

Programme de la conférence

Mardi 14 Mai 2019

19h00 Apéritif offert par le GdR à La Fabrik 1801 sur le Plateau des capucins à Brest

Mercredi 15 Mai 2019

8h30 - 9h00 Café de bienvenue

9h00 - 10h00 Session scientifique (axes 1 à 4)

Chair de session : Hélène Hégaret

9h00 - 9h15 Introduction de la conférence

Hégaret Hélène

9h15 - 9h30 Physiological conditions favorable to domoic acid production and accumulation in three *Pseudo-nitzschia* species

Sauvey Aurore, Fauchot Juliette, Claquin Pascal, Le Roy Bertrand

9h30 - 9h45 Towards the warming waters? Distribution limits of the sub-tropical dinoflagellate *Ostreopsis* spp. across the Bay of Biscay

Drouet Kévin, Jauzein Cécile, Lemée Rodolphe, Laza-Martinez Aitor, Seoane Sergio, Siano Raffaele

9h45 - 10h00 Strong constitutive expression divergence among strains but no differential expression associated with sexual reproduction in *A. minutum*

Le Gac Mickael

10h00 – 10h30 Pause-café

10h30 - 12h30 Session ateliers, trois ateliers en parallèle :

1. *Alexandrium* sp. et les toxines paralysantes en France

Animé par *Caroline Fabioux, Mickaël Le Gac et Damien Réveillon*

2. *Pseudo-nitzschia* et l'acide domoïque en France : écologie, production, devenir et conséquences sur les écosystèmes côtiers

Animé par *Amandine Caruana, Juliette Fauchot et Anne Thébault*

3. Nouvelles espèces émergentes en Europe et en France

Animé par *Valérie Fessard, Philipp Hess et Nicolas Chomérat*

12h30 - 14h00 Pause-déjeuner

14h00 - 15h30 **Session de projets avec implication des professionnels**

Chair de session : Philipp Hess

14h00 - 14h20 Socio-economic analysis of Harmful Algal Blooms (HAB)' impact in the French Channel area and support from Sentinel-3 satellite products for detecting HABs (S-3 EUROHAB).

Raux Pascal, Chenouf Sarra, Pérez Agúndez José

14h20 - 14h40 Impacts of Harmful Algal Blooms (HABs) in the French Channel area. Focus on the great scallop (*Pecten maximus*) fishery of the Eastern Channel
Chenouf Sarra, Pérez Agúndez José, Pascal Raux

14h40 - 15h00 MASCOET: Maintien du Stock de Coquillages en lien avec la problématique des Efflorescences Toxiques

Blanchet-Aurigny Aline, Cugier Philippe

15h00 - 15h20 Integrating various data products to predict risk and impacts of HAB events on the Aquaculture Sector (PRIMROSE- Project 2018-2020).

Sourisseau Marc, Silke Joe, Schmidt Wiekbe, Hastie Lee, Maguire Julie, Davidson Keith, Henderson Ruth, Miller Peter, Ruiz Manuel, Matteus Marcus, Maman Luz, Ferrer Luis, Le Gac Mickael

15h20 - 15h50 **Pause-café**

15h50 - 17h00 **Session de projets avec implication des professionnels suivi de discussions sur la démarche prospective**

15h50 - 16h10 Culture of prey organisms of *Dinophysis* helps explain why its occurrence along the French Atlantic coast does not show trends over a 20-year period.
Gaillard Sylvain, Travers Muriel, Carpentier Liliane, Charrier Aurélie, Malo Florent, Bougaran Gaël, Irison Jean-Olivier, Sourisseau Marc, Hégaret Hélène, Séchet Véronique, Hess Philipp

16h10 - 16h30 : ALERTOX-Net: detection of emerging toxins and the monitoring systems of tomorrow

Hess Philipp, Reveillon Damien, Araoz Romulo, Servent Denis

16h30 - 17h00 Discussions prospectives animées par Philipp Hess

17h00 - 17h30 **Session “speed talk”**

Chair de session : Enora Briand

17h00 - 17h05 Insights on the phytoplankton community structure in the Bay of Seine and the standing of *Pseudo-nitzschia* sp. and *Dinophysis* sp.

