

## Block view of the study programme

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### Block 1

#### Compulsory courses

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	15	5	-	2
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
STAT0420-1	<i>Biostatistics 2</i> - Nadia DARDENNE, AnneFrançoise DONNEAU	Q1	15	15	-	2
RADL0440-1	<i>Radiobiology</i> - Chantal HUMBLET, Philippe MARTINIVE	Q2	30	10	-	3
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	-	[+]	15
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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

### Block 2

#### Compulsory courses

STAT1750-1	<i>Multivariate statistical analysis</i> - Nadia DARDENNE, AnneFrançoise DONNEAU	Q1	10	15	-	2
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MMEM0440-1	<i>Final thesis - COLLÉGIALITÉ</i>	Q2	-	-	-	28
	<b>Prerequisite :</b> MSTG0430-3 - Stage en laboratoire					

### Optional courses

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	-	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	20	-	-	3
	<b>Corequisite :</b> SBIM0436-1 - Technologie des denrées alimentaires, législation et étiquetage NUTR0712-1 - Nutrition et pathologies NUTR0711-1 - Nutrition et éléments de diététique					
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	Q1	10	-	-	2
SBIM0436-1	<i>Dietary technology, legislation and labelling</i> - Antoine CLINQUART	Q1	15	-	-	2
	<b>Corequisite :</b> NUTR1001-1 - Aliments-Santé NUTR0711-1 - Nutrition et éléments de diététique					
SBIM0437-4	<i>Biosafety</i> - Willy ZORZI	Q1	10	5	-	1
SBIM0439-1	<i>Bibliographic research</i> - Nathalie JACOBS, Nicolas PAQUOT	TA	-	-	-	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 ELMOUALIJ	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

# Study programmes 2016-2017

## Faculty of Medicine

### Master in biomedicine (120 ECTS)

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 <b>Prerequisite :</b> SANG0430-2 - Hématologie et hémostase	Q1	15	-	-	3
SBIM0454-1	<i>Monitoring renal pathologies</i> - Etienne CAVALIER <b>Prerequisite :</b> CHIM0440-2 - Chimie clinique	Q1	10	-	-	2
SBIM0437-4	<i>Biosafety</i> - Willy ZORZI	Q1	10	5	-	1
SBIM0439-3	<i>Bibliographic research</i> - Etienne CAVALIER, Nathalie JACOBS <b>Prerequisite :</b> LANG0130-1 - Pratique de l'anglais scientifique II	TA	-	-	-	4

#### 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 <b>Corequisite :</b> SBIM0460-1 - Introduction à la pharmacie galénique SBIM0439-4 - Recherche bibliographique	Q1	30	-	-	4
EPID0430-1	<i>Methodology of Clinical Trials</i> - Régis RADERMECKER	Q1	10	-	-	2
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 FRANCOITTE	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	25	-	-	3
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	TA	-	-	-	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	-	-	3
SBIM0472-1	<i>In vivo methodology in neuroscience</i> - Rachelle FRANZEN <b>Prerequisite :</b> SBIM0486-2 - Méthodologies expérimentales des animaux vivants LANG0130-1 - Pratique de l'anglais scientifique II	Q1	20	-	-	3
SBIM0473-1	<i>Functional neuro-anatomy in vertebrates</i> - Rachelle FRANZEN <b>Prerequisite :</b>	Q1	30	-	-	3

	NEUR0432-1 - Compléments de neurobiologie					
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> NEUR0432-1 - Compléments de neurobiologie LANG0130-1 - Pratique de l'anglais scientifique II	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, Gilles VANDEWALLE	Q1	20	-	-	3
SBIM0437-4	<i>Biosafety</i> - Willy ZORZI	Q1	10	5	-	1
SBIM0001-1	<i>Neuro-inflammation and neuroimmunology</i> - Virginie NEIRINCKX, Priscilla VAN DEN ACKERVEKEN	Q1	15	-	-	3
SBIM0439-5	<i>Bibliographic research</i> - Rachele FRANZEN, Nathalie JACOBS <b>Prerequisite :</b> LANG0130-1 - Pratique de l'anglais scientifique II	TA	-	-	-	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> - Andy CHEVIGNÉ - [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	TA	-	-	-	4

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

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

SBIM0494-1	<i>General introduction to cell biology (english language)</i> - Laurence DELACROIX - [15h Mon. WS, 15h Pers. Res.] <b>Prerequisite :</b> GENE0431-1 - Compléments de génomique BIOL0431-2 - Compléments de régulation cellulaire normale et pathologique	Q1	16	-	[+]	4
SBIM0495-1	<i>Molecular and cellular basis of disease (english language)</i> - Vincent SEUTIN - [10h Mon. WS, 40h Pers. Res.]	Q1	20	-	[+]	7
SBIM0496-1	<i>Advanced techniques for diagnosis and prognosis (english language)</i> - François JOURET - [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 (english language)</i> - Julien HANSON - [10h Mon. WS, 40h Pers. Res.]	Q1	10	-	[+]	5
SBIM0498-1	<i>Critical evaluation of experimental data (english language)</i> - Sabine WISLET - [10h Mon. WS, 10h Pers. Res.]	Q1	10	20	[+]	4

