EPC6 Programme

The programme of Plenary, Symposia, Oral Talks and Posters includes the names of the presenting authors *only*. For names of all co-authors, please refer to the Abstract with the number indicated after each title. Presenters are requested to use *only* their allotted time so that the Convenors and Chairs can keep to time. Please time your presentation to allow for questions.

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.

The code for Plenary Lectures, Keynote and Oral Papers, and Posters is: Pl = Plenary, Kn = Keynote presentation, Or = Oral presentation, Po = Poster); the first number refers to the Symposium number; the second number is the number of the individual presentation. All oral presentations and the coffee breaks will be held in the Champagne Suite area (either Foyer, Lobby, or Lecture Rooms). Posters are displayed in the Chablis Suite on the lower floor.

	Sunday,	23	August	2015
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13.00-21.00	Registration
19.00-21.00	Welcome Reception

Lobby Foyer

Monday, 24 August 2015

8.00-12.00	Registration
8.25-8.30	General announcements
8.30-9.00	Opening Ceremony

Lobby Main Hall

Co-Presenters: Jane Lewis, Elliot Shubert, Olivier De Clerck, Peter Kroth, Christine Maggs & Christos Katsaros

9.00–10.00 Plenary Lecture

Main Hall

John Archibald

One plus one equals one: symbiosis and the evolution of complex life

10.00–10.30 Coffee/Tea Break

10.00–12.30 **Symposia 1, 2 and 3**

Symposium 1: Room 1

Algal	diversity	and s	pecies	delimitation:	new	tools, no	ew insights
5			Person		,,		- · · ·

Co-Convenors: Frederik Leliaert and David G Mann

10.30–11.00 Christophe Destombe – How complementary barcoding and population genetics analyses can help solve taxonomic questions at short phylogenetic distances the example of the brown alga *Pylaiella littoralis* (1Kn.1)
 11.00–11.30 Pavel Škaloud – Generating the diversity - uncovering the speciation mechanisms in freshwater and terrestrial microalgae (1Kn.2)
 11.30–12.00 Sebastien Colin – High-Content Fluorescence Microscopy applied to marine protists ecology (1Kn.3)
 12.00–12.15 Maria Kahlert – Gaps to fill when analyzing freshwater diatom diversity with DNA barcoding – notes from a boreal region (1Or.1)
 12.15–12.30 Gareth A. Pearson – Gender studies in seaweeds - expression and evolutionary rates of

sex-biased genes in fucoid brown algae (10r.2)

Symposium 2: Room 2

Shedding new light on photosynthesis and its role in global biogeochemistry

Co-Convenors: Elly Spijkerman and John Raven

10.30-11.00	Susanne Wilken – Mixotrophs in aquatic ecosystems: Primary producers or consumers?
	(2Kn.1)
11.00-11.30	Brigitte Gontero – Biodiversity of GAPDH regulation in microalgae (2Kn.2)
11.30-12.00	Timo Mühlhaus – Systems-Wide Analysis of Acclimation Responses to Long-Term Heat Stress
	and Recovery in the Photosynthetic Model Organism Chlamydomonas reinhardtii (2Kn.3)
12.00-12.15	Kevin Oxborough – Using Fast Repetition Rate fluorometry to estimate PSII electron flux per
	unit volume: A purely optical method for estimating GPP by phytoplankton? (2Or.1)
12.15-12.30	Jacco C Kromkamp – High resolution FRRF measurements to measure net and gross primary
	production (2Or.2)

Symposium 3: Room 3

Algal Lipids not just for burning

Co-Convenors: Michele Stanley and Philippe Soudant

- 10.30–11.00 Johnathan Napier Metabolic engineering of diatoms for the enhanced production of high value lipids (3Kn.1)
 11.00–11.30 Rene Wijffels Industrial potential of microalgae for applications in food, feed and specialty chemicals (3Kn.2)
 11.30–11.45 Matthias Schmid Plasticity of fatty acid profiles and contents in seaweeds (3Or.1)
 11.45–12.00 Philippe Soudant Lipid composition modifications of the marine diatom *Pseudo-nitzschia delicatissima* under copper starvation (3Or.2)
- 12.00–12.15 Maria Huete-Ortega Linkage between photosynthesis and nitrogen metabolism on the accumulation of lipids in microalgae (3Or.3)
- 12.15–12.30 Anastasiia Kryvenda The European PUFAChain project (FP7) a value chain from algal biomass to lipid-based products (3Or.4)

12.30–13.30 Lunch Cl

13.30–14.30 **Poster Session (1Po.1-20, 2Po.1-3, 3Po.1-14, 4Po.1-9, 9Po.1-20)**

Chablis Suite

Symposium 4: Room 1

Algae-microbiome interactions: integrative overview from biology to chemistry

Co-Convenors: Soizic Prado and Télesphore Sime-Ngando

- 14.30–15.00 Laure Guillou Are biological controls of harmful algal blooms stable over time? (4Kn.1)
- 15.00–15.30 Simon Dittami Microbiomes impact algal acclimation: the example of a freshwater strain of *Ectocarpus* (4Kn.2)
- 15.30–15.45 Aschwin Engelen The microbiome of a seaweed invader across its introduced European range. (4Or.1)
- 15.45–16.00 Shinya Sato An implication of bacteria-diatom interaction at the onset of sexual reproduction in diatoms (4Or.2)