Lefran Angéline, Claquin Pascal, Gohin Francis, Hernandez Fariñas Tania

17h05 - 17h10 Short-term effects of salinity and temperature stresses on DMSP and PSTs content in *Alexandrium catenella* groupe IV and *Alexandrium minutum*

Sergent Tanguy, Geffroy Solène, Herve Fabienne, Rovillon Georges-Augustin, Caruana Amandine

17h10 - 17h15 Selectivity of the extraction solvent for maitotoxins and ciguatoxins from lyophilised biomass of *Gambierdiscus excentricus*.

Yon Thomas, Lanceleur Rachele, Lhaute Korian, Sibat-Dubois Manoëlla, Malo Florent, Reveillon Damien, Fessard Valérie, Holland Chris, Litaker Wayne, Hess Philipp

17h15 - 17h20 Intra- and inter-specific variability of toxin and metabolite profiles of *Dinophysis* spp.

Danthu Charline, Gaillard Sylvain, Sibat Manoëlla, Reveillon Damien, Séchet Véronique, Hess Philipp

17h20 - 17h25 Towards the standardization of a new optimized post-column oxidation method for PSP toxin determination in shellfish

Bodi Dorina, Kapp Katrin, Preiss-Weigert Angelika

17h25 - 17h30 Co-culture model Caco-2/HT29-MTX: a promising tool for toxicity investigation of phycotoxins on the intestinal barrier

Reale Océane, Huguet Antoine, Fessard Valérie

17h30 - 20h00 **Session apéro - posters (offert par Novakits)**

Jeudi 16 Mai 2019

9h00 - 10h30 **Session scientifique (axes 1 à 4)**

Chair de session : Cécile Jauzein

9h00 - 9h15 Neuroblastoma (neuro-2a) cell-based assay: Investigating factors affecting performance for detecting marine neurotoxins

Loeffler Christopher, Bodi Dorina, Tartaglione Luciana, Dell'avesano Carmela, Preiss-Weigert Angelika

9h15 - 9h30 Cathepsin S and PAR-2 are new targets involved in the ciguatera-induced release of neuropeptides: potential applications to relieve ciguatera sensory disturbances

Pierre Ophélie, L'herondelle Killian, Fouyet Sophie, Leschiera Raphaël, Le Gall-Ianotto Christelle, Philippe Réginald, Buscaglia Paul, Mignen Olivier, Talagas Matthieu, Lewis Richard J., Misery Laurent, Le Garrec Raphaële

9h30 - 9h45 Contribution of *sxtA4* gene in STXs production of *A. minutum* and *A. catenella*

Geffroy Solène, Lechat Marc-Marie, Herve Fabienne, Rovillon Georges-Augustin, Guillou Laure, Amzil Zouher, Caruana Amandine

9h45 - 10h00 Dynamics of the dinoflagellate *Lepidodinium chlorophorum* in Southern Brittany: controlling factors and consequences for exploited ecosystems

Roux Pauline, Schapira Mathilde, Siano Raffaele, Fleury Elodie, Mertens Kenneth Neil, André Coralie, Cochennec Laureau Nathalie

10h00 - 10h15 Influence of temperature and light intensity on *Ostreopsis* cf. *ovata* growth and toxin content.

