

## Block view of the study programme

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### Bloc 1 du programme de l'année

#### Compulsory courses

MEDE0430-1	<i>Biomedical research history</i> - Vincent GEENEN	Q1	15	-	-	2
LANG0130-1	<i>Scientific English Practice (note-taking)</i> - Christine FILOT, Vincent SEUTIN	Q1	5	25	-	3
LABO0432-1	<i>Techniques for cells and tissue cultures</i> - MarieClaire GILLET	Q1	5	20	-	2
COMU0430-2	<i>Communication Techniques</i> - Robert LEJEUNE	Q1	15	20	-	2
SBIM0486-2	<i>Experimental methodologies in living animals</i> - Pierre DRION	Q1	25	10	-	4
BIOL0431-2	<i>Complement of normal and pathological cellular regulation</i> - Yvette HABRAKEN, Laurent NGUYEN, Agnès NOËL	Q1	20	-	-	3
LABO0433-2	<i>Modern Morphological Methods in Biomedical Research</i> - Roland GREIMERS	Q1	30	-	-	3
SANG0430-2	<i>Hematology and haemostasis</i> - André GOTHOT	Q1	20	-	-	2
INFO0430-2	<i>Notions of bioinformatics</i> - Olivier PEULEN	Q1	10	10	-	2
GENE0431-1	<i>Complement of genomics</i> - Michel GEORGES	Q1	20	10	-	3
RADL0440-1	<i>Radiobiology</i> - Chantal HUMBLET, Philippe MARTINIVE	Q2	30	10	-	4
CHIM0440-2	<i>Clinical chemistry</i> - Etienne CAVALIER	Q2	20	10	-	3
TOXI0432-1	<i>Complement of toxicology</i> - Raphaël DENOZ	Q2	10	10	-	2
CHIM0433-1	<i>Proteomics</i> - Marianne FILLET, Pierre LEPRINCE, Gabriel MAZZUCHELLI	Q2	20	10	-	3
NEUR0432-1	<i>Complement of neurobiology</i> - Pierre LEPRINCE	Q2	20	10	-	3
METO0822-1	<i>Introduction to translational research</i> - Stéphane BERGHMANS, François JOURET	Q2	30	-	-	2

#### Specific Module

MSTG0430-3	<i>Placement in laboratory</i> - COLLÉGIALITÉ - [140h Internship]	Q2	5	-	[+]	13
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#### Optional courses

Choose one course from the following :

BIOC0210-5	<i>Functional properties of biological macromolecules</i> - André MATAGNE - [10h Mon. WS]	Q1	20	-	[+]	2
BIOC0720-2	<i>Structure of biological macromolecules</i> - Paulette CHARLIER - [5h Mon. WS]	Q1	15	-	[+]	2
BIOC0709-4	<i>Bioenergetics</i> - Pierre CARDOL, Fabrice FRANCK	Q1	20	-	-	2
BIOC0725-1	<i>Stem Cell Biology</i> - Renaud VANDENBOSCH	Q1	20	-	-	2

Choose one course from the following :

BIOC0722-1	<i>Application of spectroscopic techniques to the study of folding and stability of proteins</i> - André MATAGNE - [10h Mon. WS]	Q2	20	-	[+]	2
CHIM0687-1	<i>Introduction to protein NMR</i> - Christian DAMBLON - [10h Mon. WS]	Q2	10	-	[+]	2
CHIM0688-1	<i>Mass spectrometry</i> - Edwin DE PAUW - [10h Mon. WS]	Q2	15	-	[+]	2
BIOL2029-1	<i>Introduction to clinical biology</i> - Etienne CAVALIER, Corinne CHARLIER, André GOTHOT, Pierrette MELIN	Q2	20	-	-	2

### Bloc 2 du programme de l'année

#### Compulsory courses

STAT1750-1	<i>Multivariate statistical analysis</i> - Nadia DARDENNE, AnneFrançoise DONNEAU	Q1	10	10	-	1
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MMEM0440-1	<i>Final thesis - COLLÉGIALITÉ</i>	Q2	-	-	-	<b>26</b>
	<b>Prerequisite :</b> MSTG0430-3 - Stage en laboratoire					

### Optional courses

Choose courses totalling 3 ECTS from the following :

SBIM0440-1	<i>Fight against disease and international health politics -</i> Joseph MANZAMBI KUWEKITA - [15h SEM]	Q1	25	-	[+]	<b>4</b>
DERM0430-2	<i>Elements of Dermatopathology -</i> Jorge ARRESE ESTRADA	Q1	10	-	-	<b>2</b>
PATH0430-2	<i>Elements of Infectious Pathology in Developing Countries -</i> MariePierre HAYETTE, Pierrette MELIN	Q1	20	-	-	<b>3</b>
METO0442-2	<i>Methodology of research in developing countries -</i> Joseph MANZAMBI KUWEKITA	Q1	10	15	-	<b>3</b>
SOCI1240-2	<i>Sociology of Interventions in Developing Countries -</i> Marc PONCELET	Q1	30	-	-	<b>3</b>
SBIM0442-1	<i>Medication in international health -</i> Roland MARINI DJANG'EING'A	Q1	10	-	-	<b>2</b>
SBIM0443-1	<i>Organisation of health care and geo-climatological parameters -</i> Pierre OZER	Q1	15	-	-	<b>2</b>
SBIM0430-1	<i>Methods in vivo and in vitro concerning gastrointestinal tract -</i> Olivier PEULEN	Q1	15	10	-	<b>4</b>
SBIM0451-2	<i>The application of molecular biology techniques to clinical biology -</i> MariePaule MERVILLE	Q1	15	25	-	<b>4</b>
EPID0430-1	<i>Methodology of Clinical Trials -</i> Régis RADERMECKER	Q1	10	-	-	<b>3</b>
SBIM0472-1	<i>In vivo methodology in neuroscience -</i> Rachelle FRANZEN <b>Prerequisite :</b> LANG0130-1 - Pratique de l'anglais scientifique II SBIM0486-3 - Méthodologies expérimentales des animaux vivants	Q1	20	-	-	<b>4</b>
SBIM0492-1	<i>Preclinical cancer models -</i> Denis MOTTET - [10h SEM]	Q1	5	-	[+]	<b>3</b>
SBIM0495-1	<i>Molecular and cellular basis of disease (english language) -</i> COLLÉGIALITÉ - [10h Mon. WS, 40h Pers. Res.]	Q1	20	-	[+]	<b>7</b>
QUAL0433-1	<i>Organisation and quality assurance in a trial laboratory -</i> Philippe HUBERT, Joëlle WIDART	Q1	5	10	-	<b>3</b>

