

Monday 05/07/2021 (Zoom)

09:30 - 13h30	(WEST Time)	Workshop 1 – Marine photosynthetic pigments
		Moderators: Dr. Paulo Cartaxana Portugal; Dr. Francisco Rodríguez Spain
09:30 - 13h30		Workshop 2 – Bioactive lipids produced by marine organisms with pharmaceutical and industrial applications
		Moderators: Dr. Ralph Urbatzka Portugal; Dr. Filipe Castro Portugal
14:30 - 18h30		Workshop 3 – Marine lipidomics
		Moderators: Dr. Juliette Jouhet France; Dr. Rosário Domingues Portugal; Dr. Tânia Melo Portugal

Tuesday 06/07/2021 (Online Conference <https://lipids2021.nplay.live>)

08:30 - 08:55	(WEST Time)	Registration
08:55 - 09:00		Housekeeping information & Welcome talk - Heads of host organisations

Session 1 - Lipids as biomarkers in trophic sea webs | Panel Chair: Dr. Óscar Monroig & Dr. Doerthe Mueller-Navarra

09:00 - 09:20	Plenary session	Dr. Andrey B. Imbs Russian Academy of Sciences, Russian Federation Tracing of fatty acid trophic markers (FATM) in marine ecosystems by lipidomic methods
09:20 - 09:30	Session	Svetlana A. Murzina Russia Lipids and fatty acids of beaked redfish <i>Sebastes mentella</i> in the Irminger Sea: ecological importance of lipids in mesopelagic ecosystem
09:30 - 09:40	Session	Carlissa Salant Canada Lipid class and fatty acid composition of liver and muscle from the deep-sea Arctic skate, <i>Amblyraja hyperborea</i> , across a Canadian Beaufort Sea depth gradient
09:40 - 09:50	Session	Luisa Marques Portugal Fish feed signaling in the fatty acid profiling of macroalgae and ascidians under integrated multi-trophic aquaculture conditions
09:50 - 10:00	Session	Stephen Williams Canada Determining the assimilation efficiency of EPA and DHA from diet to tissues in a marine gadoid using a mass balance approach
10:00 - 10:10	Session	Suzanne M. Budge Canada Fatty acid isotopic composition in Atlantic pollock is not influenced by dietary fat levels
10:10 - 10:40	Session	Q & A
10:40 - 11:00	Break	Coffee break & Poster sessions

Session 2 - Marine lipidomics and its applications | Panel Chair: Dr. Concetta Messina & Dr. Philippe Soudant

11:00 - 11:20	Plenary session	Professor Isabel Medina CSIC, Spain Marine lipidomics and healthy aging
11:20 - 11:30	Session	Eleanora Silvano UK A novel class of sulfur-containing aminolipids widespread in marine roseobacters
11:30 - 11:40	Session	Constanze Kuhlisch Israel How the 'viral shunt' shapes the ocean lipiDOM
11:40 - 11:50	Session	Ivan Viegas Portugal Profiling lipid metabolism in aquatic organisms using deuterated water (2H ₂ O) by 2H NMR
11:50 - 12:00	Session	Marina Arregui Spain Lipids of lung and lung fat emboli of the toothed whales (Odontoceti)
12:00 - 12:10	Session	Gabriel Markov France Semi-quantitative targeted GC-MS profiling supports a late side-chain reductase cycloartenol-to-cholesterol biosynthesis pathway in brown algae
12:10 - 12:20	Session	Pedro Beca-Carretero Spain Implementation of lipidomic analysis as eco-physiological tool in tropical seagrass species: responses to experimental warming and nutrient stress
12:20 - 12:50		Q & A
12:50 - 14:00	Break	Lunch & Poster sessions

Session 3 - Lipids in the Changing Ocean | Panel Chair: Dr. Suzanne Budge & Dr. Rosário Domingues

14:00 - 14:20	Plenary session	Professor Christopher Parrish Memorial University of Newfoundland, Canada Production of lipids by phytoplankton in the Canadian Arctic: Environmental effects and implications for consumers
14:20 - 14:30	Session	Mickaël Péron France Lipid content and fatty acid composition of wild European sea bass <i>Dicentrarchus labrax</i> juveniles from two French estuaries
14:30 - 14:40	Session	Eleonora Puccinelli France Zooplankton lipid composition in close proximity to a Sub-Antarctic archipelago
14:40 - 14:50	Session	Jens Boyen Belgium Interactive effects of multiple climate drivers on the fatty acid biosynthesis in the harpacticoid copepod <i>Platychelipus littoralis</i> (Crustacea, Copepoda)
14:50 - 15:00	Session	Anandi A.K. Tamby The Netherlands Investigating changes in membrane lipid composition induced by high hydrostatic pressure in a piezotolerant <i>Marinifilaceae</i> bacteria isolated from the Black Sea.
15:00 - 15:10	Session	Concetta Maria Messina Italy Effects of a chronic exposure to a sub-lethal mixture of contaminants, on fatty acids profile, molecular and oxidative stress biomarkers in sea bream (<i>Sparus aurata</i>)
15:10 - 15:20	Session	Kare Tonning Canada Overwinter changes in the lipid profile of young-of-the-year striped bass (<i>Morone saxatilis</i>) in freshwater ponds
15:20 - 15:50		Q & A
15:50 - 16:20	Break	Coffee break & Poster sessions
16:20 - 17:20		Pitch sessions Panel Chair: Dr. Sónia Cruz & Dr. Elisabete Costa & Dr. Felisa Rey
17:30 - 18:00		Exhibition & Sponsoring

