

## Programme

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### EPC5 Programme

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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 requested not to take photographs in the lecture rooms. If you are interested in data presented by the presenter, please speak to them directly.

The code for Symposia, Oral Papers and Posters is: the first number refers to the Symposium number; the letter refers to location of the presentation (**A** = Delphi Amphitheatre (Plenary, Symposia and Oral); **B** = Nafsika Room (Symposia and Oral Papers); **C** = Nefeli Room (Oral Papers) and **D** = Jupiter Foyer (Posters) and the last number is the number of the presentation.

<b>Sunday, 4 September 2011</b>
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17.00 – 22.00	<b>Registration</b>	<b>Lobby area</b>
20.30 – 22.30	<b>Welcome Reception</b>	<b>Lobby area</b>

<b>Monday 5 September 2011</b>
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8.00 – 12.00	<b>Registration</b>	<b>Lobby area</b>
8.30 – 9.00	<b>Opening Ceremony</b> Co-Presenters: Christos Katsaros and Elliot Shubert	<b>Delphi Amphitheatre</b>
9.00 – 10.00	<b>Plenary</b>	<b>Delphi Amphitheatre</b>
	<b>Algal Changes in the Mediterranean Sea: Drivers, Effects and Policies</b> Sotiris Orfanidis	
10.00 – 13.00	<b>Invited Symposia 1 and 2</b>	
	<b>Symposium 1:</b>	<b>Delphi Amphitheatre</b>
	<b>Environmental Stresses on Coastal Marine Algae (1A.1-5)</b> Co-Convenors: Murray Brown and Christian Wiencke	

## *Programme*

- 10.00 – 10.30 Kai Bischof - Cold-water macroalgae under a changing radiation and temperature regime: physiological responses and implications to community structure (1A.1)
- 10.30 – 11.00 Angela Wulff – Global climate change - What will happen to microphytobenthic communities? (1A.2)
- 11.00 – 11.30 Coffee/Tea Break** **Delphi Foyer**
- 11.30 – 12.00 Francisco J. L. Gordillo - Responses of marine seaweeds to ocean acidification in combination with other abiotic factors (1A.3)
- 12.00 – 12.30 Antonella Penna - Dynamics of harmful algal blooms in the Mediterranean Sea (1A.4)
- 12.30 – 13.00 Gareth A. Pearson - Evolutionary history, selection and adaptive divergence in ecologically similar canopy-forming brown algae in the Atlantic (1A.5)

## **Symposium 2:**

**Nafsika Room**

### **Algal Biotechnology (2B.1-5)**

Co-Convenors: Vince Ördög and Otto Pulz

- 10.00 – 10.30 D.M.M. Kleinegris - AlgaePARC: Facing the challenges of microalgae mass production (2B.1)
- 10.30 – 11.00 Emilio Molina Grima – Expectations and challenges of microalgal-derived biofuels (2B.2)
- 11.00 – 11.30 Coffee/Tea Break** **Delphi Foyer**
- 11.30 – 12.00 Vítor Verdelho Vieira - Beyond biofuels from microalgae: Complimentary options and strategies (2B.3)
- 12.00 – 12.30 Geoffrey A. Codd - Algal and cyanobacterial toxins: Essential awareness and biotechnological opportunities (2B.4)
- 12.30 – 13.00 Miroslav Strnad - Plant hormones in algae - Potential use in agriculture (2B.5)
- 13.00 – 14.30 Lunch (on your own)

14.30 – 18.10 **Oral Papers (1A.1-10)**

**Delphi Amphitheatre**

### **Environmental Stresses on Coastal Marine Algae**

Co-Chairs: Inka Bartsch and Mark Olischläger

- 14.30 – 14.50 F. Arenas - Impact & feedbacks of invasion and climate change on algal assemblages: Experimental approaches (1A.1)
- 14.50 – 15.10 Inka Bartsch - North Sea summer water temperatures affect reproduction of *Laminaria digitata* (Phaeophyceae) (1A.2)
- 15.10 – 15.30 Udo Nitschke - Photosynthesis of emersed Phaeophyceae and artifacts generated by rapid light curves (1A.3)