SBIM0499-1 *Thematic seminars (english language)* - Pierre CLOSE - [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	15	20	-	2
GEST0188-1	<i>Determination and Recognition of Quality and Conformity</i> - JeanMichel COMPÈRE, Pierre DEWALLEF	Q1	30	-	-	3
QUAL0430-1	<i>Quality assurance systems in clinical biology</i> - Etienne CAVALIER	Q1	10	-	-	2
QUAL0438-1	<i>Good Manufacturing Practices (GMP) (english language)</i> - Lucas FOTSING, Philippe HUBERT	Q1	10	10	-	2
QUAL0439-1	<i>Chemical quality assurance of the environment</i> - Gauthier EPPE	Q1	15	15	-	3
GEST2002-1	<i>Integrated approach to assessing the quality of care</i> - Marie ERPICUM, JeanBernard GILLET, Pierre GILLET, Olivier THONON	Q1	4	16	-	2

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

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

**Compulsory courses**

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
IMMU0320-2	<i>General immunology</i> - Catherine SADZOT	Q1	15	-	-	2
LANG0074-1	<i>Advanced English for biomedical sciences (english language)</i> - Julien DUBOIS, Christine FILOT	Q1	30	-	-	3
TOXI0004-1	<i>Principles of toxicology</i> - Corinne CHARLIER	Q1	20	-	-	2
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
GENE0420-2	<i>Medical genetics</i> - Vincent BOURS	Q2	15	-	-	2
BIOC0322-2	<i>Proteins biochemistry</i> - Sabine WISLET	Q2	20	-	-	4
HISL0220-3	<i>Human histology</i> - Chantal HUMBLET	Q2	20	10	-	4
ANAP0230-5	<i>General pathological anatomy</i> - Philippe DELVENNE - [7h SI]	Q2	20	10	[+]	4
BIOL0028-1	<i>Molecular biology</i> - Agnès NOËL	Q2	55	40	-	9

# Study programmes 2016-2017

## Faculty of Medicine

### Master in biomedicine (120 ECTS)

MICR0330-4	<i>Medical microbiology</i> - MariePierre HAYETTE - [7h SI]	Q2	25	10	[+]	<b>3</b>
CHIM0217-3	<i>Principles of clinical chemistry</i> - Etienne CAVALIER	Q2	20	-	-	<b>2</b>
LANG0129-1	<i>Application of scientific English I</i> - Christine FILOT, Agnès NOËL, Vincent SEUTIN	Q2	5	25	-	<b>3</b>
BIOC3002-1	<i>Normal and pathologic human biochemistry and physiology (cardiovascular system - respiratory system - nervous system)</i> - Didier CATALDO, Gaëtan GARRAUX, Philippe KOLH, Gilles VANDEWALLE - [2h Pr.]	Q2	40	-	[+]	<b>6</b>
BIOC3001-1	<i>Normal and pathologic human Biochemistry and Physiology (digestive system - urinary system - endocrine system and metabolism)</i> - Didier CATALDO, Philippe KOLH	Q2	40	-	-	<b>6</b>
BIOC3002-2	<i>Normal and pathologic human biochemistry and physiology (cardiovascular system - respiratory system - nervous system) (partim systèmes cardiovasculaire ; système respiratoire)</i> - Didier CATALDO, Gaëtan GARRAUX, Philippe KOLH, Gilles VANDEWALLE	Q2	20	-	-	<b>4</b>
BIOC3002-3	<i>Normal and pathologic human biochemistry and physiology (cardiovascular system - respiratory system - nervous system) (partim système nerveux)</i> - Didier CATALDO, Gaëtan GARRAUX, Philippe KOLH, Gilles VANDEWALLE	Q2	20	-	-	<b>3</b>
BIOC3001-2	<i>Normal and pathologic human Biochemistry and Physiology (digestive system - urinary system - endocrine system and metabolism), digestive system - N...</i>	Q2	15	-	-	<b>2</b>
BIOC3001-3	<i>Normal and pathologic human Biochemistry and Physiology (digestive system - urinary system - endocrine system and metabolism), urinary system - N...</i>	Q2	10	-	-	<b>2</b>
BIOC3001-4	<i>Normal and pathologic human Biochemistry and Physiology (digestive system - urinary system - endocrine system and metabolism), endocrine system and metabolism - N...</i>	Q2	15	-	-	<b>2</b>