Invitation

Conservation Physiology of Marine Fishes: Current Status and Prospects for Policy

The Management Committee of the EU COST Action on **Conservation Physiology of Marine Fishes** *(http://fish-conservation.nu/)* would like to invite you* to our final Dissemination Conference.

This conferences aims to **establish dialogue between physiologists and fisheries managers/decision makers**, in order to:
- identify pressing policy, management and conservation challenges, particularly in relation to climate change,
- assess how conservation physiology can be used to address these.

The conference will be held at the Aquarium Mare Nostrum, Odysseum, Montpellier, France, on 19th & 20th May, 2015.

Marine fishes are valuable resources, for ecosystem integrity and as food. The biodiversity and abundance of marine fishes are, however, threatened by anthropogenic climate change and exploitation. Their sustainable management requires inter-disciplinary cooperation at an international level, with policy underpinned by a sound understanding of fish biology.

Physiology can provide an understanding of patterns of distribution and diversity of organisms, and of their responses to environmental change from local to global scales. **Conservation physiology** is the application of such physiological knowledge and tools in conservation research. Its strength lies in the potential to provide mechanistic, cause-and-effect understanding of how environmental factors influence distribution and abundance of marine fishes. This can be used in advice tools to support the development of fisheries management and conservation actions.

This conference is the culmination of a 4-year programme of meetings, workshops and short-term scientific missions funded by the European Union's **Cooperation in Science and Technology (COST)** initiative as part of COST Action FA1004. Together, these have developed our ideas about ways in which physiological tools and knowledge could support fisheries conservation and management.

The conference programme will allow advisors, decision makers and other "end-users" to view:
- the state of the art of research in the field of Conservation Physiology of Marine Fishes,
- approaches and scope to integrate physiology research into management and conservation plans.

This will provide the context for a **facilitated round-table discussion**, to examine how physiology can be used to improve scientific advice for fisheries management and conservation, and for associated policy development.

We would be delighted if you could participate and look forward to your confirmation.

Best regards,
FA1004 COST Action Management Committee

We are grateful to the **EU COST** programme, the **Region Languedoc-Roussillon**, the **Centre for Marine Biodiversity Exploitation and Conservation**, and the **Aquarium Mare Nostrum**, for their support.

Please confirm you participation to david.mckenzie@univ-montp2.fr

*The COST Action will cover all travel, hotel and subsistence costs for the meeting according to the EU COST funding rules. Attendance is by invitation only. Please contact David McKenzie if you want further information about you, or your colleagues, attending.

Conference details:

Location: Aquarium Mare Nostrum, Odysseum, Montpellier.
For additional info see **www.aquariummarenostrum.fr/en** and **www.ot-montpellier.fr/en/**
Dates: 19th and 20th May 2015

General Programme and provisional list of Contributors

Tuesday 19 May — Conservation physiology and marine fish: State of the art

Speaker	Title
Dave Patterson (Fisheries & Oceans Canada)	Fraser river salmon
Andrij Horodysky (Hampton University)	Physiology and large marine pelagics
Tom Catchpole (CEFAS Lowestoft)	By-catch and discarding
Göran Nilsson (University of Oslo)	Ocean acidification
Tobias Wang (University of Aarhus)	Oxygen and tolerance of warm temperatures
Dave Righton (CEFAS Lowestoft)	Biotelemetry and habitat quality
Rod Wilson (University of Exeter)	Fishes and global carbon cycles
Fabien Leprieur (University of Montpellier)	Physiology and climate envelope models
William Cheung (University of British Columbia)	Climate envelope models and fisheries
Paolo Domenici (CNR Oristano)	Modelling physiology of invasive species
Christian Jørgensen (UniResearch Bergen)	Physiology and life history models
Lorna Teal (IMARES Wageningen)	Dynamic Energy Budget models
Jaap van de Meer (VU Amsterdam)	Individual variation in ecological models

Wednesday 20 May — Applications for conservation physiology in resource management

Speaker	Title
Hans-Otto Pörtner (AWI Bremerhaven)	Resolving effects of multiple stressors
Steven Cooke (Carleton University)	Ecosystems Approach to Fisheries
Myron Peck (University of Hamburg)	Physiology and forecast models
Silvana Birchenough (CEFAS Lowestoft)	Biological Traits Analysis
Andrew Pullin (Bangor University)	Evidence-based conservation
Keith Brander (DTU, Copenhagen)	Marine ecosystem policy and management

All contributors are expected to contribute a paper to a special issue of the journal "Conservation Physiology" (https://mc.manuscriptcentral.com/conphys) which will serve as a legacy of the COST action.

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20 May 2015 : Round Table

Perspectives for conservation physiology of marine fishes in Europe

The facilitated round-table discussions on day two will provide an opportunity for **you to highlight key policy and research issues in Marine Conservation** and to exchange views about the future for marine fish conservation physiology research. The discussion will be based upon the state of the art as presented at the conference, and will lead to a position paper to be published in the special issue of Conservation Physiology.

Below are some of the suggested issues for consideration. **Please feel free to propose additional key talking points.**

What priority management issues should be addressed by researchers working in the field of conservation physiology?	How can conservation physiology help us bridge the knowledge-action boundary and enable managers to act?
What are the barriers to knowledge exchange between scientific research and advisory processes with respect to climate change and how can we overcome them?	Can curiosity-driven research in physiology be useful for conservation?
How can we refine policy/management issues so they can be more readily reflected into scientific questions and research proposals?	How can we simplify the outcome of conservation physiology research so that its relevance can be more easily appreciated and understood by policy advisors, managers and conservationists?

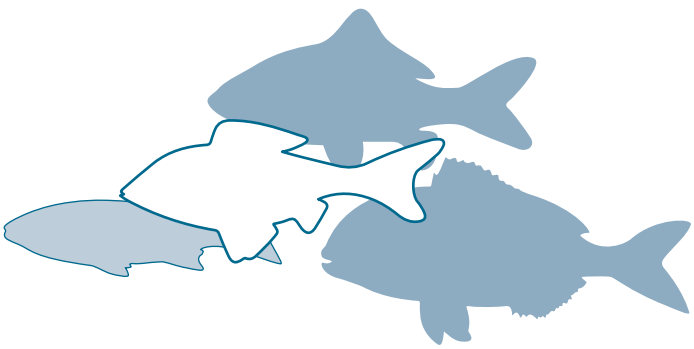
Local Organising Committee

François Guilhaumon
Institut de Recherche pour le Developpement, UMR Marbec

Fabien Leprieur
University of Montpellier, UMR Marbec

David McKenzie
Centre National de la Recherche Scientifique, UMR Marbec

Jennifer Tournois
CNRS, UMR Marbec



Conference Scientific Committee

Gudrun De Boeck University of Antwerp, Belgium
Paolo Domenici CNR Oristano, Italy
Pedro Guerreiro University of the Algarve, Portugal
François Guilhaumon IRD Montpellier, France
Bojan Hamer Ruder Boskovic Institute, Rovinj, Croatia
Christian Jørgensen Uni-Research, Bergen, Norway
Fabien Leprieur University of Montpellier, France
David McKenzie CNRS Montpellier, France
Julian Metcalfe Cefas Lowestoft, United Kingdom
Basile Michaelidis Aristotle University of Thessaloniki, Greece
Myron Peck University of Hamburg, Germany
Angel Perez-Ruzafa University of Murcia, Spain
Hans-Otto Pörtner AWI Bremerhaven, Germany
Adriaan Rijnsdorp IMARES Wageningen UR, Netherlands
John Fleng Steffensen University of Copenhagen, Denmark
Rod Wilson University of Exeter, United Kingdom