Choose one focus from the following :

### Research Focus

Choose one option from the following :

#### A. Digestive system and nutrition - Coordinator: Nicolas Paquot

*Notice :* all courses in this option could be given in English.

SBIM0430-1	<i>Methods in vivo and in vitro concerning gastrointestinal tract -</i> Olivier PEULEN	Q1	15	10	-	<b>4</b>
SBIM0431-1	<i>Diseases of the digestive tract and food allergies/intolerances.</i> <i>Pediatric and adult aspects -</i> Jean DELWAIDE, Masendu KALENGA, Edouard LOUIS	Q1	30	-	-	<b>4</b>
NUTR0711-1	<i>Nutrition and dietetic elements -</i> Nicolas PAQUOT	Q1	10	-	-	<b>4</b>
NUTR0712-1	<i>Nutrition and pathologies -</i> Nicolas PAQUOT	Q1	10	-	-	<b>4</b>
NUTR1001-1	<i>Food - Health -</i> Antoine CLINQUART, Véronique DELCENSERIE, MarieLouise SCIPPO <b>Corequisite :</b> NUTR0711-1 - Nutrition et éléments de diététique	Q1	15	-	-	<b>3</b>

	NUTR0712-1 - Nutrition et pathologies				
	SBIM0436-1 - Technologie des denrées alimentaires, législation et étiquetage				
QUAL0436-1	<i>Quality assurance linked to foodstuffs</i>	Q1			2
	- <i>partim I : aspects chimiques</i> - MarieLouise SCIPPO		7,5	-	-
	- <i>partim II : aspects biologiques</i> - Georges DAUBE		7,5	-	-
SBIM0434-1	<i>Phytochemical introduction to the analysis of foodstuffs</i> - Michel FREDERICH, Monique TITS	Q1	10	-	2
SBIM0436-1	<i>Dietary technology, legislation and labelling</i> - Antoine CLINQUART	Q1	15	-	2
	<b>Corequisite :</b> NUTR0711-1 - Nutrition et éléments de diététique NUTR1001-1 - Aliments-Santé				
SBIM0437-4	<i>Biosafety</i> - Willy ZORZI	Q1	10	5	1
SBIM0439-1	<i>Bibliographic research</i> - Nathalie JACOBS, Nicolas PAQUOT	Q1	-	-	4
	<b>Prerequisite :</b> LANG0130-1 - Pratique de l'anglais scientifique II				

**B. Analyses biologiques - Coordinateur : Pierrette Melin**

*Notice :* Courses QUAL0430, MICR0431, SBIM0450, SBIM0452, SBIM0453, SBIM0454, SBIM0437 could be given in English.

QUAL0430-2	<i>Quality assurance systems in clinical biology</i> - Etienne CAVALIER	Q1	10	5	-	3
	<b>Prerequisite :</b> CHIM0440-2 - Chimie clinique					
MICR0431-2	<i>Clinical microbiology</i> - Pierrette MELIN	Q1	15	10	-	3
IMMU0430-1	<i>Immunoassay</i> - Benaïssa ELMOUALJI	Q1	5	10	-	3
SBIM0450-1	<i>Complement of clinical chemistry</i> - Etienne CAVALIER	Q1	15	10	-	4
	<b>Prerequisite :</b> CHIM0440-2 - Chimie clinique					
SBIM0451-2	<i>The application of molecular biology techniques to clinical biology</i> - MariePaule MERVILLE	Q1	15	25	-	4
SBIM0452-1	<i>Cellular and molecular biology of acute and chronic inflammation</i> - Alain CHARLOT	Q1	15	-	-	3
SBIM0453-1	<i>Complement of haematology</i> - André GOTHOT	Q1	15	-	-	3
	<b>Prerequisite :</b> SANG0430-2 - Hématologie et hémostase					
SBIM0454-1	<i>Monitoring renal pathologies</i> - Etienne CAVALIER	Q1	10	-	-	2
	<b>Prerequisite :</b> CHIM0440-2 - Chimie clinique					
SBIM0437-4	<i>Biosafety</i> - Willy ZORZI	Q1	10	5	-	1
SBIM0439-3	<i>Bibliographic research</i> - Etienne CAVALIER, Nathalie JACOBS	Q1	-	-	-	4
	<b>Prerequisite :</b> LANG0130-1 - Pratique de l'anglais scientifique II					

**C. Pharmacology and toxicology - Coordinator : Julien Hanson**

*Notice :* courses PHAC0430, EPID0441, METO0441, SBIM0461, SBIM0437 could be given in English.

