich Zooplankters For Marine Larviculture	Wonho Yih	Korea
	14:30-14:45	OR02-3	Marine Algae in French Polynesia: From Traditions to Innovation	Mayalen Zubia	France
	14:45-15:00	OR02-4	Development of Koji on <i>Nori Pyropia yezoensis</i> and Application to Nori Sauce Manufacture	Motoharu Uchida	Japan
	15:00-15:15	OR02-5	Anti-Parkinson's Effects and Mechanism of Oligosaccharides Derived From <i>Pyropia yezoensis</i>	Quanbin Zhang	China
	15:15-15:30	OR02-6	R-Phycocerythrin : New Advances on Extraction and Characterization. Impact of the Enzymatic Assisted Extraction	Justine Dumay	France
[OR 03] Algal blooming <1>					
Samda A (3F)	Chairperson :				
	14:00-14:15	OR03-1	Monitoring and Management of the Drifting <i>Sargassum Horneri</i> Golden Tide in Korea	Sangil Kim	Korea
	14:15-14:30	OR03-2	Golden Tides in the Yellow Sea and East China Sea: Formation and Management	Jianheng Zhang	China
	14:30-14:45	OR03-3	The development of bioactives from blooming seaweeds in Normandy, France: the ENTEROMORPHE and SNOTRA projects	Benoit Queguineur	France
	14:45-15:00	OR03-4	Seasonal Population Dynamics of the 'golden Tides' Seaweed, <i>Sargassum Horneri</i> on the Southern Coast of Korea: the Extent and Formation of Golden Tides	SANG RUL PARK	Korea
	15:00-15:15	OR03-5	Fast and Accurate Quantification of <i>Alexandrium Catenella</i> in Very Small Abundance Using DdPCR	Hyemi Kim	Korea
15:15-15:30	OR03-6	Enrichment processes for the production of high-protein feed from the green seaweed <i>Ulva ohnoi</i>	Marie Magnusson	New Zealand	

[OR 04] Taxonomy and diversity <1>					
Samda B (3F)	Chairperson :				
	14:00-14:15	OR04-1	TBC	TBC	TBC
	14:15-14:30	OR04-2	TBC	TBC	TBC
	14:30-14:45	OR04-3	REVISITING SOME RECORDS OF MARINE RED ALGAE BELONGING TO THE DELESSERIAEAE (RHODOPHYTA) WITHIN THE SOUTH CHINA SEA BASIN	Lawrence Liao	Japan
	14:45-15:00	OR04-4	STATUS AND DIVERSITY OF EUCEUMOID IN WESTERN INDIAN OCEAN (WIO) REGION: TOWARDS SUSTAINABLE FARMING IN TANZANIA	Gloria Kavita Yona	United Republic of Tanzania
	15:00-15:15	OR04-5	Phylogenomics of the Ceramiales: How Many Families Should We Recognize?	Pilar Diaz-Tapia	Spain
	15:15-15:30	OR04-6	<i>Corallina berteroi</i> (Corallinales, Rhodophyta) an Earlier Name For the Cosmopolitan <i>Corallina caespitosa</i>	Paul Gabrielson	United States
[OR 05] Ecology <1>					
303 (3F)	Chairperson :				
	14:00-14:15	OR05-1	Reduced Biomass of the Kelp, <i>Saccharina Japonica</i> , Affects Gonad Production of Sea Urchins For Following Years Off Northeastern Japan	Kosuke Yatsuya	Japan
	14:15-14:30	OR05-2	Photosynthetic Characteristics and Chloroplast Position of <i>Ulva Conglabata</i> (Ulvophyceae) under Continuous Light and Dark Conditions	Jayvee Saco	The Philippines
	14:30-14:45	OR05-3	Arctic Kelp Ecophysiology in a Warming Winter Scenario	Kai Bischof	Germany
	14:45-15:00	OR05-4	Habitat Mapping to Inform Customary Protection of Key Fisheries Habitats	Matthew Desmond	New Zealand
	15:00-15:15	OR05-5	Thallus Architecture and Phenology as Tools For Understanding Ecological Impacts of Harvesting the Economically Important Seaweed <i>Ascophyllum Nodosum</i> (Phaeophyceae)	David Garbary	Canada
	15:15-15:30	OR05-6	The Feasibility and First Steps of Restoring Australia's Disappearing Giant Kelp (<i>Macrocystis Pyrifera</i>) Forests	Cayne Layton	Australia
[OR 06] Open water seaweed aquaculture <2>					
Hallia A (3F)	Chairperson :				
	15:50-16:05	OR06-1	Development of Scalable Coastal and Offshore Macroalgal Farming in New England and Alaska	Michael Stekoll	United States
	16:05-16:20	OR06-2	Different cultivation practices, to increase the yield of Sugar kelp (<i>S. latissima</i>), in an estuarine environment	Teis Boderskov	Denmark
	16:20-16:35	OR06-3	Biosecurity policy and practice in the global seaweed industry - improving existing frameworks to limit the spread of pests and disease.	Iona Campbell	United Kingdom
	16:35-16:50	OR06-4	Ecosystem impact of Large-scale Macroalgae Cultivation	Annette Bruhn	Denmark
	16:50-17:05	OR06-5	Intelligent Management System for Integrated Multi-Trophic Aquaculture (IMPAQT)	Kati Michalek	United Kingdom
	17:05-17:20	OR06-6	The gastropod mollusc <i>Lacuna vincta</i> as threat to macroalgal aquaculture in NW Europe	Phil Kerrison	United Kingdom
	17:20-17:35	OR06-7	Aquaculture Act and Cultivation of Seaweed and Harvesting of Kelp in Norway	Frode Hovland	Norway
	17:35-17:50	OR06-8	<i>Ulvaria pinnatifida</i> is a commercially important brown alga. As a sea vegetable of high value consumed in East Asia, the blade surface feature (smooth or wrinkled) determines its commercial value on the market. Smooth blade is more favored. However, how the blade surface feature of <i>U.</i>	Tifeng Shan	China
[OR 07] Algal natural products, functional foods and pharmacology <2>					
Hallia B (3F)	Chairperson :				
	15:50-16:05	OR07-1	Microencapsulation of Chlorophyll From <i>Caulerpa Racemosa</i> (Sea Grape) Using Fish Gelatine and Arabic Gum as Coating Material	Eko Nurcahya Dewi	Indonesia
	16:05-16:20	OR07-2	Green Extraction of Sulphated Polysaccharides and Alginate From the South African Kelp <i>Ecklonia Maxima</i> , by Subcritical Water Hydrolysis	Neill Goosen	South Africa
	16:20-16:35	OR07-3	Nutrient Composition, Antioxidant Activity and Blood Pressure Lowering Effect of Brown Seaweed, <i>Sargassum Polycystum</i> Enriched Bread in Prehypertensive Subjects	Patricia Matanjun	Malaysia
	16:35-16:50	OR07-4	By-Products From Seaweed Industry as Source of Anti-Obesity Bio-Actives: a Preliminary in Vitro Study to Compare Extracts From Three Seaweed Species	Benoit Queguineur	United Kingdom
	16:50-17:05	OR07-5	R-Phycocyanin of Selected Red Algal Species From the Baltic Sea	Mihkel Saluri	Estonia
	17:05-17:20	OR07-6	Preparation, Characterization and Anti-Helicobacter Pylori Activity of Algin-based Bismuth Polyuronate	Xiancui Li	China
	17:20-17:35	OR07-7	Red seaweed derived natural products for crop protection	Girish TR	India
	17:35-17:50	OR07-8	TBC	TBC	TBC
[OR 08] Pathogen and disease					
Samda A (3F)	Chairperson :				
	15:50-16:05	OR08-1	1-Octen-3-ol, a Self-stimulating Oxylipin Messenger, Can Prime and Induce Defense of Marine Algae	Haimin Chen	China
	16:05-16:20	OR08-2	Prophylactic Activation of Self-defence: a Suitable Crop Protection Concept For Kelp Aquaculture?	Florian Weinberger	Germany
	16:20-16:35	OR08-3	Exploring the Molecular Bases of Biotic Interactions Between <i>Saccharina Latissima</i> and an Algal Endophyte	Catherine Leblanc	France
	16:35-16:50	OR08-4	Designing a Study to Investigate Observed Anomalies on Cultivated Seaweed (<i>Eucheuma</i>)	Ivy Matoju	United Republic of Tanzania
	16:50-17:05	OR08-5	Disease and pest assessment on farmed carrageenophytes in Central and Southern Philippines	Joseph P. Faisan Jr.	The Philippines
	17:05-17:20	OR08-6	Transcriptomic analysis of innate immunity-related genes in response to necrotrophic pathogen <i>Pythium porphyrae</i> in the red alga <i>Pyropia yezoensis</i>	LEI TANG	China
	17:20-17:35	OR08-7	Pathogens of New Zealand Bangiales	Giuseppe Zuccarello	New Zealand
17:35-17:50	OR08-8	Defense Responses Triggered by the 22 Amino Acid Peptide (flg22V63) Deduced From the N-terminus Domain of Pathogenic Bacterium Flagellin in <i>Saccharina Japonica</i>	Gaoge Wang	China	

