

# 9<sup>TH</sup> ASIAN PACIFIC PHYCOLOGICAL FORUM (APPF 2024)

April 14–18, 2024: Hokkaido University Conference Hall, Sapporo, Japan

## PROGRAM

Time	April 14th (Sunday)
15:00–17:00	Registration
17:00–18:30	Welcome Reception

Time	April 15th (Monday)
8:30–	Registration
	Main Hall
9:30–10:15	Plenary 1 (Chairperson: Put Ang, Jr.) Restoration of Seaweed Forests from Urchin Barrens: Density Manipulation, Phase-Shift Trend and Functional Recovery Jeong Ha Kim
10:15–10:30	Break

April 15

	Main Hall	Hall A	Hall B
	MS-1: Seaweed Study for Climate Change Mitigation and Adaptation Convenors: Ik Kyo Chung & Hiroshi Kawai	MS-2: Phycological Women in the Asian-Pacific - Past, Present & Emerging Convenors: Alecia Bellgrove & Zoe E. Brittain	MS-3: Cyanobacteria Taxonomy and Evolution Convenors: Shoichiro Suda & Renhui Li
10:30–12:00	<p>MS-1-1: Significant changes in seaweed community structure observed in a nationwide long-term monitoring survey in Japan at "Monitoring-Site 1000" over the past 15 years Ryuta Terada</p> <p>MS-1-2: Estimation of carbon sequestration by seaweeds in Japanese coasts Masakazu Hori</p> <p>MS-1-3: Potential role of Indonesia macroalgae in mitigating global climate change Calvyn F.A. Sondak</p> <p>MS-1-4: Marine forest afforestation project in Korea Jin Woo Kang</p>	<p>MS-2-1: Phycological women in the Asian-Pacific - past, present &amp; emerging Alecia Bellgrove</p>	<p>MS-3-1: Taxonomic and phylogenetic studies on the thin filamentous cyanobacteria from China Fangfang Cai</p> <p>MS-3-2: Black filamentous cyanobacterium isolated from Iriomote Island, Okinawa, Japan Shoichiro Suda</p> <p>MS-3-3: Revealing the diversity of Lyngbya-like cyanobacteria, with discovery of a novel trichal cyanobacterial genus isolated from the terrestrial ecosystem in China. Renhui Li</p> <p>MS-3-4: Evolution in progress: Fine scale diversity of the filamentous bloom-forming cyanobacteria revealed by genomic profiling Da Huo</p> <p>MS-3-5: Principle and diversity of chromatic acclimation in Cyanobacteria Yuu Hirose</p>
12:00–13:00	Lunch		

April 15

	Main Hall	Hall A	Hall B
	MS-4: Dynamics and Drivers for Change in Marine Algal Populations and Communities Convenors: Jeong Ha Kim & Put Ang, Jr.	MS-5: Signal Transduction in Algae Convenors: Gwang Hoon Kim & Eunyoung Shim	MS-6: Securing Sustainable Seaweed Aquaculture Convenors: Juliet Brodie & Phaik-Eem Lim
13:00–14:30	<p>MS-4-1: Water depth outweighs reef condition in shaping abundance of non-geniculate coralline algae and microbial communities in coral reefs: A case study from Thailand Jaruwat Mayakun</p> <p>MS-4-2: Comparative metagenomic analysis of marine eDNA from the aquaculture farms of <i>Saccharina japonica</i> in Korea and China Jeong Ha Kim</p> <p>MS-4-3: Patterns in zoospore dispersal of the kelp <i>Eisenia bicyclis</i> at different spatial scales Masakazu N. Aoki</p> <p>MS-4-4: Potential effects of phenological change and increased grazing activities on populations of <i>Sargassum</i> spp. under a warming ocean Put Ang, Jr.</p>	<p>MS-5-1: Signaling and signal transduction in red algae Gwang Hoon Kim</p> <p>MS-5-2: Ca<sup>2+</sup> signaling during fertilization in the red alga <i>Bostrychia moritziana</i>: the role of calcium-dependent kinases Eunyoung Shim</p>	<p>MS-6-1: Towards a global approach to seaweed conservation to safeguard the seaweed industry Juliet Brodie</p> <p>MS-6-2: Chimeric macroalgae for seaweed aquaculture: restocking, restoration, improving sustainability and resilience to climate change Alejandra González</p> <p>MS-6-3: Role of macroalgal culture collections for sustainable seaweed aquaculture Hiroshi Kawai</p> <p>MS-6-4: Sustaining eucheumatoids aquaculture amid climate change Phaik-Eem Lim</p>
14:30–14:45	Break		