Gémin Marin-Pierre, Reveillon Damien, Herve Fabienne, Bertrand Samuel, Séchet Véronique, Lemée Rodolphe, Amzil Zouher

10h15 - 10h30 Chemical ecology of Benthic HABs: the impact of NW Mediterranean *Ostreopsis* cf. *ovata* on copepods

Pavaux Anne-Sophie, Lemée Rodolphe, Gasparini Stéphane, Guidi-Guilvard Laurence, Marro Sophie, Rostan Julie

10h30 - 11h00 Pause-café

11h00 - 12h30 Session science des axes 1 à 4 et Session restitution mini-projets

Chair de session : Nathalie Arnich

11h00 - 11h15 Salt stress response of brackish and freshwater strains of *microcystis aeruginosa*

Georges Des Aulnois Maxime, Herve Fabienne, Caruana Amandine, Briand Enora, Dittmann Elke, Bormans Myriam, Amzil Zouher

11h15 - 11h30 Taxonomic characterization of *Ostreopsis* in the French West Indies (CARTAGO project)

Boisnoir Aurélie, Bilien Gwenaél, Lemée Rodolphe, Chomérat Nicolas

11h30 - 11h45 PARACIDE : Links between Programmed Cell Death and parasite infection pathways in microalgae

Long Marc, Szymczak Jeremy, Marie Dominique, Estelle Bigeard, Guillou Laure, Cécile Jauzein

11h45 - 12h00 Algal Blooms from Polynesian Lagoons: New Sources of Bioactive Compounds?

Longo Sébastien, Guérineau Vincent, Girault-Sotias Pierre-Emmanuel, Servent Denis, Chinain Mireille, Araoz Romulo

12h00-12h15 Comparison of the toxicity of palytoxin and extracts of *Ostreopsis cf. ovata* on a set of cell lines

Fessard Valérie, Lanceleur Rachelle, Gemin Marin-Pierre, Réveillon Damien, Zouher Amzil, Thomas Olivier

12h15 - 12h30 Assemblée générale du GdR

12h30 - 14h00 Pause-déjeuner

14h00 - 15h00 Restitutions des ateliers

14h00 - 14h20 *Alexandrium* spp. et les toxines paralysantes en France

Caroline Fabioux, Mickaël Le Gac et Damien Réveillon

14h20 - 14h40 *Pseudo-nitzschia* et l'acide domoïque en France : écologie, production, devenir et conséquences sur les écosystèmes côtiers

Amandine Caruana, Juliette Fauchot et Anne Thébault

14h40 - 15h00 Nouvelles espèces émergentes en Europe et en France

Valérie Fessard, Philipp Hess et Nicolas Chomérat

15h00 - 15h30 Pause-café

15h30 - 17h30 Session science des axes 1 à 4 et clôture/remise des prix

Chair de session : Damien Tran

- 15h30 - 15h45 Study of the Food web transfer of pinnatoxin G and Portimine produced by the dinoflagellate *Vulcanodinium rugosum* and the effect of this HAB species on the physiology of the main copepods developing in the Mediterranean Ingril and Thau lagoon
Abadie Eric, Deschler Marie, Herve Fabienne, Derrien Amélie, Hubert Clarisse, Crottier Anaïs, Foucault Elodie, Amzil Zouher, Rolland Jean-Luc, Masseret Estelle, Antajan Elvire, Laabir Mohamed
- 15h45 - 16h00 Microorganisms Chemical Mediation in a Marine Environment ? When Fungus induces Microalgal toxine production!
Bertrand Samuel, Maud Chaigne, Bagot Alizé, Gutierrez Ruth, Ruiz Nicolas, Briand Enora, Pisapia Francesco, Pouchus Yves François, Hess Philipp
- 16h00 - 16h15 Role of the toxic micro-alga, *Alexandrium pacificum* (*A. catenella*) in the virulence of *Vibrio tasmaniensis* LGP32 a pathogenic bacteria for the oyster *Crassostrea gigas*.
Rolland Jean-Luc
- 16h15 - 16h30 (Semi-)automated in vivo approaches for characterizing HAB and other phytoplankton blooms in European coastal waters: News from the Joint European Research Infrastructure for Coastal Observatories – New Expertise (JERICO-Next)
Felipe Artigas
- 16h30 - 16h45 Assessment of dispersion and transport of HAB: tracking based on satellite Chlorophyll maps
Camille Dezecache, Romaric Verney, Francis Gohin, Alain Lefebvre
- 16h45 - 17h30 Clôture et remise des prix**