

Work And Budget Plan

CA15203 Grant Agreement Period 2

01/05/2017 to 30/04/2018

Section I: Action Profile

Action General Information

Action Code	CA15203	MC Chair	Prof Erich Gnaiger
Action Title	CA15203 - Mitochondrial mapping: Evolution - Age - Gender - Lifestyle - Environment		
MOU		Draft MOU	OC-2015-2-19984
CSO Approval Date	2016-02-26		
Action Start Date	2016-09-12	Action End Date	2020-09-11
Science Officer	Dr Federica Ortelli	Administrative Officer	Mr Christophe Peeters

Participating COST Members:

	ITC		Non-ITC		Total
COST Members (countries) having accepted the MoU	Number	14	Number	16	30
	% of all ITCs	46.67%	% of all non-ITCs	53.33%	
Number of Action MC members	23		33		56

COST Member and Acceptance Date		
AT 23/03/2016	HU 22/03/2016	PT 28/04/2016
BE 02/05/2016	IE 29/03/2016	RO 23/03/2016
HR 06/04/2016	IL 09/03/2016	RS 01/04/2016
CZ 12/05/2016	IT 23/06/2016	SK 12/09/2016
DK 31/03/2016	LV 07/03/2016	SI 04/04/2016
EE 04/03/2016	LT 07/06/2016	ES 03/05/2016
FI 08/09/2016	MT 07/05/2016	SE 26/08/2016
FR 11/03/2016	NL 26/02/2016	CH 19/04/2016
DE 22/03/2016	NO 04/05/2016	TR 16/06/2016
EL 09/03/2016	PL 14/03/2016	UK 11/03/2016

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International cooperation

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

Working Groups

	WG Title	WG Leader	Number of WG members
WG1	Standard operating procedures and user requirement document: Protocols, terminology, documentation	Dr Kathrin Renner-Sattler	70
WG2	MITOEAGLE data repository in muscle and other tissues	Dr Pablo M. Garcia-Roves	55
WG3	MITOEAGLE data repository on fat tissues and other tissues	Prof Jan Nedergaard	30
WG4	MITOEAGLE data repository for blood cells and cultured cells	Dr Nicoleta Moiso	70

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

Action Objectives from MoU

Aim/primary Objective
include Evolution, Age, Gender, Lifestyle and Environment (EAGLE) in studies of mitochondrial function. MITOEAGLE develops harmonisation protocols towards generating a data repository on mitochondrial respiratory function. A data management system will interrelate various study-results and set them into a multidimensional context, to better diagnose mitochondrial respiratory defects
Secondary objectives
<ol style="list-style-type: none"> 1. Intensify the dissemination of updated knowledge and know-how among the partners. 2. Build and improve collaborative relationships among the participating groups of the Action and interested end-users. 3. Optimally harmonise protocols across research groups. 4. Foster coordinated research activities of scientific proposals in the European Research Area. 5. Increase the number of active participants in the course of the COST Action. 6. Form a unique well-coordinated network of senior researchers and young investigators. 7. Include well established stakeholders. 8. Establish a spirit of mentorship and collaboration in contrast to fierce competition which characterised early decades of bioenergetics. 9. Initiate applications for funding to support international collaborative research projects. 10. Present and publish results of collaborative research projects within the COST Action, particularly related to STSMs supported by the Action. 11. MITOEAGLE recommendations: The goal is to increase the value and reduce the noise in mitochondrial research. Prespecified and time-stamped protocols are needed in practice, and researchers need to be introduced into adhering to publicly deposited protocols in practice. MITOEAGLE recommendations will provide practical guidelines for students, scientists and stakeholders. 12. A monitored database – centres of excellence: The MITOEAGLE database will provide an invaluable tool for mitochondrial studies in the transition from exploratory preclinical research to clinical and pharmacological applications. Centres of excellence will emanate from the project's working groups providing training programmes and diagnostic services. 13. Training: Enhance the rigorous training activities particularly for PhD students and young researchers (STSMs, Schools, Workshops, Conferences) in order to establish the practical guidelines introduced by MITOEAGLE and to enhance research results in the long term.

