



May 14, 2021

The 7th Conference of the International Society of Applied Psychology (ISAP2021 virtual)

Agenda

For On-demand

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Opening Ceremony

OC-01: Opening Ceremony [Opening Remarks](#)

OC01001	President of ISAP	Céline Rebours
OC01002	Chair of Local Organizing Committee ISAP2021	Makoto M. Watanabe

OC-01: Opening Ceremony [Sponsor Speech](#)

OC01003	Astareal Co., Ltd	Joerg Schnackenberg
OC01004	Varicon Aqua Solution Ltd	Marco Lizzul
OC01005	SCHOTT AG	Katja Thoma
OC01006	MoBiol Algae Indonesia	Kameswara Natakusumah



PT-01: Plenary Talks [Welcome Speech](#)

PT01001	Our position in Japanese Seaweed Industry ~Specialized in Alga~	Osamu Inoue	Ina Food Industry Co., Ltd
PT01002		Mitsuru Izumo	euglena Co., Ltd



Plenary Talks

PT-01: Plenary Talks **Opening Lecture**

PT01003	A Matter of Life and Algae	Michele Stanley	Scottish Association for Marine Science
PT01004	Challenges for algal culture in the 21 st Century	John Beardall	Monash University

PT-01: Plenary Talks **Keynotes on Biology of Algae**

PT01005	Biosynthesis of Triacylglycerol in Microalgae: A Spotlight on the Plastidial Pathways	Danxiang Han	Chinese Academy of Sciences
PT01006	Understanding pigment and polymer production in cyanobacteria	Anna Amtamann	University of Glasgow

PT-01: Plenary Talks **Keynotes on Culture Systems and Downstream Processes**

PT01007	Production and processing of microalgae biomass for agriculture and aquaculture related applications	Gabriel Acien	University of Almeria
PT01008	High value bioactive compounds from cyanobacteria	Christine Edwards	Robert Gordon University

PT-01: Plenary Talks **Keynote on Applied Phycology at Industrial Level**

PT01009	Industrial phyconomy 2020: A 20:20 vision for bridging the gaps required to fulfil the fullest, phyconomic potential of various types of seaweeds, for their diverse benefits to the environment and all humankind.	Alan Critchley	Cape Breton University
PT01010	The versatility of seaweed – Industrial extraction processes and applications	Pi Nyvall Collen	Olmix

PT-01: Plenary Talks **Keynote on Application of Macro and Microalgae**

PT01011	Disrupting the industry with algae	Jean-Paul Cadoret	Algama
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PT-01: Plenary Talks **Keynote on Governance**

PT01012	Ocean governance as a global common, what future do we want?	Michele Barbier	Institute for Science and Ethics
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Special Session

SS-01: Special Session 1 **Microalgal Synthetic Biology**

SS01001	Chromosomal Surgery of Nannochloropsis towards a minimal microalgal genome	Jian Xu	Chinese Academy of Sciences
SS01002	Engineering Cyanobacteria as microbial autotrophic cell factory	Weiwen Zhang	Tianjin University
SS01003	Lipid remodeling under nutrient starvation in microalgae and its application for oil production	Ohta Hiroyuki	Tokyo Institute of Technology
SS01004	Engineering and ancient light-harvesting protein of PSI for improved light utilization	Yandu Lu	Hainan University
SS01005	Characterization of a novel acyl-CoA synthetase of <i>Microchloropsis gaditana</i> .	Elodie Billey	TOTAL

SS-02: Special Session 2 ***Botryococcus braunii*: International Collaboration to Move Toward Extensive Cultivation and New Applications**

SS02001		Jack Legrand	University of Nantes, GEPEA
SS02002	Microalgal non-destructive hydrocarbon extraction	Navid Moheimani	Murdoch University
SS02003	Indoor photobioreactors to elucidate constraints for <i>Botryococcus braunii</i> exploitation	Dominique Grizeau	University of Nantes
SS02004	Chemical modification of botryococcene by thiol-ene reaction and its possible utilization	Masashi Kijima	University of Tsukuba
SS02005	Anti-oxidative effects of complexes (<i>Botryococcene</i> compound)	Hirofumi Matsui	University of Tsukuba

SS-03: Special Session 3 **Strains Selection for Biotechnology Application**

SS03001		Avigad Vonshak	Ben-Gurion University of the Negev
SS03002	Selection and evaluation of novel stress-resilient microalgal strains for LC-PUFA production	Inna Khozin-Goldberg	Ben-Gurion University of the Negev
SS03003	Screening of Chlamydomonas mutants for high H ₂ production	Giuseppe Torzillo	CNR-Institute of Bioeconomy
SS03004	Strain selection for biomass production and CO ₂ remediation	John Beardall	Monash University
SS03005	Selecting algal strains for commercial-scale production	Michael A. Borowitzka	Murdoch University
SS03006	Isolation of <i>Picochlorum celeri</i> , a Robust, Highly Productive Microalga for Production of Commodities	Joseph Weissman	ExxonMobil research and Engineering
SS03007	The application of exogenously added ROS and ROS photosensitizers for the selection of <i>A. platensis</i> strains resilient to high light	Avraham Ben Shelg	Ben-Gurion University of the Negev



SS-04: Special Session 4 The Next Frontiers of Algae Cultivation for Food and Fuel

