

**BICL2MC**

2013 - 2014

Advanced master in Clinical Biology

**At Bruxelles Woluwe - 300 credits - 5 years - Day schedule - In french**Dissertation/Graduation Project : **YES** - Internship : **YES**Activities in English: **NO** - Activities in other languages : **NO**Activities on other sites : **NO**Main study domain : **Sciences biomédicales et pharmaceutiques**Organized by: **Faculté de pharmacie et des sciences biomédicales (FASB)**Programme code: **bicl2mc** - European Qualifications Framework (EQF): 7**Table of contents**

Introduction .....	2
Admission .....	3
Information .....	4
- Learning outcomes .....	4
- Evaluation .....	4
Contacts .....	5
Detailed programme .....	6
- Programme structure .....	6
- Programme by subject .....	6

## BICL2MC - Introduction

## BICL2MC - Admission

***For the specific conditions of this program : refer to the French version***

Decree of March 31st 2004 defining higher education, favoring its integration in the European framework of higher education and refinancing universities.

The admission requirements have to be met at the time of enrolment at the university.

All information can be obtained from the [University's Enrolment Office \(Service des inscriptions – SIC\)](#).

The following students, after meeting the conditions set by the academic authorities, have access to the complementary Master's degree with the aim of obtaining the grade that these studies sanction:

- An academic Master's degree within the same field allowing 2nd-cycle studies, including at least 120 credits
- An academic Master's degree, following a decision by the academic authorities, under the complementary conditions that they set and as a result of a motivated decision by the jury
- An academic grade which is similar to those mentioned above, issued by the Flemish Community, the German Community or the Royal Military Academy, under the same conditions
- A foreign academic grade that has been acknowledged as being equivalent to those mentioned above, in application of this decree, a European-level directive or an international convention, under the same conditions
- Under the same conditions, one or several titles or academic grade issued by the Flemish Community, the German Community or the Royal Military Academy, sanctioning 2nd-cycle studies and valued at least 300 credits by the jury, or sanctioning 2nd-cycle studies and valued at least 240 credits completed of 60 credits, the all that must be valued by the jury according to the decree of March 31st, 2004 (art 54, 5 °)

---

In the event of the divergence between the different linguistic versions of the present conditions, the French version shall prevail

## BICL2MC - Information

### Learning outcomes

---

This specialization in laboratory medicine accessible to pharmacists (and chemists with some prerequisite) (PHACS) consists of a five year curriculum, and provides the required basis to assume a medical responsibility in a private or hospital medical laboratory. A special focus is dedicated to the teaching of medical disciplines related to laboratory medicine (clinical haematology, infectious diseases, endocrinology, etc.), and to applied research in the field of medical laboratory. This academic curriculum proposed by the university should be concomitant to a validated training plan submitted to the Health governmental Authorities for a period of 60 months, according to the Belgian laws. At the end of the 5 years, the candidate specialist in laboratory medicine will get the diploma from the university and the certification from the Belgian Health Authorities allowing him to practice his expertise in the field of clinical chemistry, haematology or microbiology.

### Evaluation

---

L'étudiant sera évalué à l'issue de chacune des cinq années de spécialisation par les enseignants impliqués, et avant admission en année ultérieure. Le travail personnalisé sera évalué en fin de spécialisation, cette dernière se clôturant par un examen de connaissances générales organisé par la commission d'enseignement de la biologie clinique de l'école de pharmacie.

## BICL2MC - Contacts

### Curriculum Managment

Entite de la structure FASB

Acronyme	<b>FASB</b>
Dénomination	Faculté de pharmacie et des sciences biomédicales
Adresse	Avenue Mounier, 73 bte B1.73.02 1200 Woluwe-Saint-Lambert
Secteur	Secteur des sciences de la santé ( <a href="#">SSS</a> )
Faculté	Faculté de pharmacie et des sciences biomédicales ( <a href="#">FASB</a> )
Mandats	<a href="#">Emmanuel Hermans</a> Doyen
Commissions de programme	Ecole de pharmacie ( <a href="#">FARM</a> ) Ecole des sciences biomédicales ( <a href="#">SBIM</a> )

Responsable du programme : **Pierre Wallemacq**

### Jury

Président du jury d'examens : **Pierre Wallemacq**

Secrétaire du jury d'examens : **Bernard Chatelain**

### Usefull Contacts

## BICL2MC - Detailed programme

### Programme structure

A core training of 2 years is common and mandatory for all trainees. It involves basic theories and practice in each of the three fields of laboratory medicine: clinical chemistry (including endocrinology, toxicology, metabolic diseases, tumor markers, etc.), microbiology (bacteriology, mycology, virology, parasitology) and haematology (cytology, haemostasis, immuno-haematology, etc.). During this 2-year basis, the trainees will have to follow some lectures proposed to medical doctors (infectious diseases, clinical haematology, etc.). Different tests and evaluations are planned during these two years.