[OR 09] Taxonomy and diversity <2>				
Samda B (3F)	Chairperson :			
	15:50-16:05	OR09-1	Preliminary Assessment of the Diversity of Farmed Eucheumatoids in Central and Southern Philippines	Rema C. Sibonga The Philippines
	16:05-16:20	OR09-2	Organelle Genome Variation Architecture and Population Genetic Analysis of Chinese <i>Pyropia yezoensis</i> Assessed by Whole-Genome Resequencing	Kuipeng Xu China
	16:20-16:35	OR09-3	Molecular Investigations Of The Globally Distributed Agar-producing Genus <i>Pterocladia</i> (Gelidiales, Rhodophyta): How Much Species Diversity? Where Did It Originate? How Did It Disperse?	GaHun Boo Korea
	16:35-16:50	OR09-4	Gracilariaceae Phylogenomics: Congruence of Organellar and Nuclear Trees	Mariana C. Oliveira Brazil
	16:50-17:05	OR09-5	Exploring the genetic resources of a marine crop – Eucheuma and Kappaphycus in the spotlight	Janina Brakel United Kingdom
	17:05-17:20	OR09-6	Reinstatement of the family Grateloupiaceae (Halymeniales, Rhodophyta) based on the reproductive structures	HYUNG WOO LEE Korea
	17:20-17:35	OR09-7	Taxonomic Investigation Of Ralfsia-Like (Ralfsiales, Phaeophyceae) Taxa In The North Atlantic Ocean Based On Molecular And Morphological Data, With Descriptions Of One Novel Family And Two Novel Genera And Species	Manuela I. Parente Portugal
	17:35-17:50	OR09-8	TBC	TBC TBC
[OR 10] Ecology <2>				
303 (3F)	Chairperson :			
	15:50-16:05	OR10-1	Effects of Light Quality and Temperature on the Photosynthesis and Pigment Content of an Edible Red Alga <i>Meristotheca Papulosa</i> (Solieriaceae, Gigartinales) From Kagoshima, Southern Japan	Iris Ann Borlongan Japan
	16:05-16:20	OR10-2	<i>Sargassum plagiophyllum</i> population structure in Southern Thailand	Anchana Prathep Thailand
	16:20-16:35	OR10-3	The importance of Habitats Dominated by Macroalgae in the Shallow Tropical Seascape of East Africa	Christina Halling Sweden
	16:35-16:50	OR10-4	TRAVELING IN ICE COLD WATER: FLOATING ALGAE IN ANTARCTIC PENINSULA	Erasmio Macaya Chile
	16:50-17:05	OR10-5	Nitrogen and phosphorus ecophysiology of coralline algae	Hang Nguyen Vietnam
	17:05-17:20	OR10-6	Reduction and core bed protection of macroalgae on the coasts of Ojika Island, off Western Kyushu, Japan	Daisuke Fujita Japan
	17:20-17:35	OR10-7	Effects on Cover, Abundance and Development of Early Stages of Brown Seaweed <i>Lessonia Spicata</i> Exposed to Contaminated Coastal Waters of Central Chile	Carolina Oyarzo Chile
	17:35-17:50	OR10-8	Photosynthetic Responses in Two Population of the Red Seaweed, <i>Gracilaria salicornia</i> , from Japan and Thailand	Jantana Praiboon Thailand
Lobby (5F)	18:00-19:30	Poster Session		

[Day 3] April 30 (Tuesday)					
Plenary Lecture					
Tamna A (SF)	[PL 2] Plenary 2				
	Chairperson :				
08:30-09:20	PL-2	Microalgae as sustainable photosynthetic green cell factories in biotechnology	Olaf Kruse	Germany	
Tamna A (SF)	[PL 3] Plenary 3				
	Chairperson :				
09:20-10:10	PL-3	The aquaculture and aliens paradox: Could the reliance of the seaweed aquaculture industry on non-native species lead to its' downfall?	Elizabeth J Cottier-Cook	United Kingdom	
Mini Symposium					
Tamna A (SF)	[MS 06] The envisioned bumpy road towards an industrial scaled seaweed aquaculture around the globe				
	Chairperson : Alexander EBBING (The Netherlands)				
	10:35-10:55	MS06-1	The Necessity Of Cheap And Reliable Gametophyte Propagation As A Bedrock For A Thriving Global Kelp Aquaculture.	Alexander EBBING	The Netherlands
	10:55-11:15	MS06-2	Mechanized Seaweed Farming	Bert GROENENDAAL	Belgium
	11:15-11:35	MS06-3	Offshore seaweed cultivation – proven and scalable methods	Olavur GREGERSEN	Faroe Islands
11:35-11:55	MS06-4	Process and Economics of Large Scale Seaweed Bio-Refineries	Jaap Willem Van Hal	The Netherlands	
Halla A (3F)	[MS 07] Microalgae; from test tube to market				
	Chairperson : EonSeon Jin (Korea), Michael Borowitzka (Australia)				
	10:35-10:55	MS07-1	Metabolic engineering of microalgae via genome editing method to enhance the production of antioxidant rich algae-oil.	EonSeon Jin	Korea
	10:55-11:15	MS07-2		Qiang Hu	China
	11:15-11:35	MS07-3	Cultivation strategy for Ectlia sp. YC001 depending on the target materials	Hee-Mock Oh	Korea
11:35-11:55	MS07-4	Dunaliella salina beta-carotene: from the lab to commercialisation	Michael Borowitzka	Australia	
Halla B (3F)	[MS 08] Hologenomics and evolution of algal symbiosis				
	Chairperson : Cheong Xin CHAN (Australia)				
	10:35-10:55	MS08-1	Endosymbiosis and environmental adaptation lead to foreign gene acquisition in algal lineages	Debashish BHATTACHARYA	United States
	10:55-11:15	MS08-2	Genomic Insights Into the Virulence Mechanisms Used by Bacterial Pathogens of Seaweeds	Suhelen EGAN	Australia
	11:15-11:35	MS08-3	Interrogating Evolution for Solutions to Algal Diseases	Claire Gachon	United Kingdom
11:35-11:55	MS08-4	Understanding coral-dinoflagellate symbiosis using genomics and hologenomics	Cheong Xin CHAN	Australia	
Samda A (3F)	[MS 09] Special session for women in algae science				
	Chairperson :				
	10:35-10:50	MS09-1	Korean Initiatives Working Towards Gender Equality in STEM	Heisook Lee	Korea
	10:50-11:05	MS09-2	Women in Science- in Seaweed and Denmark	Susan Løvstad Holdt	
	11:05-11:20	MS09-3	Women in Algae Science: Korean Prospective	Jin Ae Lee	Korea
11:20-11:35	MS09-4	Surviving and Thriving: Wisdom from the Past and Inspiration for the Future (or How I Have Survived as a Female Phycologist)	Juliet Brodie		
11:35-11:55	MS09-5	Algae Science and the Gendered Roles Based on the 4th Industrial Revolution	Mi-Kyung Kim	Korea	
Samda B (3F)	[MS 10] Seaweed and climate change				
	Chairperson : Ik Kyo CHUNG (Korea), Hiroshi KAWAI (Japan)				
	10:35-10:55	MS10-1	Carbon Budget in the Seaweed Farm, A Life Cycle Analysis	Put O. ANG, Jr.	Hong kong
	10:55-11:15	MS10-2	Vulnerability and Mitigation Potential of Temperate Australian Seaweeds in a Changing Climate	Alecia BELLGROVE	Australia
	11:15-11:35	MS10-3	Regeneration Of Ocean Forests: The Importance Of Seaweed	Pål Bakken	Portugal
11:35-11:55	MS10-4	Integrated Multi-Trophic Aquaculture (IMTA): A Critical Analysis Towards The Use Of Seaweed For N and C Mitigation	Alejandro H. BUSCHMANN	Chile	
Halla A (3F)	[MS 11] Innovative approaches to controlling pests and diseases in seaweed aquaculture				
	Chairperson : Elizabeth COTTIER-COOK (United Kingdom), Juliet BRODIE (United Kingdom)				
	13:05-13:25	MS11-1	Diversified Aquaculture Production and Markets- Seaweeds and Sustainable Development Goals	Nidhi NAGABHATLA	Canada
	13:25-13:45	MS11-2	Marine Biosecurity Frameworks For Aquaculture	Chad HEWITT	New Zealand
	13:45-14:05	MS11-3	Challenges for the sustainable Pyropia farming: newly arising diseases and changing environment	Gwang Hoon KIM	Korea
	14:05-14:25	MS11-4	Microbiome Shifts In The Agarophyte Gracilaria Under High Temperature And Grazing Events: Understanding Potential Disease Causes	Lim Phaik EEM	Malaysia
	14:45-15:05	MS11-5	Epiphytes Susceptibility and Sustainability of Algae Farms, the Host Point of View: Population Genetics of Gracilaria Chilensis Assesse	Marie-Laure GUILLEMIN	Chile
	15:05-15:25	MS11-6	SEAWEED INDUSTRY TRENDS IN TANZANIA: SUCCESS AND CONSTRAINTS.	Amelia BURIYO	Tanzania
	15:25-15:45	MS11-7	The Host and the Holobiome: A Study of The Carrageenophyte Chondrus crispus	Georgia WARD	United Kingdom
15:45-16:05	MS11-8	Host and pathogen autophagy are central to the inducible resistance of brown algae against intracellular parasitic water moulds	Pedro Murua ANDRADE	United Kingdom	
Halla B (3F)	[MS 12] Seaweed derived bioactives compounds				
	Chairperson : Charles S. VAIRAPPAN (Malaysia), Damien N. STRINGER (Australia)				
	13:05-13:25	MS12-1	Structural Diversity and Bioactive Potential of Halogenated Secondary Metabolites From Four Major Species of Red Algae Genus Laurencia	Charles S. VAIRAPPAN	Malaysia
	13:25-13:45	MS12-2	The effects of marine algal natural products on skeletal muscle growth and inflammatory myopathy	You Jin JEON	Korea
	13:45-14:05	MS12-3	Fucoidan as an Integrative Therapy	Damien N. STRINGER	Australia
	14:45-15:05	MS12-4	Potential Antioxidant and Antiobesity Effect of Bioactive Components From Sargassum Thunbergii Extract	Hyo Geun Lee	Korea
	15:05-15:25	MS12-5	Isolation of secondary metabolites from marine cyanobacteria and their biosurfactant activity	Jakia Jarin Mehjabin	Japan
	15:25-15:45	MS12-6	Proteomic insights on fucoxanthin biosynthesis regulation in microalgae Phaeodactylum tricornutum under light limitation.	Manoj Kumar	Australia
	15:25-15:45	MS12-7	Squalene-derived polyethers, inhibiting Adult T-cell Leukemia cell, isolated from the red alga, Chondria armata	Toshiyuki Hamada	Japan
15:45-16:05	MS12-8	Brown Algal Extracts For Gut Health Applications	Ah Young Park	Australia	

