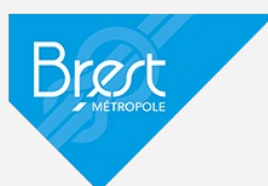
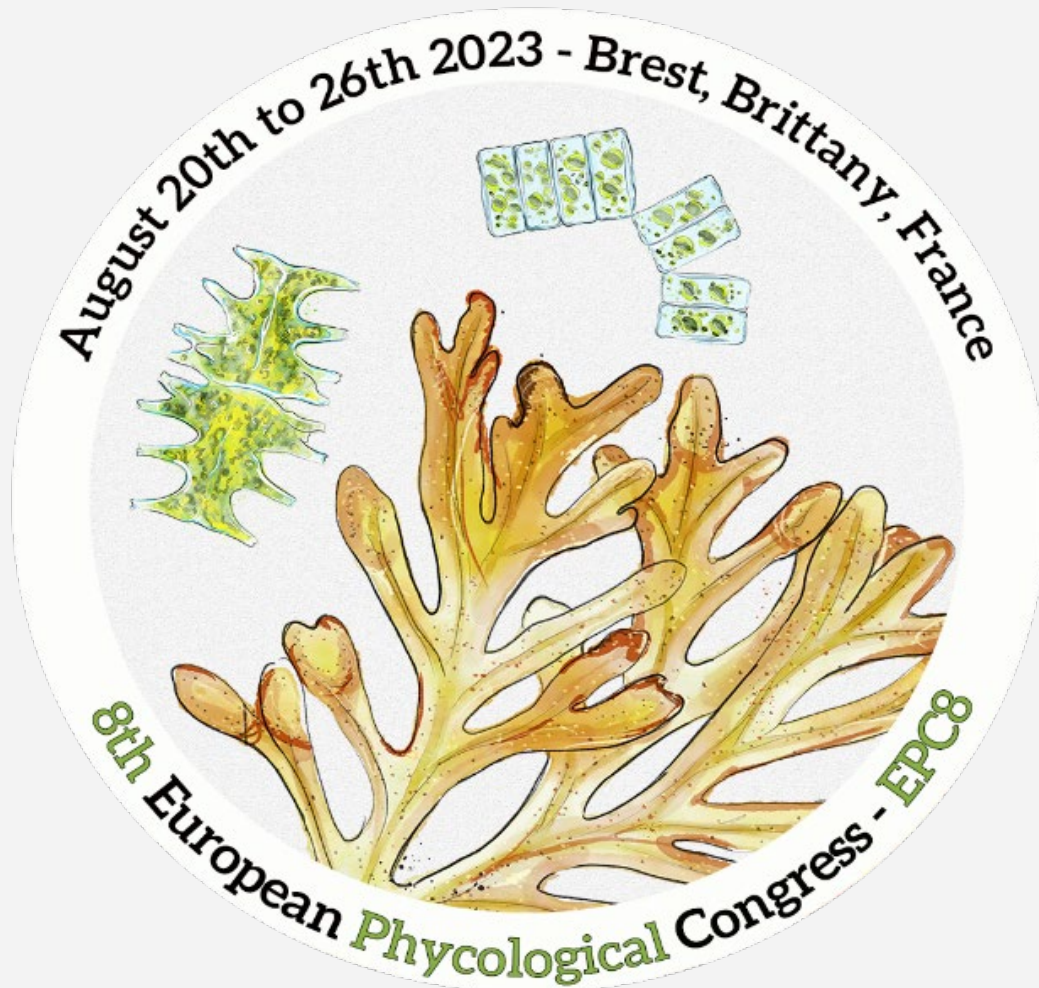


EPC8 PROGRAMME



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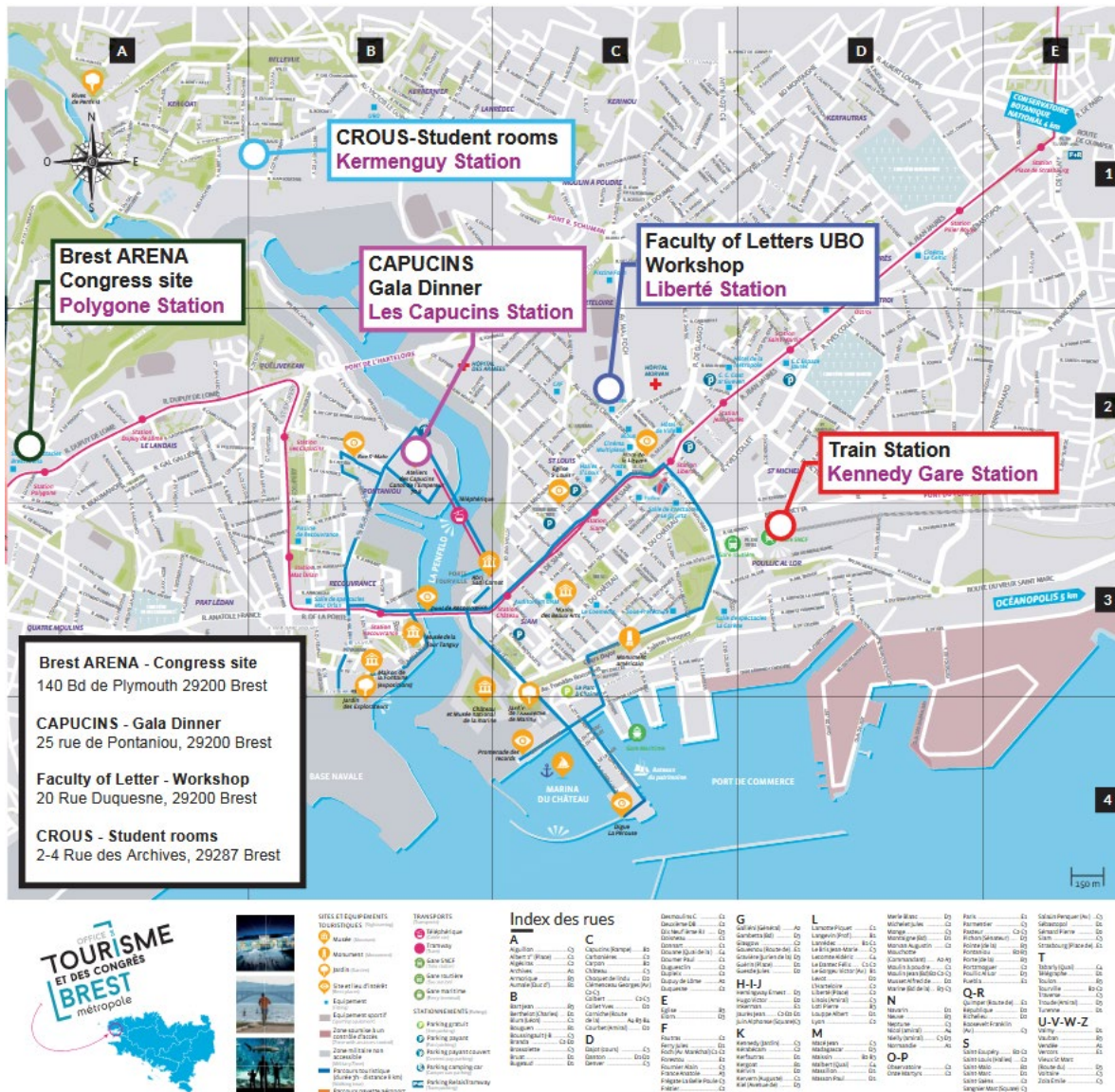


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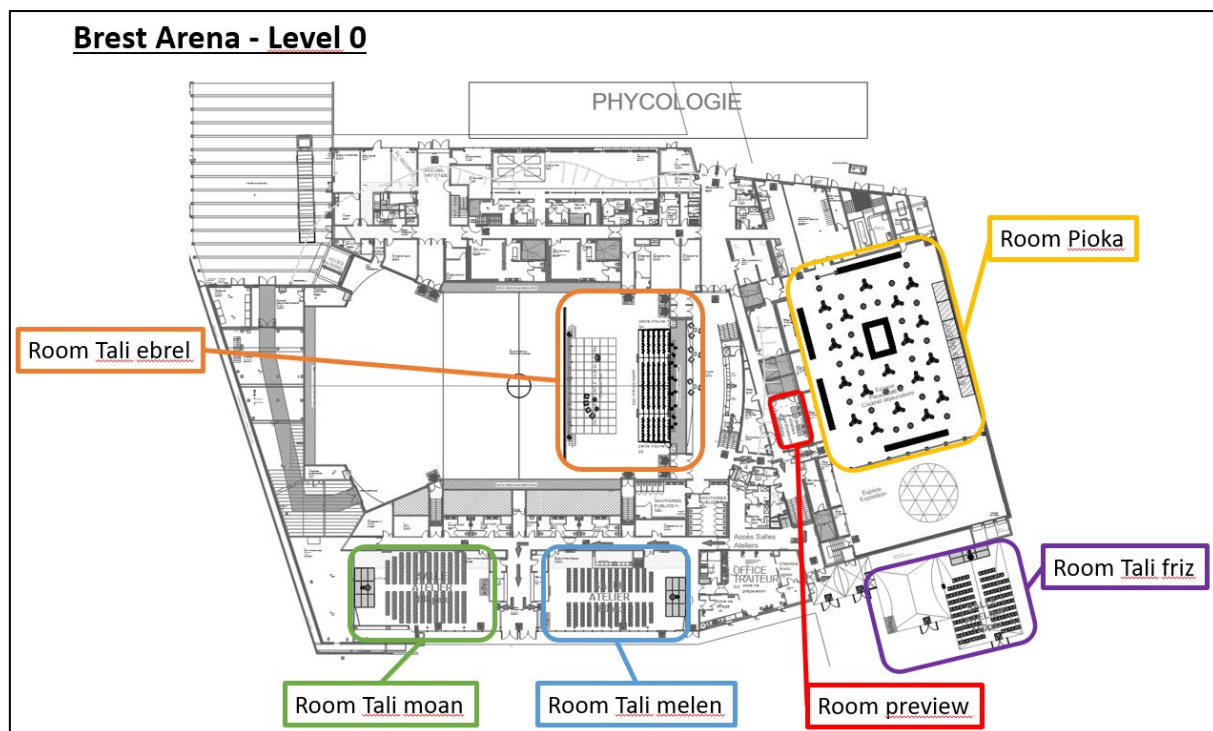
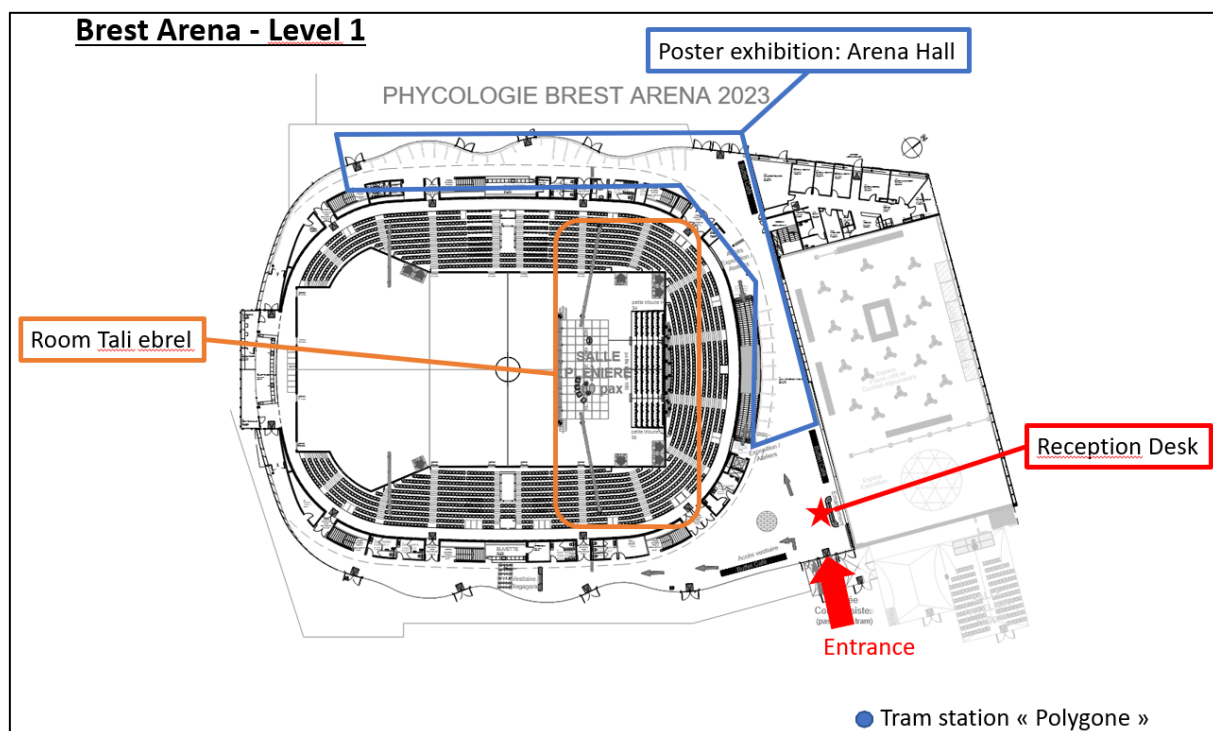
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Congress mini-guide

Map of Brest



Brest Arena Center



EPC8 Programme

The programme includes the names of the presenting authors only. As a professional courtesy, you are kindly requested not to take photographs in the lecture rooms. If you are interested in data presented, please contact the presenter directly. We also would like to remind everybody to switch off their mobile devices during the presentations.