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- 15.30 – 15.50 Guillermo Diaz-Pulido - Variability in the effects of ocean acidification on coral reef macroalgae (1A.4)
- 15.50 – 16.10 Félix L. Figueroa - Impact of UV radiation on intertidal macroalgae in a scenario of ozone layer recovery: Functional indicators (1A.5)
- 16.10 – 16.30 Franz Goecke - bacteria associations with co-occurring macroalgae: Host, epiphyte and environmental factors (1A.6)
- 16.30 – 16.50 Coffee/Tea Break** **Delphi Foyer**
- 16.50 – 17.10 Laurie C. Hofmann - Responses of coralline macroalgal communities to increasing CO<sub>2</sub>: A mesocosm investigation (1A.7)
- 17.10 – 17.30 Mark Olischläger - The effects of elevated atmospheric CO<sub>2</sub> concentrations on growth and physiology of *Ulva lactuca* (1A.8)
- 17.30 – 17.50 Sorcha Ní Longphuirt - The influence of increased atmospheric CO<sub>2</sub> on the primary production of exposed macroalgae over the annual cycle (1A.9)
- 17.50 – 18.10 Elena Moreira - Most intertidal Antarctic macroalgae show high resilience to ocean acidification (1A.10)

- 14.30 – 18.10 **Oral Papers** (1B.1-10) **Nafsika Room**

### **Environmental Stresses on Coastal Marine Algae** Co-Chairs: Jacco C. Kromkamp and Amanda Pantorno

- 14.30 – 14.50 Jacco C. Kromkamp – A comparison between primary production estimates based on FRR fluorometry and C-fixation (1B.1)
- 14.50 – 15.10 Greg Silsbe - Diel patterns of photosynthetic electron transport rates in European coastal waters (1B.2)
- 15.10 – 15.30 Evelyn Lawrenz - Towards predicting the minimum quantum requirement for carbon fixation in European seas (1B.3)
- 15.30 – 15.50 Ondřej Prášil - Photosynthesis and photoacclimation in apicomplexan alga *Chromera velia* (1B.4)
- 15.50 – 16.10 Stéphanie Cohu - Development of the benthic toxic dinoflagellate *Ostreopsis* cf. *ovata* in the NW Mediterranean Sea (1B.5)
- 16.10 – 16.30 Akira Kuwata - Roles and ecophysiological aspects of resting stages of a marine planktonic coastal diatom (1B.6)
- 16.30 – 16.50 Coffee/Tea Break** **Delphi Foyer**
- 16.50 – 17.10 Amanda Pantorno - Will climate change impact upon the sinking velocity of marine algae? (1B.7)
- 17.10 – 17.30 Cecilia Totti - Allelopathic interactions between the HAB dinoflagellate *Ostreopsis* cf. *ovata* and macroalgal hosts (1B.8)
- 17.30 – 17.50 Maria Söderberg - Climate change – Good news for filamentous Cyanobacteria? (1B.9)
- 17.50 – 18.10 Nahiara Muguerza - Structural changes in subtidal vegetation of the Basque coast: A consequence of climate change? (1B.10)

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14.30 – 18.30 **Oral Papers** (2C.1-9)

**Nefeli Room**

### **Algal Biotechnology**

Co-Chairs: Maria Belegratis and Dieter Hanelt

14.30 – 14.50 Roberto T. Abdala-Díaz – *Chlorella fusca* growth in swine wastewater effluent for the production of biofuels (2C.1)

14.50 – 15.10 Maria R. Belegratis - Rapid prototyping of artificial biomimetic diatom frustules by 3D laser lithography (2C.2)

15.10 – 15.30 Jong-il Choi - Antioxidant effect of *Spirogyra varians* mutant induced by high dose gamma irradiation (2C.3)

15.30 – 15.50 G. Id Daoud - Biological activity and chemical fingerprinting of microalgal extracts for antifouling applications (2C.4)

15.50 – 16.10 John G. Day - Algal biofuels: Biological bottlenecks (2C.5)

16.10 – 16.30 Marie-Laure Guillemin - Testing for inbreeding effects on the fitness of the haploid-diploid red alga *Gracilaria chilensis* (2C.6)

**16.30 – 16.50 Coffee/Tea Break**

**Delphi Foyer**

16.50 – 17.10 Choul-Gyun Lee - Possibilities and limits in biofuels production from microalgae (2C.7)