Oral Session					
[OR 11] Biostimulants					
Chairperson :					
Samda A (3F)	13:00-13:15	OR11-1	Brown Algal Extracts (AMPEP, Kelpak®) Influence Growth and Thermal Resistance in Saccharina Spp.	Schery Umanzor	United States
	13:15-13:30	OR11-2	GROWTH AND EPIPHYTIC RESPONSES OF <i>GRACILARIA FISHERI</i> TO THE SEAWEED EXTRACT AMPEP UNDER CONTROLLED-CULTURE CONDITIONS	Anong Chirapart	Thailand
	13:30-13:45	OR11-3	OPTIMIZATION AND GROWTH PERFORMANCE OF TISSUE CULTURE USING MICROPROPAGATION TECHNIQUE FOR SELECTED COMMERCIAL KAPPAPHYCUS, IN THE LABORATORY UNTIL OUTPLANTING IN THE FIELD (NURSERY STUDIES)	MAJID KHAN	Malaysia
	13:45-14:00	OR11-4	Red Seaweed Derived Bioformulation, AgroGain, Improves Crop Yields by Enhancing Photosynthesis, Metabolism and Nutrient Uptake	Sri Sailaja Nori	India
	14:00-14:15	OR11-5	Seaweed Extracts For Plant Growth & Nutrition	Cécile LE GUILLARD	France
	14:15-14:30	OR11-6	Tropical seaweed based agricultural bio-stimulant (SAGARIKA of IFFCO) for the improvement of crop production and plant health	Shanmugam Munisamy	India
[OR 12] Climate change and ocean acidification <1>					
Chairperson :					
Samda B (3F)	13:00-13:15	OR12-1	Global Climate Change and Macrocyctis Pyrifera (Ochrophyta): Does Environmental History Affect the Ability to Acclimate to Future Oceanic Conditions?	Pamela Fernandez	Chile
	13:15-13:30	OR12-2	TBC		TBC
	13:30-13:45	OR12-3	TBC		TBC
	13:45-14:00	OR12-4	<i>Diploneis serrate</i> (Bacillariophyceae), A New Diatom Species From Kenting, Taiwan, And The Structural Mechanistic Analysis Of The Striae Pattern Of Its Frustrule Under Shear, Normal And Uniform Loading	John Perez	Taiwan
	14:00-14:15	OR12-5	Historical Climate-Driven Range Shifts Shape Latitudinal Diversity Gradients Of The Marine Brown Alga <i>Sargassum Thunbergii</i> In The Northwest Pacific	Zi-Min Hu	China
	14:15-14:30	OR12-6	Physiological and Transcriptomic Responses of <i>Saccharina Latissima</i> From the Arctic to Dark Exposure Simulating a Warming Winter	Huiru Li	China
[OR 13] Algal biomass and biofuel <1>					
Chairperson :					
303 (3F)	13:00-13:15	OR13-1	Effect of Inorganic Micronutrients on Growth of <i>Arthrospira</i> (<i>Spirulina</i>) <i>Maxima</i>	Won-Kyu Lee	Korea
	13:15-13:30	OR13-2	Light and Balanced Growth in <i>Ulva pertusa</i>	Rigoberto Sanchez-Medina	New Zealand
	13:30-13:45	OR13-3	Scaling-Up Bio-Fuel Production In The H2020 Project MacroFuels.	Jaap Van Hal	The Netherlands
	13:45-14:00	OR13-4	Seaweed Biorefinery: Co-extraction of hydrocolloids, plant bioactive compounds and bioplastics	Benoit Queguineur	France
	14:00-14:15	OR13-5	Agrobacterium-MEDIATED GENETIC TRANSFORMATION OF SEAWEED <i>Kappaphycus Alvarezii</i> USING <i>Gα</i> GENE AND CALLUS CULTURES	Erina Sulistiani	Indonesia
	14:15-14:30	OR13-6	Effects of light quantity, quality and duration on the growth rate, pigment composition and photosynthesis of <i>Spirulina maxima</i> Geitler	JHAE PARK	Korea
[OR 14] Seaweed industry and governance <1>					
Chairperson :					
Samda A (3F)	14:40-14:55	OR14-1	Development of a Swedish Kelp Industry - the Seafarm Project	Fredrik Gröndahl	Sweden
	14:55-15:10	OR14-2	Who Gets What From Whom? Support Mechanisms in the Philippine Seaweed Industry	Jee Grace B. Suyo	The Philippines
	15:10-15:25	OR14-3	East African Seaweed Farming; Huge Potential but Vast Challenges	Christina Halling	Sweden
	15:25-15:40	OR14-4	Establishing an Aquaculture-Based Large-Scale Seaweed Industry in Norway: Strategic, Environmental and Economic Considerations	Celine Rebours	Norway
	15:40-15:55	OR14-5	Flow Cytometer Cell Sorting as an Alternative Method for Kelp Meiospore Isolation	Michael Marty-Rivera	United States
	15:55-16:10	OR14-6	The Emergence of Seaweed Aquaculture in the United States: A Case Study of Institutional Dynamics and Industry Structuration	Holly Cronin	Canada
[OR 15] Climate change and ocean acidification <2>					
Chairperson :					
Samda B (3F)	14:40-14:55	OR15-1	Exploring Solar Radiation Relations of Seaweeds Floating at Sea: a Tool to Counteract Ocean Warming?	Ricardo Radulovich	Costa Rica
	14:55-15:10	OR15-2	A Model to Assess the Relative Impacts of Multiple Climate Stressors on Macroalgal Productivity	Janet Kübler	United States
	15:10-15:25	OR15-3	Globally Driven Changes in Carbon Chemistry Change Threatens a Rare Seaweed Community and Associated Industry in the Baltic Sea	Liina Pajusalu	Estonia
	15:25-15:40	OR15-4	Better Local Management of Kelp Forests Supports Ecosystem Resilience in a Changing Ocean	Christopher Hepburn	New Zealand
	15:40-15:55	OR15-5	Investigating The Potential Impact Of Ocean Warming Events On The Productivity Of Two South African Kelp Species; The Ecologically Dominant <i>Ecklonia Maxima</i> And The Rare <i>Macrocystis Pyrifera</i> .	Mark Rothman	South Africa
	15:55-16:10	OR15-6	TBC	TBC	TBC
[OR 16] Algal biomass and biofuel <2>					
Chairperson :					
303 (3F)	14:40-14:55	OR16-1	OVEREXPRESSION OF <i>Gα</i> GENE INCREASES GROWTH AND HYPOSALINE TOLERANCE IN <i>Kappaphycus Alvarezii</i> TRANSGENIC PLANTLETS	Erina Sulistiani	Indonesia
	14:55-15:10	OR16-2	Application of Seaweed Constituents in Chemicals, Materials and Fuels	Paulien Harmsen	The Netherlands
	15:10-15:25	OR16-3	Achieving high lipid productivity with high biomass productivity in <i>Ettlia</i> sp. under optimized nitrogen concentration and UV-A exposure	Seong-Hyun Seo	Korea
	15:25-15:40	OR16-4	Hydrothermal liquefaction technology for the conversion of red seaweeds to bio crude	Sri Sailaja Nori	India
	15:40-15:55	OR16-5	IMPACTS OF ASCOPHYLLUM MARINE PLANT EXTRACT POWDER (AMPEP) ON THE CARRAGEENAN QUALITY SUCH AS CARRAGEENAN YIELD, VISCOSITY AND GEL STRENGTH OF TISSUE CULTURE OUTPLANTED SEAWEED IN FIELD TRIAL	MAJID KHAN	Malaysia
	15:55-16:10	OR16-6	Applications of Bioactive Seaweed Substances In Functional Food Products	Yimin Qin	China