April 15

	Main Hall	Hall A	Hall B
	CS-1: Algal Natural Products Chairpersons: Chin Soon Phan & You-Jin Jeon	CS-2: Taxonomy, Phylogeny and Evolution / Algae and Environmental Pollution Chairpersons: Lawrence Liao & Bhumi Nath Tripathi	CS-3: Physiology and Biochemistry Chairpersons: Jang Kyun Kim & Gwang Hoon Kim
14:45–15:00	CS-1-1: Chemotaxonomic Study of Japanese Marine Red Alga <i>Laurencia composita</i> Tatsuhide Miwa	CS-2-1: Novel rearrangements in the mitochondrial genomes of the Ceramiales (Rhodophyta) and evolutionary implications Minho Seo	CS-3-1: Physiological effects of nano-plastics on <i>Grateloupia turuturu</i> and <i>Chondrus ocellatus</i> Jae Woo Jung
15:00–15:15	CS-1-2: New Halogenated Cyclic Monoterpenoid with Anti-biofouling activity from Japanese Red Alga <i>Portieria hornemanni</i> Shinnosuke Ishigami	CS-2-2: Timeline of brown algal origin and diversification Seok-Wan Choi	CS-3-2: Variability of Macroalgal Dissolved Organic Carbon Dynamics: Insights from a Diasporic Kanaka 'Ōiwi Research Methodology in Ainu Mosir Andrew Kalani Carlson
15:15–15:30	CS-1-3: Influence of <i>Sargassum horneri</i> extract on seed germination and seedling of the halophytes, <i>Suaeda maritima</i> and <i>Salicornia herbacea</i> . Nayoung Lee	CS-2-3: Origin of multipartite mitochondrial genomes in red algae Yongsung Lee	CS-3-3: Latitudinal variability in phlorotannins from the Australasian intertidal furoid, <i>Hormosira banksii</i> Flora Lam Kim
15:30–15:45	CS-1-4: Therapeutic potential of <i>Sargassum coreanum</i> -derived fucoïdan: Insights from anti-inflammatory effects in <i>in vitro</i> macrophages and <i>in vivo</i> zebrafish model R. P. G. S. K. Amarasiri	CS-2-4: Taxonomic re-assessment of the genus <i>Laurencia</i> (Ceramiales, Rhodophyta) from Korea, using molecular and morphological analysis Prismabella W. Andiska	CS-3-4: Molecular mechanisms of actin-based spore movement in the <i>Bangia fuscopurpurea</i> Soo Yeon Kim
15:45–16:00	CS-1-5: Fucoïdan from <i>Sargassum autumnale</i> Inhibits Potential Inflammatory Responses via NF- $\kappa$ B and MAPK Pathway Suppression in Lipopolysaccharide-Induced RAW 264.7 Macrophages Nisansala M. Liyanage	CS-2-5: Salinity effects on arsenic biotransformation and speciation pattern by <i>Sargassum</i> species Rakhi Rani Datta	CS-3-5: Arsenic composition of edible sargassaceous seaweeds: comparison of novel Australian species with Japanese Hijiki Alecia Bellgrove

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16:00–16:15			CS-3-6: Stable isotope analysis of non-calcareous macroalgae living within a natural CO <sub>2</sub> vent Denisa M. Berbece
16:15–17:45	Poster Session (Odd)		
17:45–18:00	Free		
18:00–	APPA Council Meeting (Hall B)		

Time	April 16th (Tuesday)		
	Main Hall		
9:00–9:45	Plenary 2 (Chairperson: Hiroshi Kawai) Characterising the marine macroalgae of Aotearoa New Zealand: a report on progress Wendy A. Nelson		
9:45–10:00	Break		

