

Version 21/04/2016

COST Action BM1406 (2015-03-31-2019-03-30)

IONCHAN-IMMUNRESPON: ION CHANnels and IMMUNe RESPONse Toward a global understanding of immune cell physiology And for new therapeutic approaches

PROGRESS REPORT AT MONTH 24

This report is submitted by the MC Chair on behalf of the Management Committee.

<u>Confidentiality</u>: This report, other than section II.D, is non-confidential. Section II.D is confidential to the Management Committee and the COST Association (including the Committee of Senior Officials, Scientific Committee and Administration).

Executive summary of the Progress Report:

The activity of the COST Action BM1406 entitled "Ion Channels and Immune Response toward a global understanding of immune cell physiology and for new therapeutic approaches (IONCHAN-IMMUNRESPON)" during the 24 Month period was characterised by 5 meetings and workshops including the kick off meeting, and 9 STSM.

The aim of all the meetings was to merge in a single location the participants in order to spur new collaborative ideas and projects. In this term, the activity was very successful. Of particular interest, the outcome of the meeting was the beginning of collaborative exchange on topics such as strategies to modulate ion channels in immune cells, thanks to antibodies, drugs and siRNA. The Third Meeting in Lisbon, in which we focused on the WG3, clearly demonstrated that the siRNA approach is not yet available for therapies through the ion channels. Chemical drugs and therapeutic antibodies seem to be a better trail to investigate ion channel modulation. Each meeting gave the opportunity to the participants to exchange scientific expertise and to have fruitful discussions. The STSMs of young researchers inside the Action increased the knowledge of skills of each laboratory that allows the collaborations and material exchanges. In this, our objective, which is to build working relationships within European research groups, is reached in full.

The outcomes of the Action could be appreciated thank to the numbers of submitted projects on the national and European levels, the numbers of publications in which the Action has been acknowledged, the collaborative projects supported or not by the Action, the number of ITC partners involved into these projects. The important scientific advance has been reported in the paper of Prof. di Virgilio and Pablo Pelegrin concerning the role of the nlrp3/P2X7 in cancer cells. It is a major concern for this type of cancers to understand which inflammation is induced and why the immune system does not attack against the cancer cells. The Action has allowed also the study of very particular channels such as aquaporin, which has lead to the publication of three articles.

The Action has increased the individual scientific foresight and a large number of us have been invited to the other laboratories for conferences and seminars in each partners countries. We paid a large attention to the young researchers and PhD. Fellow for those STSM are priority **dedicated**.

We have a nice success story with the creation of a start 'up by our colleagues from Switzerland in Geneva that participate to the industrial task of Europe. Nevertheless, we observed that the relation with industries in the Action is less efficient to start collaborative projects and so we decided for the next GP to increase the number of STSM for the industrial partners. To sum up, this first period of activity allows us to establish scientific relation in a common scientific area, a to build strategies to study the role of ion channels in immune cells, and evaluate the appropriate trail to module the immune cell activity.



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I. Progress Report I.A. COST Action Profile

Objective/Aim The main objective of the Action is to use modulation of ion channels for therapeutic approaches in immune diseases by identification of the pertinent targets, the development of animal models and a better understanding of their role in immune cell functionality.

Details			
MoU:	084/4	Start of Action:	2015-03-31
CSO approval date:	2014-11-13	End of Action:	2019-03-30
	2014-11-13	End of Action.	2019-03-30

COST Member Countries and Cooperating State having accepted the MoU									
Country	Date	Status							
Austria	20/01/2015	Confirmed							
Belgium	06/03/2017	Confirmed							
Bosnia and Herzegovina	21/10/2015	Confirmed							
Croatia	03/02/2015	Confirmed							
Czech Republic	26/03/2015	Confirmed							
Denmark	05/12/2014	Confirmed							
Estonia	11/02/2015	Confirmed							
France	27/11/2014	Confirmed							
fYR Macedonia	30/01/2015	Confirmed							
Germany	15/12/2014	Confirmed							
Greece	16/12/2014	Confirmed							
Hungary	17/12/2014	Confirmed							
Ireland	25/07/2016	Confirmed							
Israel	30/11/2014	Confirmed							
Italy	29/01/2015	Confirmed							
Latvia	27/03/2015	Confirmed							
Luxembourg	01/12/2014	Confirmed							
Norway	11/02/2015	Confirmed							
Poland	05/12/2014	Confirmed							
Portugal	16/02/2015	Confirmed							
Serbia	04/03/2016	Confirmed							
Slovenia	18/03/2015	Confirmed							
Spain	21/11/2014	Confirmed							
Sweden	11/02/2015	Confirmed							
Switzerland	16/01/2015	Confirmed							
Turkey	24/08/2015	Confirmed							
United Kingdom	18/11/2014	Confirmed							
Total: 27									
Intentions to Accept the MoU									
0									
Other participants:	Other participants:								
Institution Name	Country								
New York University School of Me	USA								
Department of Pathology and Cancer Institute									
Washington State University,		ment of USA							
Integrative Physiology and Neuro	Science								