In bold and *, talks in the oral competition.

Sunday 20th August

3:00pm – 7:00pm	Registration	Arena Hall
6:00pm – 9:00pm	Ice breaker reception	Arena Hall

Monday 21st August

8:00am – 6:00pm	Registration	Arena Hall
8:30am – 9:00am	Opening Ceremony	Room "Tali ebel"
9:00am – 10:00am	Plenary Lecture CHRISTOPHE DESTOMBE Sexual and asexual reproduction in rhodophytes: evolution, genetic diversity and adaptive strategy	Room "Tali ebel"
10:00am – 11:00am	Symposia 01, 04, 13 and 15	
Symposium 01		Room "Tali ebel"
Taxonomy and Systematics Convenors: Fabio Rindi & Patrick Kociolek		
10:00am – 10:30am	PATRICK KOCIOLEK - One step forward and two steps: An overview of the taxonomy, systematics and classification of diatoms in the last 2 decades	
10:30am – 10:45am	DOVILE BARCYTE - The resurrected genus <i>Hydrocytium</i> expands the phylogenetic, morphological, and genomic diversity of the poorly known green algal order Chaetopeltidales	
10:45am – 11:00am	JAN POKORNÝ - New insights into the phylogenetic relationship of the <i>Merismopedia</i> and <i>Microcrocis</i> (Cyanobacteria) genera	
Symposium 04		Room "Tali moan"
Algae and their intimate partners Convenors: Johan Decelle & Aschwin H. Engelen		
10:00am – 10:30am	SUHELEN EGAN - Factors that influence microbiome development and disease in seaweeds	
10:30am – 10:45am	*CORALIE ROUSSEAU - The <i>Ascophyllum nodosum</i> holobiont: dynamics of microbial communities over one-year in situ survey	
10:45am – 11:00am	*LUNA VAN DER LOOS - The interplay of <i>Ulva</i> and its bacteria: acclimation to salinity	
Symposium 13		Room "Tali friz"
Algae and ecosystem functioning: the genomics perspective Convenors: Flora J. Vincent & Bente Edvardsen		
10:00am – 10:30am	CHANA KRANZLER - Viral infection dynamics in marine diatoms across environmental and ecophysiological gradients	
10:30am – 10:45am	VALERIA DI DATO - Prostaglandins in marine diatoms	
10:45am – 11:00am	LENKA ŠTENCLOVÁ - Iron monopolization versus community service: the two faces of cyanobacterial beta-hydroxy aspartate lipopeptides	
Symposium 15		Room "Tali melen"
Algae as producers of valuable compounds Convenors: Abdelfatah Abomohra & Alexei Solovchenko		
10:00am – 10:30am	DIETER HANELT - Recent advances in sustainable applications of Seaweeds	

10:30am – 10:45am	SIMON OIRY - Precision aquaculture drone mapping of the spatial distribution of <i>Kappaphycus alvarezii</i> biomass and carrageenan	
10:45am – 11:00am	HUGO PLIEGO-CORTES - Effect of the Instant Controlled Pressure Drop (DIC) Technology for extraction of seaweed compounds	
11:00am – 11:25am	Coffee Break	Arena Hall + Room "Pioka"
11:30am – 12:30am	Symposia 01, 04, 13 and 15	
Symposium 01 (continued)		Room "Tali ebrel"
Taxonomy and Systematics		
Convenors: Fabio Rindi & Patrick Kociolek		
11:30am – 11:45am	MAURYCY DAROCH - The importance of genomics in polyphasic identification of novel thermophilic cyanobacteria	
11:45am – 12:00am	*SVATOPLUK SKOUPÝ - 200 years of <i>Microcoleus</i> - untangling the taxonomy in species continuum	
12:00am – 12:15am	*MARGOT ARNOULD-PÉTRÉ - Is structural colour in the red algal genus <i>Chondria</i> (Rhodomelaceae, Chondriaceae) taxonomically significant?	
12:15am – 12:30am	*DANIEL ÁLVAREZ-CANALI - Assessing the molecular diversity of <i>Sargassum</i> (Phaeophyceae) in the NE Atlantic Ocean	
Symposium 04 (continued)		Room "Tali moan"
Algae and their intimate partners		
Convenors: Johan Decelle & Aschwin H. Engelen		
11:30am – 11:45am	LEILA TIRICHINE - Combined <i>in vivo</i> and <i>in situ</i> genome-resolved metagenomics reveals novel symbiotic nitrogen fixing interactions between non-cyanobacterial diazotrophs and microalgae	
11:45am – 12:00am	MARIE WALDE - The impact of biotic interactions on subcellular structure - an automated 3D imaging approach for marine diatoms	
12:00am – 12:15am	YESEREN KAYACAN - Assembly of diatom-associated bacterial communities under phosphate stress	
12:15am – 12:30am	SAUVANN PAULINO - Temporal dynamic of <i>Ulva</i> sp. epiphytic bacteria and associated surface metabolome	
Symposium 13 (continued)		Room "Tali friz"
Algae and ecosystem functioning: the genomics perspective		
Convenors: Flora J. Vincent & Bente Edvardsen		
11:30am – 12:00am	SIMON DITTAMI - Exploring and manipulating the <i>Saccharina latissima</i> microbiome	
12:00am – 12:15am	YUE WU - Exploring the Role of microbiome and epigenetics in shaping the response of <i>Phaeodactylum tricornutum</i> to hypersalinity	
12:15am – 12:30am	ANUSUYA WILLIS - A global genomics study of <i>Raphidiopsis raciborskii</i> , demonstrating the power of culture collection collaborations	
Symposium 15 (continued)		Room "Tali melen"
Algae as producers of valuable compounds		
Convenors: Abdelfatah Abomohra & Alexei Solovchenko		
11:30am – 11:45am	HUGO MEAR - Extraction of soluble proteins by bead milling from <i>Tetraselmis chui</i> in two different physiological states	
11:45am – 12:00am	DANIEL REMIAS - Zygnematophyceae and their complex phenolic compounds - a biochemical strategy preceding the flavonoids of land plants?	
12:00am – 12:15am	LAURA RIEUSSET - Purification of mycosporin-like amino acids by centrifugal liquid chromatography for improved structural and biological characterisation	
12:15am – 12:30am	ALLA SILKINA - Application of algal technology to convert waste nutrients produced from the anaerobic digestion of farm waste and brewery process to produce biomass for feed application	
12:30am – 1:25pm	Lunch	Room "Pioka"
1:30pm – 3:00pm	Symposia 01, 04, 11 and 15	

Symposium 01 (continued)

Room "Tali ebrel"

Taxonomy and Systematics

Convenors: Fabio Rindi & Patrick Kociolek

1:30pm – 2:00pm	FREDERIK LELIAERT - The future challenges of seaweed systematics
2:00pm – 2:15pm	CRAIG SCHNEIDER - On the application of European binomials for western Atlantic marine macroalgae by 19th century taxonomists
2:15pm – 2:30pm	PHAIK-EEM LIM - Proposal for a global taxonomic and nomenclatural framework for eucheumatoids (Rhodophyta)
2:30pm – 2:45pm	VIVIANA PEÑA - Diversity of coralline red algae from ecologically relevant habitats in Corsica, western Mediterranean
2:45pm – 3:00pm	M. BEATRIZ BARROS-BARRETO - Phylogenetic analysis of the red algal tribe Ceramieae reveals multiple morphological homoplasies but defines new genera

Symposium 04 (continued)

Room "Tali moan"

Algae and their intimate partners

Convenors: Johan Decelle & Aschwin H. Engelen

1:30pm – 1:45pm	ERIK JAN MALTA - Dynamics of the <i>Ulva ohnoi</i> (Chlorophyta, Ulvales) microbiome under different cultivation conditions
1:45pm – 2:00pm	ANANYA KEDIGE RAO - Integration of stolen chloroplasts in marine plankton
2:00pm – 2:15pm	NADEESHANI DEHEL GAMAGE - Could algae - bacteria partnership accelerate growth and lipid production of oleaginous benthic diatoms?
2:15pm – 2:30pm	ZUJAILA NOHEMY QUI MINET - How does light affect the presence and antibacterial activity of <i>Phaeobacter</i> in the <i>Ulva ohnoi</i> holobiont?
2:30pm – 2:45pm	LILIANA MUÑOZ - Natural biocontrol of a <i>Porphyra</i> sp. epiphyte on farmed <i>Gracilaria chilensis</i> by a Pythiosis outbreak
2:45pm – 3:00pm	FRANÇOIS THOMAS - Isotopic tracing reveals single-cell assimilation of macroalgal polysaccharide by marine Flavobacteria and Gammaproteobacteria

Symposium 11

Room "Tali friz"

Changing distribution patterns and new ecosystems

Convenors: Gareth A. Pearson & Anke Kremp

1:30pm – 2:00pm	BENTE EVARSDEN - On the track of causes for fish-killing algal blooms
2:00pm – 2:15pm	*NINA GUERIN - In situ and in vitro transcriptomic response of Picophytoplankton <i>Pelagomonas calceolata</i> to low nitrate conditions
2:15pm – 2:30pm	JULIO DE LA ROSA ÁLAMOS - Population dynamics of <i>Ostreopsis cf ovata</i> in Marina del Este, Alboran Sea (Granada, Spain)
2:30pm – 2:45pm	HUGO SCHARFENSTEIN - Comparing the effects of periodic and continuous thermal selection on the fitness of a coral microalgal symbiont
2:45pm – 3:00pm	THIERRY TONON - Pelagic <i>Sargassum</i> events in Jamaica: provenance, morphotype abundance, and biomass composition

Symposium 15 (continued)

Room "Tali melen"

Algae as producers of valuable compounds

Convenors: Abdelfatah Abomohra & Alexei Solovchenko

1:30pm – 2:00pm	INNA KHOZIN-GOLDBERG - Exploring the bioactive potential of microalgae: Sustainable solutions for health and environment
2:00pm – 2:15pm	ALEXEI SOLOVCHENKO - Perspective of microalgae as a bioplatfrom for the production of inorganic polyphosphates
2:15pm – 2:30pm	HELEN HERBERT - High-value metabolite profiling and bioactivity potential of four microalgae from distinct lineages
2:30pm – 2:45pm	NICO BETTERLE - Engineering of the recently-discovered <i>Synechococcus</i> PCC 11901, a fast-growing cyanobacteria, for the synthesis of high added-value carotenoids

2:45pm – 3:00pm	FLORA LAM KIM - Elucidation of phlorotannins with high antioxidant activity in Australian and French fucoids (Phaeophyceae, Fucales)	
3:00pm – 4:25pm	Posters with Coffee (SYM 01, 04, 11, 13, 15)	Arena Hall
4:30pm – 6:00pm	Symposia 01, 04, 11 and 15	
Symposium 01 (continued)		Room "Tali ebrel"
Taxonomy and Systematics		
Convenors: Fabio Rindi & Patrick Kociolek		
4:30pm – 4:45pm	LENKA PROCHAZKOVA - Phylogeny and ecophysiology of golden-brown snow algae (Chrysophyceae) from Svalbard, the European Alps and High Tatras	
4:45pm – 5:00pm	CHARLOTTE NIRMA - Chemotaxonomy of holopelagic <i>Sargassum</i> specimens using molecular networking	
5:00pm – 5:15pm	MACKENZIE HEAGY - Mastophoraceae diversity within the Mariana Islands	
5:15pm – 5:30pm	PILAR DÍAZ-TAPIA - Phylogenomic analyses reveal a new introduced species in Europe: <i>Lophurella stichidiosa</i> comb. nov. (Rhodomelaceae, Rhodophyta)	
5:30pm – 5:45pm	CHRISTINE MAGGS - NGS reveals life history of the red alga <i>Nemastoma dichotomum</i>	
5:45pm – 6:00pm	LINE LE GALL - Toward an inventory of marine subantarctic algae: investigations in Kerguelen, Crozet, Saint Paul & Amsterdam	
Symposium 04 (continued)		Room "Tali moan"
Algae and their intimate partners		
Convenors: Johan Decelle & Aschwin H. Engelen		
4:30pm – 4:45pm	CAROLINE JUERY - <i>Phaeocystis/Acantharea</i> symbiosis: genomic and transcriptomic insight of core transporter genes	
4:45pm – 5:00pm	KATHERINE HELLIWELL - Characterising the bacterial pathobiome of diatoms inhabiting a productive temperate coastal ecosystem	
5:00pm – 5:15pm	MAËLLE ZONNEQUIN - Metabolic co-evolution: the case of the oxylipin pathway in a host-endophyte interaction between brown macroalgae	
5:15pm – 5:30pm	SYLVAIN FAUGERON - Deciphering the domestication of a seaweed holobiont	
5:30pm – 5:45pm	FLORIAN WEINBERGER - A Jekyll-and-Hyde seaweed pathogen	
5:45pm – 6:00pm	ASCHWIN ENGELEN - Kelp microbiomes benefits to the test: bacteria isolation, characterization, and tested for influence on kelp resilience to global change stress conditions	
Symposium 11 (continued)		Room "Tali friz"
Changing distribution patterns and new ecosystems		
Convenors: Gareth A. Pearson & Anke Kremp		
4:30pm – 5:00pm	ESTER SERRÃO - Climate shaping genetic biodiversity of polar marine forests	
5:00pm – 5:15pm	JEAN-CHARLES LECLERC - Multi-scale patterns in the structure of fouling communities associated with seaweeds in marinas	
5:15pm – 5:30pm	RAUL TRIAY-PORTELLA - Niche divergence and species distribution models to evaluate the spread of <i>Rugulopteryx okamurae</i> in Europe	
5:30pm – 5:45pm	LJILJANA IVESA - The last remaining populations of <i>Gongolaria barbata</i> along the Istrian Coast (northern Adriatic)	
5:45pm – 6:00pm	ANNALISA FALACE - Species loss and long-term decline in taxonomic diversity of macroalgae in the northern Adriatic Sea over the last six decades	
Symposium 15 (continued)		Room "Tali melen"
Algae as producers of valuable compounds		
Convenors: Abdelfatah Abomohra & Alexei Solovchenko		
4:30pm – 4:45pm	*FEDERICA DI COSTANZO - Omic approaches for the identification of biosynthetic pathways for bioactive compounds in the diatom <i>Thalassiosira rotula</i>	