17.10 – 17.30 Hak-Jyung Lee - Proteomic analysis of *Porphyra lucasii* mutant induced by gamma ray irradiation (2C.8)

17.30 – 17.50 Dieter Hanelt - Light a limiting factor in photobioreactors? Photosynthesis response under variable light conditions (2C.9)

18.30 – 19.30 **Posters** (1D.1- 25; 2D.1-27)

**Jupiter Foyer**

### **Environmental Stresses on Coastal Marine Algae & Algal Biotechnology**

**Tuesday, 6 September 2011**

9.00 – 10.00 **Plenary**

**Delphi Amphitheatre**

**Diversity and Taxonomy of Seaweeds: An Evolutionary Perspective**  
Heroen Verbruggen

10.00 – 13.00 **Invited Symposia 3 and 4**

**Symposium 3:**

**Delphi Amphitheatre**

**DNA Taxonomy: Bar Coding and Species Delineation** (3A.1-5)  
Co-Convenors: Kerstin Hoef-Emden and Nina Lundholm

10.00 – 10.30 Frederik Leliaert - DNA-based species delimitation in algae (3A.1)

## Programme

- 10.30 – 11.00 Line Le Gall – Advantages, limitations and challenges in developing DNA-barcoding for algae (3A.2)
- 11.00 – 11.30 Coffee/Tea Break** **Delphi Foyer**
- 11.30 – 12.00 Matthias Wolf - The ITS2 database: Sequence-structure phylogenetics and distinguishing species (3A.3)
- 12.00 – 12.30 Rowena F. Stern - Making sense of dinoflagellate diversity using DNA barcoding (3A.4)
- 12.30 – 13.00 Lucien Hoffmann - Cyanobacterial genomics: Advances for species concepts and taxonomy (3A.5)

## Symposium 4:

**Nafsika Room**

### **Cell Biology and Molecular Physiology of Algae (4B.1-5)**

Co-Convenors: Peter Kroth and Ursula Luetz-Meindl

- 10.00 – 10.30 Brigitte Meunier-Gontero - Regulation of Calvin Cycle enzymes through protein-protein interactions in algae (4B.1)
- 10.30 – 11.00 Colin Brownlee – Ion channels, signalling and cellular function in algae: Clues on the origins of excitability in eukaryotes (4B.2)
- 11.00 – 11.30 Coffee/Tea Break** **Delphi Foyer**
- 11.30 – 12.00 Yusuke Matsuda - Molecular mechanisms of CO<sub>2</sub> sensing and signaling in marine diatoms (4B.3)
- 12.00 – 12.30 Karin Komsic-Buchmann - The exocyst complex is involved in contractile vacuole function in *Chlamydomonas reinhardtii* (4B.4)
- 12.30 – 13.00 María Segovia - Cell death or survival in the unicellular chlorophyte *Dunaliella*: The role of metacaspases and caspase-like proteases (4B.5)
- 13.00 – 14.30 Lunch (on your own)
- 14.10 – 14.25 **Global Seaweed Network** (Juliet Brodie) **Lounge off Main Lobby**
- 14.30 – 18.30 **Oral Papers (3A.1-11)** **Delphi Amphitheatre**

### **DNA Taxonomy: Bar Coding and Species Delineation**

Co-Chairs: Juan M. Lopez-Bautista and Noemí Sánchez

- 14.30 – 14.50 Lenka Caisová - Is ITS2 linked to speciation? A detailed analysis of ITS2 evolution in the Ulvales (3A.1)
- 14.50 – 15.10 Manojit Debnath - Study of two stigonematalean cyanobacteria using polyphasic approach (3A.2)
- 15.10 – 15.30 Jazmin Hernandez-Kantun - Molecular phylogeny and phylogeography of maërl-forming corallines in northern Europe (3A.3)
- 15.30 – 15.50 Kerstin Hoef-Emden - Efficiency and accuracy of DNA barcoding in cryptophytes (3A.4)
- 15.50 – 16.10 Juan M. Lopez-Bautista - *Grateloupia taiwanensis*, a non-indigenous seaweed species in the Gulf of Mexico (3A.5)
- 16.10 – 16.30 Antonio Manghisi - Diversity of Mediterranean Sebdeniales assessed by DNA barcoding and phylogenetic inferences (3A.6)

