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**Tuesday 26 January 2016**


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- 09:00 - 10:30 **Arrival and Registration**  
ATC Reception
- 10:30 - 10:50 **Welcome remarks by Chris Bowler**  
ATC Auditorium
- 10:50 - 12:10 **Keynote session**  
**Chair: Karin Rengefors**  
ATC Auditorium
- 10:50 - 11:30 **Keynote lecture: Eric Karsenti**  
ATC Auditorium
- Self Organization Processes: From the Cell to Marine Ecosystems** 1  
Eric Karsenti  
*EMBL Heidelberg, Germany*
- 11:30 - 12:10 **Keynote lecture: Éric Meyer**  
ATC Auditorium
- A single cell, two genomes, and RNA-mediated computing: how Paramecium annotates transposon insertions and programs phenotypic differentiation** 2  
Éric Meyer  
*École Normale Supérieure, France*
- 12:10 - 13:30 **Lunch**  
ATC Foyer
- 13:30 - 15:55 **Session 1: And You May Ask Yourself, "Well...How Did I Get Here?": Biodiversity Patterns across Space and Time**  
**Chair: Colomban de Vargas**  
ATC Auditorium
- 13:30 - 13:55 **Biodiversity of Ciliates in Nearshore Environments** 3  
Jean-David Grattepanche  
*Smith College, United States of America*

13:55 - 14:20	<b>Exploring marine picoeukaryotes in the global Malaspina expedition</b> Ramon Massana <i>Institut de Ciències del Mar, CSIC, Spain</i>	4
14:20 - 14:35	<b>Marine protists in the cold and dark – diversity and dynamics throughout the Arctic year, from 0-1000m depth</b> Elianne Egge <i>University of Oslo, Norway</i>	5
14:35 - 15:00	<b>Coffee Break</b> ATC Foyer	
15:00 - 15:15	<b>Unexpected diversity and abundance of planktonic diplomonids in the world ocean as revealed by the Tara Oceans meta-barcoding data</b> Julius Lukes <i>Czech Academy of Sciences, Czech Republic</i>	6
15:15 - 15:30	<b>Simultaneous analysis of eukaryotes, prokaryotes and viruses in marine metagenomic data</b> Alex Mitchell <i>EMBL-EBI, United Kingdom</i>	7
15:30 - 15:55	<b>To be presented onsite</b> Colomban de Vargas <i>CNRS - Station Biologique de Roscoff, France</i>	8
15:55 - 16:10	<b>Coffee Break</b> ATC Foyer	
16:10 - 18:35	<b>Session 2: Love-Hate Relationships: Intimate Interactions, from Trophic Interactions to Symbiosis</b> Chair: David Caron ATC Auditorium	
16:10 - 16:35	<b>Plastids after photosynthesis: organelle evolution in predators and parasites</b> Patrick Keeling <i>University of British Columbia, Canada</i>	9

16:35 - 17:00	<b>Comparative and population genomics of <i>Entamoeba</i> species</b> Neil Hall <i>The University of Liverpool, United Kingdom</i>	10
17:00 - 17:15	<b>Diatoms in love: unveiling molecular mechanisms of the sexual phase</b> Maria Immacolata Ferrante <i>Stazione Zoologica Anton Dohrn, Italy</i>	11
17:15 - 17:55	<b>Coffee Break &amp; Meet the Speakers</b> ATC Foyer	
17:55 - 18:20	<b>Revealing the nutritional strategies of mixotrophic algae</b> David Caron <i>University of Southern California, United States of America</i>	12
18:20 - 18:35	<b>Investigating the response of bacteria to exudates from marine eukaryotes using in situ microfluidics</b> Bennett Lambert <i>MIT-WHOI Joint Program; ETH Zurich, Switzerland</i>	13
18:35 - 18:50	<b>Pre-dinner drinks</b> ATC Foyer	
18:50 - 20:15	<b>Dinner</b> ATC Canteen	
20:15 - 21:30	<b>Welcome Reception in the ATC Rooftop Lounge</b>	

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**Wednesday 27 January 2016**

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09:00 - 12:05	<b>Session 3: Weird and Wonderful Organelles and Symbionts— Photosynthesis, Respiration, and Beyond</b> Chair: John Archibald ATC Auditorium	
09:00 - 09:25	<b>It takes two to tango: N<sub>2</sub> fixing symbioses in the open ocean</b> Rachel Foster <i>Stockholm University, Sweden</i>	14
09:25 - 09:50	<b>Ecological Importance of Acquired Phototrophy in Marine Microeukaryotic Plankton</b> Diane Stoecker <i>University of Maryland Center for Environmental Science, USA</i>	15
09:50 - 10:15	<b>Cellular, evolutionary, and ecological perspectives on acquired phototrophy</b> Matthew Johnson <i>Woods Hole Oceanographic Institution, United States of America</i>	16
10:15 - 10:30	<b>Cryptic mitochondrial genes in the aquatic microeukaryotes Diplonemea</b> Gertraud Burger <i>Université de Montreal, Canada</i>	17
10:30 - 11:00	<b>Coffee Break</b> ATC Foyer	
11:00 - 11:25	<b>Intracellular Iron Distribution in Chlamydomonas in Response to Fe nutrition status</b> Sabeeha Merchant <i>University of California, Los Angeles, United States of America</i>	18
11:25 - 11:50	<b>How weird and wonderful is the dinoflagellate mitochondrion?</b> Christopher Howe <i>University of Cambridge, United Kingdom</i>	19