Symposium 5: Room 2

Phylogenomics: new approaches to solving old problems in algal evolution

Co-Convenors: Anna Karnkowska and John Archibald

- 14.30–15.00 John Stiller Untangling the web of eukaryotic photosynthetic evolution (5Kn.1)
- 15.00–15.30 Miroslav Oborník Interrupted respiratory chain in the mitochondrion of *Chromera velia* (5Kn.2)
- 15.30–15.45 Marek Eliáš A comparative analysis of mitochondrial genomes in eustigmatophyte algae (50r.1)
- 15.45–16.00 John Archer Whole genome phylogenomic analysis provides deeper insight into the origins and divergence of the cyanobacteria (5Or.2)

Symposium 6: Room 3

Symbiodinium as model organism

Co-Convenors: David Suggett and Mark Warner

- 14.30–15.00 Christian Voolstra Using Symbiodinium genomics to inform coral algae symbioses (6Kn.1)
- 15.00–15.30 Todd C LaJeunesse Genetics-based systematics and taxonomy thrusts *Symbiodinium* (dinoflagellate) research into the 21st century. (6Kn.2)
- 15.30–15.45 Cheong Xin Chan Genome analysis of two *Symbiodinium* isolates (6Or.1)
- 15.45–16.00 Benjamin CC Hume *Symbiodinium thermophilum* sp. nov., a thermotolerant symbiotic alga prevalent in corals of the world's hottest sea, the Persian/Arabian Gulf (6Or.2)

16.00–16.30 Coffee/Tea Break

Symposium 4	4 (continued):	om 1
	Algae-microbiome interactions: integrative overview from biology to chemistry Co-Convenors: Soizic Prado and Télesphore Sime-Ngando	
16.30–16.45	Sergio Leiva – Phylogenetic diversity of epibiotic gram-positive bacteria isolated from Antarctic macroalgae (40r.3)	
16.45–17.00		
17.00–17.15		
17.15–17.30		
17.30–17.45		ns
17.45–18.00	Declan Schroeder – Phaeoviruses extend their host range to the kelps (4Or.8)	
Symposium :	5 (continued):	om 2
	Phylogenomics: new approaches to solving old problems in algal evolution Co-Convenors: Anna Karnkowska and John Archibald	
16.30–17.00	Anna Karnkowska – Evolution of plastid-targeted proteins in the secondary plastid-containi mixotrophic euglenid - <i>Rapaza viridis</i> (5Kn.3)	ing
17.00–17.15	Glen L. Wheeler – Evolution of alternative pathways for vitamin C synthesis following plas acquisition (50r.3)	stid
17.15–17.30	permissive parasite environment (5Or.4)	
17.30–17.45	factors in microalgae (5Or.5)	n
17.45–18.00	Kasia Piwosz – Who was the last aplastidic cryptophyte? (5Or.6)	
Symposium	6 (continued):	om 3
	Symbiodinium as model organism Co-Convenors: David Suggett and Mark Warner	
16.30–16.45		
16.45–17.00	JTY Wong – Histone modifications during reversible transitions between motile and non-m stages of dinoflagellates (6Or.4)	otile
17.00-17.15		
17.15–17.30	extreme environment of the Persian / Arabian Gulf (6Or.6)	the
17.30–17.45	Eslam Osman – Physiological response of <i>Symbiodinium</i> populations adapted to different thermal regimes in the Red Sea (6Or.7)	
17.45-18.00	Joerg C. Frommlet – Symbiodinium - The first dinoflagellate known to drive microbial-alga	1

calcification (6Kn.3)

Tuesday, 25 August 2015				
8.55–9.00 9.00–10.00	General announcements Plenary Lecture Main Hall			
	Ellen Van Donk			
	Chemical information transfer in plankton communities			
10.00–10.30 10.30–12.30	Coffee/Tea Break Symposia 7, 8 and 9			
Symposium 7:				
Molecular Cell Biology Co-Convenors: Maria Mittag and Marek Eliáš				
10.00–10.30 10.30–11.00 11.30–12.00 12.00–12.15 12.15–12.30	George Witman – The <i>Chlamydomonas</i> flagellum as a model for human disease (7Kn.2) Kateřina Bišová – Green algae dividing by multiple fission – potent tool (not only) for cell cycle studies (7Kn.3) Arash Kianianmomeni –Cell-type specific photoreceptors and associated light-signaling pathways in the multicellular alga <i>Volvox carteri</i> (7Or.1)			
Symposium 8: Room 2				
Algal biodiversity and ecosystem function: new scenarios in coastal systems Co-Convenors: Lars Gamfeldt and Fabio Rindi				
10.30–11.00 11.00–11.30	Lars Gamfeldt – The consequences of changes in algal biodiversity (8Kn.1) Rosa M Viejo – Structure and dynamics of the southern range limit of a canopy-forming alga and the consequences for the coastal ecosystem functioning (8Kn.2)			
11.30–11.45	Kristian Spilling – Changes in phytoplankton community composition affect biogeochemical			
11.45–12.00	fluxes; an indirect effect of global change (8Or.1) Nurul Redzuan – Influence of sediment biofilm "phase of growth" on high microphytobenthos			
12.00-12.15	(MPB) variability on an intertidal flat (8Or.2) Jana Wegbrod – Influence of interspecific competition on photosynthetic rates of algal			
12.15–12.30	communities (8Or.3) Rebecca L Atkins – Habitat characteristics driving species richness in rock pools (8Or.4)			

