

Work And Budget Plan
FA1301 Grant Agreement Period 4
 01/05/2016 to 30/04/2017

Section I: Action Profile

Action General Information

Action Code	FA1301	MC Chair	Dr Giovanna Ponte
Action Title	FA1301 - A network for improvement of cephalopod welfare and husbandry in research, aquaculture and fisheries (CephInAction)		
MOU	015/13	Draft MOU	oc-2012-2-13105
CSO Approval Date	2013-05-16		
Action Start Date	2013-10-14	Action End Date	2017-10-13
Science Officer	Dr Ioanna Stavridou	Administrative Officer	Mr Christophe Peeters

Participating COST Member Countries and Cooperating State:

	ITC		Non-ITC		Total
Cost Countries having accepted the MOU	Number	6	Number	14	20
	% of all ITCs	30%	% of all non-ITCs	70%	
Number of MC Members	10		26		36

Country and Acceptance Date		
AT 28/02/2014	EL 01/10/2013	NO 26/08/2013
BE 23/03/2016	IE 28/06/2013	PT 11/09/2013
BG 03/07/2014	IL 11/06/2013	RS 22/01/2015
HR 14/02/2014	IT 09/07/2013	ES 04/06/2013
DK 20/04/2015	MT 12/02/2014	UK 30/05/2013
FR 17/06/2013	ME 29/05/2015	MK 14/05/2014
DE 17/06/2013	NL 03/09/2013	

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International cooperation

	NNC	IPC	Specific Organisation	Total
Number of entities formally approved to join Action	0	1	0	1
Number of countries	0	1	0	1

Working Groups

	WG Title	WG Leader	Number of Members
WG1	Research Needs in Cephalopods Welfare	-	125
WG2	Stress & Disease	Dr Camino Gestal	115
WG3	Neurophysiology, Anaesthesia and Humane-end-points	Prof Binyamin Hochner	111
WG4	Development of a Cephalopod Welfare Index (CWI)	Dr Lars Helge Stien	110
WG5	Education and training	Prof Nadav Shashar	116

Section II: MoU objectives and Grant Agreement Period Goals and Activities

Action Objectives from MoU

Aim/primary Objective	The main objective of the Action is to provide the scientific basis for advancing knowledge about cephalopod welfare in research, aquaculture and public displays and promote their conservation.
Secondary objectives	<ul style="list-style-type: none"> • Provide proper training on newly established cephalopod husbandry guidelines and experimental practices • Improve and implement existing general guidelines and experimental practices • Identify gaps of knowledge in cephalopod welfare, so that these can be addressed through the coordination of on-going national research projects • Review existing knowledge on species-specific differences in husbandry and treatment and develop species-specific guidelines • Further develop and establish new experimental practices for emerging scientific demands in cephalopod research • Promote cephalopod research and conservation • Promote information exchange and international cooperation • Advance the use of the 3 R's (replace, reduce, refine) principle in cephalopod research • review the best practices of anaesthetics currently used with cephalopods and systematically COST 015/13 9 TECHNICAL ANNEX EN investigate dose- and species-specific responses, mode of action, depth and length of anaesthesia and recovery time and cardio-circulatory performance • test potential analgesics and evaluate their efficacy • assess long-term effects of anaesthetics and different environmental conditions on brain development • characterize behavioural responses to noxious stimuli and define behavioural indices of pain • characterize physiological parameters linked to stress, suffering or pain, including biomarkers of immune response linked to disease • review optimal and species-specific rearing conditions, including environmental and nutritional factors • develop non-invasive and if possible automated techniques for assessing physiological parameters, for monitoring brain changes and effects of treatments • develop a model for assessing cephalopod welfare through integration of all influencing factors and available indices

Grant Agreement Period

Grant Agreement Period Start Date	01/05/2016	Grant Agreement Period End Date	30/04/2017
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Grant Agreement Period Goals

Number	Grant Agreement Period Goal	MoU Objective(s) it relates to
GAPG 1	Monitoring the impact of the transposition of Directive 2010/63/EU and MFSD in EU Member States and COST countries.	Aim/Primary objective Secondary objective 2 Secondary objective 3 Secondary objective 5 Secondary objective 6 Secondary objective 7 Secondary objective 8
GAPG 2	Monitoring and assist the application of "Guidelines for the Care and Welfare of Cephalopods in Research" and the improvement of experimental practices in EU Member States, COST countries and abroad.	Aim/Primary objective Secondary objective 1 Secondary objective 2 Secondary objective 3 Secondary objective 5 Secondary objective 6 Secondary objective 7 Secondary objective 8
GAPG 3	Fostering networking initiatives to enlarge and encompass the cephalopod community by increasing interaction with other scientific communities, veterinarians and regulators with the aim to significantly improve policies for the use of animals in research and other contexts.	Aim/Primary objective Secondary objective 1 Secondary objective 2 Secondary objective 6 Secondary objective 7 Secondary objective 8 Secondary objective 16
GAPG 4	Improve the available knowledge on cephalopod biology, physiology and behavioral plasticity that may affect animals? welfare.	Aim/Primary objective Secondary objective 2 Secondary objective 3 Secondary objective 4 Secondary objective 7 Secondary objective 8 Secondary objective 9 Secondary objective 11 Secondary objective 12 Secondary objective 13 Secondary objective 14 Secondary objective 15 Secondary objective 16
GAPG 5	Contribute to the development of knowledge on care, rearing, environmental and nutritional requirements of different cephalopod species to increase success and best-practice and to facilitate the standardization and increase animals? welfare thus contributing to the development of species-specific guidelines.	Aim/Primary objective Secondary objective 2 Secondary objective 3 Secondary objective 4 Secondary objective 7 Secondary objective 8