April 16

	Main Hall	Hall A	Hall B
	<p>MS-7: Cryptic Diversity and Phylogeography in Macroalgae Convenors: Myung Sook Kim &amp; Ni-Ni-Win</p>	<p>MS-8: Isoyake Taisaku -Action Plan and Practice for Algal Bed Restoration- Convenors: Daisuke Fujita &amp; Aaron Eger</p>	<p>MS-9: Chemical Biology of Microalgae Convenors: Tatsufumi Okino &amp; Lik Tong Tan</p>
10:00–11:30	<p>MS-7-1: Taxonomic reassessment of the genus <i>Dictyota</i> (Dictyotales, Phaeophyceae) from Japan: cryptic diversity and unexpected species richness Ni-Ni-Win</p> <p>MS-7-2: Cryptic diversity and geographic distribution of the widespread species in the genera <i>Caulacanthus</i> and <i>Meristotheca</i> (Gigartinales, Rhodophyta) Mi Yeon Yang</p> <p>MS-7-3: Seaweed phylogeography in the Asian Pacific: A long way to go Zi-Min Hu</p> <p>MS-7-4: Phylogeographic structure and population connectivity of two cryptic <i>Bostrychia</i> species, <i>B. binderi</i> and <i>B. tenella</i> (Rhodomelaceae, Rhodophyta) in southern Japan Narongrit Muangmai</p>	<p>MS-8-1: Current status and restoration of algal beds in Japan - Can we success in warming days? Daisuke Fujita</p> <p>MS-8-2: Subsidizing the overharvest of an overgrazing, range-extending sea urchin for kelp restoration and abalone habitat protection John P. Keane</p> <p>MS-8-3: Restoration of marine ecosystem through the Marine Forest afforestation project in Korea Ji Chul Oh</p> <p>MS-8-4: The kelp forest challenge: a global mission to protect and restore 4 million hectares of kelp forests by 2040. Aaron Eger</p>	<p>MS-9-1: Cyanobacterial natural products: bioactive cyclic and linear peptides Chin Soon Phan</p> <p>MS-9-2: Marine filamentous cyanobacteria: a treasure trove of bioactive specialized metabolites for drug discovery and development Lik Tong Tan</p> <p>MS-9-3: From bioactives to algal population collapse: elucidating the cellular mechanisms of algal death Rebecca J. Case</p> <p>MS-9-4: Chemistry and biology of the water-plant symbiotic algicidal bacteria Masaki Fujita</p>
11:30–12:30	Lunch		

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	Main Hall	Hall A	Hall B
	CS-4: Algal Natural Products / Biotechnology Chairpersons: Xiaoting Fu & Masaki Fujita	CS-5: Ecology / Algae and Climate Change Chairpersons: Christopher Cornwall & Masayuki Tatsumi	CS-6: Physiology and Biochemistry / Harmful Algal Blooms Chairpersons: Ryuta Terada & Garry Benico
12:30–12:45	CS-4-1: Protective Effects of 3-Hydroxy-5,6-epoxy- $\beta$ -ionone, Extracted from Invasive Brown Seaweed <i>Sargassum horneri</i> , Against Inflammation Induced by Urban Particulate Matter in MH-S Mouse Lung Cells Dineth P. Nagahawatta	CS-5-1: Ecological and physical comparison between sporophyte and gametophyte of two <i>Chondrus</i> species (Gigartinaceae, Rhodophyta) Kazuki Sadakane	CS-6-1: Impacts of density, morphology and photosynthetic response of the seaweeds <i>Caulerpa lentillifera</i> , <i>Ulva rigida</i> and <i>Gracilaria fisheri</i> in nutrient absorption from fish culture effluent Boonanan Kaewduang
12:45–13:00	CS-4-2: Comparative study of Wild and aquaculture <i>Ecklonia cava</i> in chemical composition and bio actives in in vitro and in vivo Sang-Woon Lee	CS-5-2: Small-scale genetic diversity of <i>Saccharina japonica</i> : temporal and spatial homogeneity Yuki Hosoyama	CS-6-2: Responses in growth, pigmentation and photo radiation of sea grape, <i>Botryocladia</i> sp. (Rhodymeniales, Rhodophyta) under laboratory condition of various salinity and light colors Penpitcha Kimtin
13:00–13:15	CS-4-3: Diterpenoids from the genus <i>Dictyota</i> (Phaeophyceae) with nematicidal activity against the plant parasitic nematode <i>Aphelenchoides besseyi</i> Manami Iida	CS-5-3: Effects of light color and nutrient on the growth of kelp <i>Eisenia bicyclis</i> Rina Horie	CS-6-3: Effects of fragmentation and co-cultivation on gametogenesis of Laminariales female gametophytes Risa Tsurukame
13:15–13:30	CS-4-4: Possibility on Using of Epiphytic Green Alga, <i>Rhizoclonium riparium</i> (Roth) Harvey for An Approaching to Bioware Paper Hakeem Mahamad	CS-5-4: Contributions of macroalgae in the diets of herbivorous benthic invertebrates Min Gu Kang	CS-6-4: A new challenge to Taiwan's oyster farming industry in 2023: Investigating the origin and potential causes of <i>Ulva</i> green tide on the west coast of Changhua Chun-Yu Su