Symposium 9: Room 3

Algae in stressful environments in coastal systems

Co-Convenors: Angela Wulff and Richard J Geider

Thomas Mock – Extensive genetic diversity and differential bi-allelic expression in a Southern 10.30-11.00 Ocean diatom (9Kn.1) 11.00-11.30 Eva Leu – From eternal dark to high light stress: Microalgae in the high Arctic and the challenge of different extremes (9Kn.2) 11.30-11.45 Anique Stecher – Biodiversity assessment and transcriptomic analyzes of eukaryotic sea ice diatoms of the central Arctic Ocean (90r.1) Graham JC Underwood – Adaptation of diatom extracellular polymeric substance (EPS) 11.45-12.00 production in response to temperature and salinity stress in sea ice environments (9Or.2) Martina Pichrtová – Vegetative survival and stress tolerance of *Zygnema* spp. 12.00-12.15 (Zygnematophyceae, Streptophyta) in polar regions (9Or.3) 12.15-12.30 Thomas Leya – Snow algae all over Svalbard? - An(other) attempt to explain their distribution patterns (9Or.4)

12.30–13.30 Lunch Chablis suite

13.30–16.00 Continued Symposia 1, 2, 7, 8 and Manton Symposium

Room 1

Irène Manton Student Prize Competition (BPS)

Chair: Juliet Brodie

- 13.30–13.45 Marine Vallet Biodiversity, secondary metabolome and ecological role of fungal endophytes associated with the brown algae *Laminaria digitata*, *Ascophyllum nodosum*, *Saccharina latissima* and *Pelvetia canaliculata* (Manton.1)
- 13.45–14.00 Kenny Bogaert Two-phased cell polarisation in the brown alga Dictyota (Manton.2)
- 14.00–14.15 Leanne A. Melbourne The importance of revealing cryptic diversity in relation to assessing the structural integrity of the maerl bed habitat (Manton.3)
- 14.15–14.30 David Russo Multidisciplinary analysis of a freshwater lake microbial community under differing nutrient regimes (Manton.4)
- 14.30–14.45 Laura Vitale Mating type related genes in *Pseudo-nitzschia multistriata* (Manton.5)
- 14.45–15.00 Sohail K Pinto Diversity and phylogeny of the dinoflagellate genus *Testudodinium* (Dinophyceae) (Manton.6)
- 15.00–15.15 Raquel Sánchez de Pedro Nutrient and light responses in two estuarine rhodophytes: implications for their zonation (Manton.7)
- 15.15–15.30 Francesco Paolo Mancuso Bacterial diversity changes to simulated local and global stressors on the canopy-forming alga *Cystoseira compressa* (Manton.8)
- 15.30–15.45 Julie AZ Zedler Investigating the feasibility of high value compound production in microalgae (Manton.9)

Symposium 7 (continued)