		<p>Secondary objective 13</p> <p>Secondary objective 14</p> <p>Secondary objective 16</p>
GAPG 6	<p>Further increase knowledge on behavioral, biological and physiological indicators of welfare for cephalopods. Development and promotion of the use of alternatives to live animals in research and of the use of non-invasive approaches.</p>	<p>Aim/Primary objective</p> <p>Secondary objective 1</p> <p>Secondary objective 2</p> <p>Secondary objective 3</p> <p>Secondary objective 5</p> <p>Secondary objective 6</p> <p>Secondary objective 7</p> <p>Secondary objective 8</p> <p>Secondary objective 9</p> <p>Secondary objective 10</p> <p>Secondary objective 11</p> <p>Secondary objective 13</p> <p>Secondary objective 15</p> <p>Secondary objective 16</p>
GAPG 7	<p>Contribute to the improvement of biological and physiological findings relevant to nociception, pain assessment and management, with specific relevance to cephalopods.</p>	<p>Aim/Primary objective</p> <p>Secondary objective 1</p> <p>Secondary objective 3</p> <p>Secondary objective 5</p> <p>Secondary objective 6</p> <p>Secondary objective 7</p> <p>Secondary objective 8</p> <p>Secondary objective 12</p> <p>Secondary objective 13</p> <p>Secondary objective 15</p> <p>Secondary objective 16</p>
GAPG 8	<p>Improve knowledge and best-practice on procedures including anesthesia and analgesia applied to cephalopods by monitoring physiological, and behavioral responses with the aim of improving monitoring, reduce potential stress and increase animals' welfare. Development of humane end-point.</p>	<p>Aim/Primary objective</p> <p>Secondary objective 1</p> <p>Secondary objective 2</p> <p>Secondary objective 3</p> <p>Secondary objective 5</p> <p>Secondary objective 6</p> <p>Secondary objective 7</p> <p>Secondary objective 8</p> <p>Secondary objective 9</p> <p>Secondary objective 10</p> <p>Secondary objective 11</p> <p>Secondary objective 15</p> <p>Secondary objective 16</p>
GAPG 9	<p>Provide guidance and increase of knowledge on the identification of diseases, signs of stress and damage of any origin in cephalopods. Development of monitoring tools – including the use of online databases as guidance and inventory of alternatives - for assessment of health status of cephalopods, thus facilitating the improvement of knowledge for management of their welfare, and providing guidance</p>	<p>Aim/Primary objective</p> <p>Secondary objective 1</p> <p>Secondary objective 2</p> <p>Secondary objective 3</p> <p>Secondary objective 5</p> <p>Secondary objective 6</p> <p>Secondary objective 7</p> <p>Secondary objective 13</p>

	for researchers, veterinarians and regulators.	<p>Secondary objective 14</p> <p>Secondary objective 15</p> <p>Secondary objective 16</p>
GAPG 10	Facilitate the increase of the current effort/interest for physiology and neurophysiological studies on cephalopods with the aim of increasing networking, inclusiveness and improve knowledge on animals? welfare.	<p>Aim/Primary objective</p> <p>Secondary objective 3</p> <p>Secondary objective 5</p> <p>Secondary objective 6</p> <p>Secondary objective 7</p> <p>Secondary objective 12</p> <p>Secondary objective 13</p> <p>Secondary objective 15</p> <p>Secondary objective 16</p>
GAPG 11	Improvement of the knowledge of the trophic relationship of cephalopods with other organisms, and their responses to natural and human-generated sound, to evaluate the impact on animals? welfare and behavior in compliance with Directive 2010/63/EU and MSFD.	<p>Aim/Primary objective</p> <p>Secondary objective 3</p> <p>Secondary objective 4</p> <p>Secondary objective 5</p> <p>Secondary objective 6</p> <p>Secondary objective 7</p> <p>Secondary objective 12</p> <p>Secondary objective 13</p> <p>Secondary objective 14</p> <p>Secondary objective 15</p> <p>Secondary objective 16</p>
GAPG 12	Facilitate the refinement and the application of a consensus in Severity Assessment of procedures utilized with cephalopods in compliance with Directive 2010/63/EU.	<p>Aim/Primary objective</p> <p>Secondary objective 1</p> <p>Secondary objective 2</p> <p>Secondary objective 3</p> <p>Secondary objective 5</p> <p>Secondary objective 7</p> <p>Secondary objective 8</p> <p>Secondary objective 16</p>
GAPG 13	Further development of the CephsInAction Cephalopod Welfare Index Model (CWI) to facilitate the best-practice in the identification of animals? behavioral, biological and physiological needs in order to determine indicators of cephalopods welfare.	<p>Aim/Primary objective</p> <p>Secondary objective 1</p> <p>Secondary objective 2</p> <p>Secondary objective 3</p> <p>Secondary objective 4</p> <p>Secondary objective 5</p> <p>Secondary objective 6</p> <p>Secondary objective 7</p> <p>Secondary objective 8</p> <p>Secondary objective 14</p> <p>Secondary objective 15</p> <p>Secondary objective 16</p>
GAPG 14	Increase Dissemination and Educational activities. Establish EU accredited Training School Program for Cephalopod Biology and Care in compliance with Directive 2010/63/EU and the ?Working document	<p>Aim/Primary objective</p> <p>Secondary objective 1</p> <p>Secondary objective 2</p> <p>Secondary objective 4</p>

on the development of a common education and training framework to fulfill the requirements under the Directive 2010/63/EU? endorsed at EU level by the NCAs.

