

## Cycle view of the study programme

B1 Or Th Pr Au Cr

### Focus courses (B1 : 27Cr, B2 : 3Cr)

Choose one of the programmes in the focus: (B1 : 27Cr, B2 : 3Cr)

#### RESEARCH FOCUS (reformed programme) (B1 : 27Cr, B2 : 3Cr)

Notice : for students enrolling for the first time in 2024-2025.

SBIM0498-2	<i>Critical evaluation of experimental design and data</i> (english language) - Laurence DELACROIX, Keith DURKIN, Julien HANSON - [24h APP]	B1	Q2	6	-	[+]	<b>4</b>
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Choose one option from the following : (B1 : 23Cr, B2 : 3Cr)

#### A. Multidisciplinary Research (B1 : 23Cr, B2 : 3Cr)

SBIM0486-2	<i>Methodology of animal experimentation</i> (english language) - Pierre DRION	B1	Q1	25	10	-	<b>3</b>
LANG0130-3	<i>Introduction to scientific seminars</i> (english language) - Sabine WISLET - [24h APP]	B1	Q1	6	-	[+]	<b>3</b>
LABO0433-3	<i>Morphological methodology</i> (english language) - Sandra ORMENESE	B1	Q2	12	8	-	<b>2</b>
BIOC0725-2	<i>Stem cell biology and regenerative medicine</i> (english language) - Renaud VANDENBOSCH	B1	Q2	20	-	-	<b>2</b>
INFO9025-1	<i>Bioinformatics in biomedicine</i> (english language) - Arnaud LAVERGNE - [15h APP]	B1	Q2	5	-	[+]	<b>2</b>
SBIM2032-1	<i>Omics in biomedicine</i> (english language) - Pascal DE TULLIO, Keith DURKIN, Marianne FILLET, Gabriel MAZZUCHELLI - [10h APP]	B1	Q2	34	-	[+]	<b>5</b>

Choose two courses out of the following : (B1 : 6Cr)

NUTR1004-2	<i>Advances II in GIT biology</i> (english language) - Joëlle COLLIGNON, Jean DELWAIDE, Olivier DETRY, Nathalie ESSER, Guy JERUSALEM, Edouard LOUIS, MarieAlice MEUWIS, Nicolas PAQUOT, Catherine REENAERS - [10h AUTR] <b>Corequisite :</b> NUTR1003-2 - Advances I in GIT biology	B2	Q2	20	-	[+]	<b>3</b>
SBIM2033-1	<i>Advances II in Cardiovascular Biology</i> (english language) - Mathieu LEMPEREUR - [10h APP] <b>Corequisite :</b> SBIM2003-2 - Advances I in Cardiovascular Biology	B1	Q2	20	-	[+]	<b>3</b>
SBIM2034-1	<i>Advances II in Clinical Biology</i> (english language) - François BOEMER, Philippe CALMANT, Benaïssa ELMOUALJI - [8h AUTR] <b>Corequisite :</b> SBIM2030-1 - Advances I in Clinical Biology	B1	Q2	12	10	[+]	<b>3</b>
IMMU0525-1	<i>Advances II in Immunology and Vaccinology</i> (english language) - Andy CHEVIGNÉ, Laurence DELACROIX, Nathalie JACOBS - [15h APP] <b>Corequisite :</b> IMMU0523-2 - Advances I in Immunology and Vaccinology	B1	Q2	15	-	[+]	<b>3</b>
SBIM2035-1	<i>Advances II in Oncology</i> (english language) - Nathalie JACOBS - [20h APP] <b>Corequisite :</b> SBIM2008-2 - Advances I in Oncology	B1	Q2	10	-	[+]	<b>3</b>
NEUR2044-2	<i>Advances II in Neurosciences</i> (english language) -	B1	Q2	18	2	[+]	<b>3</b>

AKKER, Charlotte CORNIL, Laurence DELACROIX,  
Rachelle FRANZEN, AnneSimone PARENT, Vincent SEUTIN -  
[10h APP]

**Corequisite :**

NEUR2043-2 - Advances I in Neuroscience

PHAR2222-2 *Advances in Pharmacology and Toxicology II* (english language) - Corinne CHARLIER, Julien HANSON - [5h AUTR] B1 Q2 25 - [+] 3

**Corequisite :**

PHAR2221-2 - Advances I in Pharmacology and Toxicology

**B. Multidisciplinary English (B1 : 23Cr, B2 : 3Cr)**

SBIM0494-3 (pas organisé en 2024-2025) *Advanced concepts in cell Biology* (english language) - Pierre CLOSE, Laurence DELACROIX, Mireille DUMOULIN, Keith DURKIN, Julien HANSON - [15h Pers. Res.] B1 Q1 15 15 [+] 6

SBIM0495-2 (pas organisé en 2024-2025) *Molecular and cellular basis of disease* (english language) - Jo CAERS, Pierre CLOSE, Charlotte CORNIL, Laurence DELACROIX, Mireille DUMOULIN, Keith DURKIN, Carla GOMES DA SILVA, Céline KEMPENEERS, Sabine WISLET - [40h Pers. Res.] B1 Q2 20 10 [+] 6

SBIM0496-2 *Advanced techniques for diagnosis and prognosis* (english language) - Pascal DE TULLIO, Keith DURKIN, François JOURET, Céline KEMPENEERS, Sabine WISLET, Nadia WITHOFS - [40h Pers. Res.] B1 Q2 10 10 [+] 5

SBIM0497-3 *New therapeutic approaches to disease* (english language) - Jo CAERS, Pierre CLOSE, Mireille DUMOULIN, AnneSimone PARENT, Vincent SEUTIN - [40h Pers. Res.] B1 Q2 10 10 [+] 6

**RESEARCH FOCUS (transitional programme) (B1 : 27Cr, B2 : 3Cr)**

*Notice :* for students enrolled before 2024-2025.

SBIM0486-2 *Methodology of animal experimentation* (english language) - Pierre DRION B1 Q1 25 10 - 3

**Choose one option from the following : (B1 : 24Cr, B2 : 3Cr)**

*Notice :* Subject to the number of students enrolled (to be determined at the beginning of the academic year), one of the following two options may not be organised.

**A. Multidisciplinary research (B1 : 24Cr, B2 : 3Cr)**

RADL0440-2 *Radiobiology* - Chantal HUMBLET B1 Q1 20 10 - 3

BIOC0725-2 *Stem cell biology and regenerative medicine* (english language) - Renaud VANDENBOSCH B1 Q2 20 - - 2

NUTR1004-1 *Advances II in GIT biology* (english language) - Joëlle COLLIGNON, Jean DELWAIDE, Olivier DETRY, Nathalie ESSER, Guy JERUSALEM, Edouard LOUIS, MarieAlice MEUWIS, Nicolas PAQUOT, Catherine REENAERS - [10h AUTR] B1 Q2 20 - [+] 2

NEUR2044-1 *Advances II in Neurosciences* (english language) - Julie BAKKER, Charlotte CORNIL, Laurence DELACROIX, Rachelle FRANZEN, AnneSimone PARENT, Vincent SEUTIN B1 Q2 35 - - 5

PHAR2222-1 *Advances in Pharmacology and Toxicology II* (english language) - Corinne CHARLIER, Julien HANSON - [15h AUTR] B1 Q2 35 - [+] 5

SBIM2008-1 *Advances I in Oncology* (english language) - Jorge ARRESE ESTRADA, Denis MOTTET, Nor Eddine SOUNNI - [15h AUTR] B1 Q2 35 - [+] 5

LABO0433-3 *Morphological methodology* (english language) - Sandra ORMENESE B1 Q2 12 8 - 2

IMMU0524-1 *Advances in Immunology and Vaccinology II* (english language) - Andy CHEVIGNÉ, Laurence DELACROIX, Nathalie JACOBS - [10h AUTR] B2 Q1 20 - [+] 3

**B. Multidisciplinary English (B1 : 24Cr, B2 : 3Cr)**

SBIM0494-2 *Advanced concepts in cell Biology* (english language) - Pierre CLOSE, Laurence DELACROIX, Mireille DUMOULIN, Keith DURKIN, Julien HANSON - [15h Pers. Res.] B1 Q1 15 15 [+] 4

SBIM0495-2 *Molecular and cellular basis of disease* (english language) - Jo CAERS, Pierre CLOSE, Charlotte CORNIL, Laurence DELACROIX, Mireille DUMOULIN, Keith DURKIN, Carla GOMES DA SILVA, Céline KEMPENEERS, Sabine WISLET - [40h Pers. Res.] B1 Q2 20 10 [+] 6

SBIM0496-2 *Advanced techniques for diagnosis and prognosis* (english language) - Pascal DE TULLIO, Keith DURKIN, François JOURET, Céline KEMPENEERS, Sabine WISLET, Nadia WITHOFS - [40h Pers. Res.] B1 Q2 10 10 [+] 5

SBIM0497-2 *New therapeutic approaches to disease* (english language) - Jo CAERS, Pierre CLOSE, Mireille DUMOULIN, AnneSimone PARENT, Vincent SEUTIN - [40h Pers. Res.] B1 Q2 10 10 [+] 5

SBIM0498-2 *Critical evaluation of experimental design and data* (english language) - Laurence DELACROIX, Keith DURKIN, Julien HANSON - [24h APP] B1 Q2 6 - [+] 4

SBIM0499-1 *Thematic seminars* (english language) - Pierre CLOSE - [20h SEM] B2 Q1 - - [+] 3

**Core curriculum courses (B1 : 33Cr, B2 : 57Cr)**

**Choose one of the two programmes: (B1 : 33Cr, B2 : 57Cr)**

**MASTER IN BIOMEDICINE, with focus (reformed programme) (B1 : 33Cr, B2 : 57Cr)**

*Notice* : for students enrolling for the first time in 2024-2025.

**Core curriculum compulsory courses**

GENE0431-2 *Introduction to Genomics* (english language) - Michel GEORGES - [10h APP] B1 Q1 20 - [+] 3

COMU0430-2 *Scientific communication skills* (english language) - Michael HERFS B1 Q1 10 20 - 2

STAT0420-1 *Biostatistics 2* - AnneFrançoise DONNEAU B1 Q1 15 15 - 2

BIOL0431-3 *Cellular and molecular biology of disease* (english language) - Alain CHARLOT, Laurent NGUYEN, Agnès NOËL - [20h APP] B1 Q1 20 - [+] 3

INFO9024-1 *Data interpretation in bioinformatics* (english language) - Arnaud LAVERGNE - [20h APP] B1 Q1 10 - [+] 3

SBIM2002-2 *Introduction to Oncology* (english language) - Christine GILLES, Nathalie JACOBS, Agnès NOËL, MarieJulie NOKIN, Nor Eddine SOUNNI - [4h AUTR] B1 Q1 26 - [+] 3

SBIM0439-1 *Bibliographic Research* (english language) - Nathalie JACOBS, Christel PEQUEUX B1 Q2 - - - 3

METO0822-1 *Introduction to Translational Research* (english language) - François JOURET, Laurent WEEKERS B1 Q2 30 - - 3

SBIM2031-1 *Introduction to drug development* (english language) - Pierre FRANCOITTE, Géraldine PIEL B1 Q2 20 - - 2

MSTG9107-1 *Scientific internship* (english language) - Virginie NEIRINCKX, B1 Q2 - - - 3

Christel PEQUEUX

**Common core courses**

Choose two courses from: (B1 : 6Cr)

SBIM2030-1	<i>Advances I in Clinical Biology</i> (english language) - Pablo BECKERS, Sébastien BONTEMS, Khalid EL MOUSSAOUI, Cécile MEEEX, Rosalie SACHELI	B1	Q1	15	15	-	<b>3</b>
IMMU0523-2	<i>Advances I in Immunology and Vaccinology</i> (english language) - Laurence DELACROIX, Nathalie JACOBS - [13h AUTR]	B1	Q1	12	5	[+]	<b>3</b>
SBIM2003-2	<i>Advances I in Cardiovascular Biology</i> (english language) - Mathieu LEMPEREUR - [10h AUTR]	B1	Q1	20	-	[+]	<b>3</b>
NEUR2043-2	<i>Advances I in Neurosciences</i> (english language) - Rachelle FRANZEN, Gaëtan GARRAUX, Virginie NEIRINCKX, Vincent SEUTIN	B1	Q1	26	4	-	<b>3</b>
NUTR1003-2	<i>Advances in GIT biology</i> (english language) - Laurence DELACROIX, Véronique DELCENSERIE, Nathalie ESSER, Nicolas PAQUOT, Catherine REENAERS, Bernard TAMINIAU - [5h AUTR]	B1	Q1	25	-	[+]	<b>3</b>
PHAR2221-2	<i>Advances I in Pharmacology and Toxicology</i> (english language) - Raphaël DENOZ, Julien HANSON - [10h AUTR]	B1	Q1	20	-	[+]	<b>3</b>
SBIM2008-2	<i>Advances I in Oncology</i> (english language) - Jorge ARRESE ESTRADA, Denis MOTTET, Nor Eddine SOUNNI - [12h AUTR]	B1	Q1	14	4	[+]	<b>3</b>

**MASTER IN BIOMEDICINE, with focus (transitory programme) (B1 : 33Cr, B2 : 57Cr)**

*Notice* : for students enrolled before 2024-2025.

**Core curriculum compulsory courses**

LANG0130-2	<i>Introduction to scientific seminars</i> (english language) - Sabine WISLET	B1	Q1	4	16	-	<b>2</b>
COMU0430-2	<i>Scientific communication skills</i> (english language) - Michael HERFS	B1	Q1	10	20	-	<b>2</b>
BIOL0431-2	<i>Cellular and molecular biology of disease</i> (english language) - Alain CHARIOT, Laurent NGUYEN, Agnès NOËL - [20h APP]	B1	Q1	20	-	[+