Room 2

Co-Convenors: Maria Mittag and Marek Eliáš

13.30–13.45	Andreas Holzinger – Desiccation tolerance in streptophytic green algae: New insights from transcriptomics and Fatty Acid Methyl Ester (FAME) analysis (7Or.3)
13.45–14.00	Charlotte Walker – The structure and function of coccolith associated polysaccharides: implications for their role in calcification (7Or.4)
14.00–14.15	Lili Chu – Characterisation of Nucleotide Transporter Proteins in complex plastids (70r.5)
14.15–14.30	Anna Vanclova – Investigating signal domains and translocases involved in protein import into
	euglenid plastid (7Or.6)
14.30–14.45	Burkhard Becker – Function of the Contractile Vacuole in <i>Chlamydomonas</i> : A Systems Biology Approach (70r.7)
14.45-15.00	Marie JJ Huysman – Molecular regulation of the diatom cell cycle (70r.8)
15.00–15.15	Hiroyuki Sekimoto – A receptor-like kinase, related with cell wall sensor of higher plants, is required for sexual reproduction in the unicellular charophycean alga, <i>Closterium peracerosum-strigosum-littorale</i> complex (7Or.9)
15.15–15.30	Susana M Coelho – Unusual features of the pseudoautosomal region of a U/V pair of sex chromosomes (70r.10)
15.30–15.45	Adva Shemi – Conservation of the autophagy pathway in phytoplankton and its role during phosphorous stress (7Or.11)
15.45–16.00	Yong Zou – The role of an animal-like cryptochrome in the life cycle of the unicellular green alga <i>Chlamydomonas reinhardtii</i> (7Or.12)
Symposium 2	2 (continued) Room 3
	Shedding new light on photosynthesis and its role in global biogeochemistry
	Co-Convenors: Elly Spijkerman and John Raven
13.30–13.45	David J Hughes – Nitrogen availability drives variability of the electron requirement for carbon fixation in coastal phytoplankton communities (2Or.3)
13.45–14.00	M Rosario Lorenzo – Effects of increased CO2 and iron availability on the mechanisms of carbon assimilation and calcification during a bloom of the coccolithophore <i>Emiliania huxleyi</i> (2Or.4)
14.00–14.15	Samuel R Scoma – The Role of Carbon Concentrating Mechanisms in Macroalgal Responses to Ocean Acidification (20r.5)
14.15–14.30	Janet E Kübler – Limits to the Positive Effect of Ocean Acidification on Macroalgal Production (2Or.6)
Symposium 8	Room 3
	Algal biodiversity and ecosystem function: new scenarios in coastal systems Co-Convenors: Lars Gamfeldt and Fabio Rindi
14.30–14.45	Stacy A Krueger-Hadfield – Unconscious uncoupling: life cycle plasticity facilitates macroalgal invasions (8Or.5)
14.45–15.00	James Murphy – Modelling the population dynamics of invasive <i>Undaria pinnatifida</i> using an individual-based approach. (8Or.6)
15.00–15.15	Udo Nitschke – The integral role of Phaeophyceae to drive coastal iodine fluxes: case studies from Ireland (8Or.7)
15.15–15.30	Dagmar B Stengel – Bridging the gap between algal ecology and biotechnology – more than just learning a new language (8Or.8)

Symposium 1	1 (continued)	Room 3
	Algal diversity and species delimitation: new tools, new insights Co-Convenors: Frederik Leliaert and David G Mann	S
15.30–15.45	João Neiva – Phylogenetic and biogeographical patterns of allopolyploid sp	peciation in an
15.45–16.00	intertidal fucoid seaweed assemblage (1Or.3) Sabrina Le Cam – Elucidating unresolved invasion history with genome-wiapproach: the case of the global invader <i>Sargassum muticum</i> (1Or.4)	de sequencing
16.00–16.30	Coffee/Tea Break	
16.30–18.15	Continued Symposia 1, 3, 4, 6	Rooms 1-3
Symposium .	3 (continued)	Room 1
	Algal Lipids not just for burning Co-Convenors: Michele Stanley and Philippe Soudant	
16.30–16.45	Judith Rumin – Lipid accumulation in <i>Phaeodactylum tricornutum</i> obtained selection procedure (3Or.5)	d by a mutation-
16.45-17.00	Michael J Cohrs – Characterization of Lipids in Algae Utilizing an imaging (FlowCAM) (3Or.6)	g flow cytometer
17.00-17.15		ous algae (3Or.7)
17.15–17.30	Xiaolin Chen – Ionic liquid assisted subcritical water promotes the extraction microalgae <i>Scenedesmus</i> sp. (3Or.8)	on of lipids from wet
17.30–17.45	Amir Neori – Algae are the centerpiece of world aquaculture, feeding fish a (30r.9)	and cleaning water
17.45–18.00	Dominik J Patzelt – Microalgae as a renewable raw material cultivated in a (3Or.10)	n urban area
Symposium 4	4 (continued)	Room 2
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Algae-microbiome interactions: integrative overview from biology to chemistry

Co-Convenors: Soizic Prado and Télesphore Sime-Ngando

16.30–16.45 Daniella Schatz – Life cycle strategies of a large virus that infects the bloom forming *Emiliania huxleyi* (4Or.9)
16.45–17.00 Martina Strittmatter – Disease resistance in brown algae: mechanisms and heritability (4Or.10)