PHAC0430-2	<i>Special pharmacology</i> - Julien HANSON	Q1	30	-	-	4
	<b>Corequisite :</b> SBIM0439-4 - Recherche bibliographique SBIM0460-1 - Introduction à la pharmacie galénique					
EPID0430-1	<i>Methodology of Clinical Trials</i> - Régis RADERMECKER	Q1	10	-	-	3
EPID0441-1	<i>Pharmaco-epidemiology and Pharmaco-economics</i> - Olivier ETHGEN	Q1	10	-	-	2

TOXI0441-1	<i>Experimental Toxicology</i> - Corinne CHARLIER <b>Prerequisite :</b> TOXI0432-1 - Compléments de toxicologie	Q1	10	-	-	2
METO0441-1	<i>Methodology of Pharmaceutical Research</i> - Pierre FRANCOTTE	Q1	15	10	-	3
SBIM0460-1	<i>Introduction to the Pharmaceutical Technology</i> - Géraldine PIEL	Q1	15	10	-	3
BIOL2025-1	<i>Medical and pharmaceutical applications in molecular biology</i> - Alain CHARLOT	Q1	10	-	-	2
SBIM0461-1	<i>Radiomarking and the medical and experimental use of tracers</i> - Joël AERTS	Q1	10	-	-	2
SBIM0462-1	<i>Pharmacology and addiction clinic</i> - Emmanuel PINTO	Q1	10	-	-	2
SBIM0463-1	<i>Biocompatibility of implants and biomaterials</i> - Christian GRANDFILS	Q1	10	-	-	2
SBIM0437-4	<i>Biosafety</i> - Willy ZORZI	Q1	10	5	-	1
SBIM0439-4	<i>Bibliographic research</i> - Julien HANSON, Nathalie JACOBS <b>Prerequisite :</b> LANG0130-1 - Pratique de l'anglais scientifique II	Q1	-	-	-	4

#### D. Neurosciences - Coordinator : Rachelle Franzen

*Notice* : courses SBIM0471, SBIM0472, SBIM0474, SBIM0477 could be given in English.

SBIM0470-1	<i>Principles of neuroendocrinology</i> - Charlotte CORNIL, AnneSimone PARENT	Q1	20	-	-	4
SBIM0472-1	<i>In vivo methodology in neuroscience</i> - Rachelle FRANZEN <b>Prerequisite :</b> LANG0130-1 - Pratique de l'anglais scientifique II SBIM0486-2 - Méthodologies expérimentales des animaux vivants	Q1	20	-	-	4
SBIM0473-1	<i>Functional neuro-anatomy in vertebrates</i> - Rachelle FRANZEN <b>Prerequisite :</b> NEUR0432-1 - Compléments de neurobiologie	Q1	30	-	-	4
SBIM0474-1	<i>Biophysics and molecular biology of ion channels</i> - Lucien BETTENDORFF, Dominique ENGEL, Vincent SEUTIN	Q1	20	-	-	3
SBIM0475-1	<i>Pathologies of the nervous system</i> - Eric SALMON <b>Prerequisite :</b> LANG0130-1 - Pratique de l'anglais scientifique II NEUR0432-1 - Compléments de neurobiologie	Q1	20	10	-	4
PSYC0908-1	<i>Psychobiological questions</i> - Ezio TIRELLI	Q1	20	-	-	3
SBIM0477-1	<i>Functional imagery in humans</i> - Gaëtan GARRAUX	Q1	20	-	-	3
SBIM0437-4	<i>Biosafety</i> - Willy ZORZI	Q1	10	5	-	1
SBIM0439-5	<i>Bibliographic research</i> - Rachelle FRANZEN, Nathalie JACOBS <b>Prerequisite :</b> LANG0130-1 - Pratique de l'anglais scientifique II	Q1	-	-	-	4

#### F. Oncology and immunology - Coordinator : Agnès Noël

*Notice* : Courses SBIM0480, SBIM0483, SBIM0484, SBIM0437 could be given in English.

SBIM0480-2	<i>Anatomical pathology of tumours</i> - Jorge ARRESE ESTRADA	Q1	15	15	-	4
SBIM0481-2	<i>Molecular and cellular oncology</i> - Yvette HABRAKEN, Agnès NOËL - [35h SEM] <b>Prerequisite :</b> BIOL0431-2 - Compléments de régulation cellulaire normale et pathologique	Q1	15	-	[+]	6
SBIM0482-2	<i>Vaccination</i> - Laurence DELACROIX, N... - [15h SEM]	Q1	10	5	[+]	5
SBIM0483-1	<i>Cytokine chemokine signalling</i> - Vincent GEENEN - [5h SEM]	Q1	10	-	[+]	3

SBIM0484-1	<i>Immunology of tumours</i> - Nathalie JACOBS - [10h SEM]	Q1	10	-	[+]	4
SBIM0492-1	<i>Preclinical cancer models</i> - Denis MOTTET - [10h SEM]	Q1	5	-	[+]	3
SBIM0437-4	<i>Biosafety</i> - Willy ZORZI	Q1	10	5	-	1
SBIM0439-6	<i>Bibliographic research</i> - Nathalie JACOBS, Agnès NOËL <b>Prerequisite :</b> LANG0130-1 - Pratique de l'anglais scientifique II	Q1	-	-	-	4

**F. Multidisciplinary English - Coordinator : Vincent Seutin**

*Notice* : all courses will be given in English.

SBIM0494-1	<i>General introduction to cell biology</i> (english language) - COLLÉGIALITÉ, Vincent SEUTIN - [15h Mon. WS, 15h Pers. Res.] <b>Prerequisite :</b> BIOL0431-2 - Compléments de régulation cellulaire normale et pathologique GENE0431-1 - Compléments de génomique <b>Corequisite :</b> SBIM0495-1 - Molecular and cellular basis of disease	Q1	16	-	[+]	4
SBIM0495-1	<i>Molecular and cellular basis of disease</i> (english language) - COLLÉGIALITÉ - [10h Mon. WS, 40h Pers. Res.]	Q1	20	-	[+]	7
SBIM0496-1	<i>Advanced techniques for diagnosis and prognosis</i> (english language) - COLLÉGIALITÉ - [10h Mon. WS, 40h Pers. Res.] <b>Prerequisite :</b> METO0822-1 - Introduction à la recherche translationnelle	Q1	10	-	[+]	5
SBIM0497-1	<i>New therapeutic approaches to disease</i> (english language) - COLLÉGIALITÉ - [10h Mon. WS, 40h Pers. Res.]	Q1	10	-	[+]	5
SBIM0498-1	<i>Critical evaluation of experimental data</i> (english language) - COLLÉGIALITÉ - [10h Mon. WS, 10h Pers. Res.]	Q1	10	20	[+]	4
SBIM0499-1	<i>Thematic seminars</i> (english language) - COLLÉGIALITÉ, Vincent SEUTIN - [20h SEM]	Q1	-	-	[+]	5

**Professional Focus in Quality Assurance**

*Notice* : Some courses listed below may be given in English.