Secondary objective 5
Secondary objective 6
Secondary objective 7
Secondary objective 8
Secondary objective 15
Secondary objective 16



Section IV: Work and Budget Plan for the Grant Agreement Period

Work and Budget Plan Summary

A. COST Networking Tools	EUR
(1) Meetings	62,160.00
(2) Training Schools	9,000.01
(3) STSMs	13,000.00
(4) Dissemination	7,100.00
(5) Other Expenses Related to Scientific Activities	170.00
B. Total Science Expenditure (sum of (1) to (5))	91,430.01
C. FSAC (max. of 15% of B)	13,714.50
D. Total Expenditure (B+C)	105,144.51

Meetings

Overview

Meeting Title	Meeting Type	Dates	Location	ITC	Total Cost(EUR)
Cephalopods as Laboratory Animals – Back to the Future	Working Group Meeting, Dissemination Meeting	13/06/2016 - 14/06/2016	Brussels (Belgium)	No	6,000.00
CephsInAction meets FENS2016	Working Group Meeting	04/07/2016 - 05/07/2016	Copenhagen (Denmark)	No	6,000.00
CephsInAction: working for welfare and health of cephalopods	Working Group Meeting, Core Group Meeting	28/07/2016 - 30/07/2016	Bergen (Norway)	No	8,000.00
CephsInAction meets Aquaculture Europe2016	Working Group Meeting	23/09/2016 - 24/09/2016	Edinburgh (United Kingdom)	No	10,015.00
COST Action FA1301 – CephsInAction & CIAC Meeting; Cephalopod Science from Biology to Welfare	Management Committee Meeting, Working Group Meeting, Workshops/Conferences	28/03/2017 - 31/03/2017	Heraklion (Greece)	No	32,145.00
				Total	62,160.00

Details

Meeting Type	Working Group Meeting, Dissemination Meeting
Title of the Meeting	Cephalopods as Laboratory Animals – Back to the Future
Grant Period Goal(s) it will address	Monitoring the impact of the transposition of Directive 2010/63/EU and MFSD in EU Member States and COST countries., Monitoring and assist the application of "Guidelines for the Care and Welfare of Cephalopods in Research" and the improvement of experimental practices in EU Member States, COST countries and abroad., Fostering networking initiatives to enlarge and encompass the cephalopod community by increasing interaction with other scientific communities, veterinarians and regulators with the aim to significantly improve policies for the use of animals in research and other contexts., Contribute to the development of knowledge on care, rearing, environmental and nutritional requirements of different cephalopod species to increase success and best-practice and to facilitate the standardization and increase animals' welfare thus contributing to the development of species-specific guidelines., Further increase knowledge on behavioral, biological and physiological indicators of welfare for cephalopods. Development and promotion of the use of alternatives to live animals in research and of the use of non-invasive approaches., Provide

	<p>guidance and increase of knowledge on the identification of diseases, signs of stress and damage of any origin in cephalopods. Development of monitoring tools – including the use of online databases as guidance and inventory of alternatives - for assessment of health status of cephalopods, thus facilitating the improvement of knowledge for management of their welfare, and providing guidance for researchers, veterinarians and regulators.,Facilitate the increase of the current effort/interest for physiology and neurophysiological studies on cephalopods with the aim of increasing networking, inclusiveness and improve knowledge on animals? welfare.,Improvement of the knowledge of the trophic relationship of cephalopods with other organisms, and their responses to natural and human-generated sound, to evaluate the impact on animals? welfare and behavior in compliance with Directive 2010/63/EU and MSFD.,Facilitate the refinement and the application of a consensus in Severity Assessment of procedures utilized with cephalopods in compliance with Directive 2010/63/EU.,Further development of the CephInAction Cephalopod Welfare Index Model (CWI) to facilitate the best-practice in the identification of animals? behavioral, biological and physiological needs in order to determine indicators of cephalopods welfare.,Increase Dissemination and Educational activities. Establish EU accredited Training School Program for Cephalopod Biology and Care in compliance with Directive 2010/63/EU and the ?Working document on the development of a common education and training framework to fulfill the requirements under the Directive 2010/63/EU? endorsed at EU level by the NCAs.</p>
Description	<p>The FA1301 WGs meeting joining FELASA2016 Conference is a milestone for this COST Action. FA1301 participants will join the Conference and the proposal for a dedicated session within the main FELASA2016 Conference have been accepted. This is in compliance with the new "role" of cephalopods as Laboratory Animals. Following the inclusion of cephalopods as the sole representatives among invertebrates in the list of regulated animals of the Directive 2010/63/EU, a consensus-based approach has been followed to produce a document that will represent the guidance framework for researchers, veterinarians, regulators, etc. The results of this challenging task have been recently published in Laboratory Animals (Guidelines for the Care and Welfare of Cephalopods in Research). This work has been supported by FELASA, the Association for Cephalopod Research-CephRes, and by COST. Guidelines marks only a preliminary ground of activities that the community is now facing. Aims of the and of the WG meeting will be i. to review the state of the art of the application of Guidelines for the Care and Welfare of Cephalopods in Research, the improvement of experimental practices, and the impact of the transposition of Directive 2010/63/EU in different countries, including those not EU; ii. to report on the suggested mandate minima in terms of the environmental, biological and behavioral needs of different cephalopod species to increase success of caring, maintenance, growth and rearing also aimed to reduce stress and increase welfare in research and aquaculture establishments; iii. to contribute to adequate education and training for the use of cephalopods as laboratory animals, including appropriate training and certification for the collection of cephalopods from wild; iv. to contribute to the development and application of a consensus in the Severity Assessment of procedures, in compliance with Directive 2010/63/EU; v. to highlight research priorities for the evaluation of cephalopods well-being and health status, their use in procedures and humane-killing, thus providing guidance for researchers, veterinarians and regulators.</p>
Output(s)	<p>Tangible outputs: report on website as input for WGs. A review paper will appear after the meeting focusing on cephalopods as laboratory animals.</p>