11:50 - 12:05	<b>The metabolic outfit of a plastid-less basal parasitic dinoflagellate argues against an ancient chromalveolate red plastid in alveolates</b> Sebastian Gornik <i>National University of Ireland Galway, Ireland</i>	20
12:05 - 14:00	<b>Lunch</b> ATC Foyer	
14:00 - 17:20	<b>Session 4: Knock, Knock— Who's There? Extracellular Signaling</b> <b>Chair: Sonya Dyhrman</b> ATC Auditorium	
14:00 - 14:25	<b>The phycosphere</b> Roman Stocker <i>ETH Zurich, Switzerland</i>	21
14:25 - 14:40	<b>Light and CO<sub>2</sub>/cAMP signal crosstalk on the promoter elements of two chloroplastic <math>\beta</math>-carbonic anhydrase genes in the marine diatom <i>Phaeodactylum tricornutum</i></b> Yusuke Matsuda <i>Kwansei Gakuin University, Japan</i>	22
14:40 - 14:55	<b>Gamma-aminobutyric acid as a putative info-chemical in <i>Phaeodactylum tricornutum</i> and other diatoms</b> Chris Dupont <i>J. Craig Venter Institute, United States of America</i>	23
14:55 - 15:10	<b>Hormone discovery in diatoms</b> Valeria Di Dato <i>Stazione Zoologica Anton Dohrn, Italy</i>	24
15:10 - 15:35	<b>To be presented onsite</b> E. Virginia Armbrust <i>University of Washington, United States of America</i>	25
15:35 - 16:15	<b>Coffee Break &amp; Meet the Speakers</b> ATC Foyer	

- 16:15 - 16:30 **Evolving reproductive barriers in the species complex  
Seminavis robusta** 26  
Wim Vyverman  
*Ghent University, Belgium*
- 16:30 - 16:50 **Flash talks (1 slide / 2 min each)**  
ATC Auditorium
- 16:50 - 17:20 **UniEuk information session**  
ATC Auditorium
- 17:20 - 19:00 **Poster Session I (odd numbers)**  
ATC Helix A
- 19:00 - 20:30 **Dinner**  
ATC Canteen
- 20:30 - 22:00 **After dinner drinks in the ATC Rooftop Lounge**

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**Thursday 28 January 2016**


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09:00 - 12:00	<b>Session 5: Genetic Transportation: Causes and Consequences of Gene Exchange in Protists</b> Chair: John Archibald ATC Auditorium	
09:00 - 09:25	<b>Gene transfer in eukaryotes: frequency, patterns and implications</b> John Archibald <i>Dalhousie University, Canada</i>	27
09:25 - 09:50	<b>Convoluting history of mitochondrial proteins</b> Sandra Baldauf <i>Uppsala University, Sweden</i>	28
09:50 - 10:15	<b>Single-virus genomic analysis of giant viruses from the ocean</b> Willie Wilson <i>Sir Alister Hardy Foundation for Ocean Science, United Kingdom</i>	29
10:15 - 10:30	<b>Reverse transcriptase genes are highly abundant and transcriptionally active in marine plankton assemblages</b> Magali Lescot <i>IGS, CNRS, Aix-Marseille Université, France</i>	30
10:30 - 11:05	<b>Coffee Break &amp; Meet the Speakers</b> ATC Foyer	
11:05 - 11:30	<b>Establishment of the primary plastid in the photosynthetic amoeba <i>Paulinella</i></b> Debashish Bhattacharya <i>Rutgers University, United States of America</i>	31
11:30 - 11:45	<b>Evidence from three draft genomes of lateral gene transfer in labyrinthulomycetes</b> Jackie Collier <i>Stony Brook University, United States of America</i>	32

