

Program

Tuesday 14 March 2017

- 13:30-14:00** Welcome coffee and inscription
- 14:00-14:15** Introductory speech
- 14:15-15:00** **Invited conference: The Integrated Pest Management Model as a Framework for Aquaculture HAB Mitigation**
Gary Wikfors
- 15:00-16:00** **THEME: Effects of HABs on professional sectors and society at large: from legal and socio-economic perspectives**
Chairmans: *Christophe Laplace-Trepture & Rodolphe Lemée*
- 15:00-15:15 Coordinating the implementation of the interagency Global CFP Strategy
Mireille Chinain, Marie-Yasmine Dechraoui Bottein, Philipp Hess
- 15:15-15:30 Pinnatoxins, an emergent class of fast-acting marine toxins, are potential threat for neurodevelopment and global health
Sophie Creuzet, Aurélie Couesnon, Vincent Dive, Armen Zakarian, Jordi Molgó, Denis Servant
- 15:30-15:45 Eaters of oyster: From the risk of contamination by toxic algae to social representations and practices of consumption
Elisabeth Guillou, Adeline Raymond
- 15:45-16:00 Thinking out of the box: finding new ways of regulating marine toxins
Marie Bonnin, Hélène Hégarret, Philippe Soudant, Philippe Fotso, Caroline Fabioux, Philipp Hess
- 16:00-16:30** Coffee break
- 16:30-18:15** **THEME: Tropics**
Chairmans: *Christophe Laplace-Trepture & Rodolphe Lemée*
- 16:30-16:45 Ciguatera incidence in the Caribbean Islands
Jose Ernesto Mancera
- 16:45-17:00 Microalgae from French Polynesian lagoons: novel source of bioactive compounds?
Mireille Chinain, Sebastien Longo, Kevin Henry, André Ung, Taiana Darius, Jérôme Viallon, Martine Rodier, Bruno Delesalle, Alain Lo-Yat, Gilles Le Moullac, Romulo Araoz
- 17:00-17:15 Distribution and abundances of benthic toxic dinoflagellates in French West Indies
Aurélie Boisnoir, Pierre-Yves Pascal, Sophie Marro, Rodolphe Lemée
- 17:15-17:30 Taxonomic diversity of the dinoflagellate genus *Ostreopsis* in French Polynesia: preliminary results from Marquesas Islands (Pacific Ocean)
Nicolas Chomérat, Clémence Gatti, Gwenael Bilien, André Ung, H. Taiana Darius, R. Wayne Litaker, Patricia Tester, Mireille Chinain
- 17:30-17:45 Taxonomic characterization of *Gambierdiscus* species in Reunion Island, Indian Ocean
Alina Tunin-Ley, Nicolas Chomérat, Gwenael Bilien, Jean Turquet

- 17:45 18:00 Environmental control and dynamics of blooms of the benthic toxic dinoflagellate *Ostreopsis* cf. *ovata* in the Mediterranean Sea
Cécile Jauzein, Rodolphe Lemée
- 18h00 18h15 *Ostreopsis* blooms at the global scale: influence of macroalgal communities
Luisa Passeron Mangialajo, Rodolphe Lemée, Anna Fricke, Daniela Catania, Sarah Kulins, Cécile Jauzein, Nick Shears
- 18:15-19:00 GdR Phycotox Annual general meeting**
- 19:00-20:00** Welcome cocktail

Wednesday 15 March 2017

- 09:00-09:45 Invited conference: The diatom genus *Pseudo-nitzschia* in the Gulf of Naples (Mediterranean Sea): exploring diversity and life history traits**
Marina Montresor
- 09:45-10:45 THEME: Ecology of HAB**
Chairmans: Delphine Latour & Mathilde Schapira
- 09:45-10:00 Genetic, morphological and ecological evidence of new oomycete parasites of the toxic diatom genus *Pseudo-nitzschia*
Garvetto Andrea, Claire Gachon, Elisabeth Nézan, Raffaele Siano
- 10:00-10:15 Effects of salinity variation on the physiology and domoic acid production by two strains of *Pseudo-nitzschia australis*
Nour Ayache, Amandine Caruana, Fabienne Hervé, Zouher Amzil
- 10:15-10:30 Interspecific and intraspecific variability in physiology among four *Pseudo-nitzschia* species
Aurore Sauvey, Pascal Claquin, Juliette Fauchot
- 10:30-10:45 Nutrient ratios influence variability in *Pseudo-nitzschia* species diversity and particulate domoic acid production in the Bay of Seine (France)
Juliette Fauchot, Maxine Thorel, Mathilde Schapira, Romain Le Gendre, Philippe Riou, Didier Goux, Bertrand Le Roy, Virginie Rimbault, Anne-Flore Deton-Cabanillas, Pauline Bazin, Valérie Kientz-Bouchart, Pascal Claquin
- 10:45-11:15** Coffee break
- 11:15-12:30 THEME: Diversity and theoretical ecological niches of HAB, synthesis and transformation of metabolites, analytical challenges**
Chairmans: Delphine Latour & Mathilde Schapira
- 11:15-11:30 Benthic *Planktothrix* and their antifungal natural products
Claire Pancrace, Jouni Jokela, Nathalie Sassoon, Christelle Ganneau, Marie Desnos-Ollivier, Matti Wahlsten, Anu Humisto, Alexandra Calteau, Sylvie Bay, David P. Fewer, Kaarina Sivonen, Muriel Gugger
- 11:30-11:45 From cyanobacteria to mammals: role of ergothionein, glutathione and its analogs in stressors signalling and detoxication
Kinsley Narainsamy, Christophe Junot, Corinne Cassier-Chauvat, Franck Chauvat