	Less/nontangible outputs: knowledge exchanges including strategic information; spreading of cephalopods as 'laboratory animals'; sharing ideas on good practices in education and training following EU recommendations.		
Location	Brussels (Belgium)	ITC	No
Start Date	2016-06-13 09:00:00	End Date	2016-06-14 18:00:00
Duration	2 days		
Number of expected total participants	100	Number of participants to be reimbursed from COST funds	8
Average reimbursement(per participant)(EUR)	750.00	Total Reimbursement costs (EUR)	6,000.00
Local Organiser Support (EUR)	0.00		
Total cost of the meeting (EUR)	6,000.00		

Meeting Type	Working Group Meeting
Title of the Meeting	CephsInAction meets FENS2016
Grant Period Goal(s) it will address	Monitoring the impact of the transposition of Directive 2010/63/EU and MFSD in EU Member States and COST countries.,Fostering networking initiatives to enlarge and encompass the cephalopod community by increasing interaction with other scientific communities, veterinarians and regulators with the aim to significantly improve policies for the use of animals in research and other contexts.,Improve the available knowledge on cephalopod biology, physiology and behavioral plasticity that may affect animals? welfare.,Further increase knowledge on behavioral, biological and physiological indicators of welfare for cephalopods. Development and promotion of the use of alternatives to live animals in research and of the use of non-invasive approaches.,Contribute to the improvement of biological and physiological findings relevant to nociception, pain assessment and management, with specific relevance to cephalopods.,Facilitate the increase of the current effort/interest for physiology and neurophysiological studies on cephalopods with the aim of increasing networking, inclusiveness and improve knowledge on animals? welfare.,Facilitate the refinement and the application of a consensus in Severity Assessment of procedures utilized with cephalopods in compliance with Directive 2010/63/EU.,Further development of the CephsInAction Cephalopod Welfare Index Model (CWI) to facilitate the best-practice in the identification of animals? behavioral, biological and physiological needs in order to determine indicators of cephalopods welfare.
Description	FA1301 WG3 meeting merging WG4 and participants from other FA1301-WGs will join the FENS2016 Forum, the largest Neuroscience event in Europe. This will be the occasion on increasing networking activities, facilitate new collaboration and increase ESRs interest towards cephalopod neuroscience. During the meeting we plan to discuss approaches, strategies and possible collaborations that will facilitate to achieve better practice for the use of anesthesia in experimental procedures with cephalopods and increase the possibility of non-invasive approaches for the assessment of biological and physiological status of the animals. The participation of selected members of WG4 and WG5 will be also facilitated.

Output(s)	Tangible outputs: report on website as input for WGs; publication of a review paper and/or a special issue on neurophysiology in cephalopods. Less/nontangible outputs: knowledge exchanges including strategic information, planning, technical know-how, policy development, and expected decisions to be taken.		
Location	Copenhagen (Denmark)	ITC	No
Start Date	2016-07-04 09:00:00	End Date	2016-07-05 18:00:00
Duration	2 days		
Number of expected total participants	80	Number of participants to be reimbursed from COST funds	8
Average reimbursement(per participant)(EUR)	700.00	Total Reimbursement costs (EUR)	5,600.00
Local Organiser Support (EUR)	400.00		
Total cost of the meeting (EUR)	6,000.00		

Meeting Type	Working Group Meeting,Core Group Meeting
Title of the Meeting	CephInAction: working for welfare and health of cephalopods
Grant Period Goal(s) it will address	Monitoring the impact of the transposition of Directive 2010/63/EU and MFSD in EU Member States and COST countries.,Monitoring and assist the application of "Guidelines for the Care and Welfare of Cephalopods in Research" and the improvement of experimental practices in EU Member States, COST countries and abroad.,Further increase knowledge on behavioral, biological and physiological indicators of welfare for cephalopods. Development and promotion of the use of alternatives to live animals in research and of the use of non-invasive approaches.,Provide guidance and increase of knowledge on the identification of diseases, signs of stress and damage of any origin in cephalopods. Development of monitoring tools – including the use of online databases as guidance and inventory of alternatives - for assessment of health status of cephalopods, thus facilitating the improvement of knowledge for management of their welfare, and providing guidance for researchers, veterinarians and regulators.,Improvement of the knowledge of the trophic relationship of cephalopods with other organisms, and their responses to natural and human-generated sound, to evaluate the impact on animals? welfare and behavior in compliance with Directive 2010/63/EU and MSFD.,Facilitate the refinement and the application of a consensus in Severity Assessment of procedures utilized with cephalopods in compliance with Directive 2010/63/EU.,Further development of the CephInAction Cephalopod Welfare Index Model (CWI) to facilitate the best-practice in the identification of animals? behavioral, biological and physiological needs in order to determine indicators of cephalopods welfare.
Description	WG meeting dedicated to preparation of strategic publications and deliverables aimed to facilitate guidance in monitoring, management and assessment of cephalopods welfare including health status of the animals and the role of parasites in the animals' wellbeing. Attention will be also given to human-health aspects considering the role of cephalopods as food. Key representatives of