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- 16.30 – 16.50 **Coffee/Tea Break** **Delphi Foyer**  
16.50 – 17.10 Lydiane Mattio - Reappraisal of the *Sargassum* (Fucales) diversity and distribution on the southwest Indian Ocean (3A.7)  
17.10 – 17.30 Yvonne Nemcova - Eustigmatophyceae – Phylogenetic and ultrastructural diversity (3A.8)  
17.30 – 17.50 Manuela I. Parente - A DNA barcode library for crustose brown algal species (3A.9)  
17.50 – 18.10 Nataliya Rybalka - Testing for species and genus concepts and endemism in filamentous Xanthophyceae (Strameopiles) (3A.10)  
18.10 – 18.30 Noemí Sánchez - A new cryptic species in the Mediterranean Sea: Molecular and morphological insights into bladed species of the Bangiales (3A.11)

- 14.30 – 18.30 **Oral Papers** (4B.1-10) **Nafsika Room**

### **Cell Biology and Molecular Physiology of Algae**

Co-Chairs: Stefanie Volland and Stef A. van Bergeijk

- 14.30 – 14.50 L. Hernández Javier – New approach to evaluating thyroid hormones presence in marine microalgae using HPLC-MS (4B.1)  
14.50 – 15.10 Andreas Holzinger- Effects of osmotic stress in the alpine aeroterrestrial green alga, *Klebsormidium* (Streptophyta) (4B.2)  
15.10 – 15.30 Giorgio Honsell - *Ostreopsis* cf. *ovata* (Dinophyceae): Toxin content, immunocytochemistry and ultrastructure (4B.3)  
15.30 – 15.50 Stefanie Volland - Cell physiological and ultrastructural response of the model system *Micrasterias* to chromium (4B.4)  
15.50 – 16.10 Erik-jan Malta - Assessing quality of coastal waters using opportunistic macroalgae, experiences from southwest Europe (4B.5)  
16.10 – 16.30 Daniel Remias - Phenolic pigments of extremophilic Zygnematophyceae: Structure determination and ecological insights (4B.6)  
16.30 – 16.50 **Coffee/Tea Break** **Delphi Foyer**  
16.50 – 17.10 Aaron Kaplan - Enslavement in the water body: The biological role of a cyanobacterial toxin (4B.7)  
17.10 – 17.30 João Silva -Seasonal variations of *Phymatolithon calcareum* (mäerl) photosynthesis in southern Portugal (4B.8)  
17.30 – 17.50 Wendy A Stirk - Endogenous cytokinins in synchronized *Chlorella* cultures in relation to light and the cell cycle (4B.9)  
17.50 – 18.10 Stef A. van Bergeijk - Shedding some light on the uptake mechanism of iodide in marine microalgae (4B.10)

- 14.30 – 18.30 **Oral Papers** (1C.1-9) **Nefeli Room**

### **Environmental Stresses on Coastal Marine Algae**

Co-Chairs: Marianela Zanolla and Carol Thornber

## Programme

- 14.30 – 14.50 Ergün Taşkın – The Mediterranean *Cystoseira* species with first report of *Cystoseira spinosa* var. *compressa* (Ercegovic) Cormaci *et al.* from Turkey (1C.1)
- 14.50 – 15.10 Thierry Thibaut - Evaluation of the Fucales populations on the French Mediterranean coast (1C.2)
- 15.10 – 15.30 Pauline Robvieux - Analysis of the diversity and the genetic structure of *Cystoseira amentacea* var. *stricta* (Fucales) (1C.3)
- 15.30 – 15.50 Konstantinos Tsiamis - Long-term changes of marine macroalgae in a Mediterranean embayment: Saronikos Gulf (Greece) (1C.4)
- 15.50 – 16.10 Rosa M. Viejo - Drastic decline in the abundance of a canopy-forming seaweed at its southern range limit: Responses of the whole assemblage (1C.5)
- 16.10 – 16.30 Marianela Zanolla - The seasonal cycle of *Asparagopsis taxiformis* (Rhodophyta, Bonnemaisoniaceae): Key aspects of the ecology and physiology of the most invasive macroalga in southern Spain (1C.6)
- 16.30 – 16.50 Coffee/Tea Break** **Delphi Foyer**
- 16.50 – 17.10 Lucia Porzio - Responses of a Mediterranean macroalgal community to ocean acidification (1C.7)
- 17.10 – 17.30 Carol Thornber - Environmental impacts on the formation of macroalgal blooms in a USA large coastal estuary (1C.8)
- 17.30 – 17.50 Michael Y. Roleda - Ocean acidification and seaweed reproduction: increased CO<sub>2</sub> ameliorates the negative effect of lowered pH on spore germination in giant kelp *Macrocystis pyrifera* (1C.9)
- 18.30 – 19.30 **Posters** (3D.1-8; 4D.1-13) **Jupiter Foyer**