SS04001		Philip T. Pienkos	Polaris Renewables
SS04002	Improving outdoor cultivation metrics and modeling of intrinsic biomass value for fuel applications	Lieve Laurens	National Renewable Energy Laboratory
SS04003	Assessing the State of Technology in Algae Cultivation through Year over Year Improvements in Algae Biomass Productivity	John McGowen	Arizona State University
SS04004	The Algae Revolution, Creating an Abundant and Sustainable World	David Hazlebeck	Global Algae Innovations
SS04005	Microalgae biomass production for utilization of CO ₂ and mitigation of greenhouse gas emissions	John R. Benemann	MicroBio Engineering Inc.
SS04006	Farming <i>Nannochloropsis</i> : Driving Production of Low-Cost Nutritional Products	Jake Nalley	Qualitas Health
SS04007	The Advanced Algal Systems R&D Program in the U.S. Department of Energy's Bioenergy Technologies Office	Dan Fishman	US Department of Energy
SS04008	Large scale cultivation of algae for production of foods, feeds, and other products	Rebecca White	Algae Biomass Organization

SS:05: Special Session 5 Algae-Based Bioplastics

SS05001	Development of highly functional bioplastics using cellulose and their application to algae based-bioplastics	Masatoshi Iji	Eco-Bio Plastics Research
SS05002	Transformation platform and biopolymer productivity of photosynthetic bacteria and algae.	Keiji Numata	Kyoto University
SS05003	Algae-based Long chain-bonded paramylon-type bioplastics with low CO ₂ emitting amounts	Midori Yamashiro	NEC Corporation
SS05004	Manufacture and characterization of paramylon esters derived from <i>Euglena</i>	Hongyi Gan	The University of Tokyo

SS-06: Special Session 6 Seaweed Biosecurity - Developing a Progressive Management Pathway for the Seaweed Industry

SS06001	Comparative analyses of the physio-biochemical responses of <i>Kappaphycus alvarezii</i> and <i>K. striatus</i> to elevated temperature	Phaik Eem LIM	University of Malaysia
SS06002	Building A Progressive Management Pathway for Seaweed Biosecurity	Elizabeth COTTIER-COOK	Scottish Association for Marine Science
SS06003	The biosecurity approach for seaweed farming in china	Qi Zhi Zhong	Ocean University of China
SS06003	The biosecurity approach for seaweed farming in china	Tao Liu	Ocean University of China
SS06004	Applying biosecurity measure in <i>Kappaphycus</i> farm and assessment of biosecurity frameworks in seaweed aquaculture in Malaysia	Cicilia KAMBEY	University of Malaysia
SS06005	The Progressive Management Pathway: a Paradigm Shift in Improving Aquaculture Biosecurity	Melba Bondad-Reantaso	The Food and Agriculture Organization (FAO)



SS-07: Special Session 7 **Algal Wastewater Treatment: Current Status and Future Perspectives**

SS07001	Wastewater treatment with microalgae ponds	John R. Benemann	MicroBio Engineering Inc.
SS07002	Microalgae for Water and Nutrient Recycling	Tryg Lundquist	California Polytechnic State University
SS07003	Microalgae production coupled to wastewater treatment	F. Gabriel Acien Fernandez	University of Almeria
SS07004	Removal of faecal indicators and viral pathogens in hectare-scale wastewater treatment high rate algal pond system	Rupert Craggs	National Institute of Water and Atmospheric Research Ltd

SS-08: Special Session 8 **Molecular and Automated Identification Imaging Tools for the Detection of Toxic Algae**

SS08001	Advances in the detection of toxic algae using electrochemical biosensors	Linda Medlin	Marine Biological Association of the UK
SS08002	Automated early warning using the Imaging Flow Cytobot to mitigate impacts of harmful algal blooms	Lisa Campbell	Texas A&M University
SS08003	NHBON-NE, an adaptive sensor network for real-time harmful algal bloom surveillance and data sharing	Michael Brosnahan	Woofs Hole Oceanographic Institution
SS08004	Biosensors & Arrays for marine toxin detection	Katrina Campbell	Queens University Belfast
SS08005	Application of Molecular Tools in Monitoring Cyanobacteria and Their Potential Toxin Production	Vitor vascoceles	University of Porto

SS-09: Special Session 9 **Cyanobacteria in Biocrusts: from Biology to Biotechnology**

SS09001	Role of biocrusts in soil rehabilitation in desert environments	Roberto De Philippis	University of Florence
SS09002	Combining biocrust cyanobacteria inoculation and plant-based amelioration techniques to restore dryland soils	Sonia Chamizo	University of Almeria
SS09003	Biocrust cyanobacteria as bioinoculants for native plants in ecosystem conservation and restoration	Miriam Munoz-Rochas	University of New South Wales
SS09004	You shall not pass -How Cyanobacteria affect water movement in biocrusts	Vincent J.M.N.L. Felde	University of Hannover
SS09005	The extracellular polymeric matrix in biocrusts and its role in the improvement of soil properties	Alessandra Adessi	University of Florence