Symbiodinium as model organism Co-Convenors: David Suggett and Mark Warner

17.00–17.15	Brian M Hopkinson – Inorganic carbon scarcity and limitation of <i>Symbiodinium</i> in hospite: environmental limitation or host control (6Kn.4)
17.15–17.30	Thomas Krüger – NanoSIMS isotopic imaging - Deciphering the nature of coral-symbiont metabolic interactions (6Or.8)
17.30–17.45	Pierre Cardol – Critical role of oxygen photoreduction downstream of PSI in <i>Symbiodinium</i> : photoprotection, energetic adjustement and ROS production (6Or.9)
17.45–18.00	Tom D Hawkins – Metabolic responses to chronic nutrient stress differ between <i>Symbiodinium</i> phylotypes (6Or.10)
Symposium 1	(continued) Algal diversity and species delimitation: new tools, new insights Co-Convenors: Frederik Leliaert and David G Mann
16.30–16.45	Viviana Peña – Evolutionary origin of coralline red algae (Corallinophycidae, Rhodophyta)
16.45–17.00	inferred from multilocus time-calibrated phylogeny (1Or.5) Claire Gachon – The pathogens of brown algae <i>Anisolpidium ectocarpii</i> and <i>Anisolpidium rosenvingei</i> define a new class of marine anteriorly uniciliate oomycetes (1Or.6)
17.00–17.15	Rosa Trobajo – A molecular approach to <i>Nitzschia</i> : establishing a framework for classifying a highly diverse and taxonomically difficult diatom group (10r.7)
17.15–17.30	Marc Krasovec – The origin of diversity in green algae (10r.8)
17.30–17.45	John Bolton – Chemistry meets biosystematics: parallel studies on the diversity of the <i>Laurencia</i> complex (Rhodomelaceae, Rhodophyta) in South Africa (1Or.9)
17.45–18.00	Showe-Mei Lin – Species diversity and molecular phylogeny of the crustose coralline algae (Corallinales, Rhodophyta) from the warm water western Pacific Ocean with an emphasis on species from Taiwan (10r.10)
18.00–18.15	Jazmin J Hernandez-Kantun – <i>Lithophyllum congestum</i> (Corallinales, Rhodophyta) what are you and what aren't you? Receiving some inner signals from DNA and morpho-anatomy to clarify our understanding on the species (10.11)
18.00–19.00	Poster Session (1Po.21-35, 5Po.1-5, 6Po. 1-3, 7Po.1-8, 8Po.1-12, 9Po.21-40)
19:45–21:00	Public Lecture Main Hall

Jason Hall-Spencer

How will marine life cope with ocean acidification?

Wednesday, 26 August 2015

Workshops / Individual programs / Midcongress excursions

09.00

Thursday, 27 August 20	015
General announcements Plenary Lecture	Main Hall
Georg Pohnert	
algal chemical signals that shape community intera environment	actions and structure the marine
Coffee/Tea Break	
Symposia 10, 11 and 12	
10:	Room 1
	global problem with local solutions?
Lutz Beck – Eco-evolutionary dynamics in plankton c Line Le Gall – Investigating temporal changes in seaw Chris J. Williamson – NE Atlantic <i>Corallina</i> (Rhodop	weed communities of Brittany (10Or.1) hyta) in a high CO2 world (10Or.2)
Sheree Yau – Insights from <i>Ostreococcus</i> into coping (10Or.4)	in a sea of viruses and competitors
11:	Room 2
J Mark Cock – Development of forward genetic and g regulatory genes in the brown algae (11Kn.2) Saul Purton – Algal chloroplast engineering: new tool: Alastair W Skeffington – The Development of Genetic	enomic approaches to identify key s, technologies and applications. (11Kn.3) c Tools for coccolithophores (11Or.1)
	Georg Pohnert Ilgal chemical signals that shape community interacenvironment Coffee/Tea Break Symposia 10, 11 and 12 III. Global change and algal assemblages: the Co-Convenors: Gwenael Piganeau, Nessa O'Content Laura Airoldi – Vanishing forests of canopy algae: a graph (10Kn.1) Lutz Beck – Eco-evolutionary dynamics in plankton contine Le Gall – Investigating temporal changes in seaw Chris J. Williamson – NE Atlantic Corallina (Rhodop Michael J Roleda – The weakest link: are the microsoctor climate change? (10Or.3) Sheree Yau – Insights from Ostreococcus into coping (10Or.4) II: Genetic engineering in algae: novel molecular tools Co-Convenors: Angela Falciatore, Marie Huysman Peter G Kroth – Diatoms as model system for algae with J Mark Cock – Development of forward genetic and gregulatory genes in the brown algae (11Kn.2) Saul Purton – Algal chloroplast engineering: new tools Alastair W Skeffington – The Development of Genetic Tomas Morosinotto – Biotechnological optimization of

Symposium 12 Room 3

Ecology, physiology and taxonomy of freshwater phytoplankton Co-Convenors: Judita Koreiviene and Ellen van Donk