Contacts

Chair/ Vice Chair

Position	Name	Contact details	Country	Date o PhD:	f Gender	
Chair:	VELGE- ROUSSEL Florence	University of Tours, UFR Medicine 10, Bvd Tonnellé, 37032 TOURS France, Tel.+33247366058 Fax +33247366146 velge@univ-tours.fr		France	1989	F
Vice Chair:	PELEGRIN Pablo	Murcia's Biohelath Research Institute (IMIB-Arrixaca) Edificio LAIB Carretera Buenavista s/n 30120 Murcia Spain +34868885038 pablo.pelegrin@ffis.es		Spain	2003	Μ

Working Group Leaders

	Working Group Leaders										
١	WG#	WG Title	WG Leader	Country	Date of	Gender	Number of				
				•	PhD:		participants				
	1	Identification and	Dr Ruth	UK	1988	F	60				
		Characterization of ion channels	Murrell-								
		in immune cells	Lagnado								
	2	Role of ion channels in immune	Prof	IT	?	Μ	40				
			Francesco Di								
		pathologies	Virgilio								
	3	lon channels as new targets in	Prof Friedrich	DE	?	Μ	30				
		therapy and diagnosis	Koch-Nolte								

Other positions if applicable (STSM Coordinator, WG Vice Leader, Task Force Leader...)

Position	Name	Country	Date of PhD:	Gender
Representative of Early-Stage researchers (ESRs)	e Ellegaardl M.	DK	2013	F
Representative of SMEs	Toomas Neuman	EE	?	Μ
Coordinator of STSMs	Barbara Niemeyer	DE	?	F
Dissemination Coordinator	Antoine El Chemaly	CH	?	Μ

Action website: http://costbm1406.univ-tours.fr/home/





I.B. Progress with MoU objectives and deliverables and additional outputs

MoU objectives

MOU ODJECTIVES	-	
MoU objective	Achieved Yes/ Partially/ No	Evidence of (partial) achievement including hyperlink to enable assessment of the achievement ¹ . Justification if full achievement is not foreseen
OBJ1. Available data managing and validation strategies consensus for identified targets.	Partially	Each scientific article represents a step in the knowledge about each target identified Each meeting allowed achievements and collaborations i.e. scientific reports of all meetings http://costbm1406.univ-tours.fr/home/
OBj2. Identification of target diseases.	Partially	WG2 meeting in Belgrade focused on the thematic and some candidates have been evidenced
OBj3. Translating OBJ1 and 2 into preclinical animal models.	Partially	Exchanges between partners during the Zagreb meeting allow the exchange of mouse models
OBJ4. Therapeutics	Partially	We explored the three strategies explained into the MoU in the Lisbon meeting with expert's advices. See Lisbon report (http://costbm1406.univ- tours.fr/home/)

MoU deliverables

	1	
MoU deliverable	Level of progress ¹	Evidence of (partial) delivery achievement including hyperlink to enable assessment of the delivery ¹ . Justification if full achievement is not foreseen
Building of BM1406 website to communicate with all members	Achieved	http://costbm1406.univ-tours.fr/home/ https://www.facebook.com/BM1406?fref=ts
Position paper of F di Virgilio, Involvement of the P2X7-NLRP3 axis in leukemic cell proliferation and,death. Sci. Rep. 6, 26280	Achieved	http://www.nature.com.gate2.inist.fr/articles/srep26280
Publication of periodic newsletter send to all members of BM1406 Action	Partially achieved	Two newsletters per year http://costbm1406.univ-tours.fr/newsletters/
SOPs in microscopy for calcium image	Achieved	http://kurser.ku.dk/course/nscphd1123/
Position paper Special issue in Current Opinion in Immunology will be elaborated by the BM1406 members	Partially achieved	http://www.current- opinion.com/journals/current-opinion-in-immunology/