### **DNA Taxonomy: Bar Coding and Species Delineation & Cell Biology and Molecular Physiology of Algae**

**Wednesday, 7 September 2011**

**09.00** **Bus departure from Rodos Palace for the mid-congress excursion to Lindos or Symi island; Diving excursion** (see [www.epcv.gr](http://www.epcv.gr))

**Thursday, 8 September 2011**

9.00 – 10.00 **Plenary** **Delphi Amphitheatre**

**Evolution and Development in Microalgae -  
Have Gene Sequences Led Us Down a Blind Alley?**  
Eileen J Cox

10.00 – 13.00 **Invited Symposia 5 and 6**

## Programme

### Symposium 5:

Delphi Amphitheatre

#### **Molecular and Cellular Responses in Algae Induced by Changes in the Environment (5A.1-5)**

Co-Convenors: Debora Iglesias-Rodriguez and Antonio Quesada

- 10.00 – 10.30 Assaf Vardi - Rewiring sphingolipid metabolic pathways during host-virus interactions in marine microalgae (5A.1)
- 10.30 – 11.00 David J. Suggett – Physiological signatures of microalgal photo-acclimation and - Adaptation to environmental change (5A.2)
- 11.00 – 11.30 Coffee/Tea Break** **Delphi Foyer**
- 11.30 – 12.00 Mario Lebrato - Elemental carbonate chemistry selectivity in coccolithophores in present and future oceans (5A.3)
- 12.00 – 12.30 M. Debora Iglesias-Rodriguez - The future of marine calcification: Observations of acclimation and adaptation to past and future marine chemistry (5A.4)
- 12.30 – 13.00 Antonio Quesada - The effects of a temperature increase on cyanobacterial ecology and cyanotoxins production: invasions and ecophysiological patterns (5A.5)

### Symposium 6:

Nafsika Room

#### **Genetics of Speciation (Ecological and Molecular) (6B.1-5)**

Co-Convenors: Olivier de Clerck and Gareth Pearson

- 10.00 – 10.30 Koen Sabbe - Speciation in diatoms: Recent insights, new paradigms? (6B.1)
- 10.30 – 11.00 Susana Coelho – The private life of *Ectocarpus*: Genetics of sex and alternation of generations (6B.2)
- 11.00 – 11.30 Coffee/Tea Break** **Delphi Foyer**
- 11.30 – 12.00 Ester A. Serrão - Genetic signatures of evolutionary dynamics in Fucaceae and *Fucus*: The ghost of range shifts and hybridization past (6B.3)
- 12.00 – 12.30 Christine Maggs - Speciation in red algae: A phylogeographic perspective (6B.4)
- 12.30 – 13.00 Nathalie Simon - Picoplankton speciation (6B.5)
- 13.00 – 14.30 Lunch (on your own)
- 14.30 – 18.30 **Oral Papers (5A.1-11)** **Delphi Amphitheatre**

#### **Molecular and cellular responses in algae induced by changes in the environment**

Co-Chairs: John Beardall and Gemma Kulk

- 14.30 – 14.50 John Beardall - Effects of environmental factors on growth and DMSP production of the coccolithophore *Gephyrocapsa oceanica* (5A.1)