- 11:45-12:00 Latest advances in two functional methods to detect ciguatoxins (CTXs): the Receptor Binding Assay (RBA) & the Cell Based Assay (CBA-N2a)
Taiana Darius, Jérôme Viallon, Jennifer Mc Call, Taina Revel, Ransom Hardison, William Holland, Patricia Tester, Wayne Litaker, Mireille Chinain
- 12:15-12:30 Rapid characterization of microcystin-producing cyanobacteria in freshwater lakes by TSA-FISH (Tyramid Signal Amplification - Fluorescent In Situ Hybridization)
Isabelle Biegala, Luc Brient
- 12:30-14:00** Lunch
- 14:00-14:45** **Invited conference: The Užice Case**
Jussy Meriluoto, Zorica Svirčev
- 14:45-16:15** **THEME: Human and animal toxicology**
Chairmans: Benjamin Marie & Ronel Biré
- 14:45-15:00 Mixtures of lipophilic phycotoxins: exposure data and in vitro toxicity assessment
Jimmy Alarcan, Ronel Biré, Ludovic Le Hegarat, Valérie Fessard
- 15:00-15:15 *Ostreopsis* cf. *ovata* blooms in the NW Mediterranean: Exploring the links between toxins variability and impacts on human health
Elisa Berdalet, Rafael Abós-Herrándiz, Marta Estrada
- 15:15-15:30 Maitotoxin-4, a novel MTX analog produced by *Gambierdiscus excentricus*
Francesco Pisapia, Manoëlla Sibat, Christine Herrenknecht, Korian Lhaute, Greta Gaiani, Pierre-Jean Ferron, Valérie Fessard, Catherine Roullier, Santiago Fraga, Silvia Nascimento, Wayne Litaker, Philipp Hess
- 15:30-15:45 Transgenerational effects of Microcystin-LR on *Daphnia magna*
Claudia Wiegand, Rafael Ortiz-Rodríguez, Thanh Dao
- 15:45-16:00 Gambierol enhances quantal acetylcholine release from motor nerve terminals of vertebrate neuromuscular junctions
Jordi Molgó, Sébastien Schlumberger, Makoto Sasaki, Haruhiko Fuwa, M. Louzao, Luis Botana, Evelyne Benoit
- 16:00-16:15 Receptor-based lateral flow test for fast and early detection of neurotoxins acting on nicotinic acetylcholine receptors
Romulo Araoz, Denis Servent
- 16:15-16:45** Coffee break
- 16:45-17:15** **POSTER SESSION: My poster in 3 minutes**
Chairman: Valérie Fessard
- 17:15-19:30** **POSTER SESSION**
- 18:30-19:30** *Réunion du comité de pilotage pour préparer la conférence ICHA 2018 à Nantes*
- 19:30** Diner cocktail