4:45pm – 5:00pm	SAVERIO SAVIO - A biorefinery approach to extract multiple bioactive compounds from the diatom <i>Staurosirella pinnata</i> for drug discovery
5:00pm – 5:15pm	FRANZ GOECKE - A tri-continental survey on the inclusion of macroalgae in the diet
5:15pm – 5:30pm	MICHAEL ROSS - Mining <i>Porphyridium cruentum</i> biodiversity for high value products
5:30pm – 5:45pm	DVIR IRIT - Characterization of emulsions stabilized by polysaccharide from the red microalga <i>Porphyridium</i> sp.
5:45pm – 6:00pm	VALERIE STIGER-POUVREAU - Evolution of thalli and polysaccharide quality of holopelagic <i>Sargassum</i> species during their drift until their stranding
7:00pm – 10:00pm	Public lecture (in French) Room "Tali ebrel"

Tuesday 22nd August

8:00am – 6:00pm	Registration	Arena Hall
9:00am – 10:00am	Plenary Lecture KARIN RENGEFORS From single cells to populations – towards understanding phytoplankton diversity and adaptation	Room "Tali ebrel"
10:00am – 11:00am	Symposia 02, 06, 10 and 08	
Symposium 02 Biodiversity assessment and algal distribution in space and time Convenors: Sophie Steinhagen & Uwe John co-organised the symposium but cannot attend. The keynote speakers (Petra Novak & Klara Wolff) kindly offered to chair the symposium		Room "Tali ebrel"
10:00am – 10:30am	KLARA WOLF - The hidden flows within species: Phytoplankton population dynamics in Arctic assemblages	
10:30am – 10:45am	*LAURA SCHWEIBOLD - Synoptic observations of small-scale phytoplankton variability based on a citizen science program	
10:45am – 11:00am	*VICTOR POCHIC - Photoacclimation in the mixotrophic ciliate <i>Mesodinium rubrum</i>: phenotypic variability and implications for red tide remote sensing	
Symposium 06 Algal cell biology and ultrastructure Convenors: Zoë Popper & Nils Kröger		Room "Tali moan"
10:00am – 10:30am	KLAUS HERBURGER - Cell walls and their remodelling in green algae	
10:30am – 10:45am	AHLEM BOUGUERBA-COLLIN - Characterisation of alginat lyases from brown algae	
10:45am – 11:00am	FRITHJOF KÜPPER - Synchrotron X-rays reveal new insight into halogen and trace metal storage in brown algae	
Symposium 10 Ecology of algal systems Convenors: Florian Weingerber & Petra Visser		Room "Tali friz"
10:00am – 10:30am	DEDMER VAN DE WAAL - Ecological stoichiometry of phytoplankton disease	
10:30am – 10:45am	CAROLIN PAUL - Interactive effects of warming and zooplankton grazing on a phytoplankton community of the Central Baltic Sea	
10:45am – 11:00am	PAULINE BEZIAT - Selenium and marine algae - A trace micronutrient from an environmental perspective	
Symposium 08 Algal photosynthesis, carbon fixation and respiration Convenors: Concepción Iñiguez Moreno & Giovanni Finazzi co-organised the symposium but cannot attend. keynote speaker Benjamin Bailleul & Thomas Lacour kindly offered to chair the symposium		Room "Tali melen"

10:00am – 10:30am	YUSUKE MATSUDA - CO ₂ -concentrating mechanism in marine diatoms
10:30am – 10:45am	CHARLOTTE WALKER - Bestrophin-like proteins play a key role in HCO ₃ ⁻ transport in the <i>Chlamydomonas</i> CO ₂ concentrating mechanism
10:45am – 11:00am	MINORI NIGISHI - Bestrophin-knock out gave an impaired CCM phenotype in marine diatom, <i>Phaeodactylum tricornutum</i>

11:00am – 11:25am	Coffee Break	Arena Hall + Room "Pioka"
11:30am – 12:30am	Symposia 02, 06, 10 and 08	

Symposium 02 (continued) Room "Tali ebrel"

Biodiversity assessment and algal distribution in space and time

Convenors: Sophie Steinhagen and Uwe John co-organised the symposium but cannot attend. The keynote speakers (Petra Novak & Klara Wolff) kindly offered to chair the symposium

11:30am – 11:45am	TI FENG SHAN - Genetic diversity and structure of <i>Undaria pinnatifida</i> populations in China and their genetic relationship with those from other countries
11:45am – 12:00am	RAFAEL PABLO MARTIN-MARTIN - Seascape genomics of <i>Saccharina latissima</i> from the St. Lawrence estuary and gulf (Canada)
12:00am – 12:15am	SARAH BOLIUS - Sediment archives as time-series of millennial phytoplankton adaption
12:15am – 12:30am	FRANCESCA NERI - Phytoplankton response to marine heatwaves tendencies in the Northern Adriatic Sea

Symposium 06 (continued) Room "Tali moan"

Algal cell biology and ultrastructure

Convenors: Zoë Popper & Nils Kröger

11:30am – 11:45am	GWANG HOON KIM - ROS signaling in red algae
11:45am – 12:00am	GINGA SHIMAKAWA - Mapping of subcellular local pHs in marine diatoms
12:00am – 12:15am	ANDREAS HOLZINGER - 3D reconstruction of <i>Spirogyra</i> and <i>Zygnema</i> (Charophyta) zygospores reveals new details on maturation and cell wall formation
12:15am – 12:30am	ATSUKO TANAKA - Detailed observation of secondary chloroplast division in <i>Phaeodactylum tricornutum</i>

Symposium 10 (continued) Room "Tali friz"

Ecology of algal systems

Convenors: Florian Weingerber & Petra Visser

11:30am – 11:45am	LUISA MANGIALAJO - <i>Ostreopsis</i> spp. blooms in relation to macroalgal communities in the framework of regime shifts
11:45am – 12:00am	*ANDREA CASTALDI - Investigating the molecular mechanism of diatom's adhesion using metabolomics to innovate antifouling materials
12:00am – 12:15am	*IRENE ROMERO RODRIGUEZ - Effects of nutrient limitation on survival, infectivity, metabolism and swimming behaviour of <i>Amoebophrya ceratii</i> dinospores
12:15am – 12:30am	*RONNY STEINBERG - Adaption of a non-native <i>Vaucheria</i> species to different light conditions in the Wadden Sea (north-east Atlantic)

Symposium 08 (continued) Room "Tali melen"

Algal photosynthesis, carbon fixation and respiration

Convenors: Concepción Iñiguez Moreno & Giovanni Finazzi co-organised the symposium but cannot attend. keynote speaker Benjamin Bailleul & Thomas Lacour kindly offered to chair the symposium

11:30am – 11:45am	CLARA SIMON - Growth patterns and carbon fluxes: investigation of <i>Ulva</i> spp. primary metabolism using ¹³ CO ₂ -labelling
11:45am – 12:00am	PAMELA FERNÁNDEZ - Local adaptation across multiple life stages and populations: implications for kelps resilience to ongoing climate change

12:00am – 12:15am	RAQUEL SANCHEZ DE PEDRO - Resilience of a warm-temperate fucoid to a simulated marine heatwave: Exploring the interplay between life stages and tissues in relation to emersion	
12:15am – 12:30am	KIARA FRANKE - Variable seasonal photosynthetic quotients of a kelp species - A mirror of the complex relationship between oxygen and carbon	
12:30am – 1:25pm	Lunch	Room "Pioka"
1:30pm – 3:00pm	Symposia 02, 06, 10 and 08	
Symposium 02 (continued)		Room "Tali ebrel"
Biodiversity assessment and algal distribution in space and time		
Convenors: Sophie Steinhagen & Uwe John co-organised the symposium but cannot attend. The keynote speakers (Petra Novak & Klara Wolff) kindly offered to chair the symposium		
1:30pm – 1:45pm	JANINA BRAKEL - Exploring patterns of species diversity and species geographic distribution of epiphytic filamentous red algae (EFAs) affecting <i>Kappaphycus</i> and <i>Eucheuma</i> macroalgae	
1:45pm – 2:00pm	ANAËLLE BIZIEN - Long-term monitoring of intertidal macroalgal communities: ecological quality assessment and trajectory analysis	
2:00pm – 2:15pm	CATIA MONTEIRO - Recent changes in rocky shore biodiversity across the NE Atlantic coast	
2:15pm – 2:30pm	MICKAEL LE GAC - Inferring population genetic structure from meta-transcriptomic samples	
2:30pm – 2:45pm	JOANA PEREIRA - Major contraction at warmer edges of the distribution of the cold-water algae <i>Himanthalia elongata</i> (Linnaeus) S.F. Gray 1821	
2:45pm – 3:00pm	GABRIELA BORER - What is in the turf? A multi-approach biodiversity assessment of turf-forming algae on rocky shores	
Symposium 06 (continued)		Room "Tali moan"
Algal cell biology and ultrastructure		
Convenors: Zoë Popper & Nils Kröger		
1:30pm – 2:00pm	ASSAF GAL - Using cryo electron microscopy to study diatom silicification	
2:00pm – 2:15pm	*ALESSANDRA PETRUCCIANI - Cell wall evolution in diatoms: how are shape, size and silicification involved in frustule adaptive functions?	
2:15pm – 2:30pm	*MARTIM CARDADOR - Morphological and physiological remodelling of <i>Chlamydomonas reinhardtii</i> zygotes during zygospore formation	
2:30pm – 2:45pm	MOHAMED GHOBARA - Light focusing in pennate Diatoms: Can living diatoms see?	
2:45pm – 3:00pm	GLEN WHEELER - Understanding calcium signalling pathways in diatom chloroplasts in response to high light and oxidative stress	
Symposium 10 (continued)		Room "Tali friz"
Ecology of algal systems		
Convenors: Florian Weingerber & Petra Visser		
1:30pm – 2:00pm	MARINE VALLET - Chemical signaling in the algal holobiont	
2:00pm – 2:15pm	LUIS FERREIRA PEREIRA - Geographical variability of physiological responses of <i>Ascophyllum nodosum</i> to realistic simulations of intertidal conditions in a self-contained autonomous system	
2:15pm – 2:30pm	MARK JOHNSON - Peak fucoid canopy photosynthesis in space and time	
2:30pm – 2:45pm	CLEMENCE BOUCHER - <i>Prymnesium parvum</i> , a bloom-forming haptophyte that use toxins to mediate food uptake, especially under P-limitation	
2:45pm – 3:00pm	CLEMENCE BLAIS - Selective feeding of constitutive mixotrophic dinoflagellates in response on different quality prey	
Symposium 08 (continued)		Room "Tali melen"
Algal photosynthesis, carbon fixation and respiration		
Convenors: Concepción Iñiguez Moreno & Giovanni Finazzi co-organised the symposium but cannot attend. keynote speaker Benjamin Bailleul & Thomas Lacour kindly offered to chair the symposium		