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13:30–13:45	CS-4-5: Analysis of changes in biological properties of rat liver cell co-cultured with recombinant L-lactate assimilating <i>Synechococcus</i> sp. KC0110 strain Shanga Chu	CS-5-5: Evaluation of seaweed aquaculture and forests as potential carbon sequesters Ha Min Choi	CS-6-5: Metabarcoding Analysis of <i>Cymbella janischii</i> Blooms Reveals Insights on Microbiome Diversity, Bloom Formation, and its Potential Threat Eldrin Arguelles
13:45–14:00	CS-4-6: The role of nutrients extracted from <i>Anabaena</i> sp. PCC7120 using solid acid catalysts in culturing mammalian cells for sustainable cultured meat production Riko Suzuki	CS-5-6: Physiological and molecular responses of coralline algae to a natural future climate laboratory Holly E. Koch	CS-6-6: Effects of nutrient-depletion on growth, photosynthesis, and toxins in <i>P. lima</i> Jeong Hwa Hwang
14:00–14:15	Break		
	Main Hall	Hall A	Hall B
	CS-7: Cell Biology Chairpersons: Dongmei Wang & Chikako Nagasato	CS-8: Seaweed Cultivation Chairpersons: Danilo Largo & Norishige Yotsukura	CS-9: Bioremediation and Biorefineries Chairpersons: Anong Chirapart & Emienour Muzalina Mustafa
14:15–14:30	CS-7-1: Whole genome RNA-Seq analysis of <i>Pyropia yezoensis</i> against biotic and abiotic stress Yongtae Kim	CS-8-1: Comparing establishment of <i>Macrocystis pyrifera</i> gametophytes and sporophytes on different substrata for kelp forest restoration Benjamin M. Williams	CS-9-1: Intermittent aeration and stocking density affect the bioremediation capacity of <i>Chondrus ocellatus</i> grown in <i>Hyporthodus septemfasciatus</i> effluent Sookkyung Shin
14:45–15:00	CS-7-2: Cell repair process in the marine red alga <i>Griffithsia monilis</i> regulated by calcium-mediated reactive oxygen species signaling Chan Young Hong	CS-8-2: Effects of <i>Sargassum horneri</i> extract (SHE) and short-term heat stress on the heat-tolerance of kelp Ho-Hyeon Lee	CS-9-2: Field trials of filamentous algae nutrient scrubber (FANS) operation modes treating agricultural drainage Harizah Hariz



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14:30–14:45	CS-7-3: Host cell entry of the oomycete pathogen <i>Olpidiopsis pyropiae</i> in <i>Pyropia yezoensis</i> Hana Park	CS-8-3: Exploring the effect of temperature and CO <sub>2</sub> aeration towards <i>Ulva prolifera</i> to enhance the land-based aquaculture Kaho Yamaha	CS-9-3: Green seaweed <i>Caulerpa</i> sp diversity status in Malaysian waters and its bioremediation assessment using co-culture techniques with legwhite shrimp <i>Litopenaeus vannamei</i> Emienour M. Mustafa
15:00–15:15	CS-7-4: Cancelled	CS-8-4: What do we mean by 'sustainable seaweed'? Perceptions of a 'sustainable' seaweed production industry in Australia Zoe Brittain	CS-9-4: Effects of different culture media on growth, composition, quality and palatability of <i>Ulva compressa</i> cultivated in cylindrical photobioreactors Cecilia Biancacci
15:15–15:30	CS-7-5: Detection of DNA molecules associated with DNA viruses infected to the diatom <i>Chaetoceros tenuissimus</i> Nanako Nakashima		
15:30–17:00	Poster Session (Even)		
17:00–18:00	Move to Conference Dinner Venue		
18:00–20:00	Conference Dinner (Keio Plaza Hotel)		