The candidates must participate to all scientific meetings, staff or lectures recommended by the academic committee. They must participate to duties (night or week end) organized by the laboratories.

During the 3 last years, they have to perform some further specialization training in certified laboratories under the control of a certified supervisor, according to the law, and after validation both by the Health Authorities and by the Academic Committee. They are requested to participate actively to some research and development programmes resulting to a publication as first author.

They can perform their 3 years under different schemes according to their preferences:

- o Either in one medical field (mono-specialty) during the 3-year period: haematology, microbiology or clinical chemistry
- o Or in each of the three fields, dedicating 1 year per medical field
- o Or in two of the 3 fields, performing a 2-year period in one discipline and a 1-year period in another one (e.g. 2 years in haematology and 1 year in clinical chemistry, etc.)

Core study

[> Core courses](#) [ en-prog-2013-bicl2mc-wbicl200t.html ]

### Programme by subject

#### Core courses

Le Master complémentaire en biologie clinique est un programme en 5 ans.

Nous rencontrons actuellement un problème pour l'affichage ci-dessous de la cinquième année (cinquième colonne).

● Mandatory

△ Courses not taught during 2013-2014

⊕ Periodic courses taught during 2013-2014

⊗ Optional

⊖ Periodic courses not taught during 2013-2014

⊞ Two years course

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Year

1 2 3 4 5

#### o Biochimie médicale (8 credits)

Code	Titre	Coordonnateur	Volume	Credits	1	2	3	4	5
● WBICL2100	Further Development in Clinical Chemistry	Vincent Haufroid, Teresinha Leal, Diane Maisin, Marianne Philippe, Marie-Françoise Vincent, Pierre Wallemacq (coord.)	60h	5 Credits				x	
● WSBIM2230	Biochimie des erreurs innées du métabolisme	Marie-Cécile Nassogne, Marie-Françoise Vincent (coord.)	30h	3 Credits	1q	x			

#### o Immunoanalyse (3 credits)

Code	Titre	Coordonnateur	Volume	Credits	1	2	3	4	5
● WBICL2107	Principe et méthodologie des dosages immunologiques	Diane Maisin, Marianne Philippe (coord.)	15h+40h	3 Credits	2q	x			

Year

1 2 3 4 5

**o Démarche clinique et thérapeutique (3 credits)**

○ WMEDI2120P	Démarche clinique et thérapeutique (partim)	N.	49.5h	3 Credits		x					
--------------	---	----	-------	-----------	--	---	--	--	--	--	--

**o Informatique (3 credits)**

○ WBICL2106	Informatique appliquée à la biologie clinique	Benoît Debande (coord.), Catherine Fillee, Marianne Philippe	15h+15h	3 Credits		x					
-------------	---	--	---------	-----------	--	---	--	--	--	--	--

**o Histologie (4 credits)**

○ WISTO1201P	Histologie normale des systèmes (1re partie, partim)	N.	10h+20h	2 Credits		x					
○ WISTO1301P	Histologie normale des systèmes (2e partie) (partim)	N.	15h+25h	2 Credits		x					

**o Endocrinologie (3 credits)**

○ WBICL2105	Apports de la biologie au diagnostic des principales maladies endocriniennes	Damien Gruson, Dominique Maïter (coord.)	22.5h	3 Credits		x					
-------------	--	---	-------	-----------	--	---	--	--	--	--	--

**o Chimie toxicologique (3 credits)**

○ WFARM2502	Further development in analytical toxicology and phytopharmacy	Pierre Wallemacq	20h+10h	3 Credits	2q	x					
-------------	--	------------------	---------	-----------	----	---	--	--	--	--	--

**o Toxicologie humaine (5 credits)**

○ WSBIM2246	Toxicologie humaine	Philippe Hantson	52.5h	5 Credits		x					
-------------	---------------------	------------------	-------	-----------	--	---	--	--	--	--	--

