

Conference Program

Opening lecture W. Hastings (University of Harvard, USA)

Session 1: Systematics, evolution, genes

Invited speaker W. Müller (University Mainz). Sponges [Porifera] – a key phylum in evolution and biotechnology.

P. Boudry (Ifremer, Brest). Current developments of genomic resources and their applications in physiological and genetical studies in the Pacific oyster, *Crassostrea gigas*.

D. Sellos (MNHN, Concarneau): Molecular Barcoding of European Atlantic fishes.

V. Stiger (LEBHAM-IUEM-UBO, Brest). Novel taxonomical tools for the discrimination of brown algae belonging to the Sargassaceae family.

F. Denis (Concarneau) Genetic variability of estuarine Invertebrates.

C. Millet (MNHN, Paris). Coupling cDNA library and proteomic analyses for the identification of novel proteins in molluscan shell.

Session 2: Natural substances

Invited speaker S. La Barre (SBM, Roscoff). Prokaryote - eukaryote interactions and marine chemodiversity: a one billion year old story.

C. Noyer (Blanes). Chemical variation of the marine sponge *Spongia agaricina*.

E. Quevrain (MNHN, Paris). Chemical mediators of interactions within the bacterial community associated to the temperate calcareous sponge *Leuconia nivea*.

S. Dobretsov (Oman). Malyngolide from cyanobacterium *Lyngbya* sp. inhibits LasR-based bacterial quorum sensing proteins.

M. Koken (UBO, Brest). Scouring the sea for fluorescent, non-GFP-like proteins.

Session 3: Cell Cultures

Invited speaker B. Rinkevich (Haifa). Cell cultures from marine invertebrates: perspectives for stem cells approach.

S. Auzoux-Bordenave (UPMC/MNHN, Concarneau). Marine Invertebrate Cell Cultures as tools for Biomineralization Studies.

I. Domart-Coulon (MNHN, Paris). Co-cultures of marine invertebrate cells with their bacterial associates.

D. Duplat (MNHN, Paris). Mollusc-shell molecules stimulate bone-resorbing cells.

Special Lecture J. Querellou: (Ifremer) Cultivating the uncultivable.

Session 4: Fouling/pollutions

Invited speaker C. Hellio.(Portsmouth). Fouling/antifouling: state of the art.

A. Luna-Acosta (University of La Rochelle). Localisation and characterization of phenoloxidase-like activity in *Crassostrea gigas*.

B. Da Gama and E. Plouguerné (Universidade Federal Fluminense, Brazil). Antifouling activity of the Brazilian brown seaweed *Sargassum vulgare*.

E. Saby (Blanes). *In vitro* effects of metal pollution on the antiviral enzyme 2',5'-oligoadenylate synthetase from Mediterranean sponges, species-specific inhibition.

Session 5: Biomasses and biomaterials

Invited speaker T. Borresen (DTU AQUA, DK). There is gold in fish wastes.

C. Simon-Colin (Ifremer, Brest). Bacterial Poly-b-hydroxyalkanoates as promising biopolyesters for biotechnological applications.

K. Muffler /Ulber (Kaiserslautern). Enzymes from marine microorganisms and their potential applications in white biotechnology.

H.C. Schröder (Mainz). Biosilica – a new biomaterial with strong economic impact.

T. Hahn (Kaiserslautern). Purification, Structure and Bioactivity of Fucoidanes from *Fucus vesiculosus*.

S. Laplante (Gaspé, Québec). Purification, characterization, and immune-stimulating properties of hemocyanin from snow crab (*Chionoecetes opilio*).

M. Peron, Martinez-Alvarez (MNHN, Concarneau). CGRP- like molecules in industrially produced hydrolysates from saithe muscle; Effect of a subsequent fermentation.

B. Cudennec (MNHN, Concarneau). Evidence for a Potential Role of Peptides Derived from Fish and Crustacean Protein Hydrolysates in the Regulation of Satiety - Stimulation of CCK Secretion in Enteroendocrine Cells.

B. Thomas (Ivamer). Marine by-products from molluscs and valorization.

S. Rouillé *et al.* (University of La Rochelle). Algae hydrolysate Calcimince[®]: The sea contribution to slimming.

F. Guérard *et al.* (LEMAR/IUEM, Brest). Recent developments of marine ingredients for food and nutraceutical applications : a review.

P. Bourseau *et al.* (GEPEA-UMR CNRS 6144). Recovery of valuable compounds from fishing industry effluents by membrane technologies.

Short communications

C. Jegou (IUEM/UBO). ¹H HRMAS and LC-MSⁿ as useful taxonomical tools for the discrimination of brown algae belonging to the *Cystoseira* genus.

O. Martinez-Alvarez (CSIC, Vigo). Prolyl-endopeptidase inhibitory capacity of fish gelatin hydrolysates.

N. Decourcelle *et al.* (LEMAR/IUEM, Brest). Emulsifying and foaming properties of a glycosylated shrimp by-product hydrolysate.

D. Duplat (MNHN). Industrial development of an antioxidant and antimicrobial extract produced by marine bacteria associated to the calcareous sponge *Leuconia nivea*.

Round Tables

Marine biotechnologies and innovation in the enterprises: international panorama, technological stakes, and specific cases (Convenor: Daniel Pardo (LEST-CNRS))

Invited experts: Shige Harayama* (Tokyo, Japan), Véronique Dufey (Ifremer, Paris)

*Conférence

Creating an integrated value chain for marine products and co-products: from biomass to value-added products (Convenors: D. Pardo and J.P. Bergé)

Invited experts: Torger Borresen* (Seafoodplus, Copenhagen), Sigrun Bekkevold* (Rubin, Oslo), Patrick Bourseau (UBS) and Fabienne Guérard (LEMAR / IUEM Brest)

*Conférence

Conclusions