Oral Session

OS-01: Oral Session 1 Isolation and Characterization

OS01001	Chronic effects of irradiance, temperature, desiccation and salinity on the PSII photochemical efficiency in the heteromorphic life history stages of cultivated <i>Pyropia yezoensis</i> f. <i>narawaensis</i> (Bangiales) from Japan	Ryuta Terada	Kagoshima University
OS01002	Lipid remodeling in the microalga <i>Koliella antarctica</i> in response to phosphate starvation	Hirono Suzuki	Nord University
OS01003	Wavelength regulation of the nutritional properties of the marine microalga <i>Dunaliella salina</i>	Yanan Xu	University of Greenwich
OS01004	Untargeted metabolomic fingerprinting of <i>Halymenia floresii</i> secondary metabolites to investigate its defence on surface	Shareen A Abdul Malik	University of South Brittany
OS01005	New insights into mechanisms of arachidonic acid biosynthesis in <i>Lobosphaera incisa</i>	Inna Khozin-Goldberg	Ben-Gurion University of the Negev
OS01006	Influence of high salinities and temperatures on growth and pigment expression of recently isolated Qatari cyanobacteria strains.	Touria Bounnit	Qatar University
OS01007	Application of high-resolution respirometry for studying chloroplast and mitochondrial bioenergetics in <i>Chlamydomonas reinhardtii</i> and <i>Phaeodactylum tricornutum</i> : a comparative study	Maria Huete-Ortega	Oroboros Instruments GmbH
OS01008	Isolation and polyphasic characterization of <i>Dunaliella</i> strains from solar saltworks of Greece	Georgia Papapanagiotou	Aristotle University of Thessaloniki
OS01009	Structural characterization of ulvan isolated from the green seaweed <i>Ulva fasciata</i> Delile (Ulvales, Chlorophyta) cultured in enriched sea water	Tiphane Andrade Figueira	Federal University of Rio de Janeiro
OS01010	Growth and PSII performance of <i>Nannochloropsis oceanica</i> grown in three different pilot-scale cultivation systems outdoors	Mariana R. Carneiro	University of Porto
OS01011	SpirPep to aid antimicrobial peptides discovery in <i>Spirulina</i>	Sukunya Oaew	National Center for Genetic Engineering and Biotechnology (BIOTEC)
OS01012	Effect of different light irradiances on photosynthesis and wet weight of cultured and packed sea grapes (<i>Caulerpa lentillifera</i>)	Lara Elisabeth Stuthmann	Leibniz Centre for Tropical Marine Research
OS01013	Metabolic engineering of marine diatom <i>Thalassiosira weissflogii</i> towards enhanced biomolecule production	Thomas Kiran Marella	International Crops Research Institute for the Semi-Arid Tropics
OS01014	Partial characterization and biological activity of glycoprotein-rich fraction from <i>Ulva</i> sp. (Chlorophyta) and <i>Solieria chordalis</i> (Rhodophyta)	Hugo Pliego-Cortés	LBCM, Université Bretagne Sud
OS01015	The lipid droplet proteome of the oleaginous model pennate diatom, <i>Phaeodactylum tricornutum</i>	Ben Leyland	Ben-Gurion University of the Negev



OS-02: Oral Session 2

Ecology

OS02001	The spatiotemporal contribution of the phytoplankton community and environmental variables to the carbon sequestration potential in an urban river	Jia Feng	Shanxi University
OS02002	Ecotypes of <i>Gracilariopsis tenuifrons</i> (Gracilariales, Rhodophyta) along the Brazilian coast: physiological adaptation due to temperature	Andre V. F. Faria	Sao Paulo University
OS02003	Distribution of heavy metals in the brown seaweed <i>Cystoseira tamariscifolia</i> collected from the Atlantic coast of Morocco	Younes Boundir	Cadi Ayyad University
OS02004	Numerical modeling on the transition of toxic algae production in a nutrients limited conditions in a eutrophic lake	Md. Nazrul Islam	Jahangirnagar University
OS02005	Comparative analysis of phenotypic traits of selectively bred <i>Saccharina latissima</i> sporophytes from the NW Atlantic coast	Michael Marty-Rivera	University of Connecticut
OS02006	Defining the terrain attributes influencing benthic flora and <i>Strongylocentrotus Droebachiensis</i> distribution along the western coast of placentia bay.	Julia A Mackin-McLaughlin	Memorial University of Newfoundland
OS02007	Allelopathic effect of <i>Pyropia haitanensis</i> (Rhodophyta) on the bloom-forming <i>Skeletonema costatum</i> (Bacillariophyta)	Vishal Vasudeo Patil	Xiamen University
OS02009	Confirmation of the Ploidy of Two <i>Kappaphycus alvarezii</i> Strains	Fernanda Bouvie	Federal University of Santa Catarina
OS02010	The effects of co-cultured of toxic <i>Pyrodinium bahamense</i> var <i>compressum</i> with fish killer <i>Margalefidinium polykrikoides</i> .	Asilah Al-Has	International Islamic University of Malaysia
OS02011	Preliminary assessment of wild and cultivated Eucheumatoid diversity in the Philippines	Rema C. Sibonga	University of the Philippines Visayas
OS02012	Molecular confirmation of wild <i>Kappaphycus</i> (Rhodophyta, Gigartinales) from Bolinao, Pangasinan and Guiuan, Eastern Samar, Philippines as inferred from the mitochondrial <i>cox2-3</i> spacer gene	Zae-Zae A. Aguinaldo	University of the Philippines