Student Competition (Oral Session)

[ST 01] Student Competition 1				
Halla A (3F)	Chairperson :			
	16:30-16:45	ST01-1	Environmental effects on potentially valuable components of Ulva Intestinalis along the Swedish coast	Joakim Olsson Sweden
	16:45-17:00	ST01-2	Production of bio-hydrogen from macroalgae following hydrothermal treatment	Aaron Brown United Kingdom
	17:00-17:15	ST01-3	Opportunities for energy and resource recovery from macroalgae using sequential hydrothermal conversion	Iram Razaq United Kingdom
	17:15-17:30	ST01-3	TBC	TBC
	17:30-17:45	ST01-5	Protective effect of sulfated polysaccharides from Hizikia fusiforme against ultraviolet B-induced skin photoaging	Lei Wang Korea
	17:45-18:00	ST01-6	Key factors to test before formulating a cosmetic emulsion using active phenolic compounds from a brown macroalga: seasonal variability and stability of compounds	Leslie Gager France
	18:00-18:15	ST01-7	Vortex-assisted Solid-liquid Microextraction Methodology For Rapid HPLC/PDA Determination of Fucoxanthin in Seaweed Biomass	Nuno Nunes Portugal
	18:15-18:30	ST01-8	Antioxidant Activity of Sulfated Polysaccharide Extract From Green Seaweed (Caulerpa Lentillifera) Makassar, Indonesia	Ilmi Fadhliah Rizki Indonesia
[ST 02] Student Competition 2				
Halla B (3F)	Chairperson :			
	16:30-16:45	ST02-1	Variability in the composition of mycosporine-like amino acids (MAAs) in red macroalgae from Brittany (France)	Fanny Lalegerie France
	16:45-17:00	ST02-2	Semi-Dry Storage as a Maturation Process to Develop the Sensory Characteristics of the Red Seaweed Dulse (Palmaria Palmata)	Pierrick Stévant Norway
	17:00-17:15	ST02-3	3-Hydroxy-5,6-epoxy-β-ionone Isolated From Sargassum Horneri Protect MH-S Mouse Lung Cells Against Fine Dust Induced Inflammation and Oxidative Stress	KK Asanka Sanjeeva Sri Lanka
	17:15-17:30	ST02-4	The Identification of Pigment Extract of Green Seaweed (Ulva lactuca L) From Gunung Kidul, Yogyakarta Using UHPLC-High Resolution Mass Spectra	Windu Merdekawati Indonesia
	17:30-17:45	ST02-5	Cellulase-assisted Ecklonia cava extract prevents against diet-induced obesity in mice	Xining Li Korea
	17:45-18:00	ST02-6	Oral administration of Sargassum horneri ethanol extract ameliorates atopic dermatitis in house dust mite/DNCB-stimulated NC/Nga mice model	Eui Jeong Han Korea
	18:00-18:15	ST02-7	Composition and Seasonal Variation of the Metabolic Profile of Osmundea Pinnatifida	Cecilia Biancacci United Kingdom
	18:15-18:30	ST02-8	Fucoidan from Brown Algae Reduces Cell Migration in Human Bladder Cancer T24 Cells	Chun-Ju Sung Taiwan
[ST 03] Student Competition 3				
Samda A (3F)	Chairperson :			
	16:30-16:45	ST03-1	Exploring ecological network structure, dynamics, and function of Microcystis genotypes and microbes	Seong-Jun Chun Korea
	16:45-17:00	ST03-2	Responses of seaweeds that use CO ₂ as their inorganic carbon source to ocean acidification: Differential effects of fluctuating pH but little benefit of CO ₂ enrichment	Damon Britton Australia
	17:00-17:15	ST03-3	The effect of elevated CO ₂ on production and respiration of Sargassum Thunbergii communities	Peeraporn Panchai Japan
	17:15-17:30	ST03-4	Transgenerational temperature effects in the kelp Laminaria digitata	Daniel Liesner Germany
	17:30-17:45	ST03-5	Biotic and abiotic controls of Saccharina latissima gametogenesis	Alexander Ebbing Netherlands
	17:45-18:00	ST03-6	Effect of hydrodynamics on the horizontal structuring of macroalgal communities	Thomas Burel France
	18:00-18:15	ST03-7	The effects of velocity and canopy deformation on the photosynthesis of a seaweed bed in a recirculating flow chamber.	Yukio Inoue Japan
	18:15-18:30	ST03-8	Recovery of kelp forest: two case studies in Korea	Kwonmo Yang Korea
[ST 04] Student Competition 4				
Samda B (3F)	Chairperson :			
	16:30-16:45	ST04-1	Towards an understanding of the biodiversity and taxonomy of the genus Ulva (Ulvaaceae, Chlorophyta)	Thi Lan Anh Tran Vietnam
	16:45-17:00	ST04-2	SoEM: A novel PCR-free biodiversity assessment method based on small-organelles enriched metagenomics	Jihoon Jo Korea
	17:00-17:15	ST04-3	Diversity and spatial pattern of marine macroalgae in Itu Aba Island (Taiping Island, Taiwan), South China Sea: an updated inventory with comprehensive molecular references	Pin-Chen Chen Taiwan
	17:15-17:30	ST04-4	Revisions of Ralfsia and Endoplura (Ralfsiales, Phaeophyceae) from Korea including new candidate species	Antony Oteng'o Korea
	17:30-17:45	ST04-5	Taxonomic revision of the order Bangiales (Rhodophyta) from Korea based on morphology and molecular analysis	Young Ho Koh Korea
	17:45-18:00	ST04-6	Measuring Both Oxygenic and Anoxygenic Photosynthetic Organisms Using Pulse Amplitude Modulation (PAM) Fluorometry in Wastewater Ponds.	Piamsook CHANDARAVITHOON Thailand
	18:00-18:15	ST04-7	Title: propagating a cellular stress into the environment: revealing hydrogen peroxide as an external stressor in coastal ecosystems.	Isla Twigg New Zealand
	18:15-18:30	ST04-8	Chemical defence by allelopathic active metabolites on the surface of cultivated Mexican Rhodophyta Halymenia floresii against biofouling	Shareen A ABDUL MALIK France
Oral Session				
[OR 17] Phycocolloids and bioactive compounds				
303 (3F)	Chairperson :			
	16:30-16:45	OR17-1	Farming of Kappaphycus Alvarezii in Sri Lanka: Current Status and Opportunity Develop Carrageenan Industry	Sivaram Kulendran Sri Lanka
	16:45-17:00	OR17-2	Indonesian Seaweed Hydrocolloids: Challenges and Perspective for Future Development in Global Value Chain	Maya Puspita Indonesia
	17:00-17:15	OR17-3	Age Growth, Pigments and Carrageenan Content of the Brown and the Green Varieties of Marine Algae Eucheuma	Yenny Risjani Indonesia
	17:15-17:30	OR17-4	The growth and carrageenan quality of vegetative sporophyte and gametophyte phases of the commercially important red seaweed Kappaphycus alvarezii	Maria Rovilla J Luhan The Philippines
	17:30-17:45	OR17-5	Biomolecular composition and revenue explained by interactions between extrinsic factors and endogenous rhythms of Saccharina latissima	Xueqian Zhang Denmark
	17:45-18:00	OR17-6	Structural and Functional Characterisation of High-Value Bioactive Compounds from Alaria esculenta Cultivated on Long-Lines in Bantry Bay, Ireland	Silvia Blanco Gonzalez Ireland
	18:00-18:15	OR17-7	Bioactive Compound Production And Stability In Long term Cultures of Asparagopsis Armata (Bonnemaisoniales, Rhodophyta)	Marianela Zanolli Ireland
	18:15-18:30	OR17-8	Macrocystis pyrifera source for the production of bioactive compounds	Allison Leyton Chile