10.30-11.00	Karin Rengefors – Physical and biological dispersal barriers in bloom-forming microalgae (12Kn.1)
11.00-11.30	Dedmer B. Van de Waal – Blue-greens off balance? (12Kn.2)
11.30–11.45	Thomas Lines – Inorganic carbon acquisition characteristics of Australian freshwater
	microalgae from a subtropical reservoir (12Or.1)
11.45–12.00	Sabrina C Lachmann – Ecology matters: linking inorganic carbon acquisition to ecological
	preference in four species of microalgae (Chlorophyceae) (12Or.2)
12.00-12.15	Elly Spijkerman – Independent co-limitation for CO2 and inorganic phosphorus (12Or.3)
12.15-12.30	Ashraful Islam – Growth and physiology of toxic and non-toxic cyanobacteria in relation to
	light intensity (12Or.4)
12.30-13.30	Lunch Chablis Suite
12.50 15.50	
13.30–14.30	Poster Session (9Po.41-59, 10Po.1-16, 11Po.1-9, 12Po.1-8, 13Po.1-7, 14Po.1-9, 15Po.1-2,
13.30-14.30	16Po.1-4)
	100-1-4)
1420 1620	0 4 10 4 7 0 10 10 1 40
14.30–16.30	Continued Symposia 1, 5, 9, 12 and Student Symposium
Symposium 9	(continued) Room 1
	Algae in stressful environments in coastal systems
	Co-Convenors: Angela Wulff and Richard J Geider
14.30-14.45	Anne D Jungblut – Cyanobacteria and microbial mats in Antarctic terrestrial aquatic
14.50 14.45	ecosystems: diversity, distribution and response to environmental variables (9Or.5)
14.45 15.00	
14.45–15.00	Marco Cantonati – Benthic algae and cyanobacteria from Egyptian desert springs and wells:
	isolated, stressful, and impacted freshwater habitats (9Or.6)
15.00–15.15	Nicoletta La Rocca – Light and nutrient effects on ketocarotenoid synthesis in <i>Chodatodesmus</i>
	australis (9Or.7)
15.15–15.30	Alena Lukešová – Succession of algal and cyanobacterial communities after glacier retreats in
	alpine - high arctic climatic zones in Northern Europe (9Or.8)
15.30-15.45	Eugen Rott – Endolithic cyanobacteria communities within episodically dry waterfall tufa in a
	southern-central alpine dry valley (Vinschgau, European Alps) (9Or.9)
15.45-16.00	Siba P Adhikary – Biodiversity of stress tolerant cyanobacteria on exposed surfaces of
	monuments of cultural heritage, their biodeteriogenic activity and possible control for
	conservation (90r.10)
16.00–16.15	
10.00-10.13	Johann Lavaud – Response of benthic diatoms inhabiting intertidal flats to environmental
1615 1600	stresses (90r.11)
16.15–16.30	João Serôdio – Minimizing excess light absorption by benthic diatoms: comparative kinetics of
	vertical migration and non-photochemical quenching (9Or.12)
	Room 2
	Student Symposium
	Co-Convenors: Anique Stecher and Chris Williamson
14.30-15.00	Angela Falciatore – Careers in phycology
15.00-15.30	Claire Gachon – EU funding
15.30–16.00	Michele Stanley – Linking academia with applied phycology
10.00	

Symposium 5 (continued) Room		oom 3
	Phylogenomics: new approaches to solving old problems in algal evolution Co-Convenors: Anna Karnkowska and John Archibald	
14.30–14.45	Marie Pažoutová – Whole Genome Sequencing of the Antarctic Green Alga <i>Prasiola crisp</i> (5Or.7)	ра
14.45–15.00	Pilar Díaz-Tapia – Tackling rapid radiations with chloroplast phylogenomics in the Rhodomelaceae (5Or.8)	
15.00–15.15 15.15–15.30	Joana F Costa – Phylogenomics of the red algal order Nemaliales (50r.9) Linda K Medlin – Secondary structure alignment and multiple outgroups confirm the monophyly of the diatom classes using SSU RNA genes (50r.10)	
Symposium 1	(continued)	oom 3
	Algal diversity and species delimitation: new tools, new insights Co-Convenors: Frederik Leliaert and David G Mann	
15.30–15.45 15.45–16.00	Juliet Brodie – Ripples of the past: how much endemism is there in seaweeds? (10r.12) Ricardo T Pereyra – Depauperate environments: cradle of speciation or evolutionary dead (10r.13)	ends'
16.00–16.15	Olivier De Clerck – Matching names and clades in the brown algal genus <i>Lobophora</i> (Dictyotales, Phaeophyceae): an effort to integrate type specimens in modern taxonomy (10r.14)	
16.15–16.30	Wiebe HCF Kooistra – Biodiversity in the planktonic diatom family Chaetocerotaceae (10)r.15)
16.30–17.00	Coffee/Tea Break	
Symposium 9	(continued)	oom 1
	Algae in stressful environments in coastal systems Co-Convenors: Angela Wulff and Richard J Geider	
17.00–17.15	Andrew Want – Fifty years after Powell: the distribution of <i>Fucus distichus anceps</i> on the extreme exposed rocky shores of Orkney and its role as an indicator species. (9Or.13)	
17.15–17.30	Thierry Tonon – Comparative analysis of marine and freshwater brown algae: insights into biology and evolution of an extremophile Ectocarpus (9Or.14)	the
17.30–17.45	Frauke Pescheck – How can <i>Ulva intestinalis</i> resist the sunlight while floating on the sea surface? (90r.15)	
17.45–18.00	Pamela A Fernandez – The physiological responses of giant kelp <i>Macrocystis pyrifera</i> to cacidification are modulated by internal nitrogen status. (9Or.16)	ocean

