

XXI ISS MINISYMPOSIUM SCHEDULE

MINI-SYMPOSIUM NO. 1 - APRIL 22, 11:00 TO 13:00 - ROOM 1. CONVENER: Helen Fitton

SUBJECT: BIOACTIVE SEAWEED EXTRACTS

TIME	TITLE	AUTHOR(S)
11:00-11:20	Comparative study of antibiotics characteristics from <i>Ulva</i> (Chlorophyta), <i>Sargassum</i> (Phaeophyta), and <i>Gigartina</i> (Rhodophyta) from Gunungkidul, Yogyakarta, Indonesia	Sidharta BR*, Atmodjo PK, Mursyanti E
11:20-11:40	New Directions for Fucoidan	Fitton HJ
11:40-12:00	Interspecific consistency of the bioactive polysaccharide ulvan from five species of <i>Ulva</i> and diverse conditions	Winberg PC*, Kirkendale L, Gardiner VA, Karpinić SS, Stringer D, Fox G, Robinson N
12:00-12:20	Design and upscaling of an enzymatic process for producing bioactive oligosaccharides from ulvan, a polysaccharide extracted from green seaweeds	Sassi JF, Nyvall-Collén P, Helbert W, Marfaing H*, Lerat Y, Yvergnaux F, Vardon P
12:20-12:40	Twenty five years of studies on the red alga <i>Solieria chordalis</i> : from the plant to the molecule; a step for a new potential for drugs discovery	Deslandes E*, Bondu S, Goulard F, Fournet I, Fauchon M, Kerjan V, Ar Gall E, Floch JY
12:40-13:00	Discussion	Discussion

MINI-SYMPOSIUM NO. 2 - APRIL 22, 11:00 TO 13:00 - ROOM 2. CONVENER: Alejandro H. Buschmann

SUBJECT: INTEGRATED MULTI-TROPHIC AQUACULTURE

TIME	TITLE	AUTHOR(S)
11:00-11:20	Seaweed used for inorganic extraction on Integrated Multi-Trophic Aquaculture (IMTA): Recent developments and challenges	Buschmann AH*, Hernández-González MC , Varela DA, Pereda SV
11:20-11:40	New developments of IMTA in Europe: focusing on seaweed	Abreu MH*, Bouvet A, Bruhn A, Champenois J, Holdt SL, Hughes AD, Malta EJ, Pereira R, Rebours C, Schipper J, Soler-Vila A
11:40-12:00	Year-round outdoor tank cultivation of delicious <i>Sarcodia</i> sp. (Sarcodiaceae, Rhodophyta) using the recirculation water of farmed tuna	Su HM*, Lee YH, Chen TI

12:00-12:20	Upscaling Integrated Multi-Trophic Aquaculture (IMTA) systems will also require consideration of economic and societal implications	Chopin T*, Ridler N, Robinson B, Barrington K, Shuve H, Caines E, Knowler D, Kitchen P, Yip W, Martínez-Espiñeira R, Murray G, D'Anna L, Flaherty M, Tebbutt K, Latham E, Belanger A, Robinson SMC, Szemerda M
12:20-12:40	Discussion	Discussion
12:40-13:00	Discussion	Discussion

MINI-SYMPOSIUM NO. 3 - APRIL 22, 11:00 TO 13:00 - ROOM 3. CONVENERS: Iain Neish/Muchsin S. Shihab

SUBJECT: ENVIRONMENTAL AND SOCIAL IMPACTS OF SEAWEED FARMING

TIME	TITLE	AUTHOR(S)
11:00-11:20	The nature of seaweed: key to Caluya's cash crop success case?	Arnold SJ
11:20-11:40	Reflexive carrageenan seaweed value chains: An example of successful enterprise development along seashores of the Philippines and Indonesia	Neish I*, Hurtado AQ
11:40-12:00	<i>Kappaphycus</i> mariculture in Bocas del Toro archipelago, Panama: A sustainable alternative livelihood for coastal communities	Rincones R*, Moalic A
12:00-12:20	Seaweed price for sustainable seaweed industry - Indonesian case study	Shihab MS*, Wismiarsi T, Kuswardono A
12:20-12:40	Coastal community empowerment in processing of <i>Kappaphycus</i> – A case study at Nusa Ceningan, Bali	Poeloengasih CD*, Rosyida VT, Bardant TB, Maryana R, Wahono SK
12:40-13:00	Integrating environmental assessment with stakeholder engagement in pilot sites for European seaweed farms	Mooney KM*, Bothwell JH, Dring M, Edwards M, Quéguineur B, Champenois J

