

PROGRAM – CONFERENCES (Morning)

biology session process session industry session applications session sponsor talk

MONDAY		TUESDAY	
Auditorium 450	Room 200	Auditorium 450	Room 200
8:30 Opening, Presidents of: University of Nantes, Greentech, ISAP, Chairmen		8:30 Keynote Verdelho Vitor Contributions for the nomenclature of microalgae production systems	
Welcoming speech		9:00 Keynote Hurtado Anicia Seaweed Extracts as Bio-stimulant in Kappaphycus Cultivation	
9:15 Opening by Chris Bowler Tara Oceans: Eco-Systems Biology at Planetary Scale		9:30 Pinowska Aga Productivity, biomass composition and operational data from large-scale algae farm on Kauai, Hawaii	9:30 Mugnai Gianmarco Algalization using the cyanobacterium <i>Leptolyngbya ohadii</i> : a biotechnological approach for arid soil rehabilitation
9:50 Keynote Grossman Arthur The Discovery of Novel Proteins Required for Photosynthetic Function Using the Model Green Alga <i>Chlamydomonas reinhardtii</i>		9:50 Gomes Rui Heterotrophy and large scale production of <i>Chlorella vulgaris</i> : ALGAFARM case study	9:50 Mzibra Abir Polysaccharides extracted from Moroccan seaweed a promising source of plant growth promoters
		10:10 Subitec, Hyttinen Heikki Conception and Construction of Industrial Scale PBR-Cultivation Systems for Microalgae	10:10 Nedbal Ladislav <i>Chlorella vulgaris</i> fertilizer to grow wheat on nutrient poor soils

COFFEE BREAK

11:00 Keynote Barbosa Maria Towards industrial products from microalgae		11:00 Greensea, Cadoret Jean-Paul Greensea: 30 years dealing with Marine Biotechnology	11:00 Lacour Thomas Growth and photoacclimation of a cryptophyte in response to Nitrogen and light limitation
11:20 Synoxis, Gaudefroy Xavier 10 years of research and development concentrated in a single photobioreactor: Lucy, the first of its kind	11:20 Archer Lorraine Screening, selection and cultivation up scaling of microalgae strains from the west of Ireland with promising antioxidant potentials and lipid signatures	11:20 Chini Zittelli Graziella Biochemical characterization and in vitro digestibility of microalgal and cyanobacterial biomasses as novel ingredients for food products	11:20 Soudant Philippe Effects of harvesting stage and nitrogen limitation on biochemical composition of two strains of <i>Tisochrysis lutea</i>
11:30 Liqoflux, Boelens Pieter Managing the Water Loop with Liqoflux - purification, separation & recycling			
11:40 Corat Amance Cultivating cellulosic green seaweed for bioethanol production	11:40 Roleda Michael Iodine content in wild and cultivated edible seaweeds (<i>Saccharina latissima</i> , <i>Alaria esculenta</i> and <i>Palmaria palmata</i>): variability, and implications for dietary nutrition	11:40 Hafting Jeff Prospects for cultivated <i>Chondrus crispus</i> in the functional food sector	11:40 Masojidek Jiri Physiological shift from heterotrophic to phototrophic growth in a small-antenna-size strain of <i>Chlorella</i>
12:00 Lee Choul-Gyun Microalgal Biotechnology: A Route to Bio-based Economy from Petroleum-based Economy	12:00 Janssen Marcel Microalgal biofilm cultivation? Experimental testing and model prediction	12:00 Arioli Tony Increased Growth Response of Strawberry Roots to a Commercial Extract from <i>Durvillaea potatorum</i> and <i>Ascophyllum nodosum</i>	12:00 Cuaresma Maria Benefits of the usage of commercial fertilizers in the cultivation of <i>Botryococcus braunii</i> strains
12:20 Pilon Laurent The importance of light transfer for microalgae growth kinetics and metabolite production	12:20 Schroeder Declan Molecular and phylogenetic analysis resolves and reveals new diversity of <i>Dunaliella</i> sp. from hypersaline environments	12:20 Round Table	12:20 Schmid-Staiger Ulrike Influence of different light intensities on biomass productivity and light yield of <i>Chlorella sorokiniana</i> in flat panel airlift reactors
12:40 Sui Yixing Exploring <i>Dunaliella salina</i> as single cell protein: the influence of light/dark regime on the growth and protein synthesis	12:40 ABO, Carr Matt Algae in Donald Trump's America	12:40 Round Table	12:40 Kirke Dara Single and interactive effects of PAR and UV on low molecular weight phlorotannin profiles in <i>Fucus vesiculosus</i> using mass spectrometry