Coordinator : Philippe HUBERT

QUAL0431-1	<i>Internal and external audits</i> - Ahmed IGOUT	Q1	10	20	-	3
QUAL0432-1	<i>Quality Assurance for IT systems</i> - Marc DENHAM	Q1	5	-	-	1
QUAL0433-1	<i>Organisation and quality assurance in a trial laboratory</i> - Philippe HUBERT, Joëlle WIDART	Q1	5	10	-	3
QUAL0434-1	<i>Validation of quantitative analysis methods</i> - Philippe HUBERT, Roland MARINI DJANG'EING'A	Q1	10	10	-	2
QUAL0435-1	<i>Microbiological quality assurance of the environment</i> - Pierrette MELIN	Q1	10	15	-	3
QUAL0436-1	<i>Quality assurance linked to foodstuffs</i> - <i>partim I : aspects chimiques</i> - MarieLouise SCIPPO - <i>partim II : aspects biologiques</i> - Georges DAUBE	Q1				2
				7,5	-	
				7,5	-	
ESHY0057-1	<i>General Safety Organization</i> - Christine GRIGNET, Anne GROGNA	Q1	14	-	-	2
QUAL0437-2	<i>Statistical data analysis using informatic tools</i> - Nadia DARDENNE, AnneFrançoise DONNEAU	Q1	10	20	-	2
GEST0188-1	<i>Determination and Recognition of Quality and Conformity</i> - Pierre DEWALLEF	Q1	30	-	-	3
QUAL0723-1	<i>Assessment and quality assurance methods in healthcare institutions</i> - Pierre GILLET	Q1	20	-	-	2
QUAL0430-1	<i>Quality assurance systems in clinical biology</i> - Etienne CAVALIER	Q1	10	-	-	2

QUAL0438-1	<i>Good Manufacturing Practices (GMP)</i> (english language) - Lucas FOTSING, Philippe HUBERT	Q1	10	10	-	2
QUAL0439-1	<i>Chemical quality assurance of the environment</i> - Gauthier EPPE	Q1	15	15	-	3

**Professional focus in cosmetology**

*Notice* : courses COSM0434, COSM0439, COSM0442 could be given in English.

Coordinator : Claudine FRANCHIMONT

COSM0001-1	<i>Cutaneous biometrological methods</i> - Pascale QUATRESOOZ <b>Corequisite :</b> COSM0437-2 - Physiologie, immunologie et microanatomie de la peau, des phanères, des muqueuses et des dents	Q1	20	20	-	5
COSM0431-1	<i>Environment, life cycle of products and biodegradation of waste and packaging</i> - Gauthier EPPE	Q1	15	-	-	2
COSM0432-1	<i>Functions and physico-chemical properties of raw materials in cosmetology</i> - Géraldine PIEL	Q1	15	-	-	2
COSM0434-1	<i>Cosmetology : Belgian, European and extra-European regulation, copyright and patents</i> - Joëlle MEUNIER	Q1	10	5	-	2
EPID0430-1	<i>Methodology of Clinical Trials</i> - Régis RADERMECKER	Q1	10	-	-	3
COSM0002-1	<i>Undesirable effects of various types of cosmetics</i> - Claudine FRANCHIMONT <b>Corequisite :</b> COSM0434-1 - Le dossier cosmétologique : réglementation belge, européenne et hors UE, propriété industrielle et brevets COSM0437-2 - Physiologie, immunologie et microanatomie de la peau, des phanères, des muqueuses et des dents	Q1	10	-	-	3
COSM0437-2	<i>Physiology, immunology and microanatomy of skin, dander, mucous membranes and teeth</i> - Pascale QUATRESOOZ	Q1	20	-	-	3
COSM0438-2	<i>Principles of formulation applied to cosmetology</i> - Géraldine PIEL <b>Corequisite :</b> COSM0432-1 - Fonctions et propriétés physico-chimiques des matières premières en cosmétologie	Q1	15	20	-	4
COSM0439-1	<i>Issues in microbiology in cosmetology</i> - Pierrette MELIN	Q1	15	-	-	2
COSM0441-1	<i>Systemic toxic risks linked to cosmetics</i> - Corinne CHARLIER	Q1	15	-	-	2
COSM0442-1	<i>Xenobiotics and living cells</i> - Christian GRANDFILS	Q1	15	-	-	2

**Bloc d'aménagement du programme de l'année**

**Additional ECTS Master in biology (120 ECTS)**

**Compulsory courses**

**Module: The Normal Human Body**

IMMU0320-2	<i>General immunology</i> - Catherine SADZOT	Q1	15	-	-	2
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**Specific module 2**

TOXI0004-1	<i>Principles of toxicology</i> - Corinne CHARLIER	Q1	20	-	-	3
NEUR0430-1	<i>Principles of neurobiology</i> - Pierre LEPRINCE	Q1	20	-	-	3
BIOC0006-1	<i>Principles of normal and pathological cellular regulation</i> - Agnès NOËL	Q1	20	-	-	2

**Module Learning**

LANG0074-1	<i>Advanced English for biomedical sciences</i> (english language) -	Q1	30	-	-	3
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UBOIS, Christine FILOT

**Module "Pathological" human**

IMMU0522-1	<i>Immunopathology</i> - Michel MOUTSCHEN - [7h SI]	Q1	10	-	[+]	2
PHAC0130-7	<i>General pharmacology</i> - Vincent SEUTIN - [7h SI]	Q1	20	-	[+]	3