	FA1301 will be invited to attend with the aim of discussing emerging knowledge on the several important topics considered		
Output(s)	Tangible outputs: report on website as input for WGs; at least two review papers to be published after the meeting including Welfare Indicators and Guidance documents for health assessment of cephalopods. Less/non- tangible outputs: knowledge exchanges including strategic information, planning, technical know-how, policy development.		
Location	Bergen (Norway)	ITC	No
Start Date	2016-07-28 09:00:00	End Date	2016-07-30 13:00:00
Duration	3 days		
Number of expected total participants	20	Number of participants to be reimbursed from COST funds	8
Average reimbursement(per participant)(EUR)	950.00	Total Reimbursement costs (EUR)	7,600.00
Local Organiser Support (EUR)	400.00		
Total cost of the meeting (EUR)	8,000.00		

Meeting Type	Working Group Meeting
Title of the Meeting	CephsInAction meets Aquaculture Europe2016
Grant Period Goal(s) it will address	Monitoring and assist the application of "Guidelines for the Care and Welfare of Cephalopods in Research" and the improvement of experimental practices in EU Member States, COST countries and abroad.,Fostering networking initiatives to enlarge and encompass the cephalopod community by increasing interaction with other scientific communities, veterinarians and regulators with the aim to significant improve policies for the use of animals in research and other contexts.,Improve the available knowledge on cephalopod biology, physiology and behavioral plasticity that may affect animals? welfare.,Contribute to the development of knowledge on care, rearing, environmental and nutritional requirements of different cephalopod species to increase success and best-practice and to facilitate the standardization and increase animals? welfare thus contributing to the development of species-specific guidelines.,Improvement of the knowledge of the trophic relationship of cephalopods with other organisms, and their responses to natural and human-generated sound, to evaluate the impact on animals? welfare and behavior in compliance with Directive 2010/63/EU and MSFD.,Facilitate the refinement and the application of a consensus in Severity Assessment of procedures utilized with cephalopods in compliance with Directive 2010/63/EU.
Description	COST Action FA1301 will join Aquaculture Europe2016 (Edinburgh, UK) organised by the European Aquaculture Society with the theme "Food for Thought" next October 2016 to facilitate networking with specialists and SME working on topics of relevance to rearing and aquaculture of cephalopods. Aim of the meeting is to discuss approaches, strategies and possible collaborations for contributing to the solution of some bottlenecks that still appear to exists for the cephalopods aquaculture. The meeting is organized with a symposium

	organised within the main AE2016 Conference and a satellite WG1 (including participation of selected representatives of other FA1301 WGs); we will revise deliverables and results recently achieved also thanks to selected STSMs supported by CephInAction and by locally funded research carried out during the last three years. Oral and poster presentations will be included in different sessions of the main program.		
Output(s)	Tangible outputs: report on website as input for WGs; at least a review paper to be published after the meeting on peer-review journals. Less/non-tangible outputs: knowledge exchanges including strategic information, planning, technical know-how.		
Location	Edinburgh (United Kingdom)	ITC	No
Start Date	2016-09-23 09:00:00	End Date	2016-09-24 19:00:00
Duration	2 days		
Number of expected total participants	70	Number of participants to be reimbursed from COST funds	11
Average reimbursement(per participant)(EUR)	865.00	Total Reimbursement costs (EUR)	9,515.00
Local Organiser Support (EUR)	500.00		
Total cost of the meeting (EUR)	10,015.00		

Meeting Type	Management Committee Meeting, Working Group Meeting, Workshops/Conferences
Title of the Meeting	COST Action FA1301 – CephInAction & CIAC Meeting; Cephalopod Science from Biology to Welfare
Grant Period Goal(s) it will address	Monitoring and assist the application of "Guidelines for the Care and Welfare of Cephalopods in Research" and the improvement of experimental practices in EU Member States, COST countries and abroad., Fostering networking initiatives to enlarge and encompass the cephalopod community by increasing interaction with other scientific communities, veterinarians and regulators with the aim to significantly improve policies for the use of animals in research and other contexts., Improve the available knowledge on cephalopod biology, physiology and behavioral plasticity that may affect animals? welfare., Contribute to the development of knowledge on care, rearing, environmental and nutritional requirements of different cephalopod species to increase success and best-practice and to facilitate the standardization and increase animals? welfare thus contributing to the development of species-specific guidelines., Further increase knowledge on behavioral, biological and physiological indicators of welfare for cephalopods. Development and promotion of the use of alternatives to live animals in research and of the use of non-invasive approaches., Contribute to the improvement of biological and physiological findings relevant to nociception, pain assessment and management, with specific relevance to cephalopods., Improve knowledge and best-practice on procedures including anesthesia and analgesia applied to cephalopods by monitoring physiological, and behavioral responses with the aim of improving monitoring, reduce potential stress and increase