OS-03: Oral Session 3

Biomass Production

OS03001	Biotechnology for algal biomass production: An integrated economical and biochemical approach.	Dagon M Ribeiro	University of Brasilia
OS03002	International Algal Culture Collections: essential services for 21 st century phycology	Christine N Campbell	Scottish Association for Marine Science
OS03003	New hatchery methods for cultivation of the Atlantic rhodophyte <i>Palmaria palmata</i> lessons learned from 4 years	Peter S. Schmedes	Technical University of Denmark
OS03004	Innovative thermal control mechanism in outdoor flat plate photobioreactors for the sustainable production of microalgal biomass	Emeka G Nwoba	Murdoch University
OS03005	The Growth and Proximate Composition of Green Macroalgae, <i>Caulerpa macrodisca</i> (Caulerpaceae, Chlorophyta) in Captivity	Wahidatul Husna Zuldin	Universiti Malaysia Sabah
OS03006	A simple growth model helps to design and optimize algae cultivation strategies	Miguel Olaizola	OLAS - All things algae, LLC
OS03007	Chemical and genetic detection systems for early warning of pond crashes.	Todd W Lane	Sandia National Laboratories
OS03009	Growth and Reproduction of <i>Pyropia yezoensis</i> under different temperatures and AMPEP concentrations	Sol Han	Incheon National University
OS03010	Performance of <i>Ulva fasciata</i> in integrated cultivation of shrimp and mullet in biofloc system E.	Leila Hayashi	Federal University of Santa Catarina
OS03011	<i>Limnospira indica</i> PCC8005 growth in photobioreactor : model and simulation of the space and ground experiments	Celine Laroche	Universite Clermont Auvergne
OS03012	Magnetic field application on microalgae cultures: impact on the growth and synthesis of biomolecules	Kricelle M. Deamici	Universite Clermont Auvergne
OS03013	Identification of optimal cryopreservation conditions for the red microalgae <i>Porphyridium</i> and <i>Rhodella</i>	Imke Lang	University of Applied Sciences Bremerhaven
OS03014	An ordinary differential equation (ODE)-based dynamic model for optimizing biomass and phycocyanin yields in <i>Arthrospira platensis</i>	Noppathonthan Aowtrakool	King Mongkut's University of Technology Thonburi
OS03015	Carotenoids Production in <i>Arthrospira platensis</i> strain C1 under Temperature stress	Ibrahim Ahmed Mohammed	King Mongkut's University of Technology Thonburi
OS03016	Milking of <i>Botryococcus braunii</i> on a semi-technical scale	Christian Kleinert	Anhalt University of Applied Sciences



OS-04: Oral Session 4 **Biorefinery**

OS04002	Polyethyleneimine as a tool for compounds fractionation in a microalgae biorefinery context	Celine Laroche	Universite Clermont Auvergne
OS04003	Biobased ionic liquids as efficient solvents of microalgae polysaccharides: The case of paramylon	Frédérica Feuzing	University of Nantes, CNRS, GEPEA
OS04004	Fungi-assisted microalgae bio-refinery system for fuels and nutrients recovery	Jie Chen	Nanchang University

OS-05: Oral Session 5 **Bioprocessing**

OS05001	Marine dinoflagellate-based bioprocesses	Emilio Molina Grima	Universidad de Almeria
OS05002	Sargassum contamination and consequences for downstream uses	Ronan Pierre	CEVA (Centre d'Etude et Valorisation des Algues)
OS05003	Changes in high-value biomolecules and bacterial contamination during outdoor storage and degradation of four macroalgae.	Keelan C. Lawlor	National University of Ireland Galway
OS05004	Harvesting microalgae using negatively charged , patterned polysulfone membranes in a vibrating membrane bioreactor	Zhenyu Zhao	KU Leuven
OS05005	Metabolic fractioning of food seaweed <i>Palmaria palmata</i> following screw-pressing and the effect of ensiling on the press residue	Jessica Adams	Aberystwyth University
OS05006	Harvesting time and biomass composition affect the economics of microalgal production	Yixing Sui	University of Greenwich
OS05007	Flocculation of microalgae and recirculation of the supernatant	F. Delrue	CEA Cadarache, Groupe Biomasse 3G



OS-06: Oral Session 6

Biomolecules and Therapeutics

OS06001	Production of Poly- and Oligosaccharidic Fractions from Macroalga <i>Ulva</i> sp.: Regulation of Extracellular Matrix Renewal in Human Skin Fibroblasts	Mathilde Fournière	Laboratoire de Biotechnologie et Chimie Marines
OS06002	Production and applications of high EPA biomass and oils in the Arizona high desert	Miguel Olaizola	Arizona Algae Products, LLC
OS06003	Effect of commercial seaweed extracts (AMPEP and Kelpak) from the brown algae on <i>Pyropia yezoensis</i> at different temperatures	Sookkyung Shin	Incheon National University
OS06004	Antibiofouling surfaces for industrial photobioreactors	Emilio Molina Grima	University of Almeria
OS06005	Nutrients extraction from microalgae to cultivate mammalian cells	Yuta Okamoto	Waseda University
OS06006	Potential of the red algae <i>Dixonella grisea</i> metabolites as lubricant bio-additives	Antonio Gavalas Olea	Bremerhaven University of Applied Sciences
OS06007	Improvement of commercially important micropropagation techniques of cultivated <i>Kappaphycus</i> species in Penang, Malaysia using the brown seaweed-derived, organic biostimulant formulation AMPEP K ⁺ (<i>Ascophyllum</i> Marine Plant Extract Powder) vs a fertilizer control of modified Long Ashton's Nutrient Solution (LANS-M)	Majid Khan Majahar Ali	Universiti Sains Malaysia
OS06008	Tropical cyanobacteri, <i>Nostoc</i> sp. water extracts impart antioxidant and wound healing properties	Su Chern Foo	Monash University Malaysia
OS06010	Chemical Composition and In vitro Assessment of Antioxidant , Antibacterial , Antidiabetic and Tyrosinase Inhibition Activities of <i>Sargassum polycystum</i> C. Agardh (Phaeophyceae , Ochrophyta)	Eldrin DLR. Arguelles	University of the Philippines Los Banos
OS06011	Undaria fucoïdan influences serum micro RNA; a clinical study	Damien Stringer	Marinova Pty Ltd
OS06012	Antioxidant and Antimicrobial activity screening of Seven Seaweed Species from Sri Lankan Waters	Thiruchenduran Somasundaram	National Aquatic Resources Research and Development Agency
OS06016	Seaweed extracts as antimicrobial agents in aquaculture	Céline Rebours	Møreforsking Ålesund AS
OS06017	Biotechnological Production of Astaxanthin from the Microalga <i>Haematococcus pluvialis</i>	Jian Li	Panzhihua University
OS06021	Production of functional ingredients for Nutraceuticals from Diatoms	Archana Tiwari	Amity University