Thursday 16 March 2017

- 09:00-09:45** Invited conference: Differential Effects of Algal Toxins on Grazing by the Marine Copepod *Acartia tonsa*
Patricia Tester, Jiarong Hong, Rebecca Waggett, Joseph Katz, Allen Place, Erik Davenport
- 09:45-10:45** THEME: Effects of HAB on marine organisms and ecosystems, trophic transfer, etc.
Chairmans: Juliette Fauchot & Cécile Bernard
- 09:45-10:00 Interest of bivalves for the biosurvey of environmental contamination by cyanobacterial toxins
Emilie Lance, Zouher Amzil, Alexandra Lepoutre, Luc Brient, Myriam Bormans
- 10:00-10:15 Impacts of *Alexandrium minutum* on the reproduction of the oyster *Crassostrea gigas*: from gametogenesis to larval settlement
Justine Castrec, Philippe Soudant, Marianne Alunno Bruscia, Bruno Petton, Isabelle Queau, Marc Suquet, Dominique Ratiskol, Jacqueline Le Grand, Christian Mingant, Nelly Le Goic, Hélène Hégaret, Caroline Fabioux
- 10:15-10:30 Impact of the environmental toxin BMAA on the immune system of the zebra mussel *Dreissena polymorpha*.
Alexandra Lepoutre, Nadia Milliotte, Mélissa Palos Ladeiro, Marc Bonnard, Elisabeth Faassen, Alain Geffard, Emilie Lance
- 10:30-10:45 Metabolomics for cyanobacteria ecotoxicology: insights from the Toxycyfish project
Benjamin Marie, Benoit Sotton, Séverine Le Manach, Alain Paris
- 10:45-11:15** Coffee break
- 11:15-11:30 Short term effects of the allelochemicals released by the toxic dinoflagellate *Alexandrium minutum* upon the diatom *Chaetoceros* sp.
Marc Long, Kevin Tallec, Philippe Soudant, Fabienne Le Grand, Géraldine Sarthou, Dianne Jolley, Hélène Hégaret
- 11:30-11:45 Phenolic compounds from the seagrasses *Zostera marina* and *Zostera noltei* affect negatively the physiology of the neurotoxic dinoflagellate *Alexandrium catenella*
Mohamed Laabir
- 11:45-12:00 Paralytic Shellfish Toxin accumulation in oyster is predicted by gene expression
Audrey Mat, Christophe Klopp, Laura Payton, Céline Jeziorski, Morgane Chalopin, Zouher Amzil, Damien Tran, Hélène Hégaret, Philippe Soudant, Caroline Fabioux, Arnaud Huvet
- 12:00-12:15 The Paralytic Shellfish Toxin, Saxitoxin, enters the cytoplasm and induces apoptosis of oyster immune cells via a caspases-dependent pathway
Jean-Luc Rolland, Céline Abi-Khalil, Darren Finkelstein, Genevieve Conejero, Justin Du Bois, Delphine Destoumieux-Garzon
- 12:15-12:30 Continued feeding with *Gambierdiscus polynesiensis* causes increasing accumulation of ciguatoxin over 16 weeks in an herbivorous reef fish
Rachel Clausing, Barbara Losen, Taiana Darius, Philipp Hess, Manoella Sibat, Jerome Viallon, Mireille Chinain, Marie-Yasmine Dechraoui Bottein

- 12:30-12:45 Molecular Characterization of Voltage-Gated Sodium Channels and Their Relations with Paralytic Shellfish Toxin Bioaccumulation in the Pacific Oyster *Crassostrea gigas*
Floriane Boullot, Justine Castrec, Adeline Bidault-Toffin, Natanael Dantas, Laura Payton, Mickael Perrigault, Damien Tran, Zouher Amzil, Pierre Boudry, Philippe Soudant, H  l  ne Hegaret, Caroline Fabioux
- 12:45-14:15 Lunch
- 14:15-15:00 **Invited conference: Strategies to reduce toxins in shellfish**
Ana Garcia-Cabado
- 15:00-16:15 **THEME: Diversity and theoretical ecological niches of HAB, synthesis and transformation of metabolites, analytical challenges**
Chairmans: Jo  l Robin & Elisa Berdalet
- 15:00-15:15 Monitoring and modelling cyanobacteria biomass in a small urban lake
Denis Plec, Lucas Jardim Porto, Bruno Lemaire, Philippe Dubois, Mohamed Saad, C  cile Bernard, Laure Huguenard, Brigitte Vin  on-Leite
- 15:15-15:30 Temperature and stratification of the artificial lake and the proliferation of cyanobacteria, case of the lake of the Eguzon dam - France
Zoubida Qsair, Laurent Touchart, Pascal Bartout
- 15:30-15:45 Genetic diversity of the toxic bloom-forming cyanobacterium *Microcystis aeruginosa*: a meta-analysis at large spatial and temporal scales
Marion Sabart, Benjamin Misson, Marl  ne Jobard, Gaofei Song, Li Renhui, Delphine Latour
- 15:45-16:00 Wise use of metabolomics in the field of marine chemical ecology
Eva Ternon, Anne-Sophie Pavaux, Olivier Thomas
- 16:00-16:15 Metabolomics of ancient populations of dinoflagellates in phosphorous-limited conditions
Raffaele Siano, Florence Mondeguer, Marie Latimier, Julien Qu  r  , Manoella Sibat, Laure Guillou, Philipp Hess
- 16:15 End of the symposium