1:30pm – 1:45pm	MANA NAKAYASU - The role of Lhcx isoforms in photoprotection mechanism in the diatom, <i>Thalassiosira pseudonana</i>	
1:45pm – 2:00pm	CHIARA GIOSSI - The violaxanthin cycle can provide non-photochemical quenching in <i>Phaeodactylum tricornutum</i>	
2:00pm – 2:15pm	MARTIN LAVIALE - Effect of heat stress on phototrophic biofilm photosynthesis in the context of climate change: a thermal dose approach	
2:15pm – 2:30pm	SILJA FRANKENBACH - Photoinactivation vs repair of photosystem II under thermal stress in epipelagic and epipsammic microphytobenthos communities	
2:30pm – 2:45pm	JEROME MORELLE - Motility of epipelagic diatoms: inter- and intra-specific variability of its photoprotective role under a realistic light microgradient	
2:45pm – 3:00pm	ERIK JENSEN - Using <i>Cyclotella cryptica</i> as a new model to understand the physiological, molecular and genetic regulation of trophic mode switching in facultative heterotrophic diatoms	
3:00pm – 4:25pm	Posters with Coffee (SYM 02, 06, 08, 10)	Arena Hall
4:30pm – 6:00pm	Symposia 02, 06, 10 and 08	
Symposium 02 (continued)		Room "Tali ebrel"
Biodiversity assessment and algal distribution in space and time		
Convenors: Sophie Steinhagen & Uwe John co-organised the symposium but cannot attend. The keynote speakers (Petra Novak & Klara Wolff) kindly offered to chair the symposium		
4:30pm – 4:45pm	YOAV AVRAHAMI - In-depth characterization of diatom community succession over marked seasonal transitions in the subtropical Gulf of Aqaba-Eilat	
4:45pm – 5:00pm	FIDDY SEMBA PRASETIYA - Unveiling the hidden diversity of epiphytic diatoms associated with macroalgae <i>Padina</i> in the Indonesian Waters	
5:00pm – 5:15pm	LUIS BARRETO - Marine heatwave susceptibility at the trailing edge of the foundational kelp, <i>Laminaria hyperborea</i>	
5:15pm – 5:30pm	MAGGIE REDDY - Integrating metabolomics and DNA to uncover patterns of diversity in two sister species of kelp	
5:30pm – 5:45pm	MARINA MONTRESOR - Interannual variability of genetic and demographic structure in blooms of the marine diatom <i>Pseudo-nitzschia multistriata</i>	
5:45pm – 6:00pm	LINDA MEDLIN - Automated environmental sampler and laboratory-on-a-chip to enhance monitoring for toxic algae	
Symposium 06 (continued)		Room "Tali moan"
Algal cell biology and ultrastructure		
Convenors: Zoë Popper & Nils Kröger		
4:30pm – 4:45pm	ELLEN HARRISON - Mixed messages: The influence of nitrate and phosphate limitation on nutrient sensing in model marine diatoms	
4:45pm – 5:00pm	MAXIM BOKOV - Nitrogen fixation in the form of guanine crystals and rearrangements of crystals as an adaptation for various illumination levels of <i>Amphidinium carterae</i>	
5:00pm – 5:15pm	ALESSANDRA ROGATO - Diatoms nitrate transporters as regulators of intracellular nitrogen dynamics in a changing environment	
5:15pm – 5:30pm	JUSTIN LAU - The phase separated CO ₂ -fixing <i>Chlamydomonas</i> pyrenoid proteome determined by TurboID	
5:30pm – 5:45pm	NILS KRÖGER - An intimate view into the silica deposition vesicle of the model diatom <i>Thalassiosira pseudonana</i>	
5:45pm – 6:00pm	PETER KROTH - Aureochromes - Unique photoreceptors in diatoms	
Symposium 10 (continued)		Room "Tali friz"
Ecology of algal systems		
Convenors: Florian Weingerber & Petra Visser		
4:30pm – 4:45pm	OLATZ ARRIAGA - Cornered by turfs: The alarming decline of forest-like macroalgal communities in the south-eastern Bay of Biscay	

4:45pm – 5:00pm	GUILLAUME MANAT - What are you doing here? A surprising beta-porphyrinase activity in a carrageenophyte red alga
5:00pm – 5:15pm	CHARLOTTE NEF - Global survey of vitamin B12-related genes in phytoplankton reveals contrasting metabolic abilities between communities
5:15pm – 5:30pm	LARA PRELLE - Coastal peatland water stimulates growth of Baltic Sea and peatland benthic diatoms
5:30pm – 5:45pm	INKA BARTSCH - Mediterranean deep water kelp <i>Laminaria rodriguezii</i> is living at optimum temperatures for growth but at the edge of light
5:45pm – 6:00pm	MYRIAM VALERO - Sexual selection in seaweed ? The case of the red alga <i>Gracilaria gracilis</i>

Symposium 08 (continued)

Room "Tali melen"

Algal photosynthesis, carbon fixation and respiration

Convenors: Concepción Iñiguez Moreno & Giovanni Finazzi co-organised the symposium but cannot attend. keynote speaker Benjamin Bailleul & Thomas Lacour kindly offered to chair the symposium

4:30pm – 4:45pm	*LINDA REHDER - Abrupt and acclimation responses to changing temperature elicit divergent physiological effects in the diatom <i>Phaeodactylum tricornutum</i>
4:45pm – 5:00pm	*ANXHELA HANIA - A multi-level approach to investigate the dynamics and spatial heterogeneity of N₂ fixation and photosynthesis in <i>Trichodesmium</i>
5:00pm – 5:15pm	*DANY CROTEAU - Titrating nonphotochemical quenching to develop a comprehensive model of photosynthesis regulation in the diatom <i>Phaeodactylum tricornutum</i>
5:15pm – 5:30pm	ONYOU NAM - Identifying the proteins underpinning the diatom pyrenoid
5:30pm – 5:45pm	GRAHAM UNDERWOOD - The influence of light spectra, intensity and photosynthesis on the motility behaviour and photoacclimation of two species of benthic diatoms
5:45pm – 6:00pm	THOMAS LACOUR - Dynamic and sustained non-photochemical quenching under light/dark illumination and nutrient starvation in phytoplankton in culture and in natural communities

6:00pm – 7:30pm

Silent Auctions

Room "Pioka"

**organized by the French Phycological Society (SPF)
with Food and Drink**

Wednesday 23rd August

8:00am – 5:00pm	Excursions	
9:00am – 1:00pm	Workshops	Faculty of Letters - UBO
9:00am – 1:00pm	Workshop 1	Room A219
Research on microphytobenthos: present advances and future challenges		
Organisers: Johann Lavaud, Vona Méléder, Joao Serodio, Koen Sabbe & Graham Underwood		
GRAHAM UNDERWOOD - Biofilms from the bottom up, how species attributes influence microphytobenthic ecosystem functioning		
DAVID PATERSON - Microphytobenthos response to multiple stressors		
CAROLINE DOOSE - Oxylipines synthesis in microphytobenthos		
ANNA ISAIA - Photophysiology of a subtidal epipellic diatom in the Bay of Brest		
DORIAN BAS - Multi-scale temporal variability in MPB biomass and production in diatom- and euglenophyte dominated estuarine biofilms		
JEROME MORELLE - Motility and photosynthetic performance of epipellic diatoms in light microgradients		

<p>MARTIN LAVIALE - Effect of heat stress on phototrophic biofilm photosynthesis in the context of climate change: a thermal dose approach</p> <p>Blitz Talk - MENG ZHANG - Mapping intertidal mudflat primary production by coupling hyperspectral remote sensing and CO₂ fluxes: from meso- to macroscale</p> <p>Blitz Talk - LOURENCO RIBEIRO - Using niche analysis as a steppingstone towards a new diatom-based biotic index in transitional waters</p> <p>1h Discussion</p>		
9:00am – 1:00pm	<p>Workshop 2</p> <p>Getting together to fight the new invasive alien seaweed:</p> <p><i>Rugulopteryx okamurae</i> (Dictyotales, Ochrophyta)</p> <p>Organiser: Maria Altamirano</p> <p>MARÍA ALTAMIRANO - <i>Rugulopteryx okamurae</i> (Dictyotales, Ochrophyta): the first invasive alien seaweed of Union concern and what we know about it in Spain</p> <p>FATIMA EL AAMRI - Current status of the invasive brown alga <i>Rugulopteryx okamurae</i> on the Moroccan coast</p> <p>JOÃO FARIA - Following the invader <i>Rugulopteryx okamurae</i> in Azores (NE Atlantic): challenges and perspectives</p> <p>MARIE BORRIGLIONE - Dynamic and impact of <i>Rugulopetryx okamurae</i> along the Mediterranean French coast</p> <p>SABIN LIULEA - Spread of the invasive brown alga <i>Rugulopteryx okamurae</i> in Portugal (NE Atlantic)</p> <p>ALEJANDRO BERNAL-IBÁÑEZ - Integrative approach assessing <i>Rugulopteryx okamurae</i> invasion at Madeira</p> <p>RICARDO HAROUN - Arrival and early spread of <i>Rugulopteryx okamurae</i> in the Canary Islands</p> <p>2h Round Table</p>	Room A214
9:00am – 1:00pm	<p>Workshop 3</p> <p>Addressing fundamental gaps in seaweed taxonomic knowledge</p> <p>Global Seaweed Biodiversity Group</p> <p>Organisers: Juliet Brodie & Rob Mrowicki</p>	Room A221
9:00am – 1:00pm	<p>Workshop 4</p> <p>The 100 Diatom Genomes project</p> <p>Organiser: Thomas Mock</p>	Room A220
9:00am – 1:00pm	<p>Workshop 5</p> <p>Exchange around drifting <i>Sargassum</i> species: fundamental and applied research</p> <p>Organiser: Valérie Stiger-Pouvreau</p>	Room A223

Thursday 24th August

8:00am – 10:00am	Registration	Arena Hall
9:00am – 10:00am	<p>Plenary Lecture</p> <p>ANGELA FALCIATORE</p> <p>Light in the life of marine diatoms</p>	Room "Tali ebrel"
10:00am – 11:00am	Symposia 03, 04, 09 and 16	
	<p>Symposium 03</p> <p>Phylogenetics, Phylogenomics and Evolution</p> <p>Convenors: Yvonne Nĕmcová & Olivier de Cleck</p>	Room "Tali ebrel"
10:00am – 10:30am	BOJIAN ZHONG - Phylotranscriptomics unveil a Paleoproterozoic-Mesoproterozoic origin and deep relationships of the Viridiplantae	
10:30am – 10:45am	*CAMILLE PUGINIER - Phylogenomics reveals the evolutionary origin of lichenization in chlorophyte algae	
10:45am – 11:00am	ROSA CELIA POQUITA-DU - Genome-wide comparisons reveal extensive divergence within the common lichen photobiont genus, <i>Trebouxia</i>	

Symposium 04		Room "Tali moan"
Algae and their intimate partners		
Convenors: Johan Decelle & Aschwin H. Engelen		
10:00am – 10:30am	SHADY AMIN - Vitamin B6 derivatives mediate symbiotic exchanges between microalgae and bacteria	
10:30am – 10:45am	MATTHIEU GARNIER - To what extent and how does the phytoplankton choose their bacterial partners. A reductionist approach used in toxic microalgae	
10:45am – 11:00am	FLORA VINCENT - Viral impacts across biological scales: from single-cells to planktonic ecosystems	
Symposium 09		Room "Tali friz"
The global carbon-cycle		
Convenors: Karen Filbee-Dexter & Sebastian Rokitta		
10:00am – 10:30am	KAREN FILBEE-DEXTER - Carbon export from seaweed forests to deep ocean sinks	
10:30am – 10:45am	MARC LONG - Investigating the effects of allelopathy on organic matter sink during microalgal blooms	
10:45am – 11:00am	ANTONIJA MATEK - Modelling primary production at Lastovo Island (South Adriatic Sea)	
Symposium 16		Room "Tali melen"
Advances in algal production processes		
Convenors: Maria do Rosario Domingues & Joanna Kargul		
10:00am – 10:30am	HUGO PEREIRA - Improving the sustainability of algae production in commercial-scale facilities	
10:30am – 10:45am	ZOFIA NEHR - Strain selection in <i>Ulva</i> spp. for land-based aquaculture	
10:45am – 11:00am	CLEMENT GAUCI - Priming as a kelp crop-enhancement strategy for seaweed cultivation under environmental challenges	
11:00am – 11:25am	Coffee Break	Arena Hall + Room "Pioka"
11:30am – 12:30am	Symposia 03, 05, 09 and 16	
Symposium 03 (continued)		Room "Tali ebrel"
Phylogenetics, Phylogenomics and Evolution		
Convenors: Yvonne Němcová & Olivier de Cleck		
11:30am – 11:45am	HEROEN VERBRUGGEN - The chloroplast genome of early diverging Cladophorales represents the missing link to hairpin chromosomes	
11:45am – 12:00am	ALEXANDER BOWLES - Algal metagenomics provides insights into land plant terrestrialisation	
12:00am – 12:15am	EL MAHDI BENDIF - Cryptic diversification in a widespread phytoplankton at low latitudes	
12:15am – 12:30am	HELENA CRUZ DE CARVALHO - Shedding light on the noncoding transcriptome of the ocean plankton	
Symposium 05		Room "Tali moan"
New insights into the mechanisms and regulation of life cycles in algae		
Convenors: Marielle Ferrante & Agnieszka Lipinska		
11:30am – 12:00am	GUST BILCKE - Multi-species comparative -omics reveals marker genes for the diatom life cycle	
12:00am – 12:15am	FRANCISCO J. ROMERO-CAMPERO - Multiomics responses to seasonal variations in diurnal cycles in the marine picoeukaryote <i>Ostreococcus tauri</i>	
12:15am – 12:30am	SAMUEL BOSCH - Role of the maternal tissue in the establishment of polarity axes in the early embryo of the brown alga <i>Saccharina latissima</i>	
Symposium 09 (continued)		Room "Tali friz"
The global carbon-cycle		
Convenors: Karen Filbee-Dexter & Sebastian Rokitta		