[Day 5] May 2 (Thursday)

Plenary Lecture

[PL 4] Plenary 4				
Tamna A (5F)	Chairperson :			
	08:30-09:30	PL-4	Genomic and genetic approaches to explore brown algal biology and support seaweed aquaculture	J Mark COCK France

Mini Symposium

[MS 13] Genomic selection in economically important kelp of the Eastern Pacific and North Atlantic				
Tamna A (5F)	Chairperson : Scott LINDELL (United States), Carolina Camus (Chile)			
	09:55-10:15	MS13-1	Genetic Diversity Exploitation of Saccharina latissima For Innovative Macro-Algal Biorefinery in Europe.	Phillipe POTIN France
	10:15-10:35	MS13-2	Kelp Seed Banks and Sterilization Procedures	Sergey Nuzhdin United States
	10:35-10:55	MS13-3	Fine scale population genetics of sugar kelp in the North Atlantic for a selective breeding program	Simona AUGYTE United States
	10:55-11:15	MS13-4	Breeding Macrocyctis pyrifera: What Have We Learned?	Carolina CAMUS Chile

[MS 14] Microalgal biotechnology and industries: construction of a whole value chain from labs, ponds to tables.				
Halla A (3F)	Chairperson : Song Qin (China)			
	09:55-10:15	MS14-1	The Freshwater Algae Culture Collection (FACHB-Collection): algal resources for fundamental and applied research in China	Lirong Song China
	10:15-10:35	MS14-2	Industrial Development of Microalgal Cultures and Seaweeds' Filamentous Tissue Cultures for Pharmaceutical and Nutraceutical Source Material	Hongnong Chou China
	10:35-10:55	MS14-3	A new thin-film microfluidic platform for continuous flow biodiesel production from wet microalgae	Wei Zhang Australia
	10:55-11:15	MS14-4	Microalgal biotechnology and industries in China: construction of both new innovation mode and driving force	Song Qin China

[MS 15] Seaweed4Health, bioactives from seaweed in health applications taking into account standards and legislation				
Halla B (3F)	Chairperson : Stefan KRAAN (Ireland), Susan HOLDT (Denmark)			
	09:55-10:15	MS15-1	Microalgal biotechnology and industries in China: construction of both new innovation mode and driving force	Stefan KRAAN Ireland
	10:15-10:35	MS15-2	Seaweed legislation and standards in Europe	Susan HOLDT Denmark
	10:35-10:55	MS15-3	The Case For Whole Dietary Seaweeds	Jane TEAS United States
	10:55-11:15	MS15-4	DIETARY SARGASSUM FUSIFORME IMPROVES MEMORY and REDUCES AMYLOID PLAQUE LOAD in an ALZHEIMER'S DISEASE MOUSE MODEL	Monique MULDER The Netherlands

[MS 16] Coralline algae, global marine ecosystem engineers: their systematics, physiology and ecology.				
Samda A (3F)	Chairperson : Paul W. Gabrielson (United States), So Young Jeong (Korea)			
	09:55-10:15	MS16-1	The Ecology of Non-geniculate Coralline Red Algae	Gavin W. Maneveldt South Africa
	10:15-10:35	MS16-2	Effects of Water Temperature, Light and Nitrate on the Growth of Sporelings of the Nongeniculate Coralline Alga Lithophyllum Okamurae (Corallinales, Rhodophyceae)	Aki Kato Japan
	10:35-10:55	MS16-3	Corallinapetrales: a new order of coralline algae including a new family with Corallinapetra gabrieli comb. nov.	So Young Jeong Korea
	10:55-11:15	MS16-4	The Role of Crustose Calcifying Red Algae in Phase Transitions on Tropical Pacific Reefs	Tom Schils Guam

[MS 17] Algal culture collection				
Samda B (3F)	Chairperson : Thomas Friedl (Germany), Jee-Hwan Kim (Korea)			
	09:55-10:15	MS17-1	The SAG Culture Collection of Microalgae: A Traditional Bioresource Serves Modern Science	Thomas Friedl Germany
	10:15-10:35	MS17-2	An Australian Perspective on Managing a Biodiversity Collection For Research Impact.	Ian Jameson Australia
	10:35-10:55	MS17-3	Diversity, Conservation and Utilization of Freshwater Bioresources	Jee-Hwan Kim Korea
	10:55-11:15	MS17-4	The Korean marine microalgae biobank: in the formation process	Ji-won Hong Korea

[SS 1] Special Session : Seaweed aquaculture: past, present and future				
Tamna A (5F)	Chairperson :			
	11:30-11:50	SS1-1	Kelp Aquaculture in Northeast America: Opportunities, Challenges and Future Directions	Charles Yarish United States of America
	11:50-12:10	SS1-2	Growing Ulva (Chlorophyta) In Commercial Integrated Systems With Abalone In South Africa For Feed And Bioremediation: An Update.	John Bolton South Africa
	12:10-12:30	SS1-3	A day in the life of a future tropical seaweed farmer	Iain Neish Indonesia

Oral Session

[OR 18] Algae-microbe interaction				
Halla A (3F)	Chairperson :			
	11:30-11:45	OR18-1	Endophytic and Epiphytic Core Microbiota Associated with an Invasive Seaweed Across the Northern Hemisphere	Florian Weinberger Germany
	11:45-12:00	OR18-2	Selective utilization of fatty acids of two copepods with five algae	Min-Chul Lee Korea
	12:00-12:15	OR18-3	Microbiota Interactions with Laminariales Gametophytes, Impact on Phytochemistry	Erwan Le Gélébart France
	12:15-12:30	OR18-4	Do Microbes Play a Role in Facilitating the Range Expansion of Tropical Fish Into Temperate Systems?	Adriana Verges Australia