OS-07: Oral Session 7 Bio-Materials and Bio-Energy

OS07001	Algae-based Biorefinery Schemes for Biofuel Feedstock Production using Native Polyculture Microalgae in Tropic and Sub-Tropic Areas	Devitra S. Rani	University of Tsukuba
OS07002	Environmental hotspots of microalgae to bio-crude oil production: Minamisoma pilot plant case study	Agusta S Putra	University of Tsukuba
OS07003	Valorization of a toxic agroindustrial waste (stillage) into bioethanol using <i>Chlorococcum</i> sp. in a biorefinery	Eugenia J. Olguin	Institute of Ecology
OS07004	Growth, lipid production and biodiesel potential of <i>Chromulina freiburgensis</i> Dofl., an acidophilic chrysophyte isolated from the Berkeley Pit Lake, Butte, Montana, USA	June E. Mohler Mitman	Oregon Coast Community College
OS07006	Driving 80 kilometers on seaweed	Jaap W. van Hal	Biomass and Energy Efficiency, TNO energy transition
OS07007	Microalgae starch-based bioplastics	Madeleine Charbonnier	Institut CEA Tech en Région Sud PACA, Centre de Cadarache

OS-08: Oral Session 8 Bioremediation and CO₂ Mitigation

OS08001	CO ₂ effect on microalgal growth in abattoir effluent	Hajar Shayesteh	Murdoch University
OS08002	Adaptive evolution enhances CO ₂ fixation by microalgae	Quanyu Zhao	Nanjing Tech University
OS08003	Application of microalgal strains from inland fisheries for the production of algal feed through the removal on excess nutrients	Janet B Garcia Martinez	Universidad Francisco de Paula Santander
OS08004	Potential of gracilarioid algae (Rhodophyta) to bioremediate inorganic nitrogen and phosphate in recirculating aquaculture systems	Felipe P.A. Cohen	Sao Paulo University
OS08005	A systematic review of the bioremediation potential by marine macroalgae	Tiphane Figueira	Federal University of Rio de Janeiro
OS08006	Enhanced bioremediation efficiency through increased macroalgae species richness	Jessica Knoop	Swansea University
OS08008	Measurement of the initial removal kinetics of Cu ²⁺ and Cd ²⁺ ions by <i>Chlorella vulgaris</i> and <i>Scenedesmus obliquus</i> , using first order and second order kinetic models.	James N Hockaday	Newcast University
OS08010	Investigating the ability of Laminariales Gametophytes For organic carbon assimilation, insights for culture intensification.	Erwan Le Gelebart	BiotechMarine



OS-09: Oral Session 9 Wastewater Treatment

OS09001	Algal culture to treat anaerobic digestate effluents	Navid R Moheimani	Murdoch University
OS09002	Limits to the growth of Microalgae in Anaerobic digested Food waste effluent.	David Chuka-ogwude	Murdoch University
OS09003	Advanced production of two microalgae species and their valuable derivate by using waste water and flue gas for the synthesis of highly functional bio-plastic material	Andreas Isdepsky	University of Tsukuba
OS09004	Efficacy of microalgae in the treatment of wastewater and its resilience as an extremophile	Imran Ahmad	University of Technology
OS09005	Multi-scale modeling of intensive macroalgae cultivation and marine nitrogen sequestration	Meiron Zollmann	Tel Aviv University
OS09006	Wastewater Remediation Using Aggregated Microalgae Bacterial Floccs at Pilot Scale	Andrew James Ward	Queensland Urban Utilities
OS09007	Performance of a microalgal-bacterial consortium system for the treatment of liquid digestate from dairy farm and biomass production	Shunni Zhu	Guangzhou Institute of Energy Conversion
OS09008	Diatom biofilms: towards a sustainable closed loop through wastewater phycoremediation and biomass volarization	Thomas Kiran Marella	International Crops Resesarch Institute for the Semi-Arid Tropics
OS09011	<i>Spirulina</i> -based sustainable soy sauce wastewater treatment and algal biomass utilization	Pei Han	Nanchang University
OS09012	Nutrients recovery from soy sauce wastewater by constructing algal-fungal consortia and biomass production	Hanwu Song	Nanchang University
OS09013	Integration of nutrients balancing and trophic mode conversion strategy for effective landfill leachate nutrients removal and algal biomass production	Jingjing Li	Nanchang University

OS-10: Oral Session 10 Feed, Food and Cosmetics

OS10001	A novel commercial process for natural 2- α GG production by the cyanobacterium <i>Spirulina</i>	Xuefeng LU	Chinese Academy of Sciences
OS10002	Wild <i>Undaria pinnatifida</i> from Golfo Nuevo (Patagonia, Argentina) as biomass feedstock for wakame, fucoidan and phenolic extract production.	Fernando Gaspar Dellatorre	Universidad Tecnologica Nacional
OS10003	A review of microalgae-based carotenoid production and the use of powdered by-products from the food and drink industry as supplements for microalgal growth	Michael Ross	Scottish Association for Marine Science
OS10004	Identifying other suitable and potential indigenous carrageenophytes for commercial cultivation in India	Veeragurunathan Veeraprakasam	CSIR-CSMCR
OS10005	Semi-dry storage as a maturation process for improving the sensory characteristics of the edible red seaweed dulse (<i>Palmaria palmata</i>)	Pierrick Stevant	Moreforskning AS
OS10006	Seasonal impacts on the chemical composition and in-vitro rumen fermentation characteristics of various seaweed species	Deepak Pandey	Nord University
OS10007	Challenges and prospects of using live feed substitutes for larval fish	Solomon M. Birhanu	Debre Berhan university
OS10008	Microalgae from commodities to high value products: the status quo and future developments	Michael A. Borowitzka	Murdoch University
OS10010	The primary energy and phosphorus consumption of soybean and seaweed-based aquafeed proteins -A Norwegian case study	Céline Rebours	Møreforskning Ålesund AS
OS10011	Industrialisation of <i>Galdieria sulphuraria</i> as a source of nutritional biomass and phycocyanin	Hywel D Griffiths	Fermentalg
OS10012	Production of <i>Skeletonema costatum</i> in industrial scale tubular photobioreactors for nutritional applications	Joao Navalho	Necton S.A.