	<p>animals? welfare. Development of humane end-point.,Provide guidance and increase of knowledge on the identification of diseases, signs of stress and damage of any origin in cephalopods. Development of monitoring tools – including the use of online databases as guidance and inventory of alternatives - for assessment of health status of cephalopods, thus facilitating the improvement of knowledge for management of their welfare, and providing guidance for researchers, veterinarians and regulators.,Facilitate the increase of the current effort/interest for physiology and neurophysiological studies on cephalopods with the aim of increasing networking, inclusiveness and improve knowledge on animals? welfare.,Improvement of the knowledge of the trophic relationship of cephalopods with other organisms, and their responses to natural and human-generated sound, to evaluate the impact on animals? welfare and behavior in compliance with Directive 2010/63/EU and MSFD.,Facilitate the refinement and the application of a consensus in Severity Assessment of procedures utilized with cephalopods in compliance with Directive 2010/63/EU.,Further development of the CephInAction Cephalopod Welfare Index Model (CWI) to facilitate the best-practice in the identification of animals? behavioral, biological and physiological needs in order to determine indicators of cephalopods welfare.,Increase Dissemination and Educational activities. Establish EU accredited Training School Program for Cephalopod Biology and Care in compliance with Directive 2010/63/EU and the ?Working document on the development of a common education and training framework to fulfill the requirements under the Directive 2010/63/EU? endorsed at EU level by the NCAs.</p>		
Description	<p>Annual Scientific Conference of COST Action FA1301. A COST Action FA1301 meeting including FA1301 participants merging CIAC (Cephalopod International Advisory Council) community with the aim of broaden the scientific outcomes, and increase the chances to develop an ?integrated? larger cephalopod science community. The participation and contribution of the Young Cephalopod Researchers group will be facilitated, by ad hoc actions. Outreach activities will be included in the main program. Includes WG and MC meetings. Aims are: 1. to collect the results and achievements towards the end of the Action; 2. to facilitate collaborative work and networking among all participants; 3. the identification of research priorities 4. the definition of the new GP goals, the plan of the networking activities for the achievement of the GP goals 5. definition of the budget plan 6. delivery of reports from the WG leaders on the achievements of the WG for the year (including what was not achieved and the reasons behind).</p>		
Output(s)	<p>Tangible outputs: publication of abstracts and proceedings; review papers to be published on peer-review journals. Less/non-tangible outputs: knowledge exchanges including strategic information, planning, technical know-how, policy development, and expected decisions to be taken</p>		
Location	Heraklion (Greece)	ITC	No
Start Date	2017-03-28 09:00:00	End Date	2017-03-31 18:00:00
Duration	4 days		
Number of expected total participants	110	Number of participants to be reimbursed from COST funds	49
Average reimbursement(per participant)(EUR)	605.00	Total Reimbursement costs (EUR)	29,645.00

Local Organiser Support (EUR)	2,500.00
Total cost of the meeting (EUR)	32,145.00



Training School

Overview

Title of the Training School	Dates	Location	ITC	Total Cost(EUR)
Cephalopod Biology and Care TS CBC2016	10/10/2016 - 14/10/2016	TBD (Italy)	No	9,000.01
			Total	9,000.01

Details

Title of the Training School	Cephalopod Biology and Care TS CBC2016
Grant Period Goal(s) it will address	<p>Monitoring and assist the application of "Guidelines for the Care and Welfare of Cephalopods in Research" and the improvement of experimental practices in EU Member States, COST countries and abroad.,Improve the available knowledge on cephalopod biology, physiology and behavioral plasticity that may affect animals' welfare.,Contribute to the development of knowledge on care, rearing, environmental and nutritional requirements of different cephalopod species to increase success and best-practice and to facilitate the standardization and increase animals' welfare thus contributing to the development of species-specific guidelines.,Further increase knowledge on behavioral, biological and physiological indicators of welfare for cephalopods. Development and promotion of the use of alternatives to live animals in research and of the use of non-invasive approaches.,Contribute to the improvement of biological and physiological findings relevant to nociception, pain assessment and management, with specific relevance to cephalopods.,Improve knowledge and best-practice on procedures including anesthesia and analgesia applied to cephalopods by monitoring physiological, and behavioral responses with the aim of improving monitoring, reduce potential stress and increase animals' welfare. Development of humane end-point.,Provide guidance and increase of knowledge on the identification of diseases, signs of stress and damage of any origin in cephalopods. Development of monitoring tools – including the use of online databases as guidance and inventory of alternatives - for assessment of health status of cephalopods, thus facilitating the improvement of knowledge for management of their welfare, and providing guidance for researchers, veterinarians and regulators.,Further development of the CephsInAction Cephalopod Welfare Index Model (CWI) to facilitate the best-practice in the identification of animals' behavioral, biological and physiological needs in order to determine indicators of cephalopods welfare.,Increase Dissemination and Educational activities. Establish EU accredited Training School Program for Cephalopod Biology and Care in compliance with Directive 2010/63/EU and the "Working document on the development of a common education and training framework to fulfill the requirements under the Directive 2010/63/EU" endorsed at EU level by the NCAs.</p>
Description	<p>Training School on the best practice in husbandry, maintenance and care of cephalopods, including development of non-invasive approaches. This Training School is part of the Cephalopod Biology and Care Training Program, initiated in 2014 under the aegis of the COST Action FA1301. The TS is acquiring official accreditation towards FELASA (www.felasa.eu) and the E&T EU Platform in compliance with Directive 2010/63/EU.</p>

Output(s)	Tangible output: European Accreditation (FELASA); publication of TS report on a peer-review journal. Less tangible output: knowledge exchanges including strategic information, technical know-how		
Location	TBD (Italy)	ITC	No
Start Date	2016-10-10 09:00:00	End Date	2016-10-14 19:00:00
Number of trainers	6	Number of trainees	15
Number of trainers to be reimbursed	3	Number of trainees to be reimbursed	10
Average trainer Reimbursement(EUR)	866.67	Average reimbursement per trainee(EUR)	500.00
Total trainer Reimbursement(EUR)	2,600.01	Total trainee Grant(EUR)	5,000.00
Local Organiser Support (EUR)	1,400.00		
Total cost of the Training School(EUR)	9,000.01		