Co-authored publications and FP7/ H2020 proposals

The co-authored publications and FP7/ H2020 proposals/ projects resulting from the Action are listed on the page following the "Additional outputs and achievements" section

Additional outputs and achievements

Please describe any other outputs and achievements that have resulted or are in progress, focusing in particular on those that contribute to the COST mission of "COST enables break-through scientific developments leading to new concepts and products and thereby contributes to strengthen Europe's research and innovation capacities."

Collaboration between Croatia and Portugal members open the new thematic with the identification of the role of aquaporins in immune cells (ITC, EWP)

¹ The links to the outputs and deliverables will be used by the Action Rapporteur in assessing the progress.





Determination of STIM1 role in depression (Majeswski et al.2016) Demonstration of the pole of MLRP3 and P2X7 axis in the cancer cells.





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Co-authored publications and FP7/ H2020 proposals

Co-authored publications

Enter in the table below only publications on the topic of the Action, co-authored by at least two Action participants from two different countries participating in the Action and for which the Action networking added value. A maximum of ten publications may be entered. If the Action has more than ten such publications the Core Group should select the ten most significant ones to include in the table below.

NO.	Bibliographic data (including: Title, Authors, Title of the periodical or the series, Issue number or volume, Publisher, Year of publication, Relevant pages)	Main author	Number of authors	Action participants listed among the authors (Name, country and role ²)	WGs invol ved in publi catio n	Date of submission (must be after Action start date)	Expected date of publication (if not already published)	Persistent link to publicly available version of the paper (if available) or the abstract	Is/Will open access ³ provided to this publicati on?	Is/ will COST be cited/ acknowledg ed in the publication?	Are/ will COST funds (be) implicated in this publication	Relevance to H2020 Societal Challenges⁴?	ls it peer- review ed?	Was the added value of the Action Networking necessary for the publication	Impact Factor (if applicable)
1	Immature human dendritic cells enhance their migration through KCa3.1 channel activation. David Crottès, Romain Félix, Daniel Meley, Stéphanie Chadet, Florence Herr, Cindy Audiger, Olivier Soriani, ChristopheVandier, SébastienRogerb, Denis Angoulvant, FlorenceVelge- Roussel. <i>Cell Calcium 59 (2016)198–207</i> .	David Crottès	11	C. Vandier, FR WG1, S. Roger, FR WG1, F. Velge-Roussel, FR Chair	WG1	17/11/2015	Accepted 15/02/2016	http://www.sciencedirect.com/sci ence/article/pii/S014341601630 0112	no	по	no	Yes	Yes	USA partner pre-reviewed the article	3,43
2	M1 and M2 Functional Imprinting of Primary Microglia: Role of P2X7 Activation and miR-125b. Mediators of Inflammation Volume 2016, Article ID 2989548, 9 pages http://dx.	ChiaraParisi	4	Chiara Parisi, Italy, STSM recipient, Pablo Pelegrin, Spain V Chair, and Cinzia Volonté Italiy, MC substitute	WG1	23 /09/2016	Accepted 24 November 2016	doi.org/10.1155/2016/2989548	no	Yes	Yes	Yes	Yes	STSM of Parisi	3.418
3	Involvement of the P2X7-NLRP3 axis in leukemic cell proliferation and,death. Sci. Rep. 6, 26280	Erica Salaro	16	Alba Clara Sarti, Italy STSM recipient, Pablo Pelegrin, Spain, V Chair, Francesco Di Virgilio, Italiy WGL2	WG2	30/07/2015	Accepted: 25 April 2016	doi: 10.1038/srep26280 (2016)	no	Yes	No	Yes	Yes	STSM Sarti	5.578
4	UCP2 up-regulation within the course of autoimmune encephalomyelitis correlates with T-lymphocyte activation. Biochimica et Biophysica Acta 1863 (2017) 1002–1012.	Alina Smorodchenko	8	Anne Rupprecht Italy, WG2, Elena E. Pohl, Austria WG2	WG2	09/10/2016	Accepted 23 January 2017	http://www.sciencedirect.com/sci ence/article/pii/S092544391730 0327	no	Yes	No	Yes	Yes	Meeting exchanges	3.66
5	Rat Aquaporin-5 is pH-Gated Induced by Phosphorylation and is Implicated in Oxidative Stress. Int. J. Mol. Sci. 17: 2090, 2016.	Claudia Rodrigues	8	C. Rodrigues, Portugal STSM recipient, Ana Gasparovic, Croatia WG1, G. Soveral, Portugal, WG1	WG1	28/09/2016	06/12/2016	doi:10.3390/ijms17122090	no	Yes	Yes	Yes	yes	STSM Rodrigues	3.25
6	Yeast aquaporin regulation by 4-hydroxynonenal is implicated in oxidative stress response. IUBMB Life. 2017 Mar 24.	Claudia Rodrigues	5	C. Rodrigues, Portugal STSM recipient, Ana Gasparovic, Croatia WG1, G. Soveral, Portugal, WG1	WG1	09/01/2016	03/03/2017	doi: 10.1002/iub.1624.	no	Yes	Yes	Yes	Yes	STSM Rodrigues	2.65
7	NLR Proteins, Methods in Molecular Biology 1416, Springer ed.	Francesco Di Virgilio Pablo Pelegrin	55	Anna Rubartelli, WG2, Francesco di Virgilio, WG2 Pablo Pelegrin WG1, Vice Chair	WG1 /WG 2	16/10/2015	15/05/2016	http://www.springer.com/series/7 651	no	no	no	Yes	Yes	Meeting exchanges	0.79