Grant Agreement Period

Grant Agreement Period Start Date	01/05/2017	Grant Agreement Period End Date	30/04/2018
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Grant Agreement Period Goals

Number	Grant Agreement Period Goal	MoU Objective(s) it relates to
GAPG 1	Development of a MITOEAGLE proficiency training module	<ul style="list-style-type: none"> • Secondary objective 11
GAPG 2	Draft phase 2 of a manuscript on concepts and terminology of mitochondrial physiology	<ul style="list-style-type: none"> • Secondary objective 1 • Secondary objective 2 • Secondary objective 5 • Secondary objective 6 • Secondary objective 8 • Secondary objective 10
GAPG 3	Present on project website a collection of procedures and experimental protocols for the evaluation of mitochondrial capacities and a library of protocols, for discussion and optimization	<ul style="list-style-type: none"> • Secondary objective 1 • Secondary objective 2 • Secondary objective 3 • Secondary objective 4 • Secondary objective 6 • Secondary objective 8 • Secondary objective 11
GAPG 4	MITOEAGLE data management system (DMS) development: (1) Testing of developed software components regarding functionality and usability; (2) Upload of datasets generated through WG 2-4 in internal lab developments	<ul style="list-style-type: none"> • Secondary objective 4 • Secondary objective 11 • Secondary objective 12
GAPG 5	Develop recommendations for quality control, data reporting and data sharing beyond the published record	<ul style="list-style-type: none"> • Secondary objective 1 • Secondary objective 2 • Secondary objective 3 • Secondary objective 6 • Secondary objective 7 • Secondary objective 8 • Secondary objective 10
GAPG 6	Discuss strategic dissemination and an education programme for MITOEAGLE	<ul style="list-style-type: none"> • Secondary objective 1 • Secondary objective 2 • Secondary objective 4 • Secondary objective 5 • Secondary objective 6 • Secondary objective 7 • Secondary objective 8 • Secondary objective 13
GAPG 7	Draft (phase 2) of a manuscript on procedures, protocols and general guidelines for mitochondrial respiratory studies in muscle tissue	<ul style="list-style-type: none"> • Secondary objective 1 • Secondary objective 2 • Secondary objective 3 • Secondary objective 4 • Secondary objective 5 • Secondary objective 6 • Secondary objective 8 • Secondary objective 10 • Secondary objective 11
GAPG 8	Extend consensus protocols and reporting schemes	<ul style="list-style-type: none"> • Secondary objective 2

	in a standardized format from adipose to neuronal and liver tissues (WG3)	<ul style="list-style-type: none"> • Secondary objective 3 • Secondary objective 5 • Secondary objective 6 • Secondary objective 8 • Secondary objective 11
GAPG 9	Summarize consensus protocols and reporting schemes for mitochondrial respiratory studies in blood and cultured cells	<ul style="list-style-type: none"> • Secondary objective 2 • Secondary objective 3 • Secondary objective 5 • Secondary objective 6 • Secondary objective 8 • Secondary objective 11
GAPG 10	Develop laboratory protocols for blood cell types (PBMCs, platelets) for mitochondrial studies on intact and permeabilized cells.	<ul style="list-style-type: none"> • Secondary objective 1 • Secondary objective 2 • Secondary objective 3 • Secondary objective 4 • Secondary objective 8 • Secondary objective 11

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

Work and Budget Plan Summary

A. COST Networking Tools	EUR
(1) Meetings	64,224.00
(2) Training Schools	28,819.00
(3) Short Term Scientific Missions (STSM)	35,000.00
(4) ITC Conference Grant	0.00
(5) COST Action Dissemination	2,800.00
(6) Other Expenses Related to Scientific Activities (OERSA)	500.00
B. Total Science Expenditure (sum of (1) to (6))	131,343.00
C. Financial and Scientific Administration and Coordination (FSAC) (max. of 15% of B)	19,701.45
Total Grant (B+C)	151,044.45

Meetings

Overview

Meeting Title	Meeting Type	Dates	Location	ITC	Total Cost(EUR)
Mitochondrial mapping Working group workshop	Working Group Meeting	28/07/2017 - 29/07/2017	Obergurgl (Austria)	No	17,996.00
Mitochondrial mapping MC meeting and workshops	Management Committee Meeting, Core Group Meeting, Working Group Meeting, Workshops/Conferences	15/11/2017 - 17/11/2017	Hradec Králové (Czech Republic)	Yes	40,868.00
Retreat	Other COST relevant meeting	07/02/2018 - 10/02/2018	Innsbruck (Austria)	No	5,360.00
				Total	64,224.00