Poster Session

PS-01: Poster Session 1 Isolation and Characterization

PS01001	Bioprospecting for tropical Malaysian microalgae as functional food sources	Tomoyo Katayama	The University of Tokyo
PS01002	Characterization of β -amylase from <i>Cyanidioschyzon merolae</i>	Miyabi Murakami	Meiji University
PS01003	Fucoidan content and composition of <i>Colpomenia sinuosa</i> and <i>Myriogloea major</i> from Argentine Patagonia	Fernando Gaspar Dellatorre	Universidad Tecnologica Nacional
PS01004	Extracellular proteases induction by nitrogen-limited conditions in the thraustochytrid <i>Schizochytrium aggregatum</i> ATCC 28209	Chun Hung Man	University of Tsukuba
PS01005	Study on Squalene Productivity by Overexpression of β -Hydroxy β -Methylglutaryl-CoA Reductase in <i>Aurantiochytrium</i> sp. 18W-13a	Tianjing Yang	University of Tsukuba
PS01006	Highly efficient genome editing in industrial microalga <i>Euglena gracilis</i> using Cas9 ribonucleoproteins	Toshihisa Nomura	RIKEN
PS01007	Metabolomic analysis of sulfur compounds used in a wide range of fields	Iwao Ohtsu	University of Tsukuba
PS01008	Preliminary results regarding isolation of blue and non-blue <i>Haslea</i> spp. from New Caledonia (Southwest Pacific)	Mustapha Mohamed-Benkada	University of Oran1
PS01009	Exploring the diversity of red microalgae for exopolysaccharide production	Aldo Borjas	Universite Clermont Auvergne
PS01010	Extraction and characterization of polysaccharides from <i>Gracilaria gracilis</i> harvested in Bizerte (Tunisia)	Khaoula Yahyaoui	Institut Pascal UMR CNRS
PS01011	The role of LED lights on the biomass production and synthesis of PBPs in a thermotolerant strain of <i>Oscillatoria</i> sp	Andres F Barajas-Solano	Universidad Francisco de Paula Santander
PS01012	Characterization of different Rhodophyta regarding their total contents of metabolites	Thomas M. Hauser	University of Applied Science Bremerhaven
PS01013	Extraction and characterization of red algal polysaccharide degrading enzymes from <i>Cellulophaga</i> species	Md Musa Howlader	Tallinn University
PS01014	Ulva surface-associated bacteria: Molecular identification and enzyme production	Imen HMANI	National Institute of Marine Sciences and Technologies
PS01016	Screening of high-altitude microalgal strains from Colombian habitats as a novel source of high-value metabolites	Andres F Barajas-Solano	Universidad Francisco de Paula Santander
PS01017	Transcriptomic Analysis and Fatty Acid Profile of <i>Chaetoceros muelleri</i> Cultured under Different Phosphorus Concentrations	J. P. Lovio-Fragoso	Universidad de Sonora
PS01018	Rapid and sensitive analysis of uronic acids derived from edible seaweeds	Hiroataka Kakita	Nihon University
PS01020	Bioassays and GC-MS Analysis of the Essential Oils From Selected Freshwater Macroalgae of River Swat.	Zahir Shah	Islamia College University Peshawar



PS-02: Poster Session 2 Ecology

PS02001	Detection of marine Ecosystem Disturbance and harmful Algae Using Metagenomics	Jae Yeon Park	Advanced Institutes of Convergence Technology
PS02002	A science-based standard for assessing the environmental and social sustainability of seaweed production	Miki T. Takada	Marine Stewardship Council
PS02003	Physiological and biochemical responses of marine microalgae to environmental stressors associated with global climate change	Gabrielle Zammit	University of Malta
PS02004	Climate change responses of NE Atlantic kelps. <i>Saccorhiza polyschides</i> as an ocean warming "winner" in the UK?	Nora Salland	Marine Biological Association
PS02007	Temperature and wave exposure as drivers of morphology in two kelp species along the coast of South Africa: A numerical approach	Ross Mark Coppin	University of the Western Cape
PS02008	Trace metal and microbial assessment of seaweeds distributed in Danish inner waters	Susan L Holdt	Technical University of Denmark

