



Sixth  
Framework  
Programme

## KNAPPE

### Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters

Contract n° 036864

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Final date of the project: July 2008

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## D0.3 Scientific Council meeting minute Brussels, 17 July 2007

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**Participants:** Alistair Boxall (UoY), Dagmara Buntner (SUT), Eleftheria KAMPA (Ecologic) Dirk Löffler (BfG), Cécile MIEGE (Cemagref), Benoît Roig (Armines EMA), Michael SCHLUESENER (BfG) Evelyne Touraud (Armines EMA), Valentine VIERNE (Armines-Paris) Sébastien Zabczynski (SUT).

**B. Roig** welcomed the participants of the meeting and presented the content of the meeting:

- Main modification : beginning of some workpackages (WP4, WP5)
- The web site is open: one can download all the documents of the project
- Several deliverables have to be submitted until the end of the period
- A template will be sent for interim report (only for WP that already began but for the others, they can explain if pre-work is already done)

**V. Vierne** presented the financial aspect:

- State of the Consortium Agreement
- State of the financial transfers: 80% of the total budget has been transferred by the Commission. 85% of the advance has been sent to partners

**E. Touraud** presented the progress on the preparation of the International Conference and of WS1 and WS2 workshops: 2 days of conference proceeded by one day workshop (18-19-20 February 2008) in Nîmes. A first call for the international conference has been made in March 2007 but one needs to enlarge the information dissemination by:

- Next call : September 2007
- Press file to diffuse in the press in partners countries (done in France)
- Call and leaflet on the partners and stakeholders websites and information through contacts networks (leaflet is on Knappe website)

**E. Kampa** presented the WP3 organisation and regulatory perspectives. The work started in July 2007 with a state of the art review. She could have help from partners not involved in this workpackage in order to have information on existing good practices in Knappe (or other) countries as well as on any reviews in other projects. An interim version of this state of the art review is planned for October 2007 (final by December 2007). WP3 may also deal with good practice examples outside Europe (e.g. North America) in the second phase of this workpackage dealing with the assesment of options arising from different instruments..She also asked for the help of other partners to select experts for the WS3 workshop (April 2008).

**A. Boxall** presented the progress of WP4 and WP5.

WP4 consists in a review and synthesis on pharmaceuticals impact on the environment. In June, the review of data begins. Concerning the workshop (WS2), one day is planned before the International Conference (February 18<sup>th</sup>). A small working group (10 persons) will be constituted to work on WP4 and should meet in December 2007 or January 2008.

The launching meeting of WP5 has been held in York last week. There is some link with WP3 (how can we made pharmaceuticals more friendly for the environment?) and the WP3 workshop (WS3) could be merged with WP5 workshop (WS4), probably in York.

E. Kampa proposed to have an additional parallel session for WP3, not too long (half day). This option will be discussed with the University of York. She also asked how to best coordinate the sessions on “environmental stewardship” and “regulatory perspectives” of the International Conference, considering that workshops on the same two issues (WS3 and WS4) are planned two months later. E. Touraud hopes that the feedback of the International Conference will feed into the later workshops.

**D. Loeffler** presented the first results of WP1 and the difficulties that BfG has encountered. WP1 concerns the occurrence of PPs in the aquatic environment towards indicators for contamination with pharmaceuticals. The objectives are mainly to propose a list of the most relevant PPs, to identify the data gaps and to propose indicators of contamination. Data collection on pharmacological, physicochemical properties, fate and exposure is on going. At this time, data concerning national consumption and metabolism are missing, especially for Spain and Poland.

Based on the first data (annual consumption in EU, occurrence in scientific communications and national databases), a list of 120 molecules (and metabolites) has been defined. This list needs to be refined by taking into account other parameters.

Some pharmaceuticals (ibuprofen and paracetamol) can be good indicators of the efficiency of sewage treatment plants. Others (carbamazepine, iodinated contrast media) might be appropriate to elucidate the proportion of municipal treated wastewater. Finally, vancomycine and cytostaic drugs might be useful to identify the hospital share.

**B. Roig** proposed to BfG to be more directive and to request, to the different partners involved in the WP, more precisely the kind of data they have to research and to send back.

C. Miège says that she uses HSDB, an International data base for many molecules (not only pharmaceuticals).

Discussion with WP2 leader is necessary to define a common perspective for this data collection. A meeting in Koblenz is planned (27-28 August) to examine the work.

**S Zabczynski** presents the first results of WP2 dedicated to the limits of current treatments. There were huge papers and he tried to find the better data. The data acquisition takes into account technical parameters (treatment plant characteristics and removal mechanism) and climatic zones. Results are presented for each pharmaceutical group (antibiotics, anticonvulsants, antidepressants, antiinflammatories, b-blockers, contrast media, hormones, lipid regulators, tranquilizers).

Sludge retention time is the most important parameter influencing the PP removal. Hydraulic retention time also plays a main role; the average value of the parameter (above 12 h) seems to be enough to increase the transformation of the substances. The sequencing batch reactor shows to be the optimal reactor configuration in the PPs transformation. On an other hand, the varying removal rate with regard to regional specificities is linked rather with patterns of PPs consumption in each region than climatic zone.

Lacks of data in several categories have been pointed out. It concerns especially redox conditions.

**B.Roig** insists on the fact that one need to improve internal communication in order to exchange data. He will try to contact partners from former projects to have information about Czech Republic, Italy and Latvia.

Deliverables have to be sent for the middle of August. A template will be sent. The meeting in Koblenz will allow finalising the deliverables.