Time	April 17th (Wednesday)
	Main Hall
9:00–9:45	Plenary 3 (Chairperson: Shoichiro Suda) Freshwater Algae Bless Us with Exciting Insights into Biology Hisayoshi Nozaki
9:45–10:00	Break

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	Main Hall	Hall A	Hall B
	MS-10: Response and Adaptation of Microalgae in the Changing Environment Convenors: Phaik-Eem Lim & John Beardall	MS-11: The Potential for Macroalgae Ecosystems to Function as Blue Carbon Ecosystems Convenor: Gregory N. Nishihara	MS-12: Algal Culture Collection Convenors: Hiroshi Kawai & Masanobu Kawachi
10:00–11:30	<p>MS-10-1: Transcriptome analysis of <i>Spirulina platensis</i> ST at different nutrition composition and salinity for cultivation in Vietnam Diem Hong Dang</p> <p>MS-10-2: Multi-omics reveals the evolutionary responses of a marine diatom to high CO<sub>2</sub> and warming Peng Jin</p> <p>MS-10-3: Distinct responses of daytime physiology and metabolome of a tropical picochlorophyte under elevated seawater temperature and carbon dioxide Sze Wan Poong</p> <p>MS-10-4: The role of transposons and DNA methylation in a model diatom in response to marine heatwaves and high CO<sub>2</sub> Xin Lin</p>	<p>MS-11-1: Australian blue carbon landscape: Exploring seaweed's potential and constraints as a blue carbon ecosystem Masayuki Tatsumi</p> <p>MS-11-2: Current state and prospects of blue carbon in Japan Tomohiro Kuwae</p> <p>Video presentation: Charting the path for an international tropical seaweed resilience institute Karlotta Rieve (Hatch Blue)</p>	<p>MS-12-1: Introduction of NBRP Algae and recent activities in MCC-NIES Masanobu Kawachi</p> <p>MS-12-2: Selection and evaluation of algal strains capable of commercial application from Freshwater Algae Culture Collection ( FACHB-Collection) Lirong Song</p> <p>MS-12-3: Enriching algae culture collections with research - the Australian National Algae Culture Collection Anusuya Willis</p> <p>MS-12-4: KU-MACC ~ a macroalgal culture collection in Japan Shinya Uwai</p> <p>MS-12-5: The University of Malaya Algae Culture Collection (UMACC): Applications in research and industry consultancies Hui Yin Yeong</p>
11:30–12:30	Lunch		

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	Main Hall	Hall A	Hall B
	<p>MS-13: Seaweed Fishery – Current State and Issues Convenors: Norishige Yotsukura &amp; Tifeng Shan</p>	<p>MS-14: Algal Genome Convenors: Delin Duan &amp; Hwan Su Yoon</p>	<p>MS-15: Current Studies on Species Diversity, Biogeography and Ecology on Non-geniculate Coralline Algae in the Indo-West Pacific Regions Convenors: Wendy Nelson &amp; Showe-Mei Lin</p>
12:30–14:15	<p>MS-13-1: Current state and issues of Kombu fishery in Japan Norishige Yotsukura</p> <p>MS-13-2: Genetic diversity and structure of <i>Undaria pinnatifida</i> (Alariaceae, Heterokontophyta) populations from China and their genetic relationship with those from Japan and Korea: a key issue to be addressed for sustainable breeding and cultivation of this economically important seaweed Tifeng Shan</p> <p>MS-13-3: Culture of <i>Sargassum</i> (Fucales, Phaeophyceae) for tropical species Danilo Largo</p> <p>MS-13-4: Role and state of seaweeds in fishery industry in Thailand Anong Chirapart</p> <p>MS-13-5: Current state and issues of <i>Pyropia</i> cultivation in Japan Kyosuke Niwa</p>	<p>MS-14-1: Genomic analysis provides insight into phycobilisome evolution in <i>Porphyridium</i> (Porphyridiophyceae, Rhodophyta) Hwan Su Yoon</p> <p>MS-14-2: Understanding the ecological diversification of dinoflagellates using genome-powered approaches Cheong Xin Chan</p> <p>MS-14-3: Comparative genomics of a brown seaweed, <i>Cladosiphon okamuranus</i>, using new strain for understanding the capability of heat tolerance Nishitsuji Koki</p> <p>MS-14-4: <i>Ulva</i>: an emerging model for seaweed systems biology Jonas Blomme</p> <p>MS-14-5: Genome resequencing reveals rapid adaption to habitat shift and domestication in the brown alga <i>Saccharina japonica</i> Delin Duan</p>	<p>MS-15-1: Species diversity and biogeography of the non-geniculate coralline genus <i>Harveyolithon</i> in the Indo-West Pacific Oceans Li-Chia Liu</p> <p>MS-15-2: Current status of the diversity of non-geniculate coralline algae in Japan Aki Kato</p> <p>MS-15-3: A five-year study on seasonal changes on species diversity and abundance of reef-forming, non-geniculate coralline algae in Taoyuan algal reefs, Northwestern Taiwan Showe-Mei Lin</p> <p>MS-15-4: Crustose calcifying red algae, agents of change on Pacific coral reefs Tom Schils</p> <p>MS-15-5: Crustose coralline algae can contribute more than corals to coral reef carbonate production Christopher E. Cornwall</p>
14:15–14:30	Break		