LUNCH BREAK

ACTIVITIES

Facilities visits

Algosolis R&D Facility and GEPEA Laboratory
Departure at 7:45 am on bus from la Cité Nantes Events Center
Innovation platform Ifremer
Departure at 8:00 am on bus from la Cité Nantes Events Center
Biotechnology laboratory Ifremer
Departure at 8:00 am on bus from la Cité Nantes Events Center
Mer Molécule Santé Laboratory
Departure at 8:30 on tramway from la Cité Nantes Events Center
Centre d'Étude et de Valorisation des Algues CEVA
Departure friday at 17:00 pm on bus from La Cité (3:30 car ride)
CEVA visit on saturday from 9:00 to 13:30 after lunch

Touristic tours

Nantes historic center
Departure from La Cité: 9:30
Return to La Cité: 12:30
Nantes vineyard
Departure from La Cité: 9:30
Return to La Cité: 12:30
Cruise on the Erdre River
Departure from La Cité: 9:30
Boarding at "Le quai de la Motte Rouge" (10 min walk from La Cité): 10:00
Return to "Le quai de la Motte Rouge": 12:00
Return to La Cité: 12:30

WEDNESDAY	THURSDAY	FRIDAY
	Auditorium 450	Auditorium 450
	Room 200	Room 200
	8:30 Keynote Makoto M. Watanabe Next-generation health functions of microalgae.	8:30 Keynote Gachon Claire Novel strategies for preventing diseases in cultivated seaweeds
	9:00 Keynote Henriquez Vitalia Microalgae genetic engineering tools for the production of high-value compounds	9:00 Keynote Grewe Claudia Industrial application of microalgae in food, feed and cosmetics – current status and perspectives
	9:30 Henes Bernhard First single-use and axenic production of high value cosmetic active ingredient	9:30 OMA, Olivier Stéphane OMA: high quality microalgal biomass for food industry
	9:50 Tissot-Lécuelle Ghislaine Optimized Microalgae for Biomannufacturing of High Added-Value Molecules	9:50 Yoneda Kohei A discovery of the novel major lipid droplet protein in marine diatom <i>Phaeodactylum tricornutum</i>
	10:10 Rebours Céline Norwegian Integrated Multi-Trophic Aquaculture (IMTA) from pilot-scale to a profitable industry	10:10 Fisher Carolyn Investigating the chemical and biological landscape of <i>Nannochloropsis salina</i> cultures to mitigate pond crashes
	11:00 GEPEA, Marchal Luc Some insights on Microalgae biorefinery: concepts and necessary process developments	11:00 Afalo Claude Data acquisition and control system for microalgal culture in a dual LED-illuminated flat-panel airlift bioreactor
	11:20 Ugarte Raul Harvesting of the resource <i>Ascophyllum nodosum</i> in Ireland: implications for its increased demand	11:20 Schulze Peter Flashing light for microalgal production: current opportunities, limitations and future perspectives
	11:40 Molina-Grima Emilio Production of biodiesel from wet microalgal biomass. Process options and economic conditions	11:40 Guhéneuf Freddy Photoperiod tuning for cost-effective indoor production of bioactive-rich microalgal biomass
	12:00 Jubeau, Sébastien Wet extraction for the production of active molecules in a biorefinery process	12:00 Weissman Joseph High-Light Selection of Algae for Increased Biomass Productivity
	12:20 Zhang Wei Biorefinery of brown seaweeds: prebiotic and neuroprotective potentials for functional foods and nutraceuticals	12:20 Heydarzadeh Parisa Acclimation of the diatom <i>Phaeodactylum tricornutum</i> to different light transition: a physiology and molecular study
	12:40 Vidon group, Vidon Patrice Macro- and micro-algae valorisation through patents of invention	12:40 Perkins Rupert Photoacclimation to optimise productivity in <i>Haslea</i> blue diatoms
		13:00 De Philippis Roberto The exopolysaccharidic matrix of biocrusts: role and characteristics
		13:00 Roleda Michael Seaweed farming in the Philippines: contrasting motivations, practices, and challenges among farmers, and the importance of governmental support
		13:20 Conclusion

ACTIVITIES

SUNDAY, JUNE 18 The Ice Breaking Cocktail 18:30 – 21:00	MONDAY, JUNE 19 19:00 – 20:30 General Assembly of the ISAP Auditorium 450	TUESDAY, JUNE 20 Gala dinner at "les Machines de l'île" 20:00 – 23:00	THURSDAY, JUNE 22, Conférence Grand Public Auditorium 450 20:00 – 22:00
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LUNCH BREAK