**Module: The Normal Human Body**

GENE0420-2	<i>Medical genetics</i> - Vincent BOURS	Q2	15	-	-	2
HISL0220-3	<i>Human histology</i> - Valérie DEFAWEUX, Chantal HUMBLET	Q2	20	10	-	4
BIOL0028-1	<i>Molecular biology</i> - Agnès NOËL	Q2	55	40	-	9
BIOC0708-1	<i>Biochemistry and normal and pathological human physiology</i> - cardiovascular system - Philippe KOLH - respiratory system - Didier CATALDO	Q2				4
			10	-	-	
			10	-	-	

**Specific module 1**

BIOC0322-2	<i>Proteins biochemistry</i> - Sabine WISLET	Q2	20	15	-	4
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**Specific module 2**

CHIM0217-3	<i>Principles of clinical chemistry</i> - Etienne CAVALIER	Q2	20	-	-	2
LANG0129-1	<i>Application of scientific English I</i> - Christine FILOT, Agnès NOËL, Vincent SEUTIN	Q2	5	25	-	3

**Module "Pathological" human**

BIOC9234-1	<i>Biochemistry and normal and pathological human physiology - digestive system</i> - Didier CATALDO	Q2	15	-	-	2
ANAP0230-5	<i>General pathological anatomy</i> - Philippe DELVENNE - [7h SI]	Q2	20	10	[+]	4
BIOC9235-1	<i>Human Normal and Pathologic Biochemistry and Physiology - Urinary system</i> - Didier CATALDO	Q2	10	-	-	2
BIOC9236-1	<i>Biochemistry and normal and pathological human physiology - Endocrinian system and metabolism</i> - Philippe KOLH	Q2	15	-	-	2
MICR0330-4	<i>Medical microbiology</i> - MariePierre HAYETTE - [7h SI]	Q2	25	10	[+]	3

**Programme transitoire à destination des étudiants ayant réussi leur master 1 de "Master en sciences biomédicales, à finalité spécialisée en cosmétologie" en 2014-2015**

**Bloc 1 du programme de l'année**

**Optional courses**

**Focus courses**

**Professional focus in cosmetology**

Note : Courses COSM0434, COSM0439, COSM0442 could be given in English.

Coordinator : Claudine FRANCHIMONT

COSM0001-1	<i>Cutaneous biometrological methods</i> - Pascale QUATRESOOZ	Q1	20	20	-	5
COSM0431-1	<i>Environment, life cycle of products and biodegradation of waste and packaging</i> - Gauthier EPPE	Q1	15	-	-	2
COSM0432-1	<i>Functions and physico-chemical properties of raw materials in cosmetology</i> - Géraldine PIEL	Q1	15	-	-	2

# Study programmes 2015-2016

## Faculty of Medicine

### Master in biomedicine (120 ECTS)

COSM0434-1	<i>Cosmetology : Belgian, European and extra-European regulation, copyright and patents</i> - Joëlle MEUNIER	Q1	10	5	-	2
EPID0430-1	<i>Methodology of Clinical Trials</i> - Régis RADERMECKER	Q1	10	-	-	3
COSM0002-1	<i>Undesirable effects of various types of cosmetics</i> - Claudine FRANCHIMONT	Q1	10	-	-	3
COSM0437-2	<i>Physiology, immunology and microanatomy of skin, dander, mucous membranes and teeth</i> - Pascale QUATRESOOZ	Q1	20	-	-	3
COSM0438-2	<i>Principles of formulation applied to cosmetology</i> - Géraldine PIEL	Q1	15	20	-	4
COSM0439-1	<i>Issues in microbiology in cosmetology</i> - Pierrette MELIN	Q1	15	-	-	2
COSM0441-1	<i>Systemic toxic risks linked to cosmetics</i> - Corinne CHARLIER	Q1	15	-	-	2
COSM0442-1	<i>Xenobiotics and living cells</i> - Christian GRANDFILS	Q1	15	-	-	2

#### Compulsory courses

STAT1750-1	<i>Multivariate statistical analysis</i> - Nadia DARDENNE, AnneFrançoise DONNEAU	Q1	10	10	-	1
MMEM0440-1	<i>Final thesis</i> - COLLÉGIALITÉ	Q2	-	-	-	26

#### Optional courses

Choose courses totalling 3 ECTS from the following :

SBIM0440-1	<i>Fight against disease and international health politics</i> - Joseph MANZAMBI KUWEKITA - [15h SEM]	Q1	25	-	[+]	4
DERM0430-2	<i>Elements of Dermatopathology</i> - Jorge ARRESE ESTRADA	Q1	10	-	-	2
PATH0430-2	<i>Elements of Infectious Pathology in Developing Countries</i> - MariePierre HAYETTE, Pierrette MELIN	Q1	20	-	-	3
METO0442-2	<i>Methodology of research in developing countries</i> - Joseph MANZAMBI KUWEKITA	Q1	10	15	-	3
SOCI1240-2	<i>Sociology of Interventions in Developing Countries</i> - Marc PONCELET	Q1	30	-	-	3
SBIM0442-1	<i>Medication in international health</i> - Roland MARINI DJANG'EING'A	Q1	10	-	-	2
SBIM0443-1	<i>Organisation of health care and geo-climatological parameters</i> - Pierre OZER	Q1	15	-	-	2
SBIM0430-1	<i>Methods in vivo and in vitro concerning gastrointestinal tract</i> - Olivier PEULEN	Q1	15	10	-	4
SBIM0451-2	<i>The application of molecular biology techniques to clinical biology</i> - MariePaule MERVILLE	Q1	15	25	-	4
EPID0430-1	<i>Methodology of Clinical Trials</i> - Régis RADERMECKER	Q1	10	-	-	3
SBIM0472-1	<i>In vivo methodology in neuroscience</i> - Rachele FRANZEN	Q1	20	-	-	4
SBIM0492-1	<i>Preclinical cancer models</i> - Denis MOTTET - [10h SEM]	Q1	5	-	[+]	3
SBIM0495-1	<i>Molecular and cellular basis of disease (english language)</i> - COLLÉGIALITÉ - [10h Mon. WS, 40h Pers. Res.]	Q1	20	-	[+]	7
QUAL0433-1	<i>Organisation and quality assurance in a trial laboratory</i> - Philippe HUBERT, Joëlle WIDART	Q1	5	10	-	3

