

## Faculty of Medicine

**FARM2213 New Directions in Drug Formulation**

[30h+15h exercises]

**Teacher(s):** Patrick Couvreur, Véronique Pr at, Rita Vanbever  
**Language:** French  
**Level:** Second cycle

**Aims**

The class aims at training students in the design of new pharmaceutical formulations by using their knowledge in pharmaceutical technology, pharmacokinetics and physico-chemistry.

**Main themes**

The new pharmaceutical formulations studied will be : sustained-release systems, transdermal systems, transmucosal routes of administration (nasal and pulmonary), drug carriers (liposomes, microspheres, micelles)

**Content and teaching methods**

The class consists principally of lectures in which theoretical concepts are illustrated by examples. Seminars consist of oral presentations of new pharmaceutical formulations by the students, based on scientific articles or patents.

**Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)**

Pre-requisite : Pharmaceutical technology, basic pharmacology (pharmacokinetics part)

Evaluation : written exam; personal work : oral presentation with discussion

Medium : copy of the slides, references of books and reviews

Class : 3 professors; personal work : 2 professors and 2 teaching assistants

**Programmes in which this activity is taught**

**FARM3DS/IN** Dipl me d' tudes sp cialis es en sciences pharmaceutiques  
(ing nierie pharmaceutique et technologie industrielle)