Wednesday 07/07/2021 (Online Conference <https://lipids2021.nplay.live>)

08:55 - 09:00 (WEST Time) Housekeeping information

Session 4 - Green lipids from the ocean (seaweeds, microalgae, and macrophytes) | Panel Chair: Dr. Ricardo Calado & Dr. Juliette Jouhet

09:00 - 09:20	Plenary session	Professor John Harwood Cardiff University, United Kingdom Green lipids from the ocean
09:20 - 09:30	Session	Steven Duerksen Canada Determination of essential fatty acid production in the marine diatom <i>Chaetoceros socialis</i> and the potential application of remote sensing for synoptic scale estimates
09:30 - 09:40	Session	Stéphanie Bolik France Comparison of betaine lipid (DGTS) and phosphatidylcholine properties
09:40 - 09:50	Session	Tânia Melo Portugal <i>Palmaria palmata</i> , the red queen for algae-based omega-3 polar lipids
09:50 - 10:00	Session	Chiara E. Giossi Portugal Light-induced changes in the polar lipidome of Bryopsidales algae (<i>Codium tomentosum</i> and <i>Bryopsis plumosa</i>)
10:00 - 10:10	Session	Margarida Costa Portugal <i>Nannochloropsis</i> sp.: strain-specific culturing and lipid variations
10:10 - 10:40		Q & A
10:40 - 11:00	Break	Coffee break & Poster sessions

Session 5 - Marine lipids biotechnology: prospects and applications | Panel Chair: Professor Dr.Vitor Vasconcelos & Dr. Joana Silva

11:00 - 11:20	Plenary session	Professor Herminia Dominguez University of Vigo, Spain Seaweed biorefinery: Conventional and novel technologies for extraction and purification of metabolites
11:20 - 11:30	Session	Ana Gomes-Bispo Portugal Production of DHA-rich phospholipids extracts with anti-Alzheimer effect
11:30 - 11:40	Session	Mary Arnaldo France Optimizing high value lipid production of marine benthic diatoms species from North-East Atlantic mudflats using porous substrate photobioreactor
11:40 - 11:50	Session	Alberto Ribes-Navarro Spain Molecular cloning and functional characterisation of three fatty acyl elongases from the marine gammarid <i>Echinogammarus marinus</i>
11:50 - 12:00	Session	Francesco Pisapia Spain Selective breeding in diatoms as a novel approach to increase production of high-value fatty acids for European aquaculture
12:00 - 12:10	Session	Daniela P. Rodrigues Portugal Modulating the lipid profile of Black Soldier Fly (<i>Hermetia illucens</i>) using expired aquafeeds and fresh macroalgae
12:10 - 12:40		Q & A
12:40 - 14:00	Break	Lunch

Session 6 - Seafood traceability using lipids | Panel Chair: Professor Christopher Parrish & Dr. Ana Lillebø

14:00 - 14:20	Plenary session	Dr Philippe Soudant National Center for Scientific Research, France
14:20 - 14:30	Session	Frank David France Muscle fatty acids differentiate wild vs. farmed Penaeid shrimps worldwide
14:30 - 14:40	Session	Maria João Lança Portugal Tracing sea lamprey (<i>Petromyzon marinus</i> s. L.) in the aquatic food webs: two distinct diets put in evidence by fatty acids trophic markers
14:40 - 14:50	Session	Ricardo Calado Portugal Using lipid fingerprints for seafood traceability - case studies from project TraSeafood
14:50 - 15:10		Q & A
15:10 - 16:00	Workshops	Dr Paulo Cartaxana Dr Francisco Rodríguez Dr Ralph Urbatzka Dr Filipe Castro Dr Juliette Jouhet Dr Rosário Domingues Dr Tânia Melo
16:10 - 16:30	Break	Coffee break & Poster sessions
16:30 - 17:00		Sponsoring & Awards
17:00 - 18:00		Roundtable discussion around Lipids in the Ocean Lipids in the Ocean third edition Conference conclusions