Ecology, physiology and taxonomy of freshwater phytoplankton

Co-Convenors: Judita Koreiviene and Ellen van Donk

17.00-17.15	Elliot Shubert – Using correspondence analysis to determine relationships between abiotic
	factors and the density of <i>Desmodesmus</i> species in Polish lakes (12Or.5)
17.15-17.30	Tamar Zohary – Seasonality of intra-specific cell size in the phytoplankton of Lake Kinneret
	(12Or.6)
17.30-17.45	Franz Goecke – On the effect of rare earth elements on microalgae: pollutants and growth
	stimulants (12Or.7)
17.45-18.00	Yvonne Němcová – Silica-scaled chrysophytes on the salinity gradient (12Or.8)

Symposium 1 (continued)

Room 3

Algal diversity and species delimitation: new tools, new insights

Co-Convenors: Frederik Leliaert and David G Mann

17.00-17.15	Nataliya Rybalka – Microalgae communities in Antarctic soils: changes along soil
	developmental stages and testing for geographical distribution (10r.16)
17.15-17.30	Sophie Steinhagen – Ulvales on German Baltic and North Sea coasts: About cryptic, alien and
	lost species (1Or.17)
17.30-17.45	Fabio Rindi – Old and new problems in the circumscription of Mediterranean species of
	Lithophyllum (Corallinales, Rhodophyta) (10r.18)
17.45-18.00	Hiroshi Kawai - Taxonomic revision of Papenfussiella species in the Northern Hemisphere
	(1Or.19)
18.00-18.15	Orlando Necchi Jr – Revision of the section <i>Macrospora</i> Kumano of the genus
	Batrachospermum (Rhodophyta, Batrachospermales) (10r.20)

20:00- Conference Banquet

Main Hall

		Friday, 9 August 2015	
8.25–8.30 9.00–10.00	General announcements Plenary Lecture		Main Hall

Ester A Serrão

Extant or extinct tipping points – climate changes drive genetic diversity and dynamics of marine forests

10:00-10:30 Coffee/Tea Break

10.30–12.30 **Symposia 13, 14 and 15**

Symposium 13: Room 1

Omics and genetic resources towards algal domestication

Co-Convenors: Claire Gachon and J. Mark Cock

10.30–11.00	Nicolas Blouin – The <i>Porphyra umbilicalis</i> genome: Studies on the path from genome to
	grocery store (13Kn.1)
11.00-11.30	Gwang Hoon Kim – Omics in deciphering the evolutionary warfare between <i>Pyropia</i> and its
	pathogens (13Kn.2)
11.30-12.00	Duan Delin – Genome structure characterization of genome structure characterization of
	Saccharina japonica (13Kn.3)
12.00-12.30	Marie-Laure Guillemin - The domestication process in the red alga Gracilaria chilensis: rapid
	changes observed after only 30 years of intensive farming (13Kn.4)

Symposium 14: Room 2

The fate of our marine forests in a changing ocean (xx)

Co-Convenors: Myriam Valero and Francisco Arenas

- 10.30–11.00 Dan A. Smale The structure and functioning of kelp forest ecosystems under rapid environmental change (14Kn.1)
 11.00–11.30 Marine Robuchon Studying biodiversity by an integrative approach of population genetics and community ecology: a way to better predict the fate of our marine forests in a changing ocean? (14Kn.2)
 11.30–12.00 Brezo Martínez Combining knowledge on thermal niches to species distribution models in geographical projections in a changing ocean (14Kn.3)
 12.00–12.15 Inka Bartsch Changes in kelp forest biomass and depth distribution at Kongsfjorden (Spitsbergen) between 1996/98 and 2012-2014 reflect Arctic warming (14Or.1)
- 12.15–12.30 Thierry Thibaud Loss of the habitat-forming *Cystoseira mediterranea* at its northern-limit of distribution in the Mediterranean Sea (14Or.2)

Symposium 15: Room 3

Algae and Signalling - regulation of processes from cell to globe

Co-Convenors: Michael Steinke and Georg Pohnert

- 10.30–11.00 Eric Selander Lipid signaling in plankton communities (15Kn.1)
- 11.00–11.15 Philippe Potin Expression of a PKSIII gene and soluble phlorotannin synthesis in response to abiotic and biotic stresses in the brown alga *Fucus vesiculosus*: constitutive versus inductive protection. (15Or.1)
- 11.15–11.30 Florian Weinberger Innate immunity regulates the excretion of anti-settlement compounds by Fucus vesiculosus and other brown seaweeds (15Or.2)
- 11.30–12.00 Assaf Vardi A chemical arms race mediates host-virus interactions during algal blooms in the ocean (15Kn.2)
- 12.00–12.15 Anne Weiss Signalling in bacterial-macroalgal symbiosis: Chemotaxis is involved in biofilm formation by *Roseobacter* sp. and *Ulva mutabilis* (Chlorophyta) (15Or.3)
- 12.15–12.30 Michael Steinke Environmental Volabolomics: Deciphering the chemical language that shapes aquatic health (15Or.4)