## Programme

- 14.50 – 15.10 Matthias Buhmann - Bacteria influence diatom biofilm formation (5A.2)
- 15.10 – 15.30 Visitación Conforti - Cellular changes in euglenoids species induced by medium enriched with organic matter (5A.3)
- 15.30 – 15.50 Daryl P. Holland - How climate change will affect the growth and physiology of *Cylindrospermopsis raciborskii* (5A.4)
- 15.50 – 16.10 Ulf Karsten - “Dry and high” – Ecophysiological performance of filamentous green algae from alpine soil crusts (5A.5)
- 16.10 – 16.30 Shigeyuki Kawano - Microstructure of the astaxanthin accumulating cell induced by the light stress in *Haematococcus* (5A.6)
- 16.30 – 16.50 **Coffee/Tea Break** **Delphi Foyer**
- 16.50 – 17.10 Gemma Kulk - Distinct differences in photoacclimation potential between prokaryotic and eukaryotic oceanic phytoplankton (5A.7)
- 17.10 – 17.30 Paulina Lemke - Salinity-induced changes in morphology and ecophysiological properties of Baltic diatoms (5A.8)
- 17.30 – 17.50 Thomas Leya - CCCRYO - Culture Collection of Cryophilic Algae: A bioresource for industrially relevant metabolites (5A.9)
- 17.50 – 18.10 Nina Lundholm - Genetic variation in the last 100 years –Revived *Pentaparsodinium dalei* cysts from marine sediments (5A.10)
- 18.10 – 18.30 María L. Parages - Phosphorylation of mapks mediate the response of arctic algae to increased temperature and UV radiation (5A.11)
- 14.30 – 18.30 **Oral Papers** (5B.1-11) **Nafsika Room**

### **Molecular and Cellular Responses in Algae Induced by Changes in the Environment**

Co-Chairs: Janet E. Kübler and Mario Giordano

- 14.30 – 14.50 Dimitris Petroustos – The chloroplast calcium sensor CAS is required for photoprotection in *Chlamydomonas reinhardtii* (5B.1)
- 14.50 – 15.10 Willem van de Poll - Chlorophyll fluorescence signals from the north Atlantic Ocean as regulated by phytoplankton composition and excess irradiance exposure (5B.2)
- 15.10 – 15.30 Thomas Wichard - Chemosphere of the marine green alga *Ulva*: induction of algal morphogenesis by bacterial compounds (5B.3)
- 15.30 – 15.50 Johann Lavaud - Diatom photophysiology: Regulation and Ecophysiology (5B.4)
- 15.50 – 16.10 Candela García-Gómez - How does the unicellular chlorophyte *Dunaliella tertiolecta* cope with DNA damage under chronic UV exposure? (5B.5)
- 16.10 – 16.30 Janet E. Kübler - Diploidy and genetic diversity in asexual life histories of *Mastocarpus papillatus* (5B.6)
- 16.30 – 16.50 **Coffee/Tea Break** **Delphi Foyer**
- 16.50 – 17.10 Giuliana d’Ippolito - Oxylinin pathways in marine diatoms: Regulation and ecological role (5B.7)
- 17.10 – 17.30 Mario Giordano - Did changes in  $\text{SO}_4^{2-}$  availability facilitate the expansion of chlorophyll a+c algae in the oceans? (5B.8)

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- 17.30 – 17.50 Sandra Heinrich - Light and temperature stress induced gene expression in *Saccharina latissima* (Spitsbergen) (5B.9)  
17.50 – 18.10 Antonios Zambounis - Molecular studies of oxylipins as defense inducers in marine brown algae (5B.10)  
18.10 – 18.30 Johanna Bergkvist - Size matters – Grazer induced chain length plasticity reduces grazing risk in a marine diatom (5B.11)