PS-03: Poster Session 3 Biomass Production, Bioremediation and CO₂ Mitigation

PS03001	Transcriptomic analysis reveals the mechanism on the response of <i>Chlorococcum</i> sp. GD to varied concentrations of organic carbon in mixotrophic cultivation	Junping Lv	Shanxi University
PS03002	Development of organic acid production from <i>Cyanidioschyzon merolae</i>	Chihiro Yoshida	Meiji University
PS03003	Interaction between <i>Chlorella vulgaris</i> and associated bacterial community under different nutrient regimes	Fleuriane Fernandes	University of Swansea
PS03004	Effect of trace elements in tap water on the algal growth and cell morphology	Sakura Nakagawa	University of Tsukuba
PS03005	Open and closed photobioreactors; past and future	Claudia B Grewe	Salata AG
PS03006	Novel industrial photobioreactor providing technical solutions for microalgae outdoor production	Carola Griebel	Anhalt University of Applied Sciences
PS03007	Production of high-value microalgae using secondary wastewater	Gabriel Acien	University of Almeria
PS03008	N/P Ratio influencing on microalgal cell adhesion in different coatings	Emilio Molina-Grima	Universidad de Almeria
PS03009	Annual performance of a microalgae-bacteria consortia based wastewater treatment process using a pilot scale thin-layer reactor	Emilio Molina-Grima	Universidad de Almeria
PS03010	Characterisation and development of varicon aqua's Cell-Hi Bio an organic media product line for <i>Spirulina (Athrospira Platensis)</i>	Jacob Andrew Searle	Varicon Aqua
PS03011	Long-term intense light culture affects the chlorophyll-carotenoid composition and changes the culture color in Chlorophyceae and Trebouxiophyceae	Tsuyoshi Takeshita	Algal Bio Co., Ltd.
PS03012	Hydrothermal Liquefaction of polycultured microalgae: Yield and Properties of Biocrude	Kyoko Tamura	University of Tsukuba
PS03013	Continuous biocrude production from polycultured microalgae biomass using a Bench-Scale Hydrothermal Tubular Reactor	Sosaku Ichikawa	University of Tsukuba
PS03014	Effects of temperature and nitrogen chemical form on growth and hemagglutinin of the two red algae <i>Gracilaria blodgettii</i> and <i>Gracilariaopsis chorda</i> from Japan	Hirota Kakita	Nihon University

PS03015	Using agro-food industry by-products to produce biomass of microalgae enriched in bioactive molecules	Lidia Martin-Gordillo	University of Huelva
PS03016	Effects of salinity and temperature on biomass accumulation in marine diatom <i>Biremis panamae</i>	Aleksandra I. Golubeva	University of Szczecin
PS03017	The effects of CO ₂ -induced acidification on <i>Tetraselmis</i> biomass productio, photophysiology and antioxidant activity: a comparison using batch and continuous culture	Thierry Jauffrais	Adecap Technopole
PS03019	Experimental sea gardening of Greek strains of <i>Laurencia obtusa</i> producing promising bioactive compounds	Ioannis Tzovenis	Kefalonia Fisheries SA
PS03021	Seaweed-based bioplastic films	Amel ISMAIL	National Institute of Marine Sciences and Technologies
PS03022	Oxygen dependence of photosynthesis and light-enhanced dark respiration studied by High-Resolution PhotoRespirometr	Nora Went	Oroboros Instruments GmbH
PS03023	Microalgae based biorefinery with CO ₂ capture: Life cycle Assessment and Techno-economic analysis	Deepak Sethi	University of Sheffield
PS03024	Freshwater Macroalgal Polysaccharides as a Suitable Metal Chelating Agents	Noreen Khattak	Islamia College University
PS03025	Asexual reproduction in <i>Porphyra umbilicalis</i> Kützting (Bangiales, Rhodophyta) and its development for cultivation in a land-based IMTA system, in Portugal	Madeleine Charbonnier	ALGApplus
PS03026	Use of fish farming effluents to obtain microalgal biomass and metabolites of interest.	Nestor A Urbina-suarez	Universidad Francisco de Paula Santander
PS03027	Night Biomass Loss Characterization of <i>Nannochloropsis granulata</i> in a Pilot Scale Tubular Photobioreactor	Kolos Makay	Anhalt University of Applied Sciences
PS03028	Investigation into microbiome interactions in field-collected and laboratory-grown macroalgae	Claudia L. Cara	National University of Ireland Galway
PS03029	Influence of cultivation temperature on biomass productivity and biochemical composition of <i>Nannochloropsis granulata</i>	Kolos Makay	Anhalt University of Applied Sciences
PS03030	Impact of ultrasound on the aggregation of an extremophile cyanobacterium in liquid cultures	Maria Robles	Universidad de Huelva
PS03031	Nitrogen deficiency modifies the chemical profile and expression levels of the <i>NRT2</i> and <i>DGAT2</i> genes in marine diatom <i>Chaetoceros muelleri</i>	Damaristelma de. Jesús-Campos	University of Sonora
PS03032	Growth and carrageenan properties of AMPEP-treated <i>Kappaphycus alvarezii</i> derived via micropropagation techniques.	Anicia Q. Hurtado	University of the Philippines Visayas
PS03033	Philippine seaweed farming: a farmer's perspective	Jonalyn P. Mateo	University of the Philippines Visayas
PS03034	Resiliency of <i>Gracilariopsis heteroclada</i> (Zhang et. Xia) carpospores at different salinity and temperature levels	Jonalyn P. Mateo	University of the Philippines Visayas
PS03035	Occurrence and distribution of ice-ice and epiphytic pests in farmed eucheumatoids (Rhodophyta) in the Philippines	Joseph P. Faisan, Jr.	Southeast Asian Fisheries Development Center Aquaculture Department
PS03036	Effects of indole-3-acetic acid on proteins, carbohydrates and growth of the red alga, <i>Gracilariopsis chorda</i> from Japan	HirotaKa Kakita	Nihon University
PS03037	Optimization of culturing conditions of soil algae <i>Vischeria magna</i> and their impact on accumulation of eicosapentaenoic acid (EPA)	Galina B. Butaeva	Shenzhen MSU-BIT University
PS03039	Solar-powered hydrothermal liquefaction of microalgae	Florian Delrue	Groupe Biomasse 3G