### Programme transitoire à destination des étudiants ayant réussi leur master 1 de "Master en sciences biomédicales, à finalité spécialisée en assurance qualité" en 2014-2015

**Bloc 1 du programme de l'année**

**Optional courses**

**Focus courses**

**Professional focus in quality assurance**

Note : Some courses listed below may be given in English.

*Coordinator : Philippe HUBERT*

QUAL0431-1	<i>Internal and external audits</i> - Ahmed IGOUT	Q1	10	20	-	<b>3</b>
QUAL0432-1	<i>Quality Assurance for IT systems</i> - Marc DENHAM	Q1	5	-	-	<b>1</b>
QUAL0433-1	<i>Organisation and quality assurance in a trial laboratory</i> - Philippe HUBERT, Joëlle WIDART	Q1	5	10	-	<b>3</b>
QUAL0434-1	<i>Validation of quantitative analysis methods</i> - Philippe HUBERT, Roland MARINI DJANG'EING'A	Q1	10	10	-	<b>2</b>
QUAL0435-1	<i>Microbiological quality assurance of the environment</i> - Pierrette MELIN	Q1	10	15	-	<b>3</b>
QUAL0436-1	<i>Quality assurance linked to foodstuffs</i> - <i>partim I : aspects chimiques</i> - MarieLouise SCIPPO - <i>partim II : aspects biologiques</i> - Georges DAUBE	Q1				<b>2</b>
				7,5	-	
				7,5	-	
ESHY0057-1	<i>General Safety Organization</i> - Christine GRIGNET, Anne GROGNA	Q1	14	-	-	<b>2</b>
QUAL0437-2	<i>Statistical data analysis using informatic tools</i> - Nadia DARDENNE, AnneFrançoise DONNEAU	Q1	10	20	-	<b>2</b>
GEST0188-1	<i>Determination and Recognition of Quality and Conformity</i> - Pierre DEWALLEF	Q1	30	-	-	<b>3</b>
QUAL0723-1	<i>Assessment and quality assurance methods in healthcare institutions</i> - Pierre GILLET	Q1	20	-	-	<b>2</b>
QUAL0430-1	<i>Quality assurance systems in clinical biology</i> - Etienne CAVALIER	Q1	10	-	-	<b>2</b>
QUAL0438-1	<i>Good Manufacturing Practices (GMP)</i> (english language) - Lucas FOTSING, Philippe HUBERT	Q1	10	10	-	<b>2</b>
QUAL0439-1	<i>Chemical quality assurance of the environment</i> - Gauthier EPPE	Q1	15	15	-	<b>3</b>

**Compulsory courses**

STAT1750-1	<i>Multivariate statistical analysis</i> - Nadia DARDENNE, AnneFrançoise DONNEAU	Q1	10	10	-	<b>1</b>
MMEM0440-1	<i>Final thesis</i> - COLLÉGIALITÉ	Q2	-	-	-	<b>26</b>

**Optional courses**

Choose courses totalling 3 ECTS from the following :

SBIM0440-1	<i>Fight against disease and international health politics</i> - Joseph MANZAMBI KUWEKITA - [15h SEM]	Q1	25	-	[+]	<b>4</b>
DERM0430-2	<i>Elements of Dermatopathology</i> - Jorge ARRESE ESTRADA	Q1	10	-	-	<b>2</b>
PATH0430-2	<i>Elements of Infectious Pathology in Developing Countries</i> - MariePierre HAYETTE, Pierrette MELIN	Q1	20	-	-	<b>3</b>
METO0442-2	<i>Methodology of research in developing countries</i> - Joseph MANZAMBI KUWEKITA	Q1	10	15	-	<b>3</b>
SOCI1240-2	<i>Sociology of Interventions in Developing Countries</i> - Marc PONCELET	Q1	30	-	-	<b>3</b>
SBIM0442-1	<i>Medication in international health</i> - Roland MARINI DJANG'EING'A	Q1	10	-	-	<b>2</b>
SBIM0443-1	<i>Organisation of health care and geo-climatological parameters</i> - Pierre OZER	Q1	15	-	-	<b>2</b>

SBIM0430-1	<i>Methods in vivo and in vitro concerning gastrointestinal tract</i> - Olivier PEULEN	Q1	15	10	-	4
SBIM0451-2	<i>The application of molecular biology techniques to clinical biology</i> - MariePaule MERVILLE	Q1	15	25	-	4
EPID0430-1	<i>Methodology of Clinical Trials</i> - Régis RADERMECKER	Q1	10	-	-	3
SBIM0472-1	<i>In vivo methodology in neuroscience</i> - Rachelle FRANZEN	Q1	20	-	-	4
SBIM0492-1	<i>Preclinical cancer models</i> - Denis MOTTET - [10h SEM]	Q1	5	-	[+]	3
SBIM0495-1	<i>Molecular and cellular basis of disease (english language)</i> - COLLÉGIALITÉ - [10h Mon. WS, 40h Pers. Res.]	Q1	20	-	[+]	7
QUAL0433-1	<i>Organisation and quality assurance in a trial laboratory</i> - Philippe HUBERT, Joëlle WIDART	Q1	5	10	-	3

## Programme transitoire à destination des étudiants ayant réussi leur master 1 de "Master en sciences biomédicales, à finalité approfondie" en 2014-2015

### Bloc 1 du programme de l'année

#### Optional courses

##### Focus courses

##### Research Focus

Choose one option from the following :

#### A. Digestive system and nutrition - Coordinator: Nicolas Paquot

Note : All courses in this option could be given in English.