² MC Member/ MC Substitute/ MC Observer/ WG Member/ Training School Trainee/ STSM Recipient/ Other Action Participant

³ Open Access is defined as free of charge access for anyone via Internet. Please answer "yes" if the open access to the publication is already established and also if the embargo period for open access is not yet over but you intend to establish open access afterwards. ⁴ H2020 Societal Challenges are "Health, demographic change and wellbeing"; "Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the Bioeconomy"; "Secure, clean and efficient energy"; "Smart, green and integrated transport"; "Climate action, environment, resource efficiency and raw materials"; "Europe in a changing world - inclusive, innovative and reflective societies"; "Secure societies - protecting freedom and security of Europe and its citizens"





	P2 receptors in cancer progression and metastatic spreading Current Opinion in Pharmacology 2016, 29:17–25	Francesco di Virgilio	4	Francesco di Virgilio, WG2	WG2	31 March 2016	20 June 2016	http://dx.doi.org/10.1016/j.coph. 2016.05.001	no	Yes	по	Yes	Yes	Meeting exchanges	4.742
	Extracellular purines, purinergic receptors and tumor growth, Oncogene (2017) 36, 293–303	Francesco di Virgilio	2	Francesco di Virgilio, WG2	WG2	31 March 2016	2 May 2016	doi:10.1038/onc.2016.206	по	Yes	по	Yes	Yes	Meeting exchanges	7.932
1	Overexpression of STIM1 in neurons in mouse brain improves contextual learning and impairs long-term depression. Biochim Biophys Acta. 2016 Nov 29. pii: S0167- 4889(16)30320-2.	Luckas Majewski	8	Luckas Majewski, WG1 Jack Kuznicki WG1	WG1	28 Sept 2016	26 Nov 2016	doi: 10.1016/j.bbamcr.2016.11.025.	Yes	Yes	Yes (STSM)	Yes	Yes	STSM Iga Wasilelewska	5.343
1	Purinergic signaling in the immune system, Autonomic Neuroscience: Basic and Clinical 191 (2015) 117–123	Franceco Di Virgilio	2	Francesco di Virgilio, WG2	WG2	02/2015	23 Nov 2015	doi: 10.1016/j.autneu.2015.04.011	Yes	Yes	по	Yes	Yes	Meeting exchanges	1.620

FP7/ H2020 Proposals and projects This table contains FP7/ H2020 proposals/ projects spinning off from Action activities and including in the proposing consortium at least three Action participants from at least three different countries participating in the Action.