[OR 19] Algal natural products, functional foods and pharmacology <3>				
Halla B (3F)	Chairperson :			
	11:30-11:45	OR19-1	Optimization of the Production of Single Cell Protein and Hydrophobins from Marine Fungi Fed Using Seaweed and Seaweed Waste	Catalina LANDETA SALGADO Chile
	11:45-12:00	OR19-2	Seaweeds (Marine macro algae) are a large and diverse group of marine organisms are an excellent source of biologically active secondary metabolites. They have been shown to exhibit a wide range of therapeutic properties, including anti-cancer, anti-oxidant, anti-inflammatory and anti-	Mangaiyarkarasi Ravirajan India
	12:00-12:15	OR19-3	Some species of seaweed are well-known accumulators of the metalloloid arsenic (As). Arsenic toxicity to humans is well established and is considered a class 1 human carcinogen. As mankind's appetite for	Michéal Mac Monagail Ireland
	12:15-12:30	OR19-4	Protein extraction by Enzyme-assisted Extraction (EAE) followed by alkaline extraction from red seaweed euchemia denticulatum (Spinosum) used in Carrageenan production.	Susan Holt Denmark

Student Competition (Oral Session)

[ST 05] Student Competition 5				
Samda A (3F)	Chairperson :			
	11:30-11:45	ST05-1	Can RNA Transcriptomes Accurately Resolve a Phylogenetic Tree?	Seongmin Cheon Korea
	11:45-12:00	ST05-2	Effect of antioxidant addition during extraction of protein from Ulva sp.	Louise Juul Pedersen Denmark
	12:00-12:15	ST05-3	Toxicity evaluation of 6 antifouling biocides measured based on chlorophyll fluorescence of gametophytes of the brown macroalga Undaria pinnatifida (Harvey) Surinear	Hojun Lee Korea
	12:15-12:30	ST05-4	Deformity of benthic diatom as biomarkers of marine environment	Soyeon Choi Korea

Oral Session					
Samda B (3F)	[OR 20] Phylogeography				
	Chairperson :				
	11:30-11:45	OR20-1	Phylogeographic Diversification and Postglacial Range Dynamics Shed Light on the Conservation of the Kelp <i>Saccharina Japonica</i>	Jie Zhang	China
	11:45-12:00	OR20-2	Phylogeographic pattern of the marine red alga <i>Gracilaria salicornia</i> (Gracilariiales) in Thailand: evidence for an east-west genetic break around the Thai-Malay peninsula	Narongrit Muangmai	Thailand
	12:00-12:15	OR20-3	Developing Novel Biomarkers Targeting Stage-specific Transcripts For Monitoring Harmful Marine Organisms	Juhee Min	Korea
12:15-12:30	OR20-4	Award 3-5 (10,12,14)		Ji Won Choi	Korea
303 (3F)	[OR 21] Genomics <1>				
	Chairperson :				
	11:30-11:45	OR21-1	Comparative Characterization of Putative Chitin Deacetylases From <i>Phaeodactylum Tricornutum</i> and <i>Thalassiosira Pseudonana</i> Highlights Potential For Distinct Chitin-based Metabolic Processes in Diatom	Zhanru Shao	China
	11:45-12:00	OR21-2	Genomic Analysis of Thermoacidophilic Environmental Adaptation of Cyanidiphyceae (Rhodophyta)	Seung In Park	Korea
	12:00-12:15	OR21-3	Genomic Analyses of Unique Carbohydrate and Phytohormone Metabolism in the Macroalga <i>Gracilaria lemaneiformis</i> (Rhodophyta)	Nianjun Xu	China
12:15-12:30	OR21-4	Identification of Candidate SNPs Regions Related to Red Mutation in <i>Pyropia yezoensis</i> by QTL-seq	XINZI YU	China	
Mini Symposium					
Halla A (3F)	[MS 18] FIRA (Special Session)				
	Chairperson :				
	13:35-13:55	MS 18-1	Marine forest reforestation project of Korea Fisheries Resources Agency (FIRA)	Jin Woo Kang	Korea
	13:55-14:15	MS 18-2	Restoration of Artificial Eelgrass Seabed using Industrial Byproducts	Kyunghee Kim	Korea
	14:15-14:35	MS 18-3	Enhanced CO ₂ uptake by Planted Sea forest counteracts Ocean Acidification in Coastal Environments	Kitack Lee	Korea
14:35-14:55	MS 18-4	New construction technique of marine forest using artificial floating structures	Han Gil Choi	Korea	
Oral Session					
Halla B (3F)	[OR 22] Seaweed industry and governance <3>				
	Chairperson :				
	13:30-13:45	OR22-1	Certification of Environmental Sustainable and Social Responsible Seaweed Production	Patricia Bianchi	The Netherlands
	13:45-14:00	OR22-2	Net-Works(TM): Making seaweed farming positive for the ocean and people	Amado Blanco	The Philippines
	14:00-14:15	OR22-3	Feminisation of Seaweed Industry?	Josephine Tsui	United Kingdom
	14:15-14:30	OR22-4	A Systematic Analysis of National Biosecurity Framework of Seaweed Aquaculture in Indonesia	Cicilia Selviane Kambey	Korea
	14:30-14:45	OR22-5	TBC	TBC	TBC
14:45-15:00	OR22-6	Changing the traditional <i>Ascophyllum nodosum</i> harvesting method in Ireland: advantages and challenges under a non-regulated harvest situation	Raul Ugarte	Canada	
Student Competition (Oral Session)					
Samda A (3F)	[ST 06] Student Competition 6				
	Chairperson :				
	13:30-13:45	ST06-1		Saifullah Saifullah	Norway
	13:45-14:00	ST06-2	Emersion effect on growth, pigments and biochemical responses in <i>Pyropia yezoensis</i>	Sojin Jang	Korea
	14:00-14:15	ST06-3	Physiological responses and growth of the seaweed <i>Ulva</i> sp. under changing cultivation conditions in pilot land-based ponds	Stephanie Revilla-Lovano	Mexico
	14:15-14:30	ST06-4	Protoplast isolation from four brown algal species using a simple mixture of commercial enzymes	Jose Avila Peltroche	Korea
	14:30-14:45	ST06-5	Hatchery Strategies For Long Term Storage of <i>Saccharina Latissima</i> Seed String in Alaska	Ann Raymond	United States
14:45-15:00	ST06-6	TBC	TBC	TBC	
Oral Session					
Halla B (3F)	[OR 23] Algal natural products, functional foods and pharmacology <4>				
	Chairperson :				
	13:30-13:45	OR23-1	Development of functional fish sausage using seaweed dietary fibre	JESMI DEBBARMA	India
	13:45-14:00	OR23-2	Metabolic engineering of <i>Escherichia coli</i> for efficient biosynthesis of fluorescent phycobiliprotein	Huaxin Chen	China
	14:00-14:15	OR23-3	Induction of Carrageenan Secretions in Protoplasts of Farmed Carrageenophytes	Ronelle Salvador	The Philippines
	14:15-14:30	OR23-4	Innovative product development at ALGAIA: alginate-based mucoadhesive films	Benoit Queguineur	France
	14:30-14:45	OR23-5	Review on Indonesian <i>Sargassum</i> species bioprospecting: Potential applications of bioactive compounds and challenge for sustainable development	Maya Puspita	Indonesia
14:45-15:00	OR23-6	Novel antioxidants from seaweed: source, extraction and application	Susan Løvstad Holdt	Denmark	
303 (3F)	[OR 24] Genomics <2>				
	Chairperson :				
	13:30-13:45	OR24-1	Draft genome of the brown alga, <i>Nemacystus Decipiens</i> , Onna-1 strain: fusion genes related to sulfated fucan	Koki Nishitsuji	Japan
	13:45-14:00	OR24-2	Complete Plastid Genome of the <i>Saccharina</i> Cultivar "Rongfu" and Its Phylogenetic Analyses	JING ZHANG	China
	14:00-14:15	OR24-3	Transcriptome of <i>Paulinella micropora</i> under high light stress condition	Duckhyun Lhee	Korea
	14:15-14:30	OR24-4	Mitogenome Characteristics of Crucial <i>Saccharina</i> Cultivars in China	Yahui Yu	China
	14:30-14:45	OR24-5	Progress in QTL Mapping For Blade Length and Width of <i>Saccharina Japonica</i>	Xiuliang Wang	China
14:45-15:00	OR24-6	Synergistic Effects of HSE and LTR Elements from Hsp70 Gene Promoter of <i>Ulva prolifera</i> (Ulvophyceae, Chlorophyta) upon Temperature Induction	Chunhui Wu	China	
Mini Symposium					
Halla A (3F)	[MS 19] JEJU (Special Session)				
	Chairperson :				
	15:25-15:45	MS 19-1	Japan's Nationwide Long-term Monitoring Survey of Seaweed Communities Known As The "Monitoring Sites 1000": Ten-year Overview And Future Perspectives	Ryuta Terada	Japan
	15:45-16:05	MS 19-2	Ecklonia kelp forests – globally significant habitats under pressure	Thomas Wernberg	Australia
	16:05-16:25	MS 19-3	Drifted <i>Sargassum horneri</i> in the Yellow Sea: its origin, life cycle and fate	Shaojun Pang	China
16:25-16:45	MS 19-4	Biogeography and seascape genetics of the Bull Kelp, <i>Nereocystis luetkeana</i>	Filipe Alberto	United States	