SBIM0430-1	<i>Methods in vivo and in vitro concerning gastrointestinal tract</i> - Olivier PEULEN	Q1	15	10	-	4
SBIM0431-1	<i>Diseases of the digestive tract and food allergies/intolerances. Pediatric and adult aspects</i> - Jean DELWAIDE, Masendu KALENGA, Edouard LOUIS	Q1	30	-	-	4
NUTR0711-1	<i>Nutrition and dietetic elements</i> - Nicolas PAQUOT	Q1	10	-	-	4
NUTR0712-1	<i>Nutrition and pathologies</i> - Nicolas PAQUOT	Q1	10	-	-	4
NUTR1001-1	<i>Food - Health</i> - Antoine CLINQUART, Véronique DELCENSERIE, MarieLouise SCIPPO	Q1	15	-	-	3
QUAL0436-1	<i>Quality assurance linked to foodstuffs</i> - <i>partim I : aspects chimiques</i> - MarieLouise SCIPPO - <i>partim II : aspects biologiques</i> - Georges DAUBE	Q1		7,5	-	2
SBIM0434-1	<i>Phytochemical introduction to the analysis of foodstuffs</i> - Michel FREDERICH, Monique TITS	Q1	10	-	-	2
SBIM0436-1	<i>Dietary technology, legislation and labelling</i> - Antoine CLINQUART	Q1	15	-	-	2
SBIM0437-4	<i>Biosafety</i> - Willy ZORZI	Q1	10	5	-	1
SBIM0439-1	<i>Bibliographic research</i> - Nathalie JACOBS, Nicolas PAQUOT	Q1	-	-	-	4

#### B. Biological analysis - Coordinator : Pierette Melin

Note : courses QUAL0430, MICR0431, SBIM0450, SBIM0452, SBIM0453, SBIM0454, SBIM0437 could be given in English.

QUAL0430-2	<i>Quality assurance systems in clinical biology</i> - Etienne CAVALIER	Q1	10	5	-	3
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# Study programmes 2015-2016

## Faculty of Medicine

### Master in biomedicine (120 ECTS)

MICR0431-2	<i>Clinical microbiology</i> - Pierrette MELIN	Q1	15	10	-	3
IMMU0430-1	<i>Immunoassay</i> - Benaïssa ELMOUALIJ	Q1	5	10	-	3
SBIM0450-1	<i>Complement of clinical chemistry</i> - Etienne CAVALIER	Q1	15	10	-	4
SBIM0451-2	<i>The application of molecular biology techniques to clinical biology</i> - MariePaule MERVILLE	Q1	15	25	-	4
SBIM0452-1	<i>Cellular and molecular biology of acute and chronic inflammation</i> - Alain CHARLOT	Q1	15	-	-	3
SBIM0453-1	<i>Complement of haematology</i> - André GOTHOT	Q1	15	-	-	3
SBIM0454-1	<i>Monitoring renal pathologies</i> - Etienne CAVALIER	Q1	10	-	-	2
SBIM0437-4	<i>Biosafety</i> - Willy ZORZI	Q1	10	5	-	1
SBIM0439-3	<i>Bibliographic research</i> - Etienne CAVALIER, Nathalie JACOBS	Q1	-	-	-	4

#### C. Pharmacology and toxicology - Coordinator : Julien Hanson

Note : courses PHAC0430, EPID0441, METO0441, SBIM0461, SBIM0437 could be given in English.

PHAC0430-2	<i>Special pharmacology</i> - Julien HANSON	Q1	30	-	-	4
EPID0430-1	<i>Methodology of Clinical Trials</i> - Régis RADERMECKER	Q1	10	-	-	3
EPID0441-1	<i>Pharmaco-epidemiology and Pharmaco-economics</i> - Olivier ETHGEN	Q1	10	-	-	2
TOXI0441-1	<i>Experimental Toxicology</i> - Corinne CHARLIER	Q1	10	-	-	2
METO0441-1	<i>Methodology of Pharmaceutical Research</i> - Pierre FRANCOU	Q1	15	10	-	3
SBIM0460-1	<i>Introduction to the Pharmaceutical Technology</i> - Géraldine PIEL	Q1	15	10	-	3
BIOL2025-1	<i>Medical and pharmaceutical applications in molecular biology</i> - Alain CHARLOT	Q1	10	-	-	2
SBIM0461-1	<i>Radiomarking and the medical and experimental use of tracers</i> - Joël AERTS	Q1	10	-	-	2
SBIM0462-1	<i>Pharmacology and addiction clinic</i> - Emmanuel PINTO	Q1	10	-	-	2
SBIM0463-1	<i>Biocompatibility of implants and biomaterials</i> - Christian GRANDFILS	Q1	10	-	-	2
SBIM0437-4	<i>Biosafety</i> - Willy ZORZI	Q1	10	5	-	1
SBIM0439-4	<i>Bibliographic research</i> - Julien HANSON, Nathalie JACOBS	Q1	-	-	-	4

#### D. Neurosciences - Coordinator : Rachelle Franzen

Note : courses SBIM0471, SBIM0472, SBIM0474, SBIM0477 could be given in English.