NO.	Title	Name and country of main proposer	Number of proposers	Action participants listed among the proposers (Name, country, role ³ in the Action)	Funding agency submitted to	Date submitted	Date results expected	Result	Call identifier	Relevance to H2020 Societal Challenges ⁴ ?	Was the added value of the Action Networking necessary for the proposal / project?
Proj	ects										
1	PHARMPROT teaming, GINOP-2.3.2-15-2016-00044 project.	Hungary	1		co-financed by the European Union and the European Regional Development Fund.		2016	accepted	ERDF	Yes Health, demographic change and wellbeing	
2	3-year project grant application	Ruth Murrell- Lagnado (UK)	2	Ruth Murrell-Lagnado (UK) Sebastien Roger (France)	Breast Cancer Now	June 2016		refused			
Pro	posals										
	Ion Transport Remodelling in Pancreatic Cancer IonPaC	G. Panyi, Hungary	2	G. Panyi, Hungary WG1, I. Novak, Denmark, WG1	MARIE SKŁODOWSKA- CURIE ACTIONS,	02/2017	08/2017		International Training Network	Yes, Health, demographic change and wellbeing	Open to Euroepan grants
	3-year project grant application	Ruth Murrell- Lagnado (UK)	2	Ruth Murrell-Lagnado (UK) Sebastien Roger (France)	World Wide Cancer Research (UK)	April 17	September 17			Yes, Health, demographic change and wellbeing	Building of Collaboration inside of the Action





I.C. Networking

Added value of the Networking

Joined publications

Numerous joined publications between Cost Countries

New Collaboration started

- 1, Collaboration with Nace Zidar Univerza v Ljubljani F
- 2, Collaboration with Iva Bozic, Irena Lavrnja, Universit
- 3, Collaboration of Katja Ester Croatia with Jost Ludwig
- 4, Collaboration of Luckas Majesky, Poland with Barab
- 5, Collaboration of Ruth Murrell-Lagnado, UK with Coli
- 6, Collaboration of Ruth Murrell-Lagnado, UK with Seb

7, Collaboration of Ruth Murrell-Lagnado, UK with Rain 8, Collaboration of Pablo Pelegrin (Spain) with Frances Hafner (Slo), Cinzia Volonté (Italy), Sebastien Roger (F 9, Collaboration of Graca Soveral (Portugal) with Ana (10, Collaboration of N. Demaurex (Swiss) with Christop on STIM/ORAI

New projects submitted at national level

- Hungarian National Science Fund, K119417 F tumours, obtained
- 3-year project grant applications with R. Murre Cancer Now (June 2016) refused
- one 3-year project recently to World Wide Can
- One project from N. Demaurex (Swiss) obtained Scientifique en 2016 (SNF 31003A_16949)
- 2016, "Regulacion del inflamasoma nlrp3: impl Programa Estatal de Fomento de la Investigac Ministry of Economy and Competitiveness. Na
- 3-year project grant application Barbara Nieme from the DFG (FOR2289, 2016-2018)
- 4 year project grant application Barbara Nieme immune cell function by the DFG (SFB1027, 20)

New thematic

Role of Aquaporins in immune cells (Croatia, Poland) Neuronal inflammatory diseases (Belgrade, Croatia)

Extent of the networking

- Interface with BM1305 (A FACTT) • We contacted Dr Eva M MARTINEZ-C Accelerate Cell-based Tolerance-induc participants
- Interaction with BM 1307 ((PROTEOSTASIS)
 We contacted BMBS 1307 thanks to the C people interested by the immune cell them
- Meetings in ITC countries
 - At this date, we organized 4 meetings in March 2016, Croatia in September 2
- Invitation of a local speaker in each meeting
 - We have the use to invite one local sp
 - which welcome us (see scientific progr





- STSM for the ESR
 - o 7 applicants for the STSM came from ITC, 2 from Cost Member Country.
 - 4 STSM are from ITC to CMC,
 - o 2 from CMC to ITC
 - o 2 frim ITC to ITC
 - o 2 in the CMC
- Gender balance in the MC, number of ITC vs CMC
 - MC gender balance 31 women / 56 members = 50%
 - The great majority of the STSM have done by women (7 out 9 STSM from GP1 and GP2)
 - 6 out of 9 STSM have been done from people from ITC to a CMC.

I.D. Impacts

The impacts that have resulted, or might result from the Action are described in the following table.

