

## Deliverable D7.1.1

Project Title:	Developing an efficient e-infrastructure, standards and data-flow for metabolomics and its interface to biomedical and life science e-infrastructures in Europe and world-wide	
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WP leader:	Ulrich Günther	UBHam
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## 1 Executive summary

The aim of this deliverable is to summarize outreach activity by COSMOS partners:

1. Report on COSMOS related publications
2. Report on news and media related articles related to COSMOS activity
3. Link to websites and article references to COSMOS

## 2 Project objectives

With this deliverable, the project has reached, or the deliverable has contributed to the following objectives:

No.	Objective	Yes	No
1	Report on COSMOS related publications	X	
2	Report on news articles, and media activity related to COSMOS	X	
3	Link to websites and articles where there is a reference to COSMOS	X	
4	Future Outreach plans	X	

## 3 Detailed report on the deliverable

### 3.1 Background

We will initially employ the usual channels for the disseminations of COSMOS standards, including scientific publications, workshops and presentations at metabolomics conferences to reach the wider metabolomics community. The project will plan activities adequately resourced devoted to dissemination for specialised constituencies and the general public, in particular for awareness and educational purposes. The dissemination plan deliverable will consider adequate messages about the objectives of the project and its societal and economic impact. The tools we will use will include web-based communication, press releases, brochures, booklets, multimedia material, etc. The 'dissemination material' will be regularly updated to provide the latest version of the project status and objectives. In all material produced in all dissemination activities we will properly acknowledge the source of funding by prominently placing the FP7 and the European Commission logos.

### 3.2 Description of Work

#### 3.2.1 COSMOS related publications

To date, three publications related to COSMOS have been published, with further papers in in preparation.

EMBL-EBI has two publications on the MetaboLights database, in the journal of Metabolomics, and in Nucleic Acids Research (see section 4 for more information) with reference to COSMOS.

Golm have a paper submitted to the Metabolites journal on the applications of metabolomics to cyanobacteria, and IPB-Halle also have a paper under revision for the Metabolomics journal, in addition to another manuscript in preparation.



As well as journal publications, COSMOS was presented at the following conferences by EBI-EMBL:

- The Metabolomics Society Meeting in Washington DC, USA, 2012
- Metabomeeting, Manchester, UK, 2012

### 3.2.2 COSMOS related news articles, and media activity

Information on COSMOS has appeared in several news articles. These include:

- **Metabonews**  
([http://www.metabonews.ca/Dec2012/MetaboNews\\_Dec2012.htm](http://www.metabonews.ca/Dec2012/MetaboNews_Dec2012.htm)), which has an interview with Christoph Steinbeck ([http://www.metabonews.ca/Dec2012/MetaboNews\\_Dec2012.htm#MetaboInterviews](http://www.metabonews.ca/Dec2012/MetaboNews_Dec2012.htm#MetaboInterviews))
- EBI Press release: <http://www.ebi.ac.uk/Information/News/press-releases/press-release-09102012-COSMOS.html>
- BIOSpektum also carried an article about COSMOS: [http://biospektrum.de/blatt/d\\_bs\\_pdf&\\_id=1170690](http://biospektrum.de/blatt/d_bs_pdf&_id=1170690)
- Press Releases by Golm have carried information on COSMOS (<http://www.mpimp-golm.mpg.de/81899/2012-10-17> & <http://www.mpimp-golm.mpg.de/84366/2012-10-25>), which have also been carried by secondary publications including:
  - <http://www.mass-spec-capital.com/news/cosmos-projekt-standards-der-max-planck-institute-molecular-2001-100423.html>
  - [http://www.myscience.de/wire/golmer\\_wissenschaftler\\_im\\_cosmos-2012-mpg](http://www.myscience.de/wire/golmer_wissenschaftler_im_cosmos-2012-mpg)
  - <http://www.analytik-news.de/Presse/2012/647.html>
  - <http://www.life-sciences-germany.com/news/cosmos-projekt-standards-der-max-planck-institute-molecular-2001-100423.html>
  - <http://www.themenportal.de/wissenschaft/golmer-wissenschaftler-im-cosmos-67188>
  - <http://www.biotop.de/news/article+M5a454a9e8d7.html>



