



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

FA1301

Start date: 14/10/2013

End date: 13/10/2017

Year: *Starting*

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Chair of the Action

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Scientific context and objectives (1/2)

- **Knowledge on cephalopod welfare requires attention:**
cephalopods are the sole invertebrate taxon included in the European Directive on animal use for scientific and educational purposes (Directive 2010/63/EU). **Efforts are required** to facilitate cooperation on key aspects of cephs' biology and physiology, and to facilitate research on these invertebrates to increase knowledge and practice on their welfare in research, aquaculture and fisheries
- **CephsInAction is aimed to** establish an interdisciplinary network of experts to:
 - **promote training and dissemination**
 - **sharing of tools and knowledge**
 - **improve experimental best practices**
 - **foster multi-disciplinary and inter-species scientific exchanges to integrate knowledge on welfare practices**

Scientific context and objectives (2/2)

1. Implement existing General Guidelines for the care and use of cephalopods for experimental purposes
2. Accumulate data to improve and refine Codes of Practice for the use of cephalopods
3. Advance cephalopod welfare in research
4. Coordination of on-going national research projects and new proposals
5. Provide proper training on newly established cephalopod husbandry guidelines and experimental practices
6. Develop non-invasive techniques and approaches

TASKS

Task 1

- IMPROVE GUIDELINES AND EXPERIMENTAL PRACTICES

Task 2

- IMPROVE SPECIES SPECIFIC RESEARCH PROCEDURES

Task 3

- DEVELOP NEW APPROCHES TO PROMOTE 3Rs PRINCIPLE

Task 4

- DISSEMINATION & EDUCATION



Working groups

- 1. Working Group 1. Research Needs in Cephalopods Welfare**
- 2. Working Group 2. Stress & Diseases**
- 3. Working Group 3. Neurophysiology, Anaesthesia and Humane-End-Points**
- 4. Working Group 4. Development of a Cephalopod Welfare Index Model (CWIM)**
- 5. Working Group 5. Education and Training**

Future Plan and Challenges

Promote research and advance standardisation of approaches

Research: allow European researchers to comply with the Directive, promote European collaboration, attract international interest

Fisheries: improve breeding conditions of cephalopods and provide guidance on welfare-based capture and transport methods

Society: increase awareness, promote cephalopod conservation, contribute to European society ethics and animal care, aid Policy makers

Industry: establishment of collaborations for use of new technologies (i.e. ultrasound system)

➤ **5 STSMs**

➤ **collaborations with
VisualSonics - NL
AquaBioTec - Malta
NOLDUS – NL**

➤ **approach FELASA for
development of accredited training
program**

➤ **database of procedures and
practices**



MC and All WG meeting, 14-16 March, 2014 - Barcelona, Spain