



Drug metabolite production by
microbial transformation



October 2010
Advanced Course

Goal of the training

Our aim is to familiarize participants with biotransformation reactions applied to drug metabolism studies and to acquire the necessary knowledge to apprehend Phase I and Phase II metabolite syntheses using recombinant CYP450s and whole-cell micro-organism to mimic the metabolic reactions involved in animal metabolism of xenobiotics.

Participants

This one day training course is dedicated to Professionals (M. Sc, Ph. D or equivalent experimented people) from industries such as Pharmacy, cosmetology and agro chemistry, ... belonging to Metabolism, Chemical synthesis or Drug Discovery departments.

Date & Location

October 2010

Bertin Pharma

Parc d'Activités du Pas du Lac

10 bis avenue Ampère

F-78180 Montigny le Bretonneux

Tel: +33 139 306 260 – Fax: +33 139 306 299

Fee

Admission fee: 600 Euros

Bertin Pharma is recognised as a training organism by the French authorities under the No 11788021778.

Documentation

During this course, a technical documentation will be supplied to participants. This documentation will enclose case studies and copy of the presentation slides.

Speakers

This training workshop will be run by:

- ✓ Prof. Emeritus Robert Azerad, Ph.D., former head of Biocatalysis Group – Laboratory of Pharmacological and Toxicological Chemistry and Biochemistry – University Paris Descartes. Dr. Azerad is the author of more than 50 papers, reviews and lectures in Biotransformation.
- ✓ Mr. Christophe Junot, Pharm.D., Ph.D. Research Scientist at the Commissariat à l'Énergie Atomique (CEA). Team Leader (“metabolism and metabolome analysis”) at the Laboratory for Drug Metabolism Studies (DSV/iBiTec-S/SPI) since 2002.

Programme

8h30	Welcome
9h – 10h	Introduction to drug metabolism, metabolite identification and quantification I.1 Physiological importance drug metabolism I.2 Main metabolic transformations and enzymatic activities I.3 Detection and quantification of metabolites I.4 Metabolomic approach to metabolism
10h – 13h	Mimetic systems for human metabolites preparation II.1 Alternative systems for metabolism synthesis II.2 Fundamentals of microbial whole-cell biocatalysis
13h – 14h	Lunch
14h – 16h	Case studies: examples and applications of metabolite preparation III.1 Application of screening methods for the exploration of metabolic fate of a drug III.2 Analytical techniques for the production & characterization of a known metabolite III.3 Metabolic studies and prediction based on microbial metabolism III.4 Preparative applications for the production of model metabolites of individual CYP450s III.5 Glucoside and glucuronide preparations
16h – 17h30	Practical laboratory Visualisation of the different steps of metabolite preparation from screening to production and purification ; relative analytical techniques

Registration Form

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Prof. Dr. Mr. Mrs. Ms.

First Name

Last Name

Institution

Company

Address

.....

.....

Zip Code City

Country

Tel Fax

E-Mail

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