

Two-Year Master Program (120 ECTS)

First Year

First semester

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

Optional courses

Choose one of the following courses :

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

Second semester

Compulsory courses

RADL0440-1	<i>Radiobiology</i> - Chantal HUMBLET, Philippe MARTINIVE	Q2	30	10	-	4
CHIM0440-2	<i>Clinical chemistry</i> - Etienne CAVALIER		20	10	-	3
TOXI0432-1	<i>Complement of toxicology</i> - Raphaël DENOZ		10	10	-	2
CHIM0433-1	<i>Proteomics</i> - Edwin DE PAUW, Marianne FILLET, Pierre LEPRINCE	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		30	-	-	2
Specific Module						
MSTG0430-3	<i>Placement in laboratory</i> - COLLÉGIALITÉ - [140h Internship]		5	-	[+]	13

Optional courses

Choose one of the following courses :

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]		10	-	[+]	2
CHIM0688-1	<i>Mass spectrometry</i> - Edwin DE PAUW - [10h Mon. WS]	TA	15	-	[+]	2
BIOL2029-1	<i>Introduction to clinical biology</i> - Etienne CAVALIER, Corinne CHARLIER, André GOTHOT, Pierrette MELIN		20	-	-	2

Second year

Compulsory courses

STAT1750-1	<i>Multivariate statistical analysis (english language)</i> - Adelin ALBERT, Nadia DARDENNE	Q1	10	10	-	1
MMEM0440-1	<i>Final thesis</i> - COLLÉGIALITÉ		-	-	-	29

Choose one focus from the following :

Research Focus

Optional courses

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	10	10	-	3
SBIM0431-1	<i>Physiopathology of diseases of the digestive tract</i> - Jean DELWAIDE, Masendu KALENGA		30	-	-	4
NUTR0711-1	<i>Nutrition and dietetic elements</i> - Nicolas PAQUOT		10	-	-	4
NUTR0712-1	<i>Nutrition and pathologies</i> - Nicolas PAQUOT		10	-	-	4
NUTR0718-1	<i>Biomedical research in nutrition</i> - Nicolas PAQUOT - [10h SEM]		20	-	[+]	3
SBIM0434-1	<i>Phytochemical introduction to the analysis of foodstuffs</i> - Michel FREDERICH, Monique TITS	Q1	10	-	-	2
QUAL0436-1	<i>Quality assurance linked to foodstuffs</i> - partim I : aspects chimiques - MarieLouise SCIPPO - partim II : aspects biologiques - Georges DAUBE		7,5 7,5	- -	- -	2
SBIM0436-1	<i>Dietary technology, legislation and labelling</i> - Antoine CLINQUART		15	-	-	2
SBIM0437-4	<i>Biosafety</i> - Willy ZORZI		10	5	-	1
SBIM0439-1	<i>Bibliographic research</i> - Nicolas PAQUOT		-	-	-	5

B. Biomedical aspects specific to developing countries - Coordinator: Pierrette Melin

SBIM0440-1	<i>Fight against disease and international health politics</i> - Joseph MANZAMBI KUWEKITA - [15h SEM]		25	-	[+]	4
DERM0430-2	<i>Elements of Dermatopathology</i> - Jorge ARRESE ESTRADA		10	-	-	2
SBIM0437-4	<i>Biosafety</i> - Willy ZORZI		10	5	-	1
PATH0430-2	<i>Elements of Infectious Pathology in Developing Countries</i> - MariePierre HAYETTE, Pierrette MELIN		20	-	-	3
METO0442-2	<i>Methodology of research in developing countries</i> - Joseph MANZAMBI KUWEKITA		10	15	-	3
NUTR0440-1	<i>Nutrition Problems Specific to Developing Countries</i> - Nicolas PAQUOT		15	-	-	2
SBIM0441-1	<i>Organisational approaches to laboratories in international health</i> - Danièle THULL		10	10	-	3
SOCH240-2	<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		10	-	-	2
SBIM0439-2	<i>Bibliographic research</i> - Pierrette MELIN		-	-	-	5
SBIM0443-1	<i>Organisation of health care and geo-climatological parameters</i> - Pierre OZER		15	-	-	2

C. Biological analyses - Coordinator : Etienne Cavalier

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

SBIM0439-3 *Bibliographic research* - Etienne CAVALIER - - - 5

D. Pharmacologie et toxicologie - Coordinateur : 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		10	-	-	2
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 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 CHARIOT		10	-	-	2
SBIM0461-1	<i>Radiomarking and the medical and experimental use of tracers</i> - Joël AERTS		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		10	5	-	1
SBIM0439-4	<i>Bibliographic research</i> - Julien HANSON		-	-	-	5