Description of the impact	Type of impact ⁵	Timing of impact ⁶
 Creating the ERA network 66 MC members from 26 countries (12 ICT/26 countries) Trans-disciplinarily network with Biophysics, chemists, immunologists, clinicians 	Scientific	Foreseen 5-10 years
New resources and tools According the scientific collaborations, new tools have been shared	Scientific	Foreseen within 2 years
Fruitful collaborations New collaborations have been build thank to the Action listed in I.C. networking Joined scientific publications	Scientific	Foreseen within 2 years
Enabling young scientist to work in excellent European partner laboratories	Scientific, Soft skill and professional advancement	immediate

I.E Dissemination and exploitation of Action results

Describe the Action's dissemination and exploitation approach as well as all activities undertaken to ensure dissemination and exploitation of Action results and the effectiveness of these activities. Add description here Item/ activity Target audience Result Hyperlink Newsletters http://costbm1406.univ-Scientists ¹/₄ on website tours.fr/newsletters/ Dissemination Scientists of the same 1 in Lecce, Italy Slides? Meetings area

⁶ Achieved/ Foreseen within 2 years/ Foreseen 2-5 years/ Foreseen 5-10 years/ Foreseen 10+ years



⁵ Scientific/ technological, Economic, Societal



I.F. Action success(es)

COST regularly communicates the successes of Actions. At this point in time what aspect(s) (outcomes and/ or impacts, rather than activities) of this Action is/ are the most suitable for communication?

The research on Hv1 proton channels financed by COST resulted in the creation of a company (Hplus therapeuDcs) of which Karl-Heinz Krause (Swi) is founder and Nicolas Demaurex (Swi) the advisor scientific. http://ge.ch/hrcintapp/externalCompanyReport.action?companyOfrcld13=CH-660-0246017-1&ofrcLanguage=1	Dimension of the success Breakthrough: technological Policy implementation (specify which policy) Capacity building

II. Management Report

II.A. Overview of expenditure

Insert below in the yellow cells the summary of figures from the Yearly Financial Reports (YFRs) of completed Grant Periods and an IFR of any incomplete Grant Period – the Totals (non-yellow cells) will automatically sum.

	Gran	t Period 1	Grant Period 2		Grant Period 3		TOTAL
GP start and end dates	(01/06/2015- 31/05/2016)		(01/05/2016- 30/04/2017)		(01/05/2017- 30/04/2018)		
Grant Holder institution	GH institution name (country code)		GH institution name (country code)		GH institution name (country code)		
Meetings	EUR	53 697,49	EUR	53 506,29	-	EUR	107 203,78
Training Schools	EUR	-	EUR	-	-	EUR	-
STSMs	EUR	13 250,00	EUR	4 800,00	-	EUR	18 050,00
Dissemination	EUR	-	EUR	1 325,00	-	EUR	1 325,00
OERSA ¹	EUR	-	EUR	-	-	EUR	-
Total Scientific Expenditure	EUR	66 947,49	EUR	59 631,29	-	EUR	126 578,78
FSAC ²	EUR	10 042,12	EUR	8 922,69	-	EUR	18 964,81
TOTAL	EUR	76 989,61	68 5	53,98 EUR	-	EUR	145 543,59

¹OERSA = Other Expenses Related to Scientific Expenditure (e.g. bank charges)

² FSAC = Amount received by Grant Holder for Financial Scientific and Administrative Coordination





II.B. Budget and Participation management

II.B.1 Budget spent in	relation to ind	ividua	ls/ ins	titutic	ons or	utside pa	articipating COST countries	
STSMs from or to institu								
We had no activity in thi						<u> </u>		
Grantee	Host	Date		Topic and value added to the Action				
Institution Country		Country	y Date		Topic and value added to the Action			
Add home institution	Add host institution		Date		Describe topic of the STSM and the added			
and country	and country				value to the Action			
Add home institution	Add host institution				Describe topic of the STSM and the added			
and country	and country				value to the Action			
Add home institution	Add host institution		n Date		Describe topic of the STSM and the added			
and country	and country				value to the Action			
Invited Speakers								
	or non-particip	ating N	NC, IF	C or	Specif		ST countries that have not isations whose participation at a	
Participant name	Institution		Country		vent ite	Topic	and added value to the Action	
Thomas de Coursey	Department of Physiology & Biophysics, Rush Medical College,1750 W. Harrison St. Suite 1245 Chicago, IL 60612		N 2		11 th arch 16	Oral p Dema https:/ partm biophy	06 Lisbon presentation invited by N. urex (Swiss) //www.rushu.rush.edu/research/de ental-research/physiology-and- ysics-research/laboratory-tom- ursey-phd	
Stefan Feske	Department of Pathology and Cancer Institute NYU School of Medicine, Smilow Research Building 550 First Avenue, New York, NY 10016, USA		JSA	23-24th March 2017		confei by Ru Event	BM1406 meeting in Belgrade, conference on Channelopathies invited by Ruth Murrell-Lagnado (UK) Event Facebook https://med.nyu.edu/faculty/stefan-feske	
Dissemination meetings		alue of	Disso	minati	ion M	ootings fi	nanced from Action funds.	
Participant name	Role	Count				cation	Topic and added value to the	
				-			Action	
Dr. Anna Rubartelli	speaker	Italy		4-7 Octobe r 2016		cce, ly	Unconventional proteins and membrane traffic, Presentation on COST Action (slides)	
II C. Participants								