MINI-SYMPOSIUM NO. 4 - APRIL 22, 11:00 TO 13:00 - ROOM 4. CONVENER: Showe-Mei Lin

SUBJECT: PHYSIOLOGY AND SYSTEMATICS

TIME	TITLE	AUTHOR(S)
11:00-11:20	Micropropagation of selected Malaysian red seaweeds through tissue culture and airlift photobioreactors	Yeong HY*, Phang SM, Reddy CRK
11:20-11:40	Stimulating motility, spatial congregation and coalescence of red algal spores	Santelices B*, Flores V, Donoso V, Huidobro-Toro JP
11:40-12:00	Decrypting the <i>Falkenbergia</i> stage of the invasive genus <i>Asparagopsis</i> (Bonnemaisoniales, Rhodophyta)	Zanolla M*, Altamirano M, Carmona R, Salvador N, de la Rosa J, Andreakis N, Sherwood A

12:00-12:20	Discussion	Discussion
12:20-12:40	Discussion	Discussion
12:40-13:00	Discussion	Discussion

MINI-SYMPOSIUM NO. 5 - APRIL 23, 09:30-11:30 - ROOM 1. CONVENERS: Phang Siew Moi/Rocky DeNys

SUBJECT: BIOFUEL FROM MARINE ALGAE

TIME	TITLE	AUTHOR(S)
09:30-09:50	Recent advances in renewable energy from seaweeds	Phang SM
09:50-10:10	Two-stage hydrolysis of invasive algal feedstock for ethanol fermentation	Wang X, Liu XH, Wang GY*
10:10-10:30	Unlocking seaweed potential as biomass with synthetic biology and aquafarming	Kashiyama Y
10:30-10:50	Biocrude from macroalgae: revising the paradigm for algal biofuels	Neveux N, Paul NA, Magnusson M, Cole AJ, Yuen A, Haynes BS, Maschmeyer T, de Nys R*
10:50-11:10	Seaweed to biofuels – future direction	Bakken PA
11:10-11:30	Discussion	Discussion

MINI-SYMPOSIUM NO. 6 - APRIL 23, 09:30-11:30 - ROOM 2. CONVENERS: Stefan Kraan/Farid Ma'ruf

SUBJECT: SEAWEEDS AS FOOD AND FEED

TIME	TITLE	AUTHOR(S)
09:30-09:50	Use of seaweed in poultry and quail	Carrillo-Domínguez S*, Casas-Váldez MM, Calvo CC, Carranco ME ¹ , Pérez-Gil RF
09:50-10:10	Use of seaweeds in goats and sheep	Casas-Váldez MM,* Carrillo-Domínguez S, Sanginés GL, Pérez-Gil RF
10:10-10:30	Seaweeds for animal production use	Evans FD*, Critchley AT
10:30-10:50	Macroalgae in fish and shrimp feed: effects and implications	Kraan S
10:50-11:10	Managing enteric methane emissions through macroalgal dietary supplements	Machado L, Magnusson M, Paul NA, Tomkins N, de Nys R*
11:10-11:30	Discussion	Discussion

MINI-SYMPOSIUM NO. 7 - APRIL 23, 09:30-11:30 - ROOM 3. CONVENERS: Raul Ugarte/Sun Ming Boo

SUBJECT: POPULATION ECOLOGY

TIME	TITLE	AUTHOR(S)
09:30-09:50	Temperature anomalies changing the growth and reproductive cycles of <i>Sargassum hemiphyllum</i> and <i>S. siliquastrum</i> in Hong Kong	Ang P*, Kam KYL, Yeh DH, Yeung CW, Yeung FF, Chan WY
09:50-10:10	Growth dynamics of <i>Ascophyllum nodosum</i> thalli under natural and harvested conditions in southern New Brunswick, Canada	Ugarte R
10:10-10:30	Monitoring the sustainability of <i>Lessonia spp.</i> wild populations under strong harvesting pressure in Northern Chile	Vásquez JA*, Vega JM, Broitman B
10:30-10:50	Continental-scale patterns of ecological processes in Australian kelp beds	Wernberg T*, de Bettignies T, Bennett S, Mohring M
10:50-11:10	Discussion	Discussion
11:10-11:30	Discussion	Discussion

MINI-SYMPOSIUM NO. 8 - APRIL 23, 09:30-11:30 - ROOM 4. CONVENERS: TBA

SUBJECT: HUMAN AND NATURAL IMPACTS ON SEAWEED BEDS

TIME	TITLE	AUTHOR(S)
09:30-09:50	Effect of the great east Japan earthquake on <i>Zostera</i> meadows in the coastal area close to the epicenter	Muraoka D*, Tamaki H
09:50-10:10	Effects of east Japan earthquake tsunami on seaweeds in a 'rias', Onmae Bay, Onagawa, northeastern Honshu, Japan	Fujita D*, Kawagoshi RJ, Kobayashi M, Ishikawa T, Kosugi C
10:10-10:30	Changes in the distribution pattern after 14 years between summer and autumn reproductive Baltic <i>Fucus vesiculosus</i> (Phaeophyceae) – a result of eutrophication?	Schagerström E*, Kautsky L
10:30-10:50	Discussion	Discussion
10:50-11:10	Discussion	Discussion
11:10-11:30	Discussion	Discussion

MINI-SYMPOSIUM NO. 9 - APRIL 25, 09:30-11:30 - ROOM 1. CONVENER: Balakrishnan Prithiviraj**SUBJECT: AGRICULTURAL APPLICATIONS OF SEAWEED EXTRACTS**