11:30am – 12:00am	MAR FERNANDEZ MENDEZ - The role of holopelagic <i>Sargassum</i> in the marine carbon cycle and its potential for carbon dioxide removal
12:00am – 12:15am	*INGA HELIGE - Brown algal fucoidan secretion and stability around the globe
12:15am – 12:30am	MENG ZHANG - Mapping intertidal mudflat primary production by coupling hyperspectral remote sensing and CO ₂ fluxes: from meso- to macroscale
Symposium 16 (continued) Room "Tali melen"	
Advances in algal production processes	
Convenors: Maria do Rosario Domingues & Joanna Kargul	
11:30am – 12:00am	YAGUT ALLAHVERDIYEVA-RINNE - Green chemistry through photosynthetic microbial biocatalysts
12:00am – 12:15am	SVETLANA VASILIEVA - Bio-inspired materials for increasing the polyunsaturated fatty acids productivity of microalgae: <i>Lobosphaera</i> immobilized on polyethylenimine and chitosan-based carriers
12:15am – 12:30am	ASWIN SASI - Effect of an optical lightguide on growth of <i>Arthrospira platensis</i>
12:30am – 1:25pm	Lunch Room "Pioka"
1:30pm – 3:00pm	Symposia 03, 05, 20 and 14
Symposium 03 (continued) Room "Tali ebrel"	
Phylogenetics, Phylogenomics and Evolution	
Convenors: Yvonne Nĕmcová & Olivier de Cleck	
1:30pm – 2:00pm	MAREK ELIAS - Towards a comprehensive phylogeny and classification of the Ochrophyta
2:00pm – 2:15pm	OZAN CIFTCI - Phylotranscriptomics reveals the reticulate evolutionary history of a widespread diatom species complex
2:15pm – 2:30pm	ANANYA KHATEI - Presence and evolution of DNA methyltransferases and associated domains in brown algal genomes
2:30pm – 2:45pm	RICHARD DORRELL - Fucoxanthin-containing dinoflagellates: An open experiment in plastid proteome evolution
2:45pm – 3:00pm	MARIE-LAURE GUILLEMIN - Sequencing of seaweeds ancient DNA from Monte Verde, one of the oldest archeological sites from South America
Symposium 05 (continued) Room "Tali moan"	
New insights into the mechanisms and regulation of life cycles in algae	
Convenors: Marielle Ferrante & Agnieszka Lipinska	
1:30pm – 2:00pm	KENNY BOGAERT - Zygote (a)symmetric cell division in <i>Dictyota</i> : a developmental hinge point
2:00pm – 2:15pm	*LAURIE BOUSQUET - Transcriptome differentiation between life phases of the bloom forming marine phytoplankton specie <i>Emiliania huxleyi</i>
2:15pm – 2:30pm	*PELAGIE RATCHINSKI - Developmental and evolutionary surveys of gene expression during brown algal life cycles
2:30pm – 2:45pm	DANIEL LIESNER - Unveiling mechanisms of sexual differentiation using feminized males of the giant kelp <i>Macrocystis pyrifera</i>
2:45pm – 3:00pm	LÉA PRIGENT - Sexual reproduction, a major event determining the dynamics of gene expression during a <i>P. australis</i> bloom?
Symposium 20 Room "Tali friz"	
Coastal and freshwater systems under human pressure: status assessment, management and conservation	
Convenors: Due to the passing away of our colleague Erwan Ar Gall, keynote speaker Elvira Ramos kindly offered to prepare and chair the symposium with Sotiris Orfanidis	
1:30pm – 2:00pm	MATINA KATSIAP - Assessing ecological water quality of Mediterranean lakes/reservoirs using phytoplankton indices
2:00pm – 2:15pm	PATRICIJA MOZETIC - How the ongoing oligotrophication of the northern Adriatic affects phytoplankton community structure and functioning

2:15pm – 2:30pm	GIULIA CHELONI - Organic contaminants fate in aquatic ecosystems, which role for microalgae?
2:30pm – 2:45pm	LOURENÇO RIBEIRO - Using niche analysis as a steppingstone towards a new diatom-based biotic index in transitional waters
2:45pm – 3:00pm	MARTIN PLUS - Biogeochemical modelling of eutrophication in coastal waters. An ensemble model approach for the calculation of threshold levels

Symposium 14

Room "Tali melen"

Algal culture collections: their increasing societal relevance and role as gene repositories

Convenors: Filip Pniewski & Peter Chaerle

1:30pm – 2:00pm	ANNICK WILMOTTE - Microalgal culture collections : their roles and challenges in the 21 th century
2:00pm – 2:15pm	JOSEPH KIHKA - Cryopreservation of diverse Symbiodiniaceae species: fatty acid profiles, growth rates and photosynthetic performance
2:15pm – 2:30pm	MAIKE LORENZ - Algal culture collections in a changing world
2:30pm – 3:00pm	DANIEL VAULOT -

3:00pm – 4:25pm	Posters with Coffee	Arena Hall
	(SYM 03, 07, 09, 12, 14, 16, 17, 18+19, 20)	
4:30pm – 5:30pm	Symposia 03, 05, 20 and 08	

Symposium 03 (continued)

Room "Tali ebrel"

Phylogenetics, Phylogenomics and Evolution

Convenors: Yvonne Němcová & Olivier de Cleck

4:30pm – 4:45pm	AURELIEN BAUD - Uncovering local adaptation to temperature process in the red seaweed <i>Palmaria palmata</i> intertidal populations
4:45pm – 5:00pm	SIGNE BRÅTELUND - Fine-scale genetic structure of sugar kelp populations at short geographical distance
5:00pm – 5:15pm	GARETH PEARSON - Genus-wide transcriptional responses to short-term warming in eastern Atlantic <i>Laminarias</i> (Phaeophyceae, Laminariales): a triumph of phylogeny over phenotype?
5:15pm – 5:30pm	AGNIESZKA LIPINSKA - Scarlet tide - the first report of sex chromosomes in red algae

Symposium 05 (continued)

Room "Tali moan"

New insights into the mechanisms and regulation of life cycles in algae

Convenors: Marielle Ferrante & Agnieszka Lipinska

4:30pm – 4:45pm	DARJA BELISOVA - Transcriptional regulation of sexual maturation in <i>Cylindrotheca closterium</i>
4:45pm – 5:00pm	EUNYOUNG SHIM - Ca ²⁺ signaling during fertilization in the red alga <i>Bostrychia moritziana</i> : the role of calcium-dependent kinases in ROS signaling
5:00pm – 5:15pm	MARIELLA FERRANTE - Genetic and epigenetic controls governing life cycle transitions in the planktonic diatom <i>Pseudo-nitzschia multistriata</i>
5:15pm – 5:30pm	STACY KRUEGER-HADFIELD - Isomorphic may not be so isomorphic after all

Symposium 20 (continued)

Room "Tali friz"

Coastal and freshwater systems under human pressure: status assessment, management and conservation

Convenors: Due to the passing away of our colleague Erwan Ar Gall, keynote speaker Elvira Ramos kindly offered to prepare and chair the symposium with Sotiris Orfanidis

4:30pm – 5:00pm	ELVIRA RAMOS - Macroalgal monitoring challenges under the climate-driven community changes
5:00pm – 5:15pm	ANNETTE BRUHN - Cultivating sugar kelp as an instrument for mitigating eutrophication
5:15pm – 5:30pm	SOTIRIS ORFANIDIS - Photosynthetic and growth responses of <i>Ulva lacunculata</i> to survive the fluctuating conditions in eutrophic Thessaloniki Bay, Greece

Symposium 08 (continued)		Room "Tali melen"
Algal photosynthesis, carbon fixation and respiration		
Convenors: Concepción Iñiguez Moreno & Giovanni Finazzi co-organised the symposium but cannot attend. keynote speaker Benjamin Bailleul & Thomas Lacour kindly offered to chair the symposium		
4:30pm – 5:00pm	BENJAMIN BAILLEUL - Measurements of photosynthetic activity in algal mixtures reveal biotic interactions between diatoms and dinoflagellates	
5:00pm – 5:15pm	JHOANEL ANGULO - Comparative analysis of photosynthetic adaptive strategies to Fe limitation in the marine diatoms <i>Thalassiosira pseudonana</i> and <i>Thalassiosira oceanica</i>	
5:15pm – 5:30pm	PASCAL CLAQUIN - Five years of high frequency FRRF measurements from the SMILE buoy - Estimation of primary production from hour to year	
7:00pm – 11:00pm	Congress Diner	Les Capucins

Friday 25th August

9:00am – 10:00am	Plenary Lecture THOMAS WERNBERG Kelp forests in the Anthropocene	Room "Tali ebrel"
10:00am – 11:00am	Symposia 17, 07, 12 and 18+19	
Symposium 17		Room "Tali ebrel"
Public-Private partnerships in algal research Convenors: Stefan Kraan & Annette Bruhn		
10:00am – 10:30am	ESBEN CHRISTIANSEN - 3 phases towards an industrial land-based seaweed cultivation	
10:30am – 10:45am	ALEXANDER JUETERBOCK - Roadmap towards sustainable growth of the European seaweed industry	
10:45am – 11:00am	ROY DURLAVE - Studies on the use of locally available (Coxs Bazar and Saint Martin) alternative renewable seaweed wastes as compost organic fertilizer resources	
Symposium 07		Room "Tali moan"
Genomics technologies in algae Convenors: Maria Mittag & Claire Gachon		
10:00am – 10:30am	THOMAS MOCK - Genomics and reverse genetics in diatoms	
10:30am – 10:45am	SERENA ROSIGNOLI - The genome of <i>Palmaria palmata</i> : a tool to advance seaweed strain selection and unveil intraspecific variability across Northern Europe	
10:45am – 11:00am	ANNE M. L. NILSEN - Chloroplast DNA methylation in the kelp <i>Saccharina latissima</i> is determined by origin and influenced by cultivation	
Symposium 12		Room "Tali friz"
Polar algae in a changing environment Convenors: Linda Nedbalová & Johann Lavaud		
10:00am – 10:30am	CHRIS WILLIAMSON - Biosphere - Cryosphere interactions during periods of rapid environmental change	
10:30am – 10:45am	*CLARENCE WEI HUNG SIM - Under-ice bloom: temporal dynamics and biogeography of Arctic sympagic algae and phytoplankton	
10:45am – 11:00am	*HELEN FEORD - Single-cell elemental profiling of polar snow algae to investigate cellular responses to low nutrient availability in the cryosphere	

Symposium 18 + 19		Room "Tali melen"
Algae and the general public		
Convenors: Nils Ekelund & Johanna Weggelar		
Algae, education and career pathways		
Convenors: Cecilia Maria Totti & Conxi Rodríguez-Prieto		
10:00am – 10:30am	MORGAN VIS - Mentoring undergraduate and graduate students for careers inside and outside academia	
10:30am – 10:45am	VICKY DOMINGUEZ ALMELA - Developing citizen science monitoring capacity for adaptation to brown seaweed influxes	
10:45am – 11:00am	JOSE LUCAS PEREZ-LLORENS - Phycophagy and the rise of the phycogastronomy in Europe	
11:00am – 11:25am	Coffee Break	Arena Hall + Room "Pioka"
11:30am – 12:30am	Symposia 17, 07, 12 and 18+19	
Symposium 17 (continued)		Room "Tali ebrel"
Public-Private partnerships in algal research		
Convenors: Stefan Kraan & Annette Bruhn		
11:30am – 12:00am	MONIQUE MULDER - Discovery of the potential of brown seaweed lipid extracts against Alzheimer's disease in a public-private partnership	
12:00am – 12:15am	AMANDYNE LINARES-MAURIZI - Valorization of marine oxylipins; a story of private-public partnership	
12:15am – 12:30am	ANNETTE BRUHN - Algaecenter Denmark – from research to industry	
Symposium 07 (continued)		Room "Tali moan"
Genomics technologies in algae		
Convenors: Maria Mittag & Claire Gachon		
11:30am – 12:00am	SIGRID NEUHAUSER - Phytomyxea use conserved host physiological properties to induce a sink and to avoid host defence	
12:00am – 12:15am	RISHIRAM RAMANAN - Carbon-neutral, eco-friendly polymer from microalgae and cyanobacteria	
12:15am – 12:30am	CAROLE DUCHÊNE - Diatom phytochromes: solving the riddle of a red-light sensor in the red-poor marine environment	
Symposium 12 (continued)		Room "Tali friz"
Polar algae in a changing environment		
Convenors: Linda Nedbalová & Johann Lavaud		
11:30am – 11:45am	*NORA DIEHL - Heading northwards? <i>Laminaria hyperborea</i> in the Arctic - past, present and future	
11:45am – 12:00am	RAQUEL CARMONA - Seasonal changes in photosynthesis and biochemical composition in Arctic macroalgae undergoing a climatic transition	
12:00am – 12:15am	PAMELA FERNÁNDEZ - Inorganic carbon uptake strategies in Antarctic seaweeds: implications for seaweed resilience to ocean acidification	
12:15am – 12:30am	LUISA DÜSEDAU - Influence of recent warming on kelp forest structure in Kongsfjorden (western Svalbard) over time	
Symposium 18 + 19 (continued)		Room "Tali melen"
Algae and the general public		
Convenors: Nils Ekelund & Johanna Weggelar		
Algae, education and career pathways		
Convenors: Cecilia Maria Totti & Conxi Rodríguez-Prieto		
11:30am – 12:00am	ALIX LEVAIN - When Algae go public: revenge of the margins?	
12:00am – 12:30am	FREDRIK GRÖNDAHL - The importance with outreach in order to promote interest and use of seaweeds in a Swedish and European context	
12:30am – 1:25pm	Lunch	Room "Pioka"
1:30pm – 2:30pm	Symposia 02, 12, 18+19 and a Special Session	