SBIM0470-1	<i>Principles of neuroendocrinology</i> - Charlotte CORNIL, AnneSimone PARENT	Q1	20	-	-	4
SBIM0472-1	<i>In vivo methodology in neuroscience</i> - Rachelle FRANZEN	Q1	20	-	-	4
SBIM0473-1	<i>Functional neuro-anatomy in vertebrates</i> - Rachelle FRANZEN	Q1	30	-	-	4
SBIM0474-1	<i>Biophysics and molecular biology of ion channels</i> - Lucien BETTENDORFF, Dominique ENGEL, Vincent SEUTIN	Q1	20	-	-	3
SBIM0475-1	<i>Pathologies of the nervous system</i> - Eric SALMON	Q1	20	10	-	4
PSYC0908-1	<i>Psychobiological questions</i> - Ezio TIRELLI	Q1	20	-	-	3
SBIM0477-1	<i>Functional imagery in humans</i> - Gaëtan GARRAUX	Q1	20	-	-	3
SBIM0437-4	<i>Biosafety</i> - Willy ZORZI	Q1	10	5	-	1
SBIM0439-5	<i>Bibliographic research</i> - Rachelle FRANZEN, Nathalie JACOBS	Q1	-	-	-	4

#### F. Oncology and immunology - Coordinator : Agnès Noël

Note : Courses SBIM0480, SBIM0483, SBIM0484, SBIM0437 could be given in English.

SBIM0480-2	<i>Anatomical pathology of tumours</i> - Jorge ARRESE ESTRADA	Q1	15	15	-	4
SBIM0481-2	<i>Molecular and cellular oncology</i> - Yvette HABRAKEN, Agnès NOËL - [35h SEM]	Q1	15	-	[+]	6
SBIM0482-2	<i>Vaccination</i> - Laurence DELACROIX, N... - [15h SEM]	Q1	10	5	[+]	5
SBIM0483-1	<i>Cytokine chemokine signalling</i> - Vincent GEENEN - [5h SEM]	Q1	10	-	[+]	3
SBIM0484-1	<i>Immunology of tumours</i> - Nathalie JACOBS - [10h SEM]	Q1	10	-	[+]	4
SBIM0492-1	<i>Preclinical cancer models</i> - Denis MOTTET - [10h SEM]	Q1	5	-	[+]	3
SBIM0437-4	<i>Biosafety</i> - Willy ZORZI	Q1	10	5	-	1
SBIM0439-6	<i>Bibliographic research</i> - Nathalie JACOBS, Agnès NOËL	Q1	-	-	-	4

**F. Multidisciplinary English - Coordinator : Vincent Seutin**

Note : all courses will be given in English

SBIM0494-1	<i>General introduction to cell biology</i> (english language) - COLLÉGIALITÉ, Vincent SEUTIN - [15h Mon. WS, 15h Pers. Res.]	Q1	16	-	[+]	4
SBIM0495-1	<i>Molecular and cellular basis of disease</i> (english language) - COLLÉGIALITÉ - [10h Mon. WS, 40h Pers. Res.]	Q1	20	-	[+]	7
SBIM0496-1	<i>Advanced techniques for diagnosis and prognosis</i> (english language) - COLLÉGIALITÉ - [10h Mon. WS, 40h Pers. Res.]	Q1	10	-	[+]	5
SBIM0497-1	<i>New therapeutic approaches to disease</i> (english language) - COLLÉGIALITÉ - [10h Mon. WS, 40h Pers. Res.]	Q1	10	-	[+]	5
SBIM0498-1	<i>Critical evaluation of experimental data</i> (english language) - COLLÉGIALITÉ - [10h Mon. WS, 10h Pers. Res.]	Q1	10	20	[+]	4
SBIM0499-1	<i>Thematic seminars</i> (english language) - COLLÉGIALITÉ, Vincent SEUTIN - [20h SEM]	Q1	-	-	[+]	5

**Compulsory courses**

STAT1750-1	<i>Multivariate statistical analysis</i> - Nadia DARDENNE, AnneFrançoise DONNEAU	Q1	10	10	-	1
MMEM0440-1	<i>Final thesis</i> - COLLÉGIALITÉ	Q2	-	-	-	26

**Optional courses**

Choose courses totalling 3 ECTS from the following :

SBIM0440-1	<i>Fight against disease and international health politics</i> - Joseph MANZAMBI KUWEKITA - [15h SEM]	Q1	25	-	[+]	4
DERM0430-2	<i>Elements of Dermatopathology</i> - Jorge ARRESE ESTRADA	Q1	10	-	-	2
PATH0430-2	<i>Elements of Infectious Pathology in Developing Countries</i> - MariePierre HAYETTE, Pierrette MELIN	Q1	20	-	-	3
METO0442-2	<i>Methodology of research in developing countries</i> - Joseph MANZAMBI KUWEKITA	Q1	10	15	-	3
SOCI1240-2	<i>Sociology of Interventions in Developing Countries</i> - Marc PONCELET	Q1	30	-	-	3
SBIM0442-1	<i>Medication in international health</i> - Roland MARINI DJANG'EING'A	Q1	10	-	-	2
SBIM0443-1	<i>Organisation of health care and geo-climatological parameters</i> - Pierre OZER	Q1	15	-	-	2
SBIM0430-1	<i>Methods in vivo and in vitro concerning gastrointestinal tract</i> - Olivier PEULEN	Q1	15	10	-	4
SBIM0451-2	<i>The application of molecular biology techniques to clinical biology</i> - MariePaule MERVILLE	Q1	15	25	-	4

Study programmes 2015-2016  
Faculty of Medicine  
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EPID0430-1	<i>Methodology of Clinical Trials</i> - Régis RADERMECKER	Q1	10	-	-	<b>3</b>
SBIM0472-1	<i>In vivo methodology in neuroscience</i> - Rachele FRANZEN	Q1	20	-	-	<b>4</b>
SBIM0492-1	<i>Preclinical cancer models</i> - Denis MOTTET - [10h SEM]	Q1	5	-	[+]	<b>3</b>
SBIM0495-1	<i>Molecular and cellular basis of disease (english language)</i> - COLLÉGIALITÉ - [10h Mon. WS, 40h Pers. Res.]	Q1	20	-	[+]	<b>7</b>
QUAL0433-1	<i>Organisation and quality assurance in a trial laboratory</i> - Philippe HUBERT, Joëlle WIDART	Q1	5	10	-	<b>3</b>