- The Newsletter of the Center of Bioinformatics of Bordeaux carried a story on COSMOS: <http://www.cbib.u-bordeaux2.fr/fr/content/cbib-partner-ec-project-cosmos>
- The Oxford e-Research Centre has a new story regarding COSMOS: <http://www.oerc.ox.ac.uk/news/cosmos-project-launches-funded-with-20ac2m-from-ec>
- COSMOS was also acknowledged in an ISA website: <http://isatab.sourceforge.net/about.html>

### 3.2.3 Websites and articles referring COSMOS

COSMOS has been mentioned on numerous websites. These are:

- **COSMOS website** with content management system, separate login for partners and work package leaders in production (<http://www.cosmos-fp7.eu>)
- **The EMBL-EBI Group website, with references to the group's publications** (<http://www.ebi.ac.uk/metabolights>, <http://link.springer.com/article/10.1007%2Fs11306-012-0462-0>, and <http://www.ebi.ac.uk/steinbeck/publications.html>).
- **The Genome web:** <http://www.genomeweb.com/informatics/ebi-launches-cosmos-initiative-standardize-metabolomics-data-sharing>
- **EBI Australia:** <http://www.ebi.edu.au/research/metabolomics-standards-project-launches>
- **Technology Networks- Metabolomics and lipidomics:** <http://www.technologynetworks.com/metabolomics/news.aspx?id=145425>
- The Golm Metabolome Database (GMD, <http://gmd.mpimp-golm.mpg.de/>) website acknowledge and links back to the COSMOS website.
- Bordeaux Metabolome Facility Website: <http://www.cgfb.u-bordeaux2.fr/en/metabolome>
- The division of Analytical BioSciences, Leiden University website: <http://analyticalbiosciences.leidenuniv.nl/research/projects/cosmos-coordination-of-standards-in-metabolomics>
- A free sourceforge site for storing documents and data related to software and tools development: <http://sourceforge.net/projects/cosmos-fp7/>
- Link to COSMOS within “about-crem” webpage under “EU project”: <http://www.cerm.unifi.it/about-cerm/eu-projects>



### 3.3 Next steps

1. Preparation of COSMOS related publications, with all COSMOS partners as authors.
2. Prepare a specific News Article, distribute as a pdf newsletter for the metabolomics community.
3. Further links to metabolomic WEB sites.
4. Updated press release after establishment of online tools.
5. Expand COSMOS in social media, though further use of the EMBL-EBI Twitter account.
6. Workshop plan for the Metabolomics 2013 meeting in Glasgow
7. Schedule Stakeholders meeting at Metabolomics 2013 in Glasgow

## 4 Publications

**MetaboLights: towards a new COSMOS of metabolomics data management.**

**Metabolomics** [2012, 8(5):757-760] (PMID:23060735) Steinbeck C, Conesa P, Haug K, Mahendraker T, Williams M, Maguire E, Rocca-Serra P, Sansone SA, Salek RM, Griffin JL

**MetaboLights--an open-access general-purpose repository for metabolomics studies and associated meta-data** **Nucleic Acids Res** [2012]. (PMID:23109552). Haug K, Salek RM, Conesa P, Hastings J, de Matos P, Rijnbeek M, Mahendraker T, Williams M, Neumann S, Rocca-Serra P, Maguire E, González-Beltrán A, Sansone SA, Griffin JL, Steinbeck C.

## 5 Delivery and schedule

The delivery is delayed: ☐ Yes ☒ No

## 6 Adjustments made

N/A



## 7 Efforts for this deliverable

Institute	Person-months (PM)		Period
	actual	estimated	
1:EMBL-EBI	1		2
2:LU/NMC	0		2
7:UB	1		2
13:UBHAM	1 (0.6 in Kind)		2
Total	3	3	

## Appendices

1. N/A

## Background information

This deliverable relates to WP7; background information on this WP as originally indicated in the description of work (DoW) is included below.

WP7 Title: Outreach and Training  
Lead: Ulrich Günther, UBHam  
Participants: Ulrich Günther

This work package will provide a close link between the COSMOS consortium and the wider metabolomics and the biomedical community. We will raise community awareness for the services provided by the COSMOS consortium, from data submission support to different views on metabolomics data, but also for the increasingly stringent requirements for data availability as part of the metabolomics publication process. Through the existing framework of the Metabolomics Society, we will ensure broad community input into the services developed by the COSMOS consortium and the standards for Metabolomics data representation developed in





this proposal. This deliverable relates to WP7; background information on this WP as originally indicated in the description of work (DoW) is included below.

