

Lipids in the Ocean 2020 (Online meeting), Aveiro, Portugal

Wednesday 18/11/2020

13:55

Registration

14:00

Welcome & Open Session

Professor Rosário Domingues | Universidade de Aveiro

Professor Philippe Soudant | Université de Bretagne Occidentale (UBO)

Session 1. Marine lipidomics and its applications

14:15

Daniel Jerónimo

Recovering valuable fatty acids using polychaeta assisted sand filters under an open integrated multi-trophic aquaculture (IMTA) approach

14:22

João P. Monteiro

Unveiling the cardiac phospholipidome of small cetaceans: From the promise of remote monitoring tools to evolutionary insights into cardiac physiology

14:29

Felisa Rey

Contrasting lipidomic response under starvation conditions of two sympatric sacoglossan sea slug species

14:36

Questions - 10 min

Session 2. Green lipids from the ocean (seaweeds, microalgae, and macrophytes)

14:46

Nolwenn Guéguen

Characterization of monogalactosyldiacylglycerol synthases in the model diatom *Phaeodactylum tricorutum* using CRISPR-Cas9 technology

14:53

Susana S. Aveiro

Profiling *Emiliania huxleyi* polar lipids, a source of omega-3 fatty acids in the ocean with biotechnological potential

15:00

Ana S. P. Moreira

Unveiling seasonal plasticity of polar lipids from *Ulva rigida* cultivated in a sustainable integrated multi-trophic aquaculture

15:07

Guy Schleyer

The glycosphingolipid-based arms race between an alga and its virus: infection, resistance and what's in-between

15:14

Daniela Couto

Unraveling the effects of growth conditions on the polar lipid profile of *Chlorella vulgaris*

15:21

Questions - 10 min

15:31

Break

15:45

Plenary session

Professor Christopher Parrish | Memorial University of Newfoundland

Session 3. Marine lipids biotechnology: prospects and applications

16:05

Ena Pritišanac

Biomass productivity and lipid accumulation of three marine microalgae grown in oil refinery wastewater

16:12

Diana Lopes

Unraveling the species-specific bioactivities of polar lipid extracts from green, red and brown seaweeds fostering their valorization for biotechnological applications

16:19

Daniel Jerónimo

Fatty acid dynamics of *Hediste diversicolor* fed an aquafeed under different temperatures and salinities - relevance for IMTA

16:26 Filipa Falcato | Characterization of the lipid fraction of *Cystoseira humilis* from Azores coast

16:33 Questions - 10 min

Session 4. Seafood traceability using lipids

16:43 Marcos Palma | Mapping fatty acid profiles of sardines' (*Sardina pilchardus*) muscle over the Iberian Atlantic coast and their potential use for traceability of geographic origin

16:50 Elisabete da Costa | Lipidomic signatures of sea lettuce (*Ulva* spp.) reliably trace their geographic origin

16:57 Luís Gaspar | Using lipidomic fingerprints of common octopus' (*Octopus vulgaris*) muscle to trace its geographic origin over the Iberian Atlantic coast

17:04 Questions - 10 min

Poster Session

Poster pitches

17:14 Mariana Ventura | Monitoring of *Aurantiochytrium mangrovei* lipid accumulation by flow cytometry during a culture with a high glucose content

17:19 Carolina Veríssimo | Fatty acid signatures of halophytes for nutritional valorization and traceability of geographic origin

17:24 Chiara E. Giossi | Carotenoids under changing light: photoacclimation response in siphonous green algae of the order Bryopsidales

17:29 Rúben Marques | Effects of photoperiod and light spectra on growth and pigment composition of the green macroalgae *Codium tomentosum*

17:34 Tiago Conde | Mining value-added lipids from the polar lipidome of the microalga *Chlorococcum amblystomatis*

17:39 Concluding remarks