Symposium 02 (continued)		Room "Tali ebrél"
Biodiversity assessment and algal distribution in space and time		
Convenors: Sophie Steinhagen & Uwe John co-organised the symposium but cannot attend. The keynote speakers (Petra Novak & Klara Wolff) kindly offered to chair the symposium		
1:30pm – 2:00pm	PETRA NOWAK - Environmental DNA-based assessment of Charophyte biodiversity: Progress and remaining challenges	
2:00pm – 2:15pm	FABIO RINDI - Coralline red algae of Antarctica and Subantarctic regions: state of knowledge of a threatened, yet poorly known, group of ecosystem engineers	
2:15pm – 2:30pm	JOANNA WILBRAHAM - A red list for British seaweeds	
1:30pm – 2:30pm	Special Session	Room "Tali moan"
Publishing phycological papers in a rapidly changing environment		
Convenors: Juliet Brodie & Christine Maggs		
Symposium 12 (continued)		Room "Tali friz"
Polar algae in a changing environment		
Convenors: Linda Nedbalová & Johann Lavaud		
1:30pm – 2:00pm	MARINA CVETKOVSKA - Distant, yet the same: How do Arctic and Antarctic green algae cope with multiple stressors?	
2:00pm – 2:15pm	SEBASTIAN ROKITTA - Arctic <i>Phaeocystis pouchetii</i> benefits stronger from warming than from changes in light intensity or pCO ₂	
2:15pm – 2:30pm	SEBASTIEN GUERIN - Challenged growth and performance across changing Arctic seasonal photoperiods in the polar diatom <i>Fragilariopsis cylindrus</i>	
Symposium 18 + 19 (continued)		Room "Tali melen"
Algae and the general public		
Convenors: Nils Ekelund & Johanna Weggeler		
Algae, education and career pathways		
Convenors: Cecilia Maria Totti & Conxi Rodríguez-Prieto		
1:30pm – 1:45pm	ALESSANDRA NORICI - One-on-one and small group mentoring in phycology	
1:45pm – 2:00pm	STEFAN KRAAN - Seaweed hype, social media education to sway the opinion of the general public	
2:00pm – 2:30pm	SUZANNE FREDERICQ - What can the Gulf of Mexico and Panama tell us about education and outreach?	
2:30pm – 2:55pm	Coffee break	Arena Hall + Room "Pioka"
3:00pm – 4:00pm	Feed-back: addressing topics for the future	Room "Tali ebrél"
4:00pm – 5:00pm	Closing Ceremony + Prices	Room "Tali ebrél"

Posters

All posters will be displayed throughout the Congress in the Hall of Brest Arena. Presenters should be standing beside their posters on the day and time indicated for the Poster session. A code for poster installation is indicated (PO...).

Monday 21st August – 3:00pm to 4:25pm

SYMPOSIUM 01 “TAXONOMY AND SYSTEMATICS”

PO1_A - ANA BARICEVIC - Brijuni National Park (Adriatic Sea, Croatia) phytoplankton biodiversity assessment

PO2_A - SÉBASTIEN COLIN - Which microscope to take for field work

PO3_A - JOANNA CZERWIK-MARCINKOWSKA - *Ulva pilifera* (Ulvales, Chlorophyta) from Montenegro – application of X-ray fluorescence techniques in determining the habitat preferences

PO4_A - ANNA FRICKE - A study on the variation of nutritional profiles of seaweeds along the Senegalese coast

PO5_A - BRIGITTE GAVIO - *Dictyota psychedelica* sp. nov., a new prostrate member of the genus in the Caribbean Sea

PO6_A - SVENJA HEESCH - Cryptic diversity in the Prasiolaceae (Prasiolales, Trebouxiophyceae, Chlorophyta)

PO7_A - MATHIEU HÉLIAS - Diversity of the freshwater macroalgae from Guadeloupe, French Lesser Antilles

PO8_A - JINSOON PARK - A study of marine benthic diatoms from Ulleungdo and Dokdo, Korea

PO9_A - VIVIANA PEÑA - Coralline algae (Rhodophyta, Corallinales) early colonizers of the littoral lava flows of the recent volcanic eruption of La Palma (Canary Islands)

PO10_A - CONXI RODRÍGUEZ-PRIETO - Revisiting the systematics of the *Grateloupia*-complex (Halymeniales, Rhodophyta) based on cystocarp development and molecular phylogeny

PO11_A - FLORENCE ROUSSEAU - Contribution to the taxonomy of *Sargassum* with specimens from French West Indies and south of the Madagascar coasts

PO12_A - SVATOPLUK SKOUPÝ - The application of population genomics in the taxonomy of cyanobacteria

PO13_A - JOANNA WILBRAHAM - A genomic approach towards resolving the taxonomy and phylogenetic relationships of historic stonewort (Charophyta) collections

PO14_A - JOANNA WILBRAHAM - Diversity and distribution of desmids in Britain and Ireland

PO15_A - GABRIELLE ZAMMIT - DNA barcoding and chemical analysis of algae from Malta in the central Mediterranean

SYMPOSIUM 04 “ALGAE AND THEIR INTIMATE PARTNERS”

PO16_A - LEONARDO BRUNI - Searching *Phaeobacter* spp. in *Ulva* spp. microbiota: a metadataanalysis

PO17_A - ANNE-SOPHIE BURLOT - Quantitative study of the microbial communities living on the surface of the green seaweed *Ulva* sp.

PO18_A - GONZALO DEL OLMO - Does light affect the presence of *Phaeobacter* in the *Ulva ohnoi* holobiont by modifying bacterial communities?

PO19_A - GAUTIER DEMOULINGER - Chemical exploration of the *Ascophyllum nodosum* holobiont

PO20_A - ASCHWIN H. ENGELEN - The bacteriome of *Porphyra umbilicalis* in the North-Atlantic across time and space

PO21_A - PAUL ESTOUP - Investigating bacterial diversity of the ulva holobiont in industrial cultures

PO22_A - ELIZABETH FICKO-BLEAN - Marine microbial protein-carbohydrate interactions with red algal molecules

PO23_A - ERIC FOUILLAND - Role of bacteria in the allelopathic ability of an autotrophic biofilm

PO24_A - RKIA LBOUHMADE - Production of fatty acids rich in DHA and EPA from microalgae to enrich infant growth milk

PO25_A - PEDRO MURÚA - Toward an Antarctic phycopathology: description of natural pathosystems associated to the green alga *Urospora penicilliformis*

PO26_A - LAURA PAGEAULT - Characterization of Cell Cycle Events Affected by Light dose in the microalgae *Tisochrysis lutea*

PO27_A - HANA PARK - ROS is important in the life cycle and during infection of *Pythium porphyrae*, the causative agent of red rot disease

PO28_A - SAUVANN PAULINO - Interactions between *Ulva* sp. and its cultivable epiphytic bacteria

PO29_A - JOSÉ PINTADO - Shedding light on the *Ulva* holobiont: the role of light in interactions with *Phaeobacter* bacteria

PO30_A - FANÇOIS THOMAS - Seasonal dynamics of macroalgae-associated bacterial communities

PO31_A - LUNA M. VAN DER LOOS, - Highly divergent Picorna- and CRESS-like viruses associated with bleached thalli of the green seaweed *Ulva*

PO32_A - XIANYING WEN - Immune resistance in the red alga *Dasysiphonia japonica* against the oomycete pathogen *Olpidiopsis heterosiphoniae*

SYMPOSIUM 11 “CHANGING DISTRIBUTION PATTERNS AND NEW ECOSYSTEMS”

PO33_A - ANA CAR - Development of benthic diatoms on natural and artificial substrates in marine lake (South Adriatic Sea)

PO34_A - SUSANA COELHO - Repeated evolution of asexuality in the brown alga *Scytosiphon*

PO35_A - IRIS DUPCIC RADIC - Influence of physico-chemical parameters on colonization of bacteria and diatoms in a marine lake in southern Adriatic (NE Mediterranean)

PO36_A - SOFIA HERNANDEZ-CHAN - Predicting thermal tolerance limits of marine forests' seaweed species under a changing climate

PO37_A - RAJAA KHOLSSI - Evaluation of short-term copper toxicity in *Synechococcus* sp, *Chaetoceros gracilis* and *Pleurochrisys roscoffensis* under changes of temperature and salinity

PO38_A - MARIA JOSE LAGUNES - Assumptions and model structure for the growth and survival of the holopelagic brown macroalga *Sargassum* spp. based on DEB (Dynamic Energy Budget) theory

PO39_A - MARINE LASBLEIZ - Characterisation of opportunistic bloom-forming macroalgae other than *Ulva* sp. in green tide bays of Brittany

PO40_A - DETLEV LOHSE - High Frequency Monitoring of Phytoplankton Distribution with Special Reference to Cyanobacteria in a Freshwater Lake

PO41_A - LJILJANA IVESA - Adaptation to temperature extremes could improve marine forest restoration success. A case study for a unique, isolated *Gongolaria barbata* population in the northern Adriatic Sea

PO42_A - FLORIAN WEINBERGER - Non-native hosts of an invasive seaweed holobiont have more stable microbial communities compared to native hosts in response to thermal stress

PO43_A - MAYALEN ZUBIA - Harvesting *Turbinaria ornata* for coral reef restoration actions in French Polynesia

SYMPOSIUM 13 “Taxonomy and Systematics”

PO44_A - MARIA L. PARAGES - *De novo* transcriptome characterization of *Ulva lacinulata* under *in situ* emersion/immersion cyclic conditions

SYMPOSIUM 15 “Algae as producers of valuable compounds”

PO45_A - BERK AKSOY - Protein potential of a Portuguese *Spirulina* strain

PO46_A - MARIANA ASSUNÇÃO - Unlocking a nature treasure-chest : the lipid profile of Eustigmatophyceae

PO47_A - TERESA AYMERICH - High hydrostatic pressure assisted antimicrobial extraction from fucoid *Ericaria selaginoides*

PO48_A - ESTHER BERRENDERO GOMEZ - Screening of cyanobacteria for their ability to produce bioproducts

PO49_A - ADRIANA BLASZCZYK - Diatom frustules – tools for vitamin encapsulation and release

PO50_A - MANON CHOULOT - A sustainable approach for the seaweed use in agriculture

PO51_A - SOLENE CONNAN - Mycosporine-like amino-acids from macroalgae and cyanobacteria sampled in French Polynesia

PO52_A - PRISCILA CORREA - Experimental design to optimize Bold's Basal Medium to increase biomass and pigments production in three microalgae species

PO53_A - KAREL DAVALLE-CORRE - The brown macro-alga *Bifurcaria bifurcata*: an opportunity for the control of the parasitic nematode *Heligmosomoides polygyrus bakeri* in animal production

PO54_A - NADEESHANI DEHEL GAMAGE - Novel 'Biofilm PSBR' (Porous substrate photobioreactor) for benthic diatom cultivation

PO55_A - WENDY DELPONT - Seaweed-derived carbohydrates as a barley bio elicitor against infection with the fungus *Ramularia collo-cygni*

PO56_A - JOANNE FIELD - Algal inks, the future sustainable alternative for labelling

PO57_A - CAMBERRA GAUYAT - Biochemical comparison between two populations of *Sargassum muticum*, introduced in the Pacific coast of Mexico and Atlantic coast of Brittany (France)

PO58_A - PAULINE HAMON-GIRAUD - Reconstruction and enrichment of the genome-scale metabolic network of the Fucale *Ascophyllum nodosum* and its microbiota with bioinformatics methods

PO59_A - DAVID M. HARTNELL - Microalgal Ecotoxicological Testing: A Lipidomic Approach

PO60_A - ANNA ÞORA HROLFSÐÓTTIR - Physicochemical- and bioactive properties of acid preserved *Alaria esculenta* and *Saccharina latissima* during storage

PO61_A - HSU YEE HTET- The impact of enhancing tolerance to Rose Bengal on growth, photosynthesis and lipid metabolism in *Nannochloropsis oceanica* under suboptimal conditions

PO62_A - ANNA ISAIA - Physiological responses of a tropical microalgae, *Tetraselmis sp.*, to UV-A stress in continuous culture: biomass, antioxidant activity, and photosynthetic efficiency

PO63_A - CHUNZHI JIN - Bioactivity screening of indigenous microalgae from freshwater for cosmeceutical application