Oral Session					
Hall B (3F)	[OR 25] Seaweed industry and governance <3>				
	Chairperson :				
	15:20-15:35	OR25-1	Prospects For Upgrading European Seaweeds; a Value Chain Perspective	Sander Van den Burg	The Netherlands
	15:35-15:50	OR25-2	Seaweed Governance For Sustainability: a Case Study of Using the Triple Helix Approach in Malaysia	Adibi Nor	Malaysia
	15:50-16:05	OR25-3	Tanzania Seaweed Value Chain Assessment.	Msafiri Andrew	United Republic of Tanzania
	16:05-16:20	OR25-4	MODEL MANAGEMENT FOR SUSTAINABLE SEAWEED FARMING IN PULAU SEMBILAN ISLAND, SINJAI DISTRICT, INDONESIA	Nurlita Pertiwi Arif Madjid	Indonesia
	16:20-16:35	OR25-5	ENTREPRENEURIAL CAPACITY OF THE SEAWEED FARMERS IN SOUTH SULAWESI, INDONESIA	Gufran Darma Dirawan	Indonesia
16:35-16:50	OR25-6	A Systematic Analysis of Policies Protecting the Seaweed Industry of the Philippines	Jonalyn P. Mateo	The Philippines	
Student Competition (Oral Session)					
Samda A (3F)	[ST 07] Student Competition 7				
	Chairperson :				
	15:20-15:35	ST07-1	Construction of a Genetic Linkage Map in <i>Pyropia Yezoensis</i> (Bangiales, Rhodophyta) and QTL Analysis of Several Economic Traits of Blades	Lin-bin Huang	China
	15:35-15:50	ST07-2	Population and landscape genomics in the sugar kelp <i>Saccharina latissima</i> .	Alexander Thomson	United Kingdom
	15:50-16:05	ST07-3	Gametophyte transcriptome reveals sex-biased gene expression in the kelp <i>Saccharina Latissima</i>	Catia Monteiro	Germany
	16:05-16:20	ST07-4		Chung Hyun Cho	Korea
	16:20-16:35	ST07-5	Genome sequencing and population genomic analyses provide insights into domestication and adaptation to new environments in the kelp <i>Undaria pinnatifida</i>	Louis Graf	Korea
16:35-16:50	ST07-6	Large-scale gene duplication events in the dinoflagellate lineage	Sung-Gwon Lee	Korea	
Oral Session					
Samda B (3F)	[OR 26] Algal natural products, functional foods and pharmacology <5>				
	Chairperson :				
	15:20-15:35	OR26-1	Application of various types of local seaweed extract to the growth and yield of shallot (<i>Allium wakegi</i> A.)	Ramal Yusuf	Indonesia
	15:35-15:50	OR26-2	Targeted Enzymatic Modification Of Seaweed Hydrocolloids	Nanna Rhein-Knudsen	Denmark
	15:50-16:05	OR26-3	Advances in Knowledge of Seaweed as a Natural Alternative to Sub-Therapeutic Antibiotics in Livestock Production	Augustine Owusu-Asiedu	United States
	16:05-16:20	OR26-4	Individual and Combined Effects of Heavy Metals (HM) and Polycyclic Aromatic Hydrocarbons(PAH) Toward Spore Release, Settlement and Germination of Brown Kelps <i>Lessonia Spicata</i> and <i>Macrocystis Pyrifera</i>	Andrés Meynard	Chile
	16:20-16:35	OR26-5	Antioxidant Responses and Phenolic Compounds of <i>Palisada Perforata</i> (Rhodomelaceae, Rhodophyta) Against Environmental Stressors From Different Microhabitats of a Tropical Reef	Juilane Bernardi	Brazil
16:35-16:50	OR26-6	Chemical analysis of iodine in fermented seaweed salad and human risk assessment in relation to total intake of iodine	Susan Løvstad Holdt	Denmark	
303 (3F)	[OR 27] Algal blooming <2>				
	Chairperson :				
	15:20-15:35	OR27-1	Co-occurrence Patterns of Bacteria, Archaea, and Phytoplankton in <i>Cochlodinium Polykrikoides</i> Bloom in South Sea of Korea	Chi-Yong Ahn	Korea
	15:35-15:50	OR27-2	Harmful Algal Blooms in newly constructed Weir/Dam and their Management	Heesuk Lee	Korea
	15:50-16:05	OR27-3	Green Tide Dynamics Revealed by Tracking the Floating Ecotype of <i>Ulva prolifera</i> in the Yellow Sea	Peng Jiang	China
	16:05-16:20	OR27-4	Assessment of Salinity Tolerance Based on Physiological and Oxidative Stress Responses in <i>Ulva</i> and <i>Pyropia</i>	Palas Samanta	Korea
	16:20-16:35	OR27-5	The development of bioactives from blooming seaweeds in Normandy, France: the ENTEROMORPHE and SNOTRA projects	Benoit Queguineur	France
16:35-16:50	OR27-6	Socioeconomic dimension of the <i>Sargassum</i> blooms: the Mexican experience during the last four years	Daniel Robledo	Mexico	
Lobby (5F)	16:50-18:20	Poster Session			