II.C. Participants

Management Committee		
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II.D. Specific matters

This section is confidential to the Management Committee, and the COST Association (Administration, Scientific Committee and Committee of Senior Officials); and is not included in the version of the report that is made publicly available.

The Action encountered the following particular difficulties in the implementation of the Action (e.g. imbalances of participation across the Working Groups, inactive country representatives).

Describe the issue(s) here or write "no particular difficulties encountered".

no particular difficulties encountered

Write explanation here





Annex 1

Definitions:	
COST Action	"The research question addressed by the COST Action targeting scientific,
Challenge (main	technological, and / or socioeconomic problems"
aim)	
COST Action	"The creation and / or development of new or improved concepts, products,
Innovation	processes, services, and / or technologies that are made available to markets,
	governments and society"
COST Action	"COST Action objectives are the results that an Action needs to achieve in order to
objectives	respond to meet its challenge. These are SMART (Specific, Measurable, Achievable,
	Relevant, Timely) and twofold: research coordination objectives and capacity building
	objectives."
COST Action	"Achieving these objectives turns COST Actions from initially scattered teams into
research	one transnational team and leverages the existing funded research. These objectives
coordination	entail the distribution of tasks, sharing of knowledge and know-how, and the creation
objectives	of synergies among Action participants to achieve specific outputs."
COST Action	"Achieving these objectives entail building critical mass to drive scientific progress,
capacity	thereby strengthening the European Research Area. They can be achieved by the
building	delivery of specific outputs and / or through network features or types and levels of
objectives	participation."
COST Action	"any activities organised by the COST Action (whether or not directly funded by
networking	COST) in order to achieve research coordination and capacity building objectives."
activities	
COST Action	"instruments through which eligible activities can be funded"
networking tools	
COST Action	"direct results from the COST Action activities. These can be codified knowledge,
outputs	tacit knowledge, technology, and societal applications."
COCT A stick	"the short to low to me accentific to be allowing and the accention of the second
COST Action	"the short- to long-term scientific, technological, and / or socioeconomic changes
impact COST Action	produced by a COST Action, directly or indirectly, intended or unintended." "a distinct, expected and tangible output of the Action, meaningful in terms of the
deliverable	
Genverable	Action's overall objectives such as a report, a document, a technical diagram, a software etc. Action deliverables are used to measure its progress and success."
COST Action	"Control points in the Action that help to chart progress. They are also needed at
milestones	intermediary points so that, if problems have arisen, corrective measures can be
miestones	taken. A milestone may be a critical decision point in the Action where, for example,
	the MC must decide which of several technologies to adopt for further development
	(e.g. core group and MC meetings, mid-term reviews)"
Inclusiveness	Current COST Member Countries targeted by the COST inclusiveness Policy
Target Country	("Inclusiveness Target Countries" (ITC)): EU 13 (Bulgaria, Cyprus, Czech Republic,
(ITC):	Estonia, Croatia, Hungary, Lithuania, Latvia, Malta, Poland, Romania, Slovenia,
(Slovakia), EU candidate countries (the former Yugoslav Republic of Macedonia,
	Montenegro, Republic of Serbia, Turkey) and potential EU candidate countries
	(Bosnia and Herzegovina). In addition, to comply with the EC criteria for 'Spreading
	Excellence and Widening Participation', Portugal and Luxemburg are included.
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