

COST Action no. FA1301

A network for improvement of cephalopod welfare husbandry in research, aquaculture and fisheries (**CephsInAction**)

2013 | 2017

Objectives

- Implement general guidelines and experimental practices for cephalopods; accumulate data to improve and refine codes of practice for the use of cephalopods in research
- Improvement of species-specific best practices and development of new technologies, including non-invasive approaches to improve research on cephalopods welfare
- Development of new technologies and experimental approaches to promote the 3Rs principle
- Coordination of on-going national research projects and new proposals (CoRP)
- Provide proper training on experimental practices, procedures also to facilitate Dissemination

The goal of Ceph*s*InAction is to facilitate scientific cooperation and dissemination of knowledge to promote multi-disciplinary research on cephalopods biology

www.cost.eu/fa



Food and Agriculture (FA)

Participating countries

AT, BG, DE, EL, ES, FR, HR, IE, IL, IT, MK, MT, NL, NO, PT, UK

COST NNC: ME

Contact details

Chair of the Action

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Action Website

www.cephsinaction.org

Domain website:

www.cost.eu/fa



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Working Group activities

Working Group 1. Research Needs in Cephalopods Welfare

- Assess best laboratory practices to implement the 3Rs principle to cephalopods for experimental, training and display purposes
- Review Optimal and Species-Specific Rearing Conditions, including environmental and nutritional factors
- Assess environmental needs for different Cephalopod Species for increasing Welfare of the animals

Working Group 2. Stress & Diseases

- Evaluate Signs and Indicators of Stress, Pain, Suffering and Immune Response
- Classify, Diagnose and Prevent Diseases in Cephalopods
- Explore Non-Invasive Methods to Assess the Health Conditions in Live Individuals

Working Group 3. Neurophysiology, Anaesthesia and Humane-End-Points

- Evaluate the Existent Protocols in Neurophysiology and Behavioral Pharmacology to Verify Applicability and Standardize Methodology
- Promote Research on the Effects of Common Anesthetic Agents and Explore Alternatives
- Evaluate Humane-End-Points, Euthanasia Practices and Criteria for Death Confirmation
- Explore Non-Invasive Methods for Assessing Physiological status of the animals

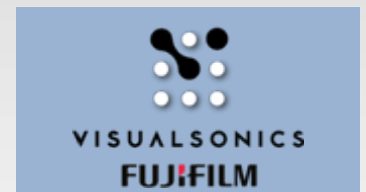
Working Group 4. Development of a Cephalopod Welfare Index Model (CWIM)

- Characterization of Welfare Indicators (Integration of data from other WGs)
- Develop Overall Assessment of Welfare (OWA) by semantic modeling to develop a Cephalopod Welfare Index Model (CWIM)

Working Group 5. Education and Training

- Dissemination and Training activities
- Development of Educational material including audiovisual alternatives (inspired to NORINA Database of Alternatives)

Industry participation



FujiFilm VisualSonics
Amsterdam, The Netherlands
www.visualsonics.com



AquaBioTech Group
Mosta, Malta
www.aquabt.com



Octopus vulgaris embryo, stage XVI



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