



Project no. 037017

## OSIRIS

### Optimized Strategies for Risk Assessment of Industrial Chemicals through Integration of Non-Test and Test Information

Integrated Project

Sub-Priority 1.1.6.3: Global Change and Ecosystems

Topic VII.1: Development of Advanced Methodologies for Risk Assessment  
VII.1.1: Intelligent testing strategies for chemicals

#### D6.1

#### Detailed plan for the postgraduate training programme

Due date of deliverable: 30 September 2007

Actual submission date: 30 September 2007

Start date of project: 1 April 2007

Duration: 4,5 years

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Revision 2

Project co-funded by the EU Commission within the Sixth Framework Programme (2002-2006)		
Dissemination Level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

## **Objective**

The purpose of this document, that entirely focuses on the postgraduate training, is to further define a detailed training programme in advanced methodologies for risk assessment.

This is needed since the OSIRIS's main objective, i.e. to develop intelligent testing strategies (ITSs) for REACH, needs a didactical focus on the practical application (challenges and critical aspects) of new ITS methodologies.

## **Introduction**

The planning of the activity will mainly consist in the organization of a training course, including the selection of lectures, the preparation of course materials, the definition of the curricula and the logistic organization of the course.

The PhD student training programme will start in month 7 with a web-based discussion forum and web-based tutorials.

The deadline for the PhD training course, which will be the major event during the first 18 months, is planned for the month 12.

The course will be evaluated with the aim to identify needs and options for a refinement of the further program.

## **Lectures**

A postgraduate training programme will address young scientists and include all aspects of chemicals risk assessment.

The course will be held by the consortium, all the partners involved in the programme (IRFMN, URV, LJMU, UB, RIVM, DTU, TNO, ETHZ, UA) will contribute with one lecture, considering the possibility to provide concrete examples and/or exercise to propose to the audience. A first draft of the lectures is given as follows. The final agenda will be uploaded on the web space.

### **IRFMN:**

Emilio Benfenati - QSAR predictions for legislative purposes: challenge and critical aspects.

### **DTU**

Stefan Trapp - Models for exposure prediction: BCF prototype.

### **TNO**

Dinant Kroese - Toxicological risk assessment of chemicals in Europe, present and future.

### **RIVM**

Theo Vermeire - Risk characterization: the start for decision making on chemical safety.

### **UB**

Segner Helmut - Aquatic hazard assessment, present and future.

### **LJMU**

Mark Cronin - Introduction to formation of mechanistically derived categories for read-across

### **UA**

Johan Robbens - Ecotoxicogenomics for Risk Assessment of chemical compounds: challenge and critical aspects.

### **URV**

Francesc Giralt - Exploratory Analysis of REACH space using Self-Organizing Maps.

## **Contents**

The main contents of the course should address all the aspect of Risk Assessment, with particular attention on the integration of different testing strategies, in particular:

- Types and quality of data/databases;
- environmental hazard;
- human health hazard;
- regulatory application of non-testing information;
- uncertainty and variability;
- evaluation of exposures;
- risk characterization.

## **Preparation of course materials**

A web-based forum will be available for course participants and will constitute the basis for the course itself.

At a first stage the web space will contain:

- information on the organization of the course;
- lecture titles and speakers;
- some simple exercises proposed as a preparation of the course;
- a discussion space on the course topics, which will permit a continuous exchange of ideas.

After the course and at least for two months the web forum will be maintained and will contain:

- few executed exercises / tutorials for the participants;
- all presentations of the course;
- the evaluation report.

The web based forum will be developed using the OSIRIS Intranet platform. This consists of a web space where the students and tutors can interact by posting discussion and share files. All information, exercises, tutorials and presentation will be placed in the pages of this web space.

A CD with the final output of the course will be sent to participants.

## **Audience**

A limited number of PhD and postgraduate students will be selected. Participants can apply both from the OSIRIS consortium and outside it. The announcement of the course will be presented on the OSIRIS web site.

## **Time and Venue**

Proposed date: 10th of March;

Venue: Mario Negri Institute, via la Masa 19, Milan, Italy.