



**Biotransformation & Biocatalysis
in Fine Chemistry**



**October 2010
Advanced Course**

Goal of the training

Our aim is to permit participants to better apprehend or improve their knowledge in biotransformation reactions orientated to organic synthesis.

Together with Biocatalysis general features, an overview of main existing biocatalytic reactions will be explored followed by industrial case studies and practical examples of biocatalytic processes.

Participants

This one day training course is dedicated to Professionals (Managers, Engineers or equivalent experimented people) from fine chemistry industries belonging to R&D departments who wish to update their theoretical knowledge and practical insight in the field.

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.
- ✓ Dr. Claude Bensoussan, former head of biotransformation and biocatalysis department at Aventis Pharma and Rhodia. After being CSO of Enzymomics, Dr. Bensoussan has founded BioAdvice (www.bioadviceonline.com), a company of Contract Operational Manager specializing in the biotech industries.

Programme

8h30	Welcome
9h – 12h30	Theoretical lecture Part I - General features of synthetic biotransformation I.1 Industrial impact of Biocatalysis (“White Biotechnology”) I.2 Basic concepts of enzymic catalysis Part I – Main biocatalytic reactions II.1 Resolution of racemates & derived hydrolase-catalyzed reactions II.2 Oxidoreduction reactions II.3 Carbon-carbon bond formation
12h30 – 13h30	Lunch
13h30 – 15h	Industrial case studies We will explore several examples and applications of biocatalysts from screening to industrial processes, and relative analytical techniques.
15h15 – 16h15	Practical examples of biocatalytic processes Laboratory demonstration of simple chiral resolutions and syntheses.
16h15 – 16h30	Conclusion and outlook Prospective application: optimization of enzymes and new processing technologies.
16h30 – 17h30	Experience of an Industrial people

Registration Form

Biotransformation & Biocatalysis in Fine Chemistry

October 2010

Prof. Dr. Mr. Mrs. Ms.

First Name

Last Name

Institution

Company

Address

.....

.....

Zip Code City

Country

Tel Fax

E-Mail

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
Email: contact@spibio.com
Web: www.spibio.com