**o Maladies infectieuses (4 credits)**

○ WMEDI2137	Secteur maladies infectieuses y compris l'enseignement clinique de l'HIV et éléments de dermatologie	Liliane Marot, Etienne Sokal, Dominique Tennstedt, Dimitri Van der Linden, Bernard Vandercam (coord.)	48.5h	4 Credits	1q	x					
-------------	--	---	-------	-----------	----	---	--	--	--	--	--

**o Hématologie (6 credits)**

○ WMEDI2226	Secteur hématologie-cancérologie (y compris l'anatomie pathologique)	Martine Berlière, Bénédicte Brichard, Philippe Collard, Marianne Desmedt, Chantal Doyen, Stéphane Eeckhoudt, Christine Galant, Cédric Hermans, Laurent Knoops (coord.), Dominique Latinne, Jean-Pascal Machiels, Pierre Scalliet, Bertrand Tombal, Eric Van Den Neste, Marie-Christiane Vekemans, Christiane Vermeylen	72h	6 Credits		x					
-------------	--	---	-----	-----------	--	---	--	--	--	--	--

Year

1 2 3 4 5

**o Immunologie (4 credits)**

○ WBICL2101	Questions spéciales d'immunologie, d'immunohématologie et de transfusion	Véronique Deneys, Dominique Latinne (coord.), Pascale Saussoy	45h	4 Credits		x					
-------------	--	---	-----	-----------	--	---	--	--	--	--	--

**o Microbiologie, virologie et sérologie (16 credits)**

○ WBICL2102	Complements in microbiology	Michel Delmée, Gerald Glupczynski (coord.), Anne Simon, Jean-Paul Tomasi, Jean-Luc Vaerman	60h+90h	8 Credits			x				
○ WBICL2103	Complements in Virology	Monique Bodéus, Patrick Goubau (coord.), Benoît Kabamba-Mukadi, Jean Ruelle	45h+45h	6 Credits			x				
○ WBICL2104	New aspects on the use of autoimmune serology	Jean-Paul Tomasi	15h	2 Credits			x				

**o Anatomie-pathologique (2 credits)**

○ WMED1302P	Pathologie et anatomo-pathologie générale en relation avec la sémiologie (partim pratique)	N.	0h+20h	2 Credits	2q		x				
-------------	--	----	--------	-----------	----	--	---	--	--	--	--

**o Séminaires de biochimie médicale et prélèvements sanguins (5 credits)**

○ WBICL2108	Seminars of clinical chemistry and blood sampling	Dorina BECHEANU, Vincent Haufroid, Anne Simon, Marie-Françoise Vincent, Pierre Wallemacq (coord.)	60h+45h	5 Credits			x				
-------------	---	---	---------	-----------	--	--	---	--	--	--	--

**o Travaux pratiques en biologie clinique (20 credits)**

○ WBICL2901	Travaux pratiques en biochimie médicale	N.		5 Credits			x				
○ WBICL2902	Travaux pratiques en virologie	N.		5 Credits			x				
○ WBICL2903	Travaux pratiques en microbiologie	N.		5 Credits			x				
○ WBICL2904	Travaux pratiques en hématologie	N.		5 Credits			x				

**o Séminaires d'accompagnement du stage de 3ème année (3 credits)**

○ WBICL2905	Séminaires d'accompagnement du stage de 3ème année	N.		3 Credits					x		
-------------	--	----	--	-----------	--	--	--	--	---	--	--

**o Séminaires d'accompagnement du stage de 4ème année (3 credits)**

○ WBICL2906	Séminaires d'accompagnement du stage de 4ème année	N.		3 Credits						x	
-------------	--	----	--	-----------	--	--	--	--	--	---	--

**o Séminaires d'accompagnement du stage de 5ème année (3 credits)**

○ WBICL2907	Séminaires d'accompagnement du stage de 5ème année	N.		3 Credits							x
-------------	--	----	--	-----------	--	--	--	--	--	--	---

**o Mémoire (20 credits)**

○ WBICL2900	Mémoire	N.		20 Credits					x	x	x
-------------	---------	----	--	------------	--	--	--	--	---	---	---



Year

1 2 3 4 5

### o Cours au choix (2 crédits)

Cours au choix dans le domaine à choisir dans le portefeuille de cours UCL pour minimum 2 crédits. Le cours est également recommandé.

WESP2150	Management	John Cultiaux, Etienne De Clercq, Guy Durant (coord.), Patrice Gobert, Claudine Henaux	60h	6 Credits	1+2q	x	x	x	x	x
----------	------------	--	-----	-----------	------	---	---	---	---	---