PO64_A - SAMY KEMEL - Hydrocarbon continuous production and non-destructive extraction from the microalga *Botryococcus braunii*

PO65_A - NOLWENN KERGOSIEN - Differential growth of gut, skin and soil bacteria induced by compounds isolated from brown macroalgal species collected on Atlantic coasts, with potential application for industry

PO66_A - HEE-SIK KIM - Microalgae-Based Integrated Biorefinery for Simultaneous Production of Commercially Valuable Carotenoids and Plastic Composites

PO67_A - SANG MIN KIM - The effect of different light intensities and nitrogen concentrations on the interdependence of fucoxanthin, chlorophyll *a/c*-binding protein and fucoxanthin biosynthesis in *Phaeodactylum tricornutum*

PO68_A - FANNY LALEGERIE - BlueBio MINERVA: Exploring the potential of Irish macroalgae for sustainable valorisation with focus on *A. nodosum* and *S. latissima*

PO69_A - FANNY LALEGERIE - BlueBio MINERVA: Unlocking the potential of macroalgae for a sustainable valorisation in BlueBioeconomy, using new processes and a biorefinery approach

PO70_A - FLORA LAM KIM - Spatial variability of phlorotannins extracted from *Hormosira banksii* along a longitudinal gradient in Victoria (Australia)

PO71_A - HYUNG-GWAN LEE - Enhancement of carotenogenesis and neutral lipid production by heterologous overexpression of orange protein in *Chlamydomonas*

PO72_A - MATHILDE LESGOURGUES - Characterization of bioactive oligosaccharides isolated from the red algae *Solieria chordalis*

PO73_A - SHOWE-MEI LIN - Sporelings and growth of the marine red alga, *Gelidium elegans* (Rhodophyta), from Northeast Taiwan

PO74_A - DAVID MORGADO - Real time, non-invasive monitoring of microalgae biofilm-based cultivation systems using reflectance spectroscopy

PO75_A - MOUSTAPHA NOUR IBRAHIM - Potential of Djiboutian abundant macroalgae as food and feed ingredients

PO76_A - NUNO NUNES - Assessment of the biochemical parameters of *Arthrospira platensis* cultivated semi-continuously using three nutrient replenishment media for industrial production

PO77_A - FEDERICO ORTENZI - Microalgal-based systems for sustainable wastewater upcycling, bioprocess optimization by mechanical stress

PO78_A - SEMA SIRIN - Multipurpose use of microalgae for sustainable agriculture as bioremediator of hydroponic greenhouse effluent and bioagrichemicals

PO79_A - SOFIA TRETIK - Optimized extraction and separation processes for seaweed-derived polysaccharides and polyphenols for industrial applications

PO80_A - ASHER WISHKERMAN - Microalgae cultivation system based on additive manufacturing technology

PO81_A - YIRU ZHAO - Assessment of methane and hydrogen production from the brown seaweed *Sargassum*

Tuesday 22nd August – 3:00pm to 4:25pm

SYMPOSIUM 02 “Biodiversity assessment and algal distribution in space and time”

PO1_B - ALGAE TRAITS EDITORS - AlgaeTraits.org: a trait database for seaweed species

PO2_B - JASNA ARAPOV - The occurrence of new *Pseudo-nitzschia* species: *P. brasiliensis*, *P. hasleana* and *P. lineata* in the Adriatic Sea

PO3_B - BETH BEAR - *Akashiwo sanguinea* – 10 years in Wales

PO4_B - FRANCESCO BELLAMOLI - Chlorophyll-*f*-producing cyanobacterial communities in selected karst caves of Northern Italy

PO5_B - TINA BONAČIĆ - Diversity and toxigenic characteristics of cultured *Pseudo-nitzschia* species from East Adriatic Sea

PO6_B - MAMIE SOUADO DIOP - DNA-sequencing-based assessment of seaweed biodiversity and distribution along the Senegalese coast

PO7_B - GUILLAUME DUPONT - Modelling of the effect of kelp harvesting and herbivory on fragmented forests

PO8_B - TRISTAN GOBERT - Arsenic dynamics during stranding and degradation of holopelagic *Sargassum* spp. in the Caribbean region

PO9_B - ANGÉLIQUE GOBET - Evaluation of sequential filtration and centrifugation to capture environmental DNA and survey microbial eukaryotic communities in aquatic environments

PO10_B - LANA GRIZANČIĆ - A metabarcode based (species) inventory of the northern Adriatic phytoplankton

- PO11_B** - INKA BARTSCH - The SeaStrains Network – developing a European concept for safeguarding seaweed genetic material to promote food security, biosecurity, and conservation of biodiversity
- PO12_B** - SIMON KLINE - Seasonal dynamics of the protist community in the Oslofjord and Skagerrak in a changing ocean
- PO13_B** - WIEBE KOOISTRA - Resolving cryptic species complexes in marine protists: haplotype networks meet global DNA metabarcoding datasets
- PO14_B** - MANEL LEIRA - Diatoms as epiphytes on crustose red algae
- PO15_B** - MANEL LEIRA - Microphytobenthos communities living on *Laminaria* forests by DNA metabarcoding
- PO16_B** - MAUD LEMOINE - PHYTOBS-Network: French National Service of Observation program for Phytoplankton in coastal waters
- PO17_B** - PETRA LUČIĆ - Genus *Asparagopsis* (Bonnemaisoniales, Rhodophyta) in the Croatian part of the Adriatic Sea
- PO18_B** - CLIO MARIDAKIS - Species diversity and distribution of the genus *Jania*, at global scale with a European focus
- PO19_B** - BEATA MESSYASZ - Freshwater ecosystem bioengineer on a small and large scale (*Cladophora*, Chlorophyta)
- PO20_B** - SIMON OIRY - Seagrass vs. green macroalgae discrimination: from a hyperspectral library to Drone mounted multispectral camera
- PO21_B** - ANJELINA POTIN - Marginal hotspots of genetic diversity of red gold *Gelidium corneum* along its biogeographical range
- PO22_B** - BEGOÑA SÁNCHEZ-ASTRAÍN - Experimental demonstration of recovery capacity of *Gelidium corneum* populations based on lab-induced reattached individuals
- PO23_B** - SOFIA SADOGURSKA - The genus *Cystoseira* s.l. in Israel (the Levantine basin of the Mediterranean Sea)
- PO24_B** - KATIA SCIUTO - First data on a green coccoid microalga isolated from Lido of Spina (Comacchio, Ferrara, Italy)
- PO25_B** - KJERSTI SJØTUN - Mapping and DNA barcoding the brown algal diversity within the orders Ectocarpales, Ralfsiales and Sphacelariales in Norway
- PO26_B** - SANDA SKEJIĆ - From species to community: long-term dynamics of phytoplankton biodiversity across environmental gradients
- PO27_B** - PETRA SLAVINEC - Diversity and seasonality of coccolithophores in Slovenian coastal waters (Adriatic Sea)
- PO28_B** - RONNY STEINBERG - Biomass increase and maturation of North Sea kelp forest despite ocean warming
- PO29_B** - RAÜL TRIAY-PORTELLA - Habitat suitability of rhodolith seabeds in an oceanic archipelago: regional-scale physical and physiological drivers
- PO30_B** - DANIEL VAULOT - The PR² ecosystem: a set of interconnected databases to map the distribution of micro-algal taxa

SYMPOSIUM 06 “Algal cell biology and ultrastructure”

PO31_B - FLORENT CHARTON - Global transcriptome of short- and long-term hyposaline acclimation in a marine diatom: links to the non-coding genome

PO32_B - TIMOTHÉE CHAUMIER - PhaeoEpiView: An epigenome browser of the newly assembled genome of the model diatom *Phaeodactylum tricornutum*

PO33_B - ANTONIN CHEVENIER - Discovery of red algal carbohydrate sulfotransferases and their implication in cell wall biosynthesis

PO34_B - AYUSHI DALMIA - Activity-based protein profiling (ABPP) of the green microalga *Lobosphaera incisa* for identification of functional serine hydrolases

PO35_B - MATTHEW DOWSON - Building Interactomes in the Cyanobacterium *Synechococcus elongatus* PCC 7942 Using Large-scale Affinity Purification Mass Spectrometry

PO36_B - CHAN YOUNG HONG - Cell repair in *Griffithsia monilis* mediated by ROS and calcium signaling

PO37_B - RAFAL KRELA - Profiling histone post-translational modifications in three green algae species

PO38_B - GONZALO MENDOZA-OCHOA - Studying a B12-regulated promoter in *Phaeodactylum* and *Chlamydomonas*

PO39_B - SABINA MUSIAL - Dissecting the pyrenoid composition of the red alga *Porphyridium purpureum*

PO40_B - VINCENT NORMANT - Molecular and cellular effects of trivalent and hexavalent chromium in *Chlamydomonas reinhardtii*

PO41_B - ABIGAIL J. PERRIN - CyanoTag: High-throughput protein tagging in photosynthetic bacteria

PO42_B - TRANG VUONG - Life of *Chlamydomonas reinhardtii* in a nature-like environment

PO43_B - MHAMMAD ZARIF - Impacts of the loss of a histone post-translational mark on the physiology of the pennate diatom *Phaeodactylum tricornutum*

SYMPOSIUM 08 “Algal photosynthesis, carbon fixation and respiration”

PO44_B - DORIAN A. BAS - Multi-scale temporal variability in MPB biomass and production in diatom- and euglenophyte dominated estuarine biofilms

PO45_B - MAXINE C. CANVIN - Quantifying Rates of Growth, Erosion and Dislodgment of Cultivated Kelp in the UK

PO46_B - JAVIER CREMADES UGARTE - Using different light-emitting diodes (LEDs) in *Ulva ohnoi* (Ulvales, Chlorophyta) cultures. Implications in IMTA-RAS systems

PO47_B - DANY CROTEAU - Peculiarities of diatom ECS allow *in vivo* measurements of the transthylakoidal proton gradient (ΔpH)

PO48_B - GWENAËLLE GAIN - Measurements of photosynthesis in mixture reveal the role of nutrients and allelopathy in the competition between dinoflagellates and diatoms

PO49_B - CATERINA GEROTTO - Impact of sulfur limitation on marine microalgae cell composition and photosynthesis

PO50_B - SÉBASTIEN GUÉRIN - Diel photosynthesis rhythm in diatoms: evidence of endogenous circadian regulation

PO51_B - MICHAL HUBACEK - Strong heterologous electron sink outcompetes alternative electron transport and elucidates coordination of electron distribution from PSI

PO52_B - JASON HUPP - Optical properties of an aerated sample cell in an open-flow through steady-state gas exchange system

PO53_B - VINCENT MERIOT - Targeted and non-targeted metabolomics of *Heterocapsa* cf. *bohaiensis* under Nickel and Iron high concentration and its photophysiology

PO54_B - FRANCESCA MARCHETTO - Directed evolution of an extremophilic red microalga *Cyanidioschyzon merolae* leads to stable adaptation to high concentrations of heavy metals

PO55_B - MOHAMED FAAZIL MOHAMED DAHLAN - Effect of Rare Earth Element (gadolinium) exposure on microphytobenthos photophysiology

PO56_B - ARIANNA RIZZO - Benthic diatoms growth in artificial hydrogels to mimic their natural habitat and to study their physiological properties

PO57_B - FLORIAN STAHL - Feasibility study for kelp plantation in the German Bight: habitat availability and light requirements of *Laminaria hyperborea*

SYMPOSIUM 10 “Ecology of algal systems”

PO58_B - SARA BARRIENTOS - Declining recruitment in a potential climate refuge for kelp

PO59_B - ANDREA BILAJAC - Site-specific predictive models for estimating wet biomass of macroalga *Gongolaria barbata* from two sites

PO60_B - AURÉLIE BLANFUNE - *Lithophyllum byssoides* rims: the first marine Mediterranean ecosystem threatened of collapse?

