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One-year master program (60 ECTS)

First semester

Compulsory courses

MEDE0430-1	<i>Biomedical research history</i> - Vincent GEENEN	15	-	-	2
LANG0130-1	<i>Scientific English Practice (note-taking)</i> - Christine FILOT, Vincent SEUTIN	5	25	-	3
LABO0432-1	<i>Techniques for cells and tissue cultures</i> - MarieClaire GILLET	5	20	-	3
COMU0430-2	<i>Communication Techniques</i> - Robert LEJEUNE	15	20	-	2
SBIM0486-2	<i>Experimental methodologies in living animals</i> - Pierre DRION	25	10	-	4
BIOL0431-2	<i>Complement of normal and pathological cellular regulation</i> - Yvette HABRAKEN, Laurent NGUYEN, Agnès NOËL	20	-	-	3
LABO0433-2	<i>Modern Morphological Methods in Biomedical Research</i> - Roland GREIMERS	30	-	-	3
SANG0430-2	<i>Hematology</i> - André GOTHOT	20	-	-	3
INFO0430-2	<i>Notions of bioinformatics</i> - Olivier PEULEN	10	10	-	2
GENE0431-1	<i>Complement of genomics</i> - Michel GEORGES	20	10	-	3

Second semester

Compulsory courses

RADL0440-1	<i>Radiobiology</i> - Chantal HUMBLET, Philippe MARTINIVE	30	10	-	4
CHIM0440-2	<i>Complement of medical chemistry</i> - Etienne CAVALIER	20	10	-	3
TOXI0432-1	<i>Complement of toxicology</i> - Raphaël DENOZ	10	10	-	2
CHIM0433-1	<i>Complement of proteomics</i> - Edwin DE PAUW, Marianne FILLET, Pierre LEPRINCE	20	10	-	3
NEUR0432-1	<i>Complement of neurobiology</i> - Pierre LEPRINCE	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	-	-	-	15

Two-Year Master Program (120 ECTS)

First Year

First semester

Compulsory courses

MEDE0430-1	<i>Biomedical research history</i> - Vincent GEENEN	15	-	-	2
LANG0130-1	<i>Scientific English Practice (note-taking)</i> - Christine FILOT, Vincent SEUTIN	5	25	-	3
LABO0432-1	<i>Techniques for cells and tissue cultures</i> - MarieClaire GILLET	5	20	-	3
COMU0430-2	<i>Communication Techniques</i> - Robert LEJEUNE	15	20	-	2
SBIM0486-2	<i>Experimental methodologies in living animals</i> - Pierre DRION	25	10	-	4
BIOL0431-2	<i>Complement of normal and pathological cellular regulation</i> - Yvette HABRAKEN, Laurent NGUYEN, Agnès NOËL	20	-	-	3
LABO0433-2	<i>Modern Morphological Methods in Biomedical Research</i> - Roland GREIMERS	30	-	-	3
SANG0430-2	<i>Hematology</i> - André GOTHOT	20	-	-	3
INFO0430-2	<i>Notions of bioinformatics</i> - Olivier PEULEN	10	10	-	2
GENE0431-1	<i>Complement of genomics</i> - Michel GEORGES	20	10	-	3

Second semester

Compulsory courses

RADL0440-1	<i>Radiobiology</i> - Chantal HUMBLET, Philippe MARTINIVE	30	10	-	4
CHIM0440-2	<i>Complement of medical chemistry</i> - Etienne CAVALIER	20	10	-	3
TOXI0432-1	<i>Complement of toxicology</i> - Raphaël DENOZ	10	10	-	2
CHIM0433-1	<i>Complement of proteomics</i> - Edwin DE PAUW, Marianne FILLET, Pierre LEPRINCE	20	10	-	3
NEUR0432-1	<i>Complement of neurobiology</i> - Pierre LEPRINCE	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	-	[+]	15

Second year

Compulsory courses

STAT0750-1	<i>Multivariate statistical analysis</i> - N... - Suppl : Adelin ALBERT	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	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	10	-	-	2
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	-	-	
SBIM0436-1	<i>Dietary technology, legislation and labelling</i> - Nicolas PAQUOT	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, Kinda SCHEPERS	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
SOCI1240-2	<i>Sociology of Interventions in Developing Countries</i> - Marc PONCELET	30	-	-	3
SBIM0442-1	<i>Medication in international health</i> - N...	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>Complement of microbiology</i> - Pierrette MELIN	15	10	-	3
IMMU0430-1	<i>Immunoassay</i> - Benaïssa ELMOUALIJ	5	10	-	3
SBIM0450-1	<i>Complement of clinical chemistry 2</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 - Alain CHARLOT</i>	15	-	-	3
SBIM0453-1	<i>Complement of haematology - André GOTHOT</i>	15	-	-	3
SBIM0454-1	<i>Monitoring renal pathologies - Etienne CAVALIER</i>	10	-	-	2
SBIM0437-4	<i>Biosafety - Willy ZORZI</i>	10	5	-	1
SBIM0439-3	<i>Bibliographic research - Etienne CAVALIER</i>	-	-	-	5

D. Pharmacology and toxicology - Coordinator : Vincent Seutin

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

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

E. Neuroscience - Coordinator : Vincent Seutin

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

SBIM0470-1	<i>Systems Neurobiology - Jacques BALTHAZART</i>	20	-	-	3
SBIM0471-1	<i>Questions of macroscopic physiology of the nervous system - Robert POIRRIER</i>	20	-	-	3
SBIM0472-1	<i>In vivo methodology in neuroscience - Rachele FRANZEN</i>	20	-	-	3
SBIM0473-1	<i>Functional neuro-anatomy in vertebrates - Rachele FRANZEN</i>	30	-	-	4
SBIM0474-1	<i>Biophysics and molecular biology of ion channels - Lucien BETTENDORFF, DoruGeorg MARGINEANU, Vincent SEUTIN</i>	20	-	-	3
SBIM0475-1	<i>Pathologies of the nervous system - Eric SALMON</i>	20	10	-	3
PSYC0908-1	<i>Psychobiological questions - Ezio TIRELLI</i>	20	-	-	2
SBIM0437-4	<i>Biosafety - Willy ZORZI</i>	10	5	-	1
SBIM0477-1	<i>Functional imagery in humans - Gaëtan GARRAUX</i>	20	-	-	3
SBIM0439-5	<i>Bibliographic research - Vincent SEUTIN</i>	-	-	-	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 - Jorge ARRESE ESTRADA</i>	15	15	-	4
SBIM0481-2	<i>Molecular and cellular oncology - Yvette HABRAKEN, Agnès NOËL - [35h SEM]</i>	15	-	[+]	6
SBIM0482-2	<i>Vaccination - Laurence DELACROIX, N... - [15h SEM]</i>	10	5	[+]	4
SBIM0483-1	<i>Cytokine chemokine signalling - Vincent GEENEN - [5h SEM]</i>	10	-	[+]	3
SBIM0484-1	<i>Immunology of tumours - Nathalie JACOBS - [10h SEM]</i>	10	-	[+]	4
SBIM0437-4	<i>Biosafety - Willy ZORZI</i>	10	5	-	2
SBIM0439-6	<i>Bibliographic research - Agnès NOËL</i>	-	-	-	5
SBIM0492-1	<i>Preclinical cancer models - Denis MOTTET - [10h SEM]</i>	5	-	[+]	2

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 - Ahmed IGOUT</i>	10	20	-	3
QUAL0432-1	<i>Quality Assurance for IT systems - Marc DENHAM</i>	5	-	-	1
QUAL0433-1	<i>Organisation and quality assurance in a trial laboratory - Philippe HUBERT</i>	5	10	-	2
QUAL0434-1	<i>Validation of quantitative analysis methods - Philippe HUBERT</i>	10	10	-	2
QUAL0435-1	<i>Microbiological quality assurance of the environment - Pierrette MELIN</i>	10	15	-	3