TIME	TITLE	AUTHOR(S)
09:30-09:50	Increase of health promoting and defense phytochemicals of Brassicae crops following application of commercial seaweed extracts (<i>Ascophyllum nodosum</i>)	Lola-Luz T,* Hennequart F, Gaffney M
09:50-10:10	Genomics and post-genomics approaches to gain new insights into seaweed agricultural uses	Potin P*, Conan C, Goulitquer S, Correc G, Kloareg B, Leblanc C
10:10-10:30	Mechanisms of plant abiotic stress mitigation by extracts of <i>Ascophyllum nodosum</i>	Prithiviraj B
10:30-10:50	Plant growth regulators in the seaweed extract Kelpak®	Stirk WA*, Papenfus HB, Arthur GD, Tarkowská D, Strnad M, van Staden J
10:50-11:10	Discussion	Discussion
11:10-11:30	Discussion	Discussion

MINI-SYMPOSIUM NO. 10 - APRIL 25, 09:30-11:30 - ROOM 2. CONVENER: Anicia Q. Hurtado**SUBJECT: CULTIVATION OF TROPICAL RED SEAWEEDS**

TIME	TITLE	AUTHOR(S)
09:30-09:50	Cultivation of red seaweed in Latin America	Hayashi L*, Bulboa C, Kradolfer P, Gonzalo Soriano G, Robledo D
09:50-10:10	Cultivation of tropical red seaweeds in the BIMP-EAGA region	Hurtado AQ*, Gerung GS, Yassir S
10:10-10:30	Recent developments in the cultivation and utilisation of red seaweeds in the Western Indian Ocean Region	Msuya FE*, Buriyo A, Wakibia G, Mrabu E, Omar I, Kous BP
10:30-10:50	Cultivation of tropical red seaweeds in Asia-Pacific region	Sahoo D*, Seth A, Hurtado AQ, Grevo G, Neish I
10:50-11:10	Discussion	Discussion
11:10-11:30	Discussion	Discussion

MINI-SYMPOSIUM NO. 11 - APRIL 25, 09:30-11:30 - ROOM 3. CONVENERS: Juan A. Corea/Charles S. Vairappan

SUBJECT: PHYCOPATHOLOGY AND DISEASE IN SEAWEEDS

TIME	TITLE	AUTHOR(S)
09:30-09:50	ss DNA viruses the causative agents of bleaching and reduced photosynthesis in <i>Ecklonia radiata</i>	Lachnit T*, Hill R, Marzinelli EM, Campbell AH, Harder T, Thomas T, Steinberg PD
09:50-10:10	Impact of epiphyte infection on the physical and chemical properties of carrageenan produced by <i>Kappaphycus alvarezii</i> Doty (Soliericeae, Gigartinales, Rhodophyta)	Vairappan CS*, Chong SC, Matsunaga S
10:10-10:30	The most wanted <i>Porphyra</i> disease in Korean cultivation beds: A new diagnosis	Kim GH
10:30-10:50	Fungal diseases of marine algae	Klochkova TA*, Kim GH
10:50-11:10	Biotic interactions of kelps and phycopathology, what is known and what is next?	Potin P*, Ritter A, Thomas F, Cosse A, Goulitquer S, Durruflé H, Fasshauer C, Küpper FC, Kloareg B, Faugeton S, Leblanc C
11:10-11:30	Discussion	Discussion

MINI-SYMPOSIUM NO. 12 - APRIL 25, 09:30-11:30 - ROOM 4. CONVENERS: Lim Phaik Eem/Wang Guangce

SUBJECT: CULTIVARS & MOLECULAR BIOLOGY OF COMMERCIAL SPECIES

TIME	TITLE	AUTHOR(S)
09:30-09:50	Biogeography and genetic structure of the agarophyte genus <i>Gelidium</i> (Rhodophyta) based on three coding genes, <i>cox1</i> , <i>psaA</i> , and <i>rbcl</i>	Boo GH, Kim KM, Gerung GS, Mansilla A, Nelson W, Yoon KJ, Boo SM*
09:50-10:10	A look into the genetic diversity of <i>Kappaphycus</i> and <i>Eucheuma</i> in Southeast Asia	Lim PE*, Tan J, Phang SM, Hong DD, Nikmatullah A, Sunarpi H, Hurtado AQ
10:10-10:30	Molecular phylogeny and systematics of the marine red algal family <i>Liagoracea</i> e sensu lato (Nemaliales, Rhodophyta)	Lin SM*, Huisman JM, Payri CE, Rodríguez-Prieto C, Nelson WA, Guiry MD, Liu SL
10:30-10:50	Genetic similarity analysis within <i>Pyropia yezoensis</i> blades developed from both conchospores and blade archeospores using AFLP	Wang G*, He L, Zhu J, Lu Q, Niu J, Zhang B, Lin A
10:50-11:10	Discussion	Discussion
11:10-11:30	Discussion	Discussion

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