Details

Meeting Type	Working Group Meeting		
Title of the Meeting	Mitochondrial mapping Working group workshop		
Grant Period Goal(s) it will address	Draft phase 2 of a manuscript on concepts and terminology of mitochondrial physiology, Present on project website a collection of procedures and experimental protocols for the evaluation of mitochondrial capacities and a library of protocols, for discussion and optimization, MITOEAGLE data management system (DMS) development: (1) Testing of developed software components regarding functionality and usability; (2) Upload of datasets generated through WG 2-4 in internal lab developments, Develop recommendations for quality control, data reporting and data sharing beyond the published record, Discuss strategic dissemination and an education programme for MITOEAGLE, Extend consensus protocols and reporting schemes in a standardized format from adipose to neuronal and liver tissues (WG3), Develop laboratory protocols for blood cell types (PBMCs, platelets) for mitochondrial studies on intact and permeabilized cells.		
Description	Working group workshops		
Output(s)	Discussion and dissemination		
Location	Obergurgl (Austria)	ITC	No
Start Date	2017-07-28 09:00:00	End Date	2017-07-29 18:00:00
Duration	2 days		
Number of expected total participants	64	Number of participants to be reimbursed from COST funds	31
Average reimbursement(per participant)(EUR)	516.00	Total Reimbursement costs (EUR)	15,996.00
Local Organiser Support (EUR)	2,000.00		

Total cost of the meeting (EUR)	17,996.00
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Meeting Type	Management Committee Meeting, Core Group Meeting, Working Group Meeting, Workshops/Conferences		
Title of the Meeting	Mitochondrial mapping MC meeting and workshops		
Grant Period Goal(s) it will address	Development of a MITOEAGLE proficiency training module, Draft phase 2 of a manuscript on concepts and terminology of mitochondrial physiology, MITOEAGLE data management system (DMS) development: (1) Testing of developed software components regarding functionality and usability; (2) Upload of datasets generated through WG 2-4 in internal lab developments, Develop recommendations for quality control, data reporting and data sharing beyond the published record, Discuss strategic dissemination and an education programme for MITOEAGLE, Draft (phase 2) of a manuscript on procedures, protocols and general guidelines for mitochondrial respiratory studies in muscle tissue, Extend consensus protocols and reporting schemes in a standardized format from adipose to neuronal and liver tissues (WG3), Summarize consensus protocols and reporting schemes for mitochondrial respiratory studies in blood and cultured cells, Develop laboratory protocols for blood cell types (PBMCs, platelets) for mitochondrial studies on intact and permeabilized cells.		
Description	MC meeting, working group workshops, conference jointly with the MiP society		
Output(s)	Discussion and dissemination		
Location	Hradec Králové (Czech Republic)	ITC	Yes
Start Date	2017-11-15 09:00:00	End Date	2017-11-17 18:00:00
Duration	3 days		
Number of expected total participants	100	Number of participants to be reimbursed from COST funds	42
Average reimbursement(per participant)(EUR)	854.00	Total Reimbursement costs (EUR)	35,868.00
Local Organiser Support (EUR)	5,000.00		
Total cost of the meeting (EUR)	40,868.00		

Meeting Type	Other COST relevant meeting		
Title of the Meeting	Retreat		
Grant Period Goal(s) it will address	Discuss strategic dissemination and an education programme for MITOEAGLE, Summarize consensus protocols and reporting schemes for mitochondrial respiratory studies in blood and cultured cells		
Description	Retreat to summarize protocols and reporting schemes, and for discussions		
Output(s)	Discussion		
Location	Innsbruck (Austria)	ITC	No
Start Date	2018-02-07 09:00:00	End Date	2018-02-10 10:00:00

Duration	4 days		
Number of expected total participants	8	Number of participants to be reimbursed from COST funds	6
Average reimbursement(per participant)(EUR)	810.00	Total Reimbursement costs (EUR)	4,860.00
Local Organiser Support (EUR)	500.00		
Total cost of the meeting (EUR)	5,360.00		

Training Schools

Overview

Title of the Training School	Dates	Location	ITC	Total Cost(EUR)
10th MiPschool 2017 MITOEAGLE Science Camp	23/07/2017 - 27/07/2017	Obergurgl (Austria)	No	28,819.00
			Total	28,819.00