12.30–13.30 Lunch Chablis Suite

Continued Symposia 9, 10, 14, 16

Symposium 9 (continued)

Room 1

Algae in stressful environments in coastal systems

Co-Convenors: Angela Wulff and Richard J. Geider

13.30–13.45 Haim Treves – The alga that never read the literature - Fastest growing, desiccation and photodamage tolerant alga, isolated from desert crust (9Or.17)
 13.45–14.00 Angela Wulff – Autotrophs in Antarctic meltwater microbial mats - the tough survivors (9Or.18)
 14.00–14.15 Emmanuelle Tastard – Expression of genetic transposable elements under thermal stress in the diatom *Phaeodactylum tricornutum* (9Or.19)
 14.15–14.30 Lenka Caisová – A new green algal lineage isolated from a volcanic canyon in the Canary

Symposium 14 (continued)

Islands (9Or.20)

Room 1

The fate of our marine forests in a changing ocean

Co-Convenors: Myriam Valero and Francisco Arenas

14.30–14.45 Chris Yesson – Can we monitor changes in coastal habitats from our desktops? (14Or.3)
 14.45–15.00 Balsam Al-Janabi – Tolerance to climate change of early life-stage *Fucus vesiculosus* varies among sibling groups (14Or.4)
 15.00–15.15 Sandra Heinrich – Transcriptomic acclimation in *Desmarestia anceps* (14Or.5)
 15.15–15.30 Luisa Mangialajo – Recovery of large brown algae forests after destructive fishery: ecological restoration insights (14Or.6)
 15.30–15.45 Emma Cebrian Pujol – New method for restoring degraded *Cystoseira* forests (14Or.7)
 15.45–16.00 Catriona L Hurd – Slow flow habitats as refugia for coralline algae from ocean acidification (14Or.8)

Symposium 10 (continued)

Room 2

Global change and algal assemblages: the fate of our seas

Co-Convenors: Gwenael Piganeau, Nessa O'Connor and Laura Airoldi

13.30–13.45 Francisco Arenas – Warm & Acid: Changes on species interactions in the new ocean (10Or.5)
 13.45–14.00 Ljiljana Iveša– Recovery of *Cystoseira* forests along the west Istrian Coast (northern Adriatic Sea, Croatia) (10Or.6)
 14.00–14.15 Catharina Alves-de-Souza – Temporal beta-diversity of small eukaryote phytoplankton in an eutrophized tropical coastal lagoon (10Or.7)
 14.15–14.30 Angelika Graiff – Effects of warming and acidification on a benthic community in the Baltic Sea – Kiel Benthocosms (10Or.8)
 14.30–14.45 Guillermo Diaz-Pulido – Recent progress in the physiology, mineralogy and ecology of

coralline algae in the Great Barrier Reef and impacts of future ocean change (10Or.9)

14.45-15.00	David G Mann – Are there any alien marine diatoms? (10Or.10)
15.00-15.15	Frithjof C Küpper – Exploration of Arctic and Antarctic seaweed biodiversity in the context of
	polar climate change (10Or.11)
15.15-15.30	Marina Montresor- Temporal and spatial population structure and genetic diversity during a
	bloom of the marine diatom Pseudo-nitzschia multistriata (10Or.12)
15.30-15.45	Sonia Blanco - Iron limitation in the cyanobacteria Synechococcus sp.: from gene expression to
	physiological responses (10Or.13)
15.45-16.00	Klervi Le Lann – Biochemical adaptation of the invasive <i>Gracilaria vermiculophylla</i> along a
	gradient of temperature, from Portugal to Norway (10Or.14)

Symposium 16: Room 3

Special Symposium "Phycomorph": Morphogenesis and Development of Macroalgae Convenor: Bénédicte Charrier

13.30-14.00	Thomas Wichard – Exploring bacteria-induced morphogenesis in the green macroalga <i>Ulva</i>
	(Chlorophyta): A combined chemical and genetic approach (16Kn.1)
14.00-14.30	Rafael R Robaina- Plant hormones and reproduction in red seaweeds: from the chemicals to
	transcriptomics (16Kn.2)
14.30-15.00	Dan Chitwood – Comparative analysis of <i>Caulerpa</i> and land plant transcriptomes: implications
	for Kaplan's organismal theory (16Kn.3)
15.00-15.30	Silje Forbord – Successful seaweed aquaculture based on fundamental biological knowledge -
	what are the main challenges? (16Kn.4)
15.30-16.00	Bénédicte Charrier – Macroalgal development and morphogenesis: deploying a new
	international initiative to advance knowledge and transfer (16Kn.5)

16.00–16.30 Coffee/Tea Break

Closing Ceremony Main Hall

Co-Presenters: Jane Lewis, Elliot Shubert, Olivier De Clerck, Peter Kroth, Gil Martin & Christos Katsaros

16.30–16.45 Burkhard Becker – A scientific wrap-up 16.45– Concluding remarks and announcements