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	Main Hall	Hall A	Hall B
	CS-10: Algae and Climate Change / Ecology Chairpersons: Alecia Bellgrove & Gregory Nishihara	CS-11: Taxonomy, Phylogeny and Evolution Chairpersons: Christophe Vieira & Wilfred John E. Santiañez	CS-12: Biotechnology / Cell Biology Chairpersons: Dang Diem Hong & Kazumasa Yamada
14:30–14:45	CS-10-1: The microfilament skeleton of <i>Neopyropia yezoensis</i> inhabiting in intertidal zone triggers thallus responding to water stress Fanna Kong	CS-11-1: Mechanism of structural color (iridescence) in the brown alga <i>Sporochnus dotyi</i> (Sporochnales) Hiroshi Kawai	CS-12-1: The construction of a cellular factory using high-yielding <i>Aurantiochytrium</i> for the production of polyunsaturated fatty acids Xiaojin Song
14:45–15:00	CS-10-2: Contribution of seaweed to ocean carbon sequestration Erlania	CS-11-2: Zygote developmental variation in <i>Monostroma angicava</i> (Ulvoephyceae, Chlorophyta) provides insights into the evolution of multicellular sporophytes Yusuke Horinouchi	CS-12-2: An update of the genetic diversity of wild Eucheumatoids in Indonesia Eka S. Prasedya
15:00–15:15	CS-10-3: Carbon sequestration potential of <i>Ulva</i> blooms and nearby sediments Ji-sook Park	CS-11-3: Studies on taxonomy and distribution of Watanabeales (Trebouxiophyceae, Chlorophyta) Shuyin Li	CS-12-3: Developing mutant strains of eucheumatoids adaptable to climate change scenarios R. A. Narayanan
15:15–15:30	CS-10-4: Future proofing Australian dairy industry with seaweed supplementation Alecia Bellgrove	CS-11-4: Genomic resequencing provide new insights into ecological speciation of three important kelps Jie Zhang	CS-12-4: Molecular mechanisms in wound-induced spore formation in <i>Pyropia yezoensis</i> Dongmei Wang
15:30–15:45	CS-10-5: The simplification of marine ecosystems under ocean acidification – are turf algae becoming the dominant habitat? Ben P. Harvey	CS-11-5: Changes in the biodiversity and distribution of seaweed beds in the northern China seas over the last decade Zhongmin Sun	CS-12-5: Characterization of a CRISPR-mutant targeting an alginate-synthesis gene in male gametophytes of <i>Saccharina japonica</i> Chikako Nagasato
15:45–16:00	CS-10-6: Phytoplankton communities' diversity and its related spatio-temporal trends in Angat Hydroelectric Dam, Norzagaray, Philippines Susana F. Baldia	CS-11-6: Germling Emergence Method facilitates rapid discovery of hidden seaweed biodiversity in tropical reefs Wilfred John E. Santiañez	