Details

Title of the Training School	10th MiPschool 2017 MITOEAGLE Science Camp		
Grant Period Goal(s) it will address	Development of a MITOEAGLE proficiency training module, MITOEAGLE data management system (DMS) development: (1) Testing of developed software components regarding functionality and usability; (2) Upload of datasets generated through WG 2-4 in internal lab developments, Develop recommendations for quality control, data reporting and data sharing beyond the published record, Discuss strategic dissemination and an education programme for MITOEAGLE, Extend consensus protocols and reporting schemes in a standardized format from adipose to neuronal and liver tissues (WG3), Summarize consensus protocols and reporting schemes for mitochondrial respiratory studies in blood and cultured cells, Develop laboratory protocols for blood cell types (PBMCs, platelets) for mitochondrial studies on intact and permeabilized cells.		
Description	Obergurgl AT, 2017 Jul 23-30. 10th MiPschool 2017 MITOEAGLE Science Camp - http://www.mitoglobal.org/index.php/MiPschool_Obergurgl_2017		
Output(s)	Enhance the rigorous training level particularly for PhD students and young researchers in order to establish the practical guidelines introduced by MITOEAGLE and to enhance research results in the long term.		
Location	Obergurgl (Austria)	ITC	No
Start Date	2017-07-23 17:00:00	End Date	2017-07-27 09:00:00
Number of trainers	6	Number of trainees	70
Number of trainers to be reimbursed	5	Number of trainees to be reimbursed	42
Average trainer Reimbursement(EUR)	925.00	Average reimbursement per trainee(EUR)	457.00
Total trainer Reimbursement(EUR)	4,625.00	Total trainee Grant(EUR)	19,194.00
Local Organiser Support (EUR)	5,000.00		
Total cost of the Training School(EUR)	28,819.00		

Short Term Scientific Missions (STSM)

Number	Average cost per STSM(EUR)	Total cost(EUR)
20	1,750.00	35,000.00
Grant Period Goal(s) it will address	Development of a MITOEAGLE proficiency training module, Draft phase 2 of a manuscript on concepts and terminology of mitochondrial physiology, MITOEAGLE data management system (DMS) development: (1) Testing of developed software components regarding functionality and usability; (2) Upload of datasets generated through WG 2-4 in internal lab developments, Develop recommendations for quality control, data reporting and data sharing beyond the published record, Draft (phase 2) of a manuscript on procedures, protocols and general guidelines for mitochondrial respiratory studies in muscle tissue, Extend consensus protocols and reporting schemes in a standardized format from adipose to neuronal and liver tissues (WG3), Summarize consensus protocols and reporting schemes for mitochondrial respiratory studies in blood and cultured cells, Develop laboratory protocols for blood cell types (PBMCs, platelets) for mitochondrial studies on intact and permeabilized cells.	
Description	STSM	
Output(s)	1. Support individual mobility. 2. Specific contributions to the scientific objectives of MITOEAGLE. 3. Strengthen the MITOEAGLE network. 4. Foster collaborations by allowing researchers participating in the COST Action MITOEAGLE to visit an institution/organisation in another participating COST Country; an approved Near Neighbour Country institution; an approved International Partner Country institution. 5. Learn new techniques. 6. Gain access to specific data, methods and instruments not available in the home institutions / organisations.	

COST Action Dissemination

Title	Type	Publisher/provider	Expected date of Release	Cost(EUR)
Dissemination on project website	Action Website	www.mitoeagle.org	30/04/2018	800.00
Grant Period Goal(s) it will address	Present on project website a collection of procedures and experimental protocols for the evaluation of mitochondrial capacities and a library of protocols, for discussion and optimization, Draft (phase 2) of a manuscript on procedures, protocols and general guidelines for mitochondrial respiratory studies in muscle tissue, Summarize consensus protocols and reporting schemes for mitochondrial respiratory studies in blood and cultured cells, Develop laboratory protocols for blood cell types (PBMCs, platelets) for mitochondrial studies on intact and permeabilized cells.			
Description	Dissemination on project website			
Output(s)	Dissemination on project website			

Title	Type	Publisher/provider	Expected date of Release	Cost(EUR)
Leaflet for training schools	Leaflet / Brochure	Steiger Druck GmbH Axams	08/10/2017	1,000.00
Grant Period Goal(s) it will address	Development of a MITOEAGLE proficiency training module, Develop recommendations for quality control, data reporting and data sharing beyond the published record, Discuss strategic dissemination and an education programme for MITOEAGLE, Summarize consensus protocols and reporting schemes for mitochondrial respiratory studies in blood and cultured cells			
Description	Programme and abstracts of training schools			
Output(s)	Programme and abstracts of training schools			

Title	Type	Publisher/provider	Expected date of Release	Cost(EUR)
Leaflets for COST conference and workshops	Leaflet / Brochure	Steiger Druck GmbH Axams	05/03/2018	1,000.00
Grant Period Goal(s) it will address	Development of a MITOEAGLE proficiency training module, Develop recommendations for quality control, data reporting and data sharing beyond the published record, Summarize consensus protocols and reporting schemes for mitochondrial respiratory studies in blood and cultured cells			
Description	Programme and abstracts for COST conference and workshops			
Output(s)	Programme and abstracts for COST conference and workshops			

Total Disseminations				2,800.00
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Other Expenses Related to Scientific Activities (OERSA)

Item	Cost(EUR)
Bank charges	500.00