STSM

Number	8
Average cost per STSM(EUR)	1,625.00
Total cost(EUR)	13,000.00

How will the STSMs contribute to the achievement of the Grant Period Goals?
<p>Monitoring and assist the application of "Guidelines for the Care and Welfare of Cephalopods in Research" and the improvement of experimental practices in EU Member States, COST countries and abroad. Fostering networking initiatives to enlarge and encompass the cephalopod community by increasing interaction with other scientific communities, veterinarians and regulators with the aim to significantly improve policies for the use of animals in research and other contexts. Improve the available knowledge on cephalopod biology, physiology and behavioral plasticity that may affect animals' welfare. Contribute to the development of knowledge on care, rearing, environmental and nutritional requirements of different cephalopod species to increase success and best-practice and to facilitate the standardization and increase animals' welfare thus contributing to the development of species-specific guidelines. Further increase knowledge on behavioral, biological and physiological indicators of welfare for cephalopods. Development and promotion of the use of alternatives to live animals in research and of the use of non-invasive approaches. Contribute to the improvement of biological and physiological findings relevant to nociception, pain assessment and management, with specific relevance to cephalopods. Improve knowledge and best-practice on procedures including anesthesia and analgesia applied to cephalopods by monitoring physiological, and behavioral responses with the aim of improving monitoring, reduce potential stress and increase animals' welfare. Development of humane end-point. Provide guidance and increase of knowledge on the identification of diseases, signs of stress and damage of any origin in cephalopods. Development of monitoring tools – including the use of online databases as guidance and inventory of alternatives - for assessment of health status of cephalopods, thus facilitating the improvement of knowledge for management of their welfare, and providing guidance for researchers, veterinarians and regulators. Facilitate the increase of the current effort/interest for physiology and neurophysiological studies on cephalopods with the aim of increasing networking, inclusiveness and improve knowledge on animals' welfare. Improvement of the knowledge of the trophic relationship of cephalopods with other organisms, and their responses to natural and human-generated sound, to evaluate the impact on animals' welfare and behavior in compliance with Directive 2010/63/EU and MSFD. Further development of the CephInAction Cephalopod Welfare Index Model (CWI) to facilitate the best-practice in the identification of animals' behavioral, biological and physiological needs in order to determine indicators of cephalopods welfare. Increase Dissemination and Educational activities. Establish EU accredited Training School Program for Cephalopod Biology and Care in compliance with Directive 2010/63/EU and the "Working document on the development of a common education and training framework to fulfill the requirements under the Directive 2010/63/EU" endorsed at EU level by the NCAs.</p> <p>FA1301 Short Term Scientific Missions are aimed at supporting individual mobility, at strengthening the existing networks, increasing networking capacity, and fostering new collaborations by allowing scientists to visit an institution or laboratory in another Participating COST Country. STSMs are also aimed to facilitate ESRs to increase their career opportunities.</p> <p>Tangible Output: Publication of scientific reports on CephInAction website; publication of scientific publications on peer-reviewed journals Less/non-tangible outputs: knowledge exchanges</p>

Disseminations

Title	Type	Publisher/provider	Expected date of Release	Cost(EUR)

CephsInAction	Leaflet / Brochure	n.a.	30/04/2017	700.00
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How will this Dissemination contribute to the achievement of the Grant Period Goals?

Monitoring the impact of the transposition of Directive 2010/63/EU and MFSD in EU Member States and COST countries.,Monitoring and assist the application of "Guidelines for the Care and Welfare of Cephalopods in Research" and the improvement of experimental practices in EU Member States, COST countries and abroad.,Fostering networking initiatives to enlarge and encompass the cephalopod community by increasing interaction with other scientific communities, veterinarians and regulators with the aim to significant improve policies for the use of animals in research and other contexts.,Further development of the CephsInAction Cephalopod Welfare Index Model (CWI) to facilitate the best-practice in the identification of animals' behavioral, biological and physiological needs in order to determine indicators of cephalopods welfare.,Increase Dissemination and Educational activities. Establish EU accredited Training School Program for Cephalopod Biology and Care in compliance with Directive 2010/63/EU and the "Working document on the development of a common education and training framework to fulfill the requirements under the Directive 2010/63/EU" endorsed at EU level by the NCAs.

Title	Type	Publisher/provider	Expected date of Release	Cost(EUR)
CephsInAction.org	Action Website	n.a.	30/04/2017	900.00

How will this Dissemination contribute to the achievement of the Grant Period Goals?