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16:00–16:15	CS-10-7: Community Structure of Phytoplankton in Tinipak River, General Nakar, Quezon Province, Philippines Armin S. Coronado	CS-11-7: Hidden encrusting species of the family Stylonemataceae (Stylonematophyceae, Rhodophyta) on a hull surface based on molecular analyses with eco-physiological characteristics Hyung Woo Lee	
16:15–16:30	Break		
	Main Hall	Hall A	Hall B
	CS-13: Ecology / Conservation of Algae / Seaweed Cultivation Chairpersons: Jacqueline Pocklington & Shingo Akita	CS-14: Taxonomy, Phylogeny and Evolution / Harmful Algal Blooms Chairpersons: Narongrit Muangmai & Mitsunori Iwataki	CS-15: Algal Natural Products / Physiology and Biochemistry / Algae for Biofuels Chairpersons: Dineth P. Nagahawatta & Takashi Kamada
16:30–16:45	CS-13-1: High-throughput phenotyping on cultivated macroalgae: system establishment and application Guo Ying Du	CS-14-1: The need for diversity analyses at local and regional scales: a case study of <i>Ramicrusta</i> (Peyssonneliales, Rhodophyta) in the Mariana Islands Matthew S. Mills	CS-15-1: Utilization of <i>Ulva prolifera</i> for human health Xiaoting Fu
16:45–17:00	CS-13-2: Genetic structure of <i>Ecklonia cava</i> (Phaeophyceae, Heterokontophyta) and its seedlings on Sagami Bay, Central Pacific Coast, Japan: an implication of genetic disturbance via transplants Shingo Akita	CS-14-2: Diversity, systematics, phylogeography and evolution of the deeply diverging florideophycean order Hildenbrandiales (Rhodophyta) Christophe Vieira	CS-15-2: Marketing quality and safety characteristics of sea grape, <i>Caulerpa lentillifera</i> from Thailand local farms Rapeeporn Ruangchuay
17:00–17:15	CS-13-3: Cultivating <i>Ecklonia radiata</i> (Laminariales, Ochrophyta) for restoration in Port Phillip Bay, Victoria, Australia Jacqueline B. Pocklington	CS-14-3: Culture and molecular analyses of microalgae from Philippine freshwaters for bioremediation Pierangeli Vital	CS-15-3: <i>Chara corallina</i> Klein ex C.L. Willdenow, the first report of an edible freshwater alga in Thailand and its potential for food Wanninee Chankaew

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17:15–17:30	CS-13-4: Distribution of the kelp <i>Saccharina japonica</i> in the southernmost habitats, Joban-coast fishing ports on the Pacific side of Japan Daisuke Fujita	CS-14-4: Species diversity of karenian dinoflagellates in the Philippines, including the detection of two undescribed species Garry A. Benico	CS-15-4: Effects of high concentration inorganic nitrogen and <i>Vibrio</i> sp. EG12 on bleaching of <i>Betaphycus gelatinae</i> Lei Tang
17:30–17:40	CS-13-5: Genomic insights into the domestication and introgression patterns of <i>Neopyropia yezoensis</i> Yunxiang Mao	CS-14-5: Toxicity variability in <i>Alexandrium catenella</i> isolated from East China sea: impact of temperature, light intensity and grazing pressure Xuexia Zhu	CS-15-5: Research on suitable culture conditions for the growth and lipid accumulation of the green microalga <i>Chlorella sorokiniana</i> for the biodiesel production Dang Diem Hong
17:45–18:00	CS-13-6: Hydro-soluble vitamins in the red algae <i>Neopyropia yezoensis</i> (Bangiophyceae, Rhodophyta): Ascorbic acids and cobalamins in response to photosynthetic pigmentation and oxidative stress Kazuhiro Yoshida	CS-14-6: Biochemical mechanisms of cyanobacterial response to low phosphorus Xiuyun Cao	CS-15-6: Understanding the potential of freshwater microalgae for biofuel production Bhumi Nath Tripathi
18:00–18:15		CS-14-7: Ocean deoxygenation and hypoxia stimulate explosive growth of green-tide forming alga, <i>Ulva ohnoi</i> Huiru Li	
18:15–18:30	Break		
18:30–19:30	Closing Ceremony		

Time	April 18th (Thursday)
9:00–17:00	Workshop (Room 3): Multiple Driver Research Workshop (Organizers: Christopher Cornwall, Ben Harvey, Denisa Berbece, Holly Koch)
Excursion: Upopoi (Ainu Museum) / Showa-shinzan (volcano) / Lake Toya	