14.30 – 18.30 **Oral Papers** (6C.1-9) **Nefeli Room**

### **Genetics of Speciation (Ecological and Molecular)**

Co-Chairs: Marina Aboal and David Mann

- 14.30 – 14.50 Marina Aboal – Morphology, fine structure, life cycle and phylogenetic analysis of *Phyllosiphon arisari* (*Phyllosiphonaceae*), a siphonous parasitic green alga (6C.1)  
14.50 – 15.10 Vasco Giovagnetti - Niche adaptation and ecophysiology in the picoplanktonic diatoms *Minutocellus* sp. RCC967 and RCC703 (6C.2)  
15.10 – 15.30 Fabien Jouenne - *Prasinoderma singularis* sp. nov. (Prasinophyceae, Chlorophyta), a solitary coccoid prasinophyte from the southeast Pacific Ocean (6C.3)  
15.30 – 15.50 Linda K. Medlin - Microsatellite markers for *Phaeocystis antarctica*: Assessment of population structure and physiological responses (6C.4)  
15.50 – 16.10 Myriam Valero - The role of haploid and diploid phases in kelp speciation (6C.5)  
16.10 – 16.30 Siv Huseby - Functional diversity in cryptic species of *Chaetoceros socialis* Lauder (6C.6)  
**16.30 – 16.50 Coffee/Tea Break** **Delphi Foyer**  
16.50 – 17.10 David G. Mann - Microspeciation and evolution of automixis in diatoms (6C.7)  
17.10 – 17.30 Juliet Brodie - Sorting out the locals: Biodiversity of *Porphyra sensu lato* (Bangiales, Rhodophyta) in Magellanes Region, Chile (6C.8)  
17.30 – 17.50 Pilar Díaz Tapia - A new member of Cystocloniaceae (Rhodophyta) from the Atlantic Iberian Peninsula (6C.9)  
18.30 – 19.30 **Posters** (5D.1- 23; 6D.1-4) **Jupiter Foyer**

### **Molecular and Cellular Responses in Algae Induced by Changes in the Environment & Genetics of Speciation (Ecological and Molecular)**

**Friday, 9 September 2011**

9.00 – 10.00 **Plenary** **Delphi Amphitheatre**  
**Macroalgae and Climate Change**  
Jeanine L. Olsen

## *Programme*

10.00 – 13.00 **Invited Symposia 7 and 8**

### **Symposium 7:**

**Delphi Amphitheatre**

#### **Algal Genomics (7A.1-5)**

Co-Convenors: Angela Falciatore and Hervé Moreau

- 10.00 – 10.30 J. Mark Cock - Nature, nurture and the structure of macroalgal genomes (7A.1)  
10.30 – 11.00 Nigel Grimsley – Diversity of marine Prasinophyceae and associated viruses (7A.2)  
**11.00 – 11.30 Coffee/Tea Break** **Delphi Foyer**  
11.30 – 12.00 Chris Bowler - Genome-enabled explorations of evolutionary ecophysiology in marine diatoms (7A.3)  
12.00 – 12.30 Thomas Mock - Environmental and functional genomics of marine microalgae (7A.4)  
12.30 – 13.00 Klaus Valentin - The evolution of phytoplankton in the light of genomics (7A.5)

### **Symposium 8:**

**Nafsika Room**

#### **Freshwater Algal Biogeography and Biodiversity (8B.1-5)**

Co-Convenors: Maria Moustaka-Gouni and Elżbieta Wilk-Woźniak

- 10.00 – 10.30 Konstantinos Kormas - Algal biodiversity in the age of genomics and metagenomics (8B.1)  
10.30 – 11.00 Stephen C. Maberly – Patterns of biodiversity change in freshwater phytoplankton (8B.2)  
**11.00 – 11.30 Coffee/Tea Break** **Delphi Foyer**  
11.30 – 12.00 Elliot Shubert - Does phenotypic plasticity amplify the biodiversity signal? (8B.3)  
12.00 – 12.30 Thomas Friedl - Assessing distribution patterns in terrestrial algae from various habitats: A molecular approach (8B.4)  
12.30 – 13.00 Pauline Bazin - Phytoplankton diversity in estuaries under various climates: Morphologic & molecular approaches (8B.5)  
13.00 – 14.30 Lunch (on your own)

14.30 – 17.50 **Oral Papers (7A.1-9)**

**Delphi Amphitheatre**

#### **Algal Genomics**

Co-Chairs: Mónica Moniz and Assaf Sukenik

- 14.30 – 14.50 Peter G. Kroth - Metabolic reallocations in diatoms (7A.1)  
14.50 – 15.10 Maike Lorenz – A European perspective on algal resources: Biodiversity, biotechnology and beyond (7A.2)  
15.10 – 15.30 Mónica Moniz - Understanding sponges' algal communities (7A.3)