Work package number	WP7	Start date or starting event:				Month 1			
Work package title	Outreach and Training								
Activity Type	COORD								
Participant number	1: EMBL-EBI	2: LU/NC	7: UB	13UBHam					
Person-months per participant	8	2	4	8					

### Objectives

1. Provide link between the COSMOS consortium and the wider metabolomics and the biomedical community
2. Raise community awareness for the services provided by the COSMOS consortium
3. Collect broad community input into services developed by the COSMOS consortium

### Description of work and role of participants

We will initially employ the usual channels for the disseminations of COSMOS standards, including scientific publications, and workshops and presentations at metabolomics conferences to reach the wider metabolomics community.

The project will plan activities adequately resourced devoted to dissemination for specialised constituencies and general public, in particular for awareness and educational purposes. The dissemination plan deliverable will consider adequate messages about the objectives of the project and its societal and economic impact. The tools we will use will include web-based communication, press releases, brochures, booklets, multimedia material, etc. The 'dissemination material' will be regularly updated to provide the latest version of the project status and objectives. Electronic and/or paper versions of this 'dissemination material' will be made available to the Project Officer beforehand for consultation and upon its final release. In all material produced in all dissemination activities we will properly acknowledge the source of funding by prominently placing the FP7 logo and the European Commission logo.

We will create and maintain the consortium website in an open source content management system. The website will have an EU domain such as [www.cosmos-fp7.eu](http://www.cosmos-fp7.eu). This website will have a specific COSMOS branding with a professionally



designed COSMOS logo to reflect the collaborative and international nature of the consortium. The COSMOS website will allow for content management by the partners, additional component (intranet, calendar, web site search), advanced analytics, functional testing, and communication via mailing lists. COSMOS will also build close links between the COSMOS consortium and the European and International metabolomics community, and the wider biomedical community. For this COSMOS will build on existing links with other EU and International initiatives (e.g. EU projects including the ESFRI infrastructures ELIXIR, BioMedBridges, EU Openscreen, and the IRSES Word Wide NMR to build links international stakeholders in China, specifically the Wuhan metabolomics center, India, and South America). Moreover, COSMOS will build links metabolomics groups in Canada (HMDB, Wishart) and the US (BMRB; see letters of support), both running major metabolomics WEB portals. COSMOS will also build an intensive dialog between mass spectrometry and NMR instrument vendors, search engine providers, experimentalists, data resources, and journal offices. This will require travel funds for all COSMOS stakeholders. Stakeholders are key members and opinion makers of the wider metabolomics community worldwide, in particular the USA, Canada and Japan. These will be invited to workshops and the annual stakeholder meetings where COSMOS standards are disseminated. COSMOS will react dynamically to requests from participants and outside advisors. The stakeholder meetings will preferably be held attached to the annual Metabolomics society meeting or the MetaboMeeting, where the majority of the metabolomics community is present.

Two ELearning WEB tutorials on “Metabolomics Data Deposition” through COSMOS will be made available through partner websites, links from conferences, and announcements on the project web site. The tutorials will be step-by-step 20-30 minutes guides to “Metabolomics Data Deposition and Dissemination through COSMOS”. These tutorials need to be carefully scripted, rehearsed and produced in the Media Production room of the Wellcome Trust Genome Campus. We expect that COSMOS standards will be adapted quickly considering this wide-spread array of dissemination channels involved.

Task 1: Development of outreach material (Website, flyer, brochures, etc)

Task 2: Publication of results in scientific journals

Task 3: Presentation of work of the consortium at conferences, in particular the MetaboMeeting and the annual meeting of Metabolomics Society.

Task 4: Development and dissemination of a web tutorial about the workflows and standards developed in this consortium.

Task 5: Provide training workshops on Metabolomics data deposition, dissemination and access through the general EBI outreach department. (EMBL-EBI)

## Deliverables

No.	Name	Due month
D7.1.1	Outreach activity plan (including publications)	2
D7.1.2	Updated Outreach activity plan (including publications)	12
D7.1.3	Updated Outreach activity plan (including publications)	24



D7.2	Report on the COSMOS consortium website	2
D7.3.1	Report on annual stakeholder meetings	12
D7.3.2	Report on annual stakeholder meetings	24
D7.4.1	Web-based tutorial	18
D7.4.2	Updated web-based tutorial	24
D7.5.1	Report about training workshops	24
D7.5.2	Report about training workshops	36