PS-04: Poster Session 4 **Bioprocessing**

PS04001	Forward and reverse genetics to improve oil productivity in <i>Coccomyxa</i>	Yoko Ide	DENSO CORPORATION
PS04002	Development of an autonomous on-line measuring system for the monitoring of microalgae process parameters	Carola Griebel	Anhalt University of Applied Sciences
PS04003	Cake filtration of microalgae culture for efficient dewatering	Toru Aramaki	University of Tsukuba
PS04004	Microalgae cell disruption and useful components extraction through a strong flow shear stress treatment	Itsuki Aramaki	Saga University
PS04006	Cationic cassava starch and its composite for microalgal separation	Supenya Chittapun	Thammasat University
PS04007	European transdisciplinary networking platform for marine biotechnology (Ocean4Biotech)	Céline Rebours	Moreforskning Alesund AS
PS04008	The norwegian seaweed biorefinery platform (SBP-N)	Céline Rebours	Moreforskning Alesund AS

PS-05: Poster Session 5 **Biomolecules & Therapeutics**

PS05001	Inhibitory effects of <i>Coccomyxa</i> sp. KJ, a green microalga, on influenza A virus	Satoko Komatsu	DENSO CORPORATION
PS05002	A study on the modulation of gut microbiota through ingestion of <i>Euglena gracilis</i> Z	Ayaka Nakashima	euglena Co.,Ltd.
PS05003	Antimalarial activities of lyngbyabellins from marine cyanobacteria	Tatsufumi Okino	Hokkaido University
PS05004	Toxicological evaluation of marine microalgae using antifungal, insecticide, acaricide and algicidal bioassays	Thierry Jauffrais	IFREMER
PS05005	Effect of <i>Fucus vesiculosus</i> bioactive compounds on cholesterol synthesis, intestinal cells permeation and on liver cells metabolomics	Rebeca Andre	Universidade de Lisboa
PS05006	Antimicrobial and antioxidant potential of the alien red alga <i>Asparagopsis taxiformis</i> and associated bacteria isolation	Leila Ktari	National Institute of Marine Sciences and Technologies
PS05007	Carbon Nanodots Synthesized from <i>Dunaliella salina</i> as Sun Protection Filters	Ioannis Tzovenis	Spirulina MAXIMA Ltd.

PS-06: Poster Session 6 **Feed, Food and Cosmetics**

PS06001	Process development for the production of aqueous and lipophilic algal extracts as raw materials for cosmeceuticals	Claudia B Grewe	Salata AG
PS06002	Brown seaweeds as feed additives for pacific white shrimp reared in biofloc system improve thermal stress and white spot syndrome virus resistance	Leila Hayashi	Universidade Federal de Santa Catarina
PS06003	Evaluation of the bio-efficacy of Spirulina fortified traditional Indian complementary foods in amelioration of iron deficiency and protein malnutrition	Raman Kumar	CSIR Institute of Himalayan Bioresource Technology
PS06004	What are the sustainability issues in the Philippine seaweed industry? – Insights from stakeholders	Jee Grace B. Suyo	University of the Philippines Visayas
PS06007	Evaluating the nutritional composition of brown seaweed <i>Fucus vesiculosus</i> - seasonal variation and chemical risk assessment	Susan L Holdt	Technical University of Denmark



Exhibition Booth

EB-01: Exhibition Booth

EB01001	euglena Co., Ltd.
EB01002	MoBiol (MoBiol technology Corporation, Mobiol Algae Indonesia and Mobiol Holdings)
EB01003	DENSO CORPORATION
EB01004	mitsubishi kakoki kaisha, LTD.
EB01005	AstaReal Co., Ltd.
EB01006	DIC Corporation
EB01007	Algae Industry Incubation Consortium, Japan
EB01008	National Institute for Environmental Studies
EB01009	Oroboros Instruments
EB01010	Varicon Aqua Solution Ltd
EB01011	SCHOTT AG
EB01012	Biorea





Career Forum

CF-01: Career Forum

CF01001	Leila Hayashi	Federal University of Santa Catarina
CF01002	Michele Barbier	Institute for Science and Ethics
CF01004	Alan T. Critchley	Verschuren Centre, University of Cape Breton
CF01005	Kengo Suzuki	euglena Co., Ltd

Virtual Tour

VT-01: Virtual Tour

VT01001	Nori tour	Chiba Prefecture
VT01002	Bio-Fuel tour	euglena Co.,Ltd.
VT01003	Kanten tour	Ina Food Industry Co., Ltd.



B2B Meeting

BM-01: B2B Meeting

BM01001	Makoto M. Watanabe	University of Tsukuba
BM01005	Navidreza Moheimani	Murdoch University
BM01006	David Chuka-ogwude	Murdoch University
BM01011	Alan T. Critchley	Verschuren Centre
BM01018	Michele Barbier	Institute for Science and Ethics
BM01026	Mariana R. Carneiro	Faculty of Engineering of the University of Porto
BM01029	Tsuyoshi Takeshita	Algal Bio Co.,Ltd
BM01033	Su Chern Foo	Monash University Malaysia
BM01039	Dagon M Ribeiro	Visitor Professors - CEO
BM01042	Noppathonthan Aowtrakool	Biotechnology program
BM01049	Solomon M Birhanu	Debre Berhan University
BM01050	Asilah Alhas	International Islamic University Malaysia
BM01051	Jaap W. Van Hal	TNO BCT
BM01052	Yanan Xu	University of Greenwich
BM01053	Eldrin DLR. Arguelles	Philippine National Collection of Microorganisms, BIOTECH-UPLB
BM01054	Pengfei Cheng	Ningbo University
BM01061	YI AN LIM	Monash University
BM01066	Ioannis Tzovenis	University of Athens
BM01071	Mais Ahed Sweiss	Al-Balqa Applied University
BM01076	Joerg Schnackenberg	Astareal Co., Ltd
BM01077	Mr Marco Lizzul	Varicon Aqua Solution Ltd
BM01078	Satoshi Haraguchi	DIC Corporation