PO61_B - NDEYE COUMBA BOUSSO - Safety considerations of seaweed in Senegal: heavy metals hazards

PO62_B - NDEYE COUMBA BOUSSO - The unusual massive beaching of *Sargassum* around Dakar Peninsula (Senegal, Africa) in autumn 2022: opportunity or threat

PO63_B - BENJAMIN CHÂTELAIN - Holopelagic *Sargassum* along a degradation gradient: variation in biochemical composition and impact on potential valorization

PO64_B - OCEANNE-AMAYA CIPOLLONI - Temporal fluctuation of metallic and metalloid concentrations in three morphotypes of floating holopelagic *Sargassum* from Caribbean coast (Guadeloupe, French West Indies)

PO65_B - PABLO COBOS - Invasive alga *Rugulopterix okamuræ* relies on high resilience to elevated CO₂ and nutrient limitation to expand in the Mediterranean

PO66_B - WENDY DIRUIT - Remote sensing vs. in situ data: a comparative analysis of seaweed cover assessment on rocky shores

PO67_B - ANNEMIEKE DROST - Matter of traits: Combined effects of nutrients and climate change on cyanobacterial bloom toxicity across scales

PO68_B - BENTE EDVARSEN - Growth preferences of the haptophyte *Chrysochromulina leadbeateri* forming ichthyotoxic blooms in fjords in N Norway

PO69_B - CRISTINA GALOBART - Impacts of habitat fragmentation on macroalgal forests

PO70_B - EDI GLJUSCIC - Epiphyte community in two prominent fucalean algae on the western Istrian coast

PO71_B - JULIA GOSTYŃSKA - The mechanism of competition between coexisting aquatic taxa on the example of *C. glomerata* (L) Kütz. and *L. minor* L. and cyanobacteria in the body of water

PO72_B - ANKE KREMP - Sediments as reservoirs of unexpected pelagic diversity: Distribution of the dormancy trait in Baltic phytoplankton communities

PO73_B - CAROLIN PETER - Response of the cold-adapted spring bloom community to increased nitrogen in the Baltic Sea

PO74_B - FERNANDO QUEIROGA - In vitro effects of the harmful benthic dinoflagellates *Ostreopsis* cf. *ovata* and *Prorocentrum hoffmannianum* on immune responses of the farmed oyster *Crassostrea gasar*

PO75_B - RAQUEL SANCHEZ DE PEDRO - Warming rate shapes the thermal tolerance of freshwater phytoplankton

PO76_B - CARLOS SANGIL - Early steps in the primary succession of seaweed communities at the Tajogaite volcano lava flows (Canary Islands, Spain)

PO77_B - IZABELE ŠUIKAITE - Ecology and phylogeny of alien *Raphidiopsis raciborskii*, *Chrysosporum bergii*, *Sphaerospermopsis aphanizomenoides* and *Cuspidothrix issatchenkoi* from three hypertrophic Lithuanian lakes

PO78_B - JANA VERDURA - Grazing effects on recruits of Mediterranean canopy-forming macroalgae: implications for conservation actions

Thursday 24th August – 3:00pm to 4:25pm

SYMPOSIUM 03 “Phylogenetics, Phylogenomics and Evolution”

PO1_C - LORAINÉ BRILLET-GUÉGUEN - The Phaeoexplorer Genome Database: a Multi-Scale Genomic and Transcriptomic Data Resource for the Brown Algae

PO2_C - LORAINÉ BRILLET-GUÉGUEN - The Rhodoexplorer Genome Database: a Multi-Scale Genomic and Transcriptomic Data Resource for the Red Algae

PO3_C - AHMED DEBIT - LncPlankton: an extensive collection of lncRNAs from marine plankton

PO4_C - CÉLINE DUC - The sophisticated network of histone chaperones is conserved in the pennate diatom *Phaeodactylum tricornutum*

PO5_C - MATTHEW FREILER - Novel Plastome Assembly and Annotation of Florideophyceae

PO6_C - MARIE-LAURE GUILLEMIN - Nuclear and mitochondrial genetic clines in a red alga presenting multiple transition zones

PO7_C - CÉCILE HERVÉ - Polysaccharides from the extracellular matrix in brown algae: origins and evolutive histories

PO8_C - CAROLINE JUERY - What make *Phaeocystis* species putatively good symbiont for photosymbiosis?

PO9_C - KIRSTEN M. MÜLLER - Rates of evolution in chloroplast genes within the only freshwater species of the Bangiales, *Bangia atropurpurea*

PO10_C - ELLYN ROUSSELOT - A comprehensive study of histone proteins in brown algae

PO11_C - LEILA TIRICHINE - Genome wide assessment of genetic diversity and transcript variations in 17 accessions of the model diatom *Phaeodactylum tricornutum*

SYMPOSIUM 05 “New insights into the mechanisms and regulation of life cycles in algae”

PO12_C - CHRISTINA ARVANITIDOU - Role of the genome-wide distribution of the epigenetic marks H3K27ME3 and H3K4ME3 in the microalgae *Ostreococcus tauri*

PO13_C - MAXIM BOKOV - Formation and dynamics of the guanine crystals regarding the light adaptation of dinoflagellate *Amphidinium carterae*

PO14_C - FERNANDO BOLIVAR - Biological and sustainable methods to control biofilms in the ornamental fountains of the Alhambra and the Generalife

PO15_C - FREDERIC CHAUX - Photosynthetic performances and photoprotection strategies in life cycle stages of the coccolithophore *Calcidiscus leptoporus*

PO16_C - YU JUNG CHOI - Developmental signaling during spore division and morphological differentiation in the red algae *Bostrychia moritziana*

PO17_C - OLIVIER GODFROY - Basal Cell Fate Determination in *Ectocarpus*

PO18_C - FRANZ GOECKE - Changes of nuclear DNA content estimates during the life cycle stages of sugar kelp, *Saccharina latissima*

PO19_C - AGNES GROISILLIER - Exploring the role of epigenetic mechanisms in the salinity stress response of the model diatom *Phaeodactylum tricornutum*

PO20_C - KAWTHER RAHMA HABCHI - Development of sexual type PCR markers for *Ulva spp.*

PO21_C - SOO YEON KIM - Molecular mechanisms of spore movement and substrate attachment of red alga *Bangia sp.*

PO22_C - NADINE RIJSDIJK - Development of gene probes to track sexual reproduction events in diatoms

PO23_C - SAMUEL SAINZ-VILLEGAS - Effects of temperature and irradiance on the vegetative propagation processes in gametophytes of *Asparagopsis armata* (Florideophyceae, Rhodophyta) mediated by hook-like structures

PO24_C - MAGDALENA STRUGAŁA - Whether and how do polyphenols affect epiphytic diatom biomass?

PO25_C - ELIANE E. ZAKKA - Phenotypic plasticity in early development of *Dictyota dichotoma*

SYMPOSIUM 07 “Genomics technologies in algae”

PO26_C - CAMILLE BEAULIER - Characterization of a uranium-tolerant microalga of the genus *Coelastrella* with high potential for the remediation of metalpolluted waters

PO27_C - HONG II CHOI - Mutation Frequency of *Chlamydomonas reinhardtii* Using CRISPR-Cas9 Ribonucleoprotein Is Tripled by Employing *Agrobacterium* Originated Nuclear Localization Signal

PO28_C - LINDA KEIL - An individual database created from genome and transcriptome data allows for proteomic analysis of *Dunaliella* in response to hyperosmotic conditions

PO29_C - YONGTAE KIM - Genetic tool kits in *Pyropia yezoensis* against biotic and abiotic stresses

PO30_C - GUILLAUME MAREC - Identifying novel marine microalgal enzymes for industrial applications using omics approaches

PO31_C - VICTOR MURISON - Towards the clarification of diatom lipid catabolism: an *in silico* genome and transcriptome mining for *Phaeodactylum tricornutum* lipases

PO32_C - OLIVIA J. WYNN - The effect of ocean warming and CO₂ enrichment on *Ecklonia radiata*: investigating molecular responses

SYMPOSIUM 09 “The global carbon-cycle”

PO33_C - MAEVA GESSON - New experimental setup to investigate marine snow fragmentation

PO34_C - ZRINKA LJUBESIC - Net primary production facilitated by thermohaline forcings in a stratified oligotrophic system

PO35_C - YVONNE NEMCOVA - *Halimeda tuna* in the Adriatic – carbonate production on the microscale of individual segments along the latitudinal and the depth gradients

PO36_C - YOICHI SATO - To improve the accuracy of carbon fixation by macroalgae – Effect of the morphology on carbon and nitrogen content

PO37_C - FLORIAN WEINBERGER - Seaweeds, currents and sedimentation: a hydrodynamic prediction model

SYMPOSIUM 12 “Polar algae in a changing environment”

PO38_C - EMILY L.M. BROADWELL - Adaptation versus plastic responses to environmental controls in snow and glacier algal blooms

PO39_C - OZAN CIFTCI - A draft genome of the snow algae *Sphaerocystis* sp.

PO40_C - LUISA DÜSEDAU - Intertidal macroalgal communities in the European Arctic

PO41_C – RAQUEL CARMONA - Warming modifies the seasonal photophysiology and productivity of Arctic macroalgae

PO42_C - LINDA NEDBALOVÁ - Low-temperature outdoor cultivation of polar microalgae: a comparison of tests in central Europe and Svalbard

PO43_C - SARINA NIEDZWIEDZ - Terrestrial run-off reduces the quality of Arctic kelps as a food source

PO44_C - ELISA K. PETER - Metabolic characterization of glacier ice algae dominated microbial communities blooming on the Greenland Ice Sheet

PO45_C - PAVEL PRIBYL - Biological soil crust microalgae manipulation experiments in the High Arctic

PO46_C - BJÖRN ROST - The physiological response of the Arctic haptophyte *Phaeocystis pouchetii* to marine heatwaves

PO47_C - KAROLINE SAUBREKKA - Diversity and distribution of Arctic protists in pelagic and sympagic habitats in the northern Barents Sea as revealed by metabarcoding

SYMPOSIUM 14 “Algal culture collections: their increasing societal relevance and role as gene repositories”

PO48_C - CINTIA IHA - Algal bioprospecting using Machine Learning on Omics data

PO49_C - SABINA MARKS - CCAC - Central Collection of Algal Cultures

PO50_C - ALISHA NELLY - The use of *Ulva* as a final stage nutrient removal from factory effluent water

PO51_C - CECILIA RAD-MENÉNDEZ - The Culture Collection of Algae and Protozoa (CCAP): preserving diversity for algal research and biotechnology

PO52_C - ROS WATSON - Algae biobanking: cryopreservation at the Australian National Algae Culture Collection

SYMPOSIUM 16 “Advances in algal production processes”

PO53_C - ALBERTA DI CAVE - Valorization of Spirulina’s biomass as biostimulant in agriculture: development of a green product to improve sustainability and circular economy

PO54_C - ANDREA FANESI - Bubbling for light: fighting microalgae biofilms development in photobioreactors

PO55_C - ROWON KIM - The Cellular mechanism of chlorosis in *Pyropia yezoensis* and the development of resistant strains

PO56_C - ALEXANDR A. LUKYANOV - Bio-inspired materials for nutrient biocapture and antibiotics biodegradation in wastewater: microalgal cells immobilized on chitosan-based carriers

PO57_C - MELPOMENI SOFIA MENTE - *Chlorella vulgaris* cultivation in low-cost photobioreactors

PO58_C - LORENZO MOLLO - A microalgal consortium for the remediation of ammonium-rich wastewaters: species proportion variability and physiological analysis

PO59_C - R.A. NARAYANAN - A consistent and reliable system for studying eucheumatoid biology

PO60_C - QUYEN NHAM - Reduced night biomass loss in large-scale mixotrophic algal cultivation

SYMPOSIUM 17 “Public-Private partnerships in algal research”

PO61_C - ERIK-JAN MALTA - Stimulating algae cultivation in Spain: tools developed by the INNOVALGA project

**SYMPOSIUM 18 “Algae and the general public”
+ SYMPOSIUM 19 “Algae, education and career pathways”**

PO62_C - JULIET BRODIE - Studying marine macrophytes through citizen science. The case of the Big Seaweed Search Project-Mexico

PO63_C - ANA YEBRA - Colorimetric analysis of algal pigments from the Alboran Sea

PO64_C - LORENA CUBEROS - PHYCO-ART. In search of the lost technique

PO65_C - JOHAN DECELLE - PlanktoQuest: a virtual reality animation to explore inside phytoplankton

PO66_C - MAIKE LORENZ - Identification of phytoplankton using artificial intelligence: a case study on freshwater bioindicators

PO67_C - CAROLINA PENA-MARTIN - Littoral monitoring for an experience of teaching and research

PO68_C - ABIGAIL J. PERRIN - Publications & Public Actions: How can Scientists respond to the Climate and Ecological Emergency?

PO69_C - LOÏC TEN-HAGE - Twenty-Year Study of Algal Taxonomic Diversity in the Intertidal Zone of Hædic Island: A Pedagogical Program for Life Sciences Students

PO70_C - ELZBIETA WILK-WOZNAK - When society meets science - results of the survey on cyanobacterial blooms

SYMPOSIUM 20 “Coastal and freshwater systems under human pressure: status assessment, management and conservation”

PO71_C - SALMA ABOUSSALAM - The Moroccan Mediterranean Sea modelled by Ecopath model

PO72_C - MARIA ALTAMIRANO - Development of disinfection protocols for fishing gear to minimize the impact of invasive seaweed *Rugulopteryx okamuræ* (Dictyotales, Ochrophyta)

PO73_C - THOMAS BUREL - Seaweeds in ports along the Channel-Atlantic Coast of France: factors influencing species assemblages and distribution

PO74_C - DANIELA GABRIEL - Alien Invasions: Quantifying the invasiveness risk of macroalgae in the Azores

PO75_C - MARJAN JANSEN - Effect of mobile bottom trawling on microphytobenthic communities in the German Baltic Sea

PO76_C - ILIANA NIKOLOPOULOU - Phytoplankton and Ecological status of natural lakes in Greece

PO77_C - OCEANNE-AMAYA CIPOLLONI - Reduced transfers of metals and metalloids contaminants from pelagic *Sargassum* spp. accumulated in artificial floating barrier device

PO78_C - EMILIO SOLER ONÍS - Canarian Harmful Algae Observatory: new trends in the study and monitoring of HABs in the Canary Islands, Spain