MONDAY		TUESDAY		WEDNESDAY		THURSDAY				
Auditorium 450	Room 200	Auditorium 450	Room 200	Auditorium 450	Room 200	Room G/H	Room I	R2	Auditorium 450	Room 200
14:00 Pruvost Jérémy Development and validation of strategies for the optimal operation of microalgal culture systems in outdoor	14:00 Marinho Goncalo Antioxidant composition and activity of seaweed <i>Saccharina latissima</i> : a seasonal perspective	14:00 Algosource, Lépine Olivier Phycoocyanin: the first double blind versus placebo clinical study for the development of new nutraceutical products	14:00 Galès Amandine Efficiency of CO ₂ fixation in High Rates Algal Ponds under different pH using marine natural assemblages	14:00 Laboratoires Gilbert, Planter Séverine Sustainable Bio-marine products for health, well being and beauty	14:00 Sandmann Michael Insights in lipid enrichment in algal cultures through microscopy based cytometry	14:00 – 16:00 Young researchers workshop: "How can I improve my submission to be published? Tips and tricks"	14:00 – 16:00 Seaweed at Stake: Stakeholder meeting catalyzing future collaboration	14:00 – 17:00 B2B meetings	14:00 Algenuity, Spicer Andrew Algenious Process - Engineering micro-algae for future commercial markets	14:00 Van Hal Jaap Driving on sunshine, converting seaweed to furanolic biofuels
14:20 López Rosales Lorenzo Culture of <i>Amphidinium carterae</i> in pilot-scale photobioreactors illuminated with Light Emission Diodes	14:20 Jin Eonseo Strain development of microalgae by genetic tools including DNA-free CRISPR/CAS9	14:20 Deruyck Bert A simple model to predict rotifer growth in microalgal production cultures	14:20 Schoefs Benoît The orientation of carbon metabolism in response to CO ₂ modifications in the diatom <i>Phaeodactylum tricornutum</i>	14:20 Benemann John Beneficial Utilization of Power Plant Flue Gas CO ₂ with Microalgae	14:20 Aussant Justine Effect of abiotic factors on selected microalgae for omega-3 PUFA production				14:20 Gilles Mathilde The notion of Hybridity? an efficient tool to explain the carrageenan behaviors	14:20 Torzillo Giuseppe Constraints in the scale-up of photobiological hydrogen production with microalgae outdoors
14:40 Huber Gregor Comparison of algal growth in laboratory, small-scale experiment and large scale production	14:40 Bernard Miriam qPCR-based detection of a filamentous brown algal endophyte in <i>Saccharina latissima</i> wild populations and kelp farms	14:40 Bernard Olivier Optimization of algal ponds operation using weather forecasts	14:40 Solovchenko Alexei Luxury uptake and storage of phosphorus by microalgal cell	14:40 Le Gélébart Erwan A step forward in active ingredients development, metabolic induction applied to macroalgal cell culture	14:40 Khozin-Goldberg Inna The peculiar lipid metabolism in <i>Lobosphaera incisa</i> and its biotechnological implications				14:40 Boa Ventura Thalys Felipe Growth rate and carrageenan quality of <i>Kappaphycus alvarezii</i> cultivated with marine shrimp effluent farmed in bio-flocs system	14:40 Morales Marjorie Life Cycle Assessment of algal biodiesel production coupled with photovoltaic panels: environmental impacts and energy balance
15:00 Ruppel Valentina Operating strategy to reduce the energy input of a flat-panel airlift photobioreactor with intrinsic static mixers	15:00 Bonnefond Hubert Evolution engineering for enhancing photosynthetic efficiency of high density cultures of <i>Ti-sochrysis lutea</i>	15:00 Stevant Pierrick Seaweed aquaculture in Norway: recent industrial developments and future perspectives	15:00 Garnier Matthieu High sensitivity to nitrogen and specific regulation of proteins involved carbon partitioning drive lipid over accumulation in <i>Ti-sochrysis lutea</i> 2X strain	15:00 Sayre Richard Producing algae for coproducts and energy (PACE) consortium	15:00 Petursdottir Asta Arsenic containing lipids in brown algae				15:00 Hosseini Seyed Abdollah Growth promotion of Wheat and Brassica napus by Seaweed Extract <i>Ascophyllum nodosum</i> (L.) (AZAL5)	15:00 Maadane Amal Antioxidant activity and biochemical composition of microalgae isolated from Moroccan coastlines and enhancement of their activities in stress conditions