11:45 - 12:00	<b>Evolutionary Significance of Genome Organization in Diatoms</b> Sarah Smith <i>Scripps Institution of Oceanography, United States of America</i>	33
12:00 - 14:00	<b>Lunch</b> ATC Foyer	
14:00 - 17:15	<b>Session 6: Small Microbe, Big World: Microeukaryotes in Aquatic Ecosystems</b> Chair: Jon Kaye ATC Auditorium	
14:00 - 14:25	<b>Transcriptome-based profiling of phytoplankton physiology ecology provides new insight into bloom dynamics</b> Sonya Dyhrman <i>Columbia University, United States of America</i>	34
14:25 - 14:40	<b>Excitable phytoplankton: Molecular and biophysical studies of coccolithophore and diatom membranes</b> Colin Brownlee <i>Marine Biological Association of the UK, United Kingdom</i>	35
14:40 - 15:05	<b>Mechanisms of iron uptake in marine diatoms</b> Chris Bowler <i>École Normale Supérieure, France</i>	36
15:05 - 15:20	<b>Exploring marine pico-eukaryotes using single-cell (meta)genomics</b> Ramiro Logares <i>Institute of Marine Sciences - CSIC, Spain</i>	37
15:20 - 15:35	<b>A role for diatom-like silicon transporters in silicifying and calcifying haptophytes</b> Glen Wheeler <i>Marine Biological Association, United Kingdom</i>	38
15:35 - 16:15	<b>Coffee Break &amp; Meet the Speakers</b> ATC Foyer	



16:15 - 16:40	<b>Diatoms as in situ indicators of iron availability in the surface ocean</b> Bethany Jenkins <i>University of Rhode Island, United States of America</i>	39
16:40 - 16:55	<b>The role of marine protists in export of organic matter in the oligotrophic Sargasso Sea</b> Susanne Neuer <i>Arizona State University, United States of America</i>	40
16:55 - 17:15	<b>Flash talks (1 slide / 2 min each)</b> ATC Auditorium	
17:15 - 19:00	<b>Poster Session II (even numbers)</b> ATC Helix A	
19:00 - 19:15	<b>Pre-dinner drinks</b> ATC Foyer	
19:15 - 21:00	<b>Banquet Dinner</b> ATC Canteen	
21:00 - 00:00	<b>Conference Party</b> ATC Foyer	

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Friday 29 January 2016

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09:00 - 10:45	<b>Session 7: Situation Normal, All Stressed Out</b> Chair: Chris Bowler ATC Auditorium	
09:00 - 09:25	<b>The “Virocell” metabolism- metabolic innovations during host-virus interactions in the ocean</b> Assaf Vardi <i>Weizmann Institute of Science, Israel</i>	41
09:25 - 09:50	<b>Time keepers in marine phytoplankton: new insights from the discovery of the diatom circadian clock</b> Angela Falciatore <i>Université Pierre et Marie Curie, France</i>	42
09:50 - 10:05	<b>Efficient knock out of a member of the chloroplast signal recognition particle pathway using the CRISPR-Cas system</b> Marianne Nymark <i>Norwegian University of Science and Technology, Norway</i>	43
10:05 - 10:20	<b>RNA-seq analysis of stress response to silver nanoparticles in <i>Tetrahymena thermophila</i></b> Angela Piersanti <i>University of Camerino, Italy</i>	44
10:20 - 10:45	<b>Ecological Genomics of Microeukaryotes in Contrasting Ocean Ecosystems</b> Andrew Allen <i>University of California, San Diego, United States of America</i>	45
10:45 - 11:00	<b>Coffee Break</b> ATC Foyer	
11:00 - 13:30	<b>Session 8: Evolutionary Tipping Points: How Do Protists Adapt?</b> Chair: Karin Rengefors ATC Auditorium	

11:00 - 11:25	<b>Recent diversification of a dinoflagellate species flock – a case of adaptive radiation?</b> Karin Rengefors <i>Lund University, Sweden</i>	46
11:25 - 11:40	<b>Insights from the Arctic on microbial eukaryote genomes and transcriptomes and their environment</b> Connie Lovejoy <i>Université Laval, Canada</i>	47
11:40 - 11:55	<b>Marine ciliates as microeukaryotic models to study molecular adaptation and environmental responses</b> Cristina Miceli <i>University of Camerino, Italy</i>	48
11:55 - 12:10	<b>Coffee Break</b> ATC Foyer	
12:10 - 12:35	<b>Predictive evolution (no crystal ball required)</b> Sinead Collins <i>University of Edinburgh, United Kingdom</i>	49
12:35 - 12:50	<b>Seven years of evolution experiments in the marine coccolithophore <i>Emiliana huxleyi</i> simulating future ocean conditions</b> Thorsten Reusch <i>GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany</i>	50
12:50 - 13:05	<b>How do algae adapt? Insights from experimental epigenetics</b> Leila Tirichine <i>IBENS, CNRS UMR 8197, France</i>	51
13:05 - 13:20	<b>Gephyrocapsa (Emiliana): Evolution is sometimes neutral but adaptation, when it occurs, may involve a rare and difficult to observe life cycle</b> Peter von Dassow <i>Pontificia Universidad Católica de Chile, Chile</i>	52
13:20 - 13:30	<b>Closing remarks</b> ATC Auditorium	

13:30 - 14:00 **Packed lunch**  
ATC Foyer

14:00 **Busses to Frankfurt Int. Airport and downtown Heidelberg**

Poster removal (Please remember to collect your poster. Posters which have not been collected will be disposed of after the meeting.)

Feedback Questionnaire - Check your inbox when the meeting ends! You will find an email with the link to the online feedback questionnaire. Please take time to complete it!