## *Programme*

- 15.30 – 15.50 Nathalie Kowalczyk - Transcriptomic analysis of life stages of the red alga *Chondrus crispus* (7A.4)  
15.50 – 16.10 Nela Rosic - Transcriptomics of the coral-algal symbiosis in response to environmental stress (7A.5)  
16.10 – 16.30 Assaf Sukenik - Genome multiplication in akinetes of *Aphanizomenon ovalisporum* (Cyanobacteria) is a survival strategy (7A.6)  
16.30 – 16.50 **Coffee/Tea Break** **Delphi Foyer**

### **Macroalgal Phylogeny, Biogeography and Phylogeography**

Co-Chairs: Olivier De Clerck & Thomas Silberfeld

- 16.50 – 17.10 Thomas Silberfeld - Understanding the evolution of pyrenoid-bearing taxa in brown algae through molecular phylogenies (7A.7)  
17.10 – 17.30 Olivier De Clerck - Historical biogeography, diversification and niche shifts of marine macroalgae (7A.8)  
17.30 – 17.50 Frédéric Mineur - Macroalgal cryptogenesis: Where are we? (7A.9)  
14.30 – 17.50 **Oral Papers** (8B.1-9) **Nafsika Room**

### **Freshwater Algal Biogeography and Biodiversity**

Co-Chairs: Morgan Vis and Fabio Rindi

- 14.30 – 14.50 Aloisie Pouličková – Complex approach to algal diversity investigation (8B.1)  
14.50 – 15.10 Fabio Rindi - Species circumscription and biogeography in filamentous green microalgae (8B.2)  
15.10 – 15.30 Helen Rosenkranz - Stressed out biofilms: The impact of two herbicides on river biofilm communities (8B.3)  
15.30 – 15.50 Pavel Škaloud - A multilocus phylogeny of the desmid, *Micrasterias*: Accelerated rate of morphological evolution in protists (8B.4)  
15.50 – 16.10 Bohuslav Uher - Subaerial Cyanobacteria and algae across central European cities (8B.5)  
16.10 – 16.30 Jana Veselá - Diversity of the diatom, *Frustulia*, in oligotrophic freshwater habitats (8B.6)  
16.30 – 16.50 **Coffee/Tea Break** **Delphi Foyer**  
16.50 – 17.10 Petr Hasler - contribution to the biology of filamentous epipellic Cyanobacteria (8B.7)  
17.10 – 17.30 Alena Lukešová - Soil algae and Cyanobacteria in post-coal mining sites in Europe and USA (8B.8)  
17.30 – 17.50 Morgan Vis - Freshwater red algae in Europe: Past, present and future (8B.9)  
14.30 – 17.50 **Oral Papers** (9C.1-9) **Nefeli Room**

### **From Molecules to Organisms**

Co-Chairs: Burkhard Becker and Eugen Rott

## *Programme*

- 14.30 – 14.50 Jiří Neustupa - Species concepts and biogeography of *Micrasterias*: How old drawings corroborate the molecular data (9C.1)
- 14.50 – 15.10 Burkhard Becker - Streptophyte algae and the evolution of embryophytes (9C.2)
- 15.10 – 15.30 Benoît Véron - A comprehensive review of Pavlovophyceae (9C.3)
- 15.30 – 15.50 Lenka Frankova - Novel endotransglycosylase activities in charophyte cell walls (9C.4)
- 15.50 – 16.10 Frithjof C. Küpper - Oomycete pathogens of marine brown algae (9C.5)
- 16.10 – 16.30 Shinya Sato - Novel sex cells in diatoms (9C.6)
- 16.30 – 16.50 Coffee/Tea Break** **Delphi Foyer**
- 16.50 – 17.10 Matteo Palmucci - Can compositional homeostasis act as a buffer against nutritional changes? (9C.7)
- 17.10 – 17.30 Eugen Rott - Diversity of calcites, microhabitats and ultrastructure of calcifying algae in alpine tufa springs (9C.8)
- 17.30 – 17.50 Jose M. Rico - Changes in kelp-dominated communities in northern Spain (9C.9)
- 17.50 – 18.50 **Posters** (7D.1- 4; 8D.1-19; 9D.1-48) **Jupiter Foyer**

**Algal Genomics  
&  
Freshwater Algal Biogeography and Biodiversity  
&  
From Molecules to Organisms**

- 19.45 **Bus departure from Rodos Palace for *gala* dinner at Kallithea springs**