E. Neurosciences - Coordinateur : 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	-	-	3
SBIM0471-1	<i>Questions of macroscopic physiology of the nervous system</i> - Robert POIRRIER		20	-	-	3
SBIM0472-1	<i>In vivo methodology in neuroscience</i> - Rachelle FRANZEN		20	-	-	3
SBIM0473-1	<i>Functional neuro-anatomy in vertebrates</i> - Rachelle FRANZEN		30	-	-	4
SBIM0474-1	<i>Biophysics and molecular biology of ion channels</i> - Lucien BETTENDORFF, DoruGeorg MARGINEANU, Vincent SEUTIN	Q1	20	-	-	3
SBIM0475-1	<i>Pathologies of the nervous system</i> - Eric SALMON	Q1	20	10	-	3
PSYC0908-1	<i>Psychobiological questions</i> - Ezio TIRELLI		20	-	-	2
SBIM0437-4	<i>Biosafety</i> - Willy ZORZI		10	5	-	1
SBIM0477-1	<i>Functional imagery in humans</i> - Gaëtan GARRAUX		20	-	-	3
SBIM0439-5	<i>Bibliographic research</i> - Rachelle FRANZEN		-	-	-	5

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

G. Multidisciplinary English - Coordinator : Vincent Seutin

Note : All courses will be in English

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

SBIM0499-1 *Thematic seminars (english language)* - COLLÉGIALITÉ, Vincent SEUTIN - Q1 - - [+] 4
[20h SEM]

Professional Focus in Quality Assurance

Compulsory courses

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

Coordinator : *Philippe HUBERT*

QUAL0431-1	<i>Internal and external audits</i> - Ahmed IGOUT		10	20	-	3
QUAL0432-1	<i>Quality Assurance for IT systems</i> - Marc DENHAM		5	-	-	1
QUAL0433-1	<i>Organisation and quality assurance in a trial laboratory</i> - Philippe HUBERT	Q1	5	10	-	2
QUAL0434-1	<i>Validation of quantitative analysis methods</i> - Philippe HUBERT	Q1	10	10	-	2
QUAL0435-1	<i>Microbiological quality assurance of the environment</i> - Pierrette MELIN		10	15	-	3
QUAL0436-1	<i>Quality assurance linked to foodstuffs</i>					2
	- <i>partim I : aspects chimiques</i> - MarieLouise SCIPPO		7,5	-	-	
	- <i>partim II : aspects biologiques</i> - Georges DAUBE		7,5	-	-	
ESHY0057-1	<i>General Safety Organization</i> - Christine GRIGNET, Anne GROGNA		14	-	-	2
QUAL0437-2	<i>Statistical data analysis using informatic tools</i> - AnneFrançoise DONNEAU		15	5	-	2
GEST0188-1	<i>Determination and Recognition of Quality and Conformity</i> - JeanMarie RIGO		30	-	-	4
QUAL0723-1	<i>Assessment and quality assurance methods in healthcare institutions</i> - Pierre GILLET		20	-	-	2
QUAL0430-1	<i>Quality assurance systems in clinical biology</i> - Etienne CAVALIER		10	-	-	2
QUAL0438-1	<i>Good Manufacturing Practices (GMP) (english language)</i> - Lucas FOTSING, Philippe HUBERT	Q2	10	10	-	2
QUAL0439-1	<i>Chemical quality assurance of the environment</i> - Gauthier EPPE	Q1	15	15	-	3

Professional Focus in Cosmetology

Compulsory courses

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

Coordinator : *Claudine FRANCHIMONT*

COSM0001-1	<i>Cutaneous biometrological methods</i> - Gérald PIERARD, Pascale QUATRESOOZ	Q1	20	20	-	6
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		10	5	-	2
EPID0430-1	<i>Methodology of Clinical Trials</i> - Régis RADERMECKER		10	-	-	2
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		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

One-year master program (60 ECTS)

First semester

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> -	Q1	20	-	-	3

	, Laurent NGUYEN, Agnès NOËL							
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

Option cours

Choose one of the following courses :

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

Second semester

Compulsory courses

RADL0440-1	<i>Radiobiology</i> - Chantal HUMBLET, Philippe MARTINIVE	Q2	30	10	-			4
CHIM0440-2	<i>Clinical chemistry</i> - Etienne CAVALIER		20	10	-			3
TOXI0432-1	<i>Complement of toxicology</i> - Raphaël DENOZ		10	10	-			2
CHIM0433-1	<i>Proteomics</i> - Edwin DE PAUW, Marianne FILLET, Pierre LEPRINCE	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		30	-	-			2

Specific Module

MMEM0430-1	<i>Final thesis</i> - COLLÉGIALITÉ		-	-	-			13
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Option cours

Choose one of the following courses :

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]		10	-	[+]			2
CHIM0688-1	<i>Mass spectrometry</i> - Edwin DE PAUW - [10h Mon. WS]	TA	15	-	[+]			2
BIOL2029-1	<i>Introduction to clinical biology</i> - Etienne CAVALIER, Corinne CHARLIER, André GOTHOT, Pierrette MELIN		20	-	-			2