[Day 6] May 3 (Friday)				
Plenary Lecture				
Tamna A (5F)	[PL 5] Plenary 5			
	Chairperson :			
	08:30-09:30	PL-5	Using genetics to unravel the ecology and economic potential of the giant kelp <i>Macrocystis pyrifera</i>	Filipe Alberto United States
Mini Symposium				
Tamna A (5F)	[MS 20] Climate-driven changes in seaweed species distributions:drivers and ecological impacts			
	Chairperson : Adriana Verges (Australia), Vianney Denis (Taiwan)			
	09:55-10:15	MS20-1	Cryptic Loss of Genetic Diversity And Directional Selection in Marine Forests Following An Extreme Climatic Event	Melinda Coleman Australia
	10:15-10:35	MS20-2	Climate-driven declines in kelp forests and the global rise of turfs	Thomas Wernerg Australia
	10:35-10:55	MS20-3	Redistribution of macroalgae and herbivores by climate change in Japan	Daisuke FUJITA Japan
10:55-11:15	MS20-4	Tropicalisation of Temperate Reefs: Implications For Ecosystem Functions and Management Actions	Adriana VERGES Australia	
Halla A (3F)	[MS 21] The novel output and innovative processing of macroalgae using anaerobic digestion			
	Chairperson : Jessica ADAMS (United Kingdom), Andrew ROSS (United Kingdom)			
	09:55-10:15	MS21-1	Assessing the methane yields of whole and residue <i>Ulva</i> spp. following anaerobic digestion of samples prepared from varied long-term storage arrange	Jessica ADAMS United Kingdom
	10:15-10:35	MS21-2	Opportunities for production of bioenergy from macroalgae by integration of hydrothermal carbonisation and anaerobic digestion	Andrew ROSS United Kingdom
	10:35-10:55	MS21-3	Towards Macro Algae Bioprocessing: Dark Fermentation of Algal Components to Biohydrogen and High-Value Chemicals	Sean SCULLY Iceland
10:55-11:15	MS21-4	Outcomes of the three-year SEAGAS project: Advancing the anaerobic digestion of <i>Saccharina latissima</i> for biomethane	Phillip Kerrison United Kingdom	
Halla A (3F)	[MS 22] "Chemecology" of algal-microbe interactions			
	Chairperson : Catherine Leblanc (France), Aschwin Hillebrand (Portugal)			
	09:55-10:15	MS22-1	Eavesdropping Seaweed - Bacteria Cross-talk	Mahasweta Saha Germany
	10:15-10:35	MS22-2	Bacteria in algal growth and stress response: a metabolic point of view	Simon DITTAMI France
	10:35-10:55	MS22-3	Chemical mediators in algae-bacteria interactions: Novel functions of thalusin as algal morphogenesis inducer for the green seaweed <i>Ulva</i> (Chlorophyta)	Thomas WICHARD Germany
10:55-11:15	MS22-4	Metatranscriptomic differentiation in microbiome composition and function across <i>Ectocarpus siliculosus</i> strains and cell types	Aschwin HILLEBRAND Portugal	
Oral Session				
Samda A (3F)	[OR 28] Cultivar, nursery and harvest <1>			
	Chairperson :			
	09:50-10:05	OR28-1	Study on the Underlying Mechanism of the Thermotolerance Strains of <i>Pyropia Haitanensis</i>	Wenlei Wang China
	10:05-10:20	OR28-2	Characterization of the Improved Strain (HR-5) of <i>Pyropia Haitanensis</i> and its Pilot Cultivation in Mariculture Farm	Hong-chang Ding China
	10:20-10:35	OR28-3	Development of a New Cultivar with High Yield and High-temperature Tolerance by Crossbreeding of <i>Undaria Pinnatifida</i> (Laminariales, Phaeophyta)	Kyosuke Niwa Japan
	10:35-10:50	OR28-4	Heterosis Breeding For Upper Temperature Tolerance in <i>Laminaria</i>	Neusa Martins Portugal
	10:50-11:05	OR28-5	Building Chimeric Kelps (<i>Lessonia</i> Spp) to Restock Overharvested Populations Along Central Chile	Alejandra Gonzalez Chile
11:05-11:20	OR28-6	TBC	TBC TBC	
Samda B (3F)	[OR 29] Bioremediation			
	Chairperson :			
	09:50-10:05	OR29-1	Bioremediation and Carbon Sink Effects of Large-scale Cultivation of <i>Gracilaria Lemaneiformis</i> , a Case Study in Nanao, South China	Yufeng Yang China
	10:05-10:20	OR29-2	Maximising the Productivity of <i>Ulva Tzipida</i> by Effectively Using the Three-dimensional Culture Space	Andrew Cole Australia
	10:20-10:35	OR29-3	The Relationship Between Heavy Metals and the Seaweed <i>Gracilaria Lemaneiformis</i>	Hongtian Luo China
	10:35-10:50	OR29-4	Estimation of Production and Bioremediation of Seaweed <i>Kappaphycus alvarezii</i> in an IMTA System Using a STELLA Model	Cicilia Selviane Kambey Korea
	10:50-11:05	OR29-5	Cultivation potential and bioremediation efficiency of the brown seaweed <i>Halopteris scoparia</i> (Ochrophyta)	Rita F. Patarra Portugal
11:05-11:20	OR29-6	Colonized Zooplankton Communities on Cultivated Seaweeds in a Typical Mariculture Zone, China	Qing Wang China	
Tamna A (5F)	[OR 30] Genomics <3>			
	Chairperson :			
	11:30-11:45	OR30-1	Genetic Tools For the Development of Improved Cultivars of <i>Saccharina Latissima</i>	Zofia NEHR France
	11:45-12:00	OR30-2	Analysis of Gene Expansion and Expression Profiles in the Siphonous Macroalga, <i>Coulerpa Lentillifera</i>	Asuka Arimoto Japan
	12:00-12:15	OR30-3	Identification and Characterization of the Centromere-associated Protein Nuf2 in the Kelp <i>Saccharina Japonica</i> (Phaeophyta)	Zhi-Gang ZHOU China
	12:15-12:30	OR30-4	Piloting Genome Editing of the Brown Algal Model <i>Ectocarpus</i>	Yacine Badis United Kingdom
12:30-12:45	OR30-5	Non-coding RNAs Involved with AUREOCHROME and Regulation of CRY-DASH in the Early Development and Growth of <i>Saccharina Japonica</i> (Laminariales, Phaeophyceae)	Delin Duan China	

[OR 31] Ecology				
Halla A (3F)	Chairperson :			
	11:30-11:45	OR31-1	Newly restored kelp beds reveal rapid recovery of food web complexity	MOONJUNG KIM
	11:45-12:00	OR31-2	30 years revisit survey for the long term changes in the Antarctic subtidal algal community	Dong Seok Lee Korea
	12:00-12:15	OR31-3	Characterize of a type III polyketide synthase (PKS1) response to light intensity in the brown alga <i>Saccharina japonica</i>	Jing Li China
	12:15-12:30	OR31-4	Calcium Carbonate Productivity by <i>Halimeda Maculoba</i> in the Tropical Intertidal Ecosystem; the Significant Contributor to Global Carbonate Budgets	Jaruwan Mayakun Thailand
	12:30-12:45	OR31-5	An Extremophile Terrestrial Chlorophyte Growing on Galvanised Iron Lamp Posts.	Raymond J. Ritchie Thailand
[OR 32] Algal derived cosmetics				
Halla B (3F)	Chairperson :			
	11:30-11:45	OR32-1	Evaluation of Bioactivities and Cream Mask Formulation From Vietnamese Seaweeds	DANG DIEM HONG Vietnam
	11:45-12:00	OR32-2	Inhibitory Effects of Tropical Seaweed on Tyrosinase Activity and Melanogenesis in B16F10 Melanoma Cells	Pradana Choosuwan Thailand
	12:00-12:15	OR32-3	Phenolic Compounds From <i>Sargassum Fusiforme</i> and Their Application in Cosmetics	Xiaoting Fu China
	12:15-12:30	OR32-4	Whitening activity of fucoidans extracted from polar <i>Ascophyllum nodosum</i> and valorisation of process by-products in cosmetic applications	Jeremy Brebion France
	12:30-12:45	OR32-5	TBC	TBC TBC
[OR 33] Cultivar, nursery and harvest <2>				
Samda A (3F)	Chairperson :			
	11:30-11:45	OR33-1	<i>Palmaria Palmata</i> (dulse) Cultivation in Denmark – New Strategies For Hatchery Optimization	Mette Møller Nielsen Denmark
	11:45-12:00	OR33-2	Advancements in Canadian on-land seaweed cultivation.	Jeff Hafting Canada
	12:00-12:15	OR33-3	TBC	TBC TBC
	12:15-12:30	OR33-4	THERMOPHYSICAL PROPERTIES and STICKINESS of SUGAR KELP INFLUENCE PROCESS PARAMETERS DURING DRYING	Balunkeswar Nayak United States
	12:30-12:45	OR33-5	Preliminary performance assessment of <i>Kappaphycus alvarezii</i> mechanical harvester prototype	Leila Hayashi Brazil
[OR 34] Seaweed Usage				
Samda B (3F)	Chairperson :			
	11:30-11:45	OR34-1	Probiotic Fortified Marine Silage as Supplement in Marine Fish Hatchery	Charles Santharaju Vairannan Malaysia
	11:45-12:00	OR34-2	How Suitable Are Seaweed as a Feed Ingredient For Salmon? - the Feed Industry's Experiences and Insights	Celine Rebours Norway
	12:00-12:15	OR34-3	Optimization of Algal Culture Medium Capable to Higher Biomass and Lipid Content in Diverse Types of Algae	Bhumi Nath Tripathi India
	12:15-12:30	OR34-4	Evaluation of Seaweed <i>Gelidium Latifolium</i> as Potential Medicinal Food	Eka Prasedya Indonesia
	12:30-12:45	OR34-5	<i>Kappaphycus alvarezii</i> hatchery: a micropropagation production system	Simon Davis Malaysia