15:20 Kazbar Antoinette Effect of the design dark fraction on the loss of biomass productivities in photobioreactors	15:20 Bruhn Annette Comparing productivity, biomass quality and genetics of four Danish populations of <i>Saccharina latissima</i>	15:20 Le Plaine-Mileur Mélanie Algae & innovation: Let's talk about Novel food and Nagoya!	15:20 Wang Chaogang Increasing fatty acid production in microalgae by metabolic engineering	15:20 Hennequart Franck Links between composition and functionality of seaweed extracts: a practical case on cosmetic and pharmaceutical applications	15:20 Xu Yanan Biochemical characterisation of newly isolated <i>Dunaliella</i> strains: impact of light on high carotenols content				15:20 Holdt Susan Adsorption of microplastics to the edible <i>Fucus vesiculosus</i> and possible wash off before food application	15:20 Mathiot Charlie Starch-based bioplastics from microalgae: screening of strains for starch accumulation and plasticization assays of unfractionated algal biomass
15:40 Loomba Varun Computational analysis of hydrodynamics and light distribution in photo-bioreactors for algal biomass production	15:40 Thiriet-Rupert Stanislas Identification of transcription factors involved in the phenotype of a domesticated oleaginous microalgae strain of <i>Ti-sochrysis lutea</i>	15:40 Abreu Helena Land-based cultivation of two Atlantic nori species: <i>Porphyra dioica</i> & <i>Porphyra umbilicalis</i>	15:40 Bougaran Gaël Improving microalgae neutral lipid productivity by coupling mutagenesis and flux cytometry	15:40 Boussiba Sammy Natural astaxanthin- The superb sunscreen and antioxidant molecule	15:40 Ishika Tasneema Saline microalgae for fucoxanthin production	15:40 Nyvall Collen Pi The first Seaweed Biorefinery in France: a natural resource for nutrition and health applications	15:40 Benoit Maud Development of seaweed-based surfactant			
COFFEE BREAK										
16:30 Olmix, Pi Nyvall Collen OLMIX group: innovative algae-based solutions, for a better life!	16:30 Terme Nolwenn Selective extraction of lipid classes from <i>Solieria chordalis</i> and <i>Sargassum muticum</i> using supercritical carbon dioxide and conventional methods	POSTER SESSION 1		16:30 Morosinotto Tomas Investigation of the genotype - environment interaction during cultivation of genetically improved microalgae strains	16:30 Tremblay Réjean Prophylactic effect of <i>Haslea ostrearia</i> culture supernatant containing the pigment marennine to stabilize bivalve hatchery production	16:30 – 18:30 Student contest: Play with your PhD!	16:00 – 18:00 Seaweed at Stake: Stakeholder meeting catalyzing future collaboration	B2B meetings	POSTER SESSION 2	
17:00 Inviso Labs, Cyril Sauvan "Inviso Labs, your analytical expert for algae"	16:50 Dumay Justine Use of enzymatic assisted extraction to increase extraction yields of R-PE in different life cycle types of the red seaweed <i>Chondrus crispus</i>	17:00 Groupe Roullier, Yvin Jean-Claude Enabling Earth and Mankind to produce the best	17:00 Park Jason Treatment of secondary effluent from biological trickling filter (bt) using high rate agal ponds	16:50 Bergmann Peter Impact of light quality on the growth kinetics of <i>Chlorella sorokiniana</i> in high-density photobioreactors	16:50 Leila Hayashi Effects of brown seaweeds on marine shrimp resistance to White Spot Disease				17:00 Lane Todd Algal crop protection strategies and technologies	17:00 Rodolff Liliانا Oil and high-value products from the marine diatom <i>Phaeodactylum tricornutum</i>
17:10 Bardor Muriel Understanding the N-glycosylation of microalgae: a critical prerequisite towards optimizing the production of biopharmaceuticals	17:10 Marlard Sylvain Studies on lipolytic enzyme genes in <i>Isochrysis galbana</i> .	17:20 Demais Hervé Evaluation of the antidepressant and anxiolytic-like effects of a hydrophilic extract from the green seaweed <i>Ulva</i> sp. in rats	17:20 Moheimani Navid Algal culture to treat anaerobic digestion piggery effluent (ADPE)	17:10 Heredia Vladimir Investigation of the coupling between growth and TAG extraction stages in solar conditions for biodiesel production by microalgae	17:10 Medlin Linda Advances in molecular tools for routine monitoring of toxic algae and pathogens in aquatic ecosystems				17:20 Schmedes Peter <i>Palmaria palmata</i> hatchery - tetraspore settlement and development	17:20 Tannoury Mona Antiproliferative and Antioxidant Effects of <i>Sargassum vulgare</i> From the Lebanese Coast Against human colon cancer cells HCT116 Cell Line
17:30 Holdt Susan Is nitrogen-to-protein conversion factor for seaweed dependent on season?	17:30 Muylaert Koenraad Flocculation-based harvesting of microalgae: the interplay between microalgal biology and flocculation	17:40 Neumann Ulrike Anti-inflammatory effects of different <i>Phaeodactylum tricornutum</i> extracts on human peripheral blood mononuclear cells	17:40 Van Eynde Erik Diatom silica-titania for photocatalytic air purification applications	17:30 Behrendt Dominik Piloting microalgae to advanced biofuels? AUFWIND & OptiMAL	17:30 Pontinha Vitor Effects of <i>Sargassum filipendula</i> and <i>Ascophyllum nodosum</i> extracts in the survival of post-larvae of marine shrimp <i>Litopenaeus vannamei</i> under hypothermic stress				17:40 Vonshak Avigad What does it take to have an algal strain fitted to mass culture outdoors?	17:40 Picot Laurent Antimelanoma activity of <i>Heterocapsa triquetra</i> pigments
17:50 Adler-Agmon Zachor Nitrogen-starvation induced expression of proteins in <i>Phaeodactylum tricornutum</i>	17:50 Delauré Yan Evaluation of mixing and shear stresses in High Rate Algae Ponds for different paddle wheel designs	18:00 Fitton J. Helen Fucoidan in complementary medicine applications	18:00 Piiego-Cortés Hugo In-farm recycling of shrimp wastewater into economically valuable <i>Halymenia floresii</i> grown at land-based IMTA system	17:50 O'leary Stephen The NRC Algal Carbon Conversion Flagship Program: Research activities in support of commercial algae cultivation in northern regions	17:50 Dewi Intan Antimicrobial compounds from microalgae: potential application of the diatom <i>Haslea ostrearia</i> in aquaculture				18:00 Augyte Simona Cultivation of a unique form of sugar kelp, <i>Saccharina latissima</i> <i>Alga angustissima</i> , from Northwestem Atlantic with a focus on nutrient uptake and production	18:00 Trepos Rozenn Antibacterial and Antioxidant Properties of Macroalgal Compounds from Brittany
18:10 Mettler-Altman Tabea Poly-phosphate is a highly dynamic polymer in the green alga <i>Chlorella vulgaris</i>	18:10 Balduyck Lieselot Lipolytic stability during wet storage of autotrophic microalgae	18:20 Fahrendorf Theodor Characterization of immune-modulatory substances from algae	18:20 Cadoret Jean-Paul Commercialized products from Algae: From extracts to actives. Three examples	18:10 Montero Eloy Mixotrophic cultivation of <i>Chlorococcum</i> sp. under outdoor conditions using a digestate from pig waste as culture medium	18:10 Berri Mustapha Marine algae <i>Ulva americana</i> : a new source of sulfated polysaccharides as immunomodulating compound to improve animal health	18:20 Le Norcy Tiffany Impact of roughness and surface hydrophobicity on marine organisms adhesion: focus on microalgae	18:20 Bouluo Romain Antihyperlipidemic activity of carrageenans from the red seaweed <i>Solieria chordalis</i> (Rhodophyta, Gigartinales) extracted by Microwave Assisted Extraction (MAE)			
18:30 Terry-Meredith Tarryn-May Selection and isolation of indigenous microalgal species for high rate carbon assimilation	18:30 Cerón-García M.c Multi-step process for an integral use of biomass from dinoflagellates <i>Amphidinium</i> and <i>Karlodinium</i>	18:40 Peñuela Ana Biochemical composition and antiviral activity of enzymatic hydrolysates from <i>Solieria filiformis</i> (Rhodophyta) growing under IMTA systems	18:40 Moya-Falcón Corina Macaronemal algal biotechnology platform	18:30 Lim An Suk Mixotrophy in the dinoflagellate <i>Alexandrium</i> pohangense: a specialist for ichthyotoxic dinoflagellate <i>Cochlodinium</i>	18:30 Evans Franklin Effect of a macroalgae derived <i>Ascophyllum nodosum</i> feed supplement, <i>Iasco</i> ®, on the productivity and actions in monogastric and ruminant animals: A review of our latest scientific findings	18:40 Borowitzka Michael What is "stress" in microalgae?	18:40 Burlot Anne-Sophie An enzymatic extract of the proliferative red seaweed <i>Solieria chordalis</i> reduces the virulence of <i>Pseudomonas aeruginosa</i> and stimulates the immune system of <i>Caenorhabditis elegans</i>			