Monitoring the impact of the transposition of Directive 2010/63/EU and MFSD in EU Member States and COST countries.,Monitoring and assist the application of "Guidelines for the Care and Welfare of Cephalopods in Research" and the improvement of experimental practices in EU Member States, COST countries and abroad.,Fostering networking initiatives to enlarge and encompass the cephalopod community by increasing interaction with other scientific communities, veterinarians and regulators with the aim to significant improve policies for the use of animals in research and other contexts.,Improve the available knowledge on cephalopod biology, physiology and behavioral plasticity that may affect animals' welfare.,Contribute to the development of knowledge on care, rearing, environmental and nutritional requirements of different cephalopod species to increase success and best-practice and to facilitate the standardization and increase animals' welfare thus contributing to the development of species-specific guidelines.,Further increase knowledge on behavioral, biological and physiological indicators of welfare for cephalopods. Development and promotion of the use of alternatives to live animals in research and of the use of non-invasive approaches.,Contribute to the improvement of biological and physiological findings relevant to nociception, pain assessment and management, with specific relevance to cephalopods.,Improve knowledge and best-practice on procedures including anesthesia and analgesia applied to cephalopods by monitoring physiological, and behavioral responses with the aim of improving monitoring, reduce potential stress and increase animals' welfare. Development of humane end-point.,Provide guidance and increase of knowledge on the identification of diseases, signs of stress and damage of any origin in cephalopods. Development of monitoring tools – including the use of online databases as guidance and inventory of alternatives - for assessment of health status of cephalopods, thus facilitating the improvement of knowledge for management of their welfare, and providing guidance for researchers, veterinarians and regulators.,Facilitate the increase of the current effort/interest for physiology and neurophysiological studies on cephalopods with the aim of increasing networking, inclusiveness and improve knowledge on animals' welfare.,Improvement of the knowledge of the trophic relationship of cephalopods with other organisms, and their responses to natural and human-generated sound, to evaluate the impact on animals' welfare and behavior in compliance with Directive 2010/63/EU and MSFD.,Facilitate the refinement and the application of a consensus in Severity Assessment of procedures utilized with cephalopods in compliance with Directive 2010/63/EU.,Further development of the CephsInAction Cephalopod Welfare Index Model (CWI) to facilitate the best-practice in the identification of animals' behavioral, biological and physiological needs in order to determine indicators of cephalopods

welfare., Increase Dissemination and Educational activities. Establish EU accredited Training School Program for Cephalopod Biology and Care in compliance with Directive 2010/63/EU and the “Working document on the development of a common education and training framework to fulfill the requirements under the Directive 2010/63/EU” endorsed at EU level by the NCAs.

Title	Type	Publisher/provider	Expected date of Release	Cost(EUR)
The Digestive tract of cephalopods, a FA1301 COST Action workshop	Electronic publication	BioOne; Frontiers	31/12/2016	2,000.00

How will this Dissemination contribute to the achievement of the Grant Period Goals?

Fostering networking initiatives to enlarge and encompass the cephalopod community by increasing interaction with other scientific communities, veterinarians and regulators with the aim to significantly improve policies for the use of animals in research and other contexts., Improve the available knowledge on cephalopod biology, physiology and behavioral plasticity that may affect animals' welfare., Contribute to the development of knowledge on care, rearing, environmental and nutritional requirements of different cephalopod species to increase success and best-practice and to facilitate the standardization and increase animals' welfare thus contributing to the development of species-specific guidelines., Contribute to the improvement of biological and physiological findings relevant to nociception, pain assessment and management, with specific relevance to cephalopods.

Title	Type	Publisher/provider	Expected date of Release	Cost(EUR)
Prospective Assessment on Severity of procedures in Cephalopods	Electronic publication	TBD	27/02/2017	1,500.00

How will this Dissemination contribute to the achievement of the Grant Period Goals?

Monitoring the impact of the transposition of Directive 2010/63/EU and MFSD in EU Member States and COST countries., Monitoring and assist the application of "Guidelines for the Care and Welfare of Cephalopods in Research" and the improvement of experimental practices in EU Member States, COST countries and abroad., Facilitate the refinement and the application of a consensus in Severity Assessment of procedures utilized with cephalopods in compliance with Directive 2010/63/EU., Increase Dissemination and Educational activities. Establish EU accredited Training School Program for Cephalopod Biology and Care in compliance with Directive 2010/63/EU and the “Working document on the development of a common education and training framework to fulfill the requirements under the Directive 2010/63/EU” endorsed at EU level by the NCAs.

Title	Type	Publisher/provider	Expected date of Release	Cost(EUR)
Special Issue CephsInAction: revising and updating knowledge	Electronic publication	Frontiers	30/04/2017	2,000.00

How will this Dissemination contribute to the achievement of the Grant Period Goals?



Fostering networking initiatives to enlarge and encompass the cephalopod community by increasing interaction with other scientific communities, veterinarians and regulators with the aim to significant improve policies for the use of animals in research and other contexts.,Improve the available knowledge on cephalopod biology, physiology and behavioral plasticity that may affect animals' welfare.,Contribute to the development of knowledge on care, rearing, environmental and nutritional requirements of different cephalopod species to increase success and best-practice and to facilitate the standardization and increase animals' welfare thus contributing to the development of species-specific guidelines.,Further increase knowledge on behavioral, biological and physiological indicators of welfare for cephalopods. Development and promotion of the use of alternatives to live animals in research and of the use of non-invasive approaches.,Contribute to the improvement of biological and physiological findings relevant to nociception, pain assessment and management, with specific relevance to cephalopods.,Further development of the CephInAction Cephalopod Welfare Index Model (CWI) to facilitate the best-practice in the identification of animals' behavioral, biological and physiological needs in order to determine indicators of cephalopods welfare.,Increase Dissemination and Educational activities. Establish EU accredited Training School Program for Cephalopod Biology and Care in compliance with Directive 2010/63/EU and the "Working document on the development of a common education and training framework to fulfill the requirements under the Directive 2010/63/EU" endorsed at EU level by the NCAs.

Total Disseminations	7,100.00
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OERSA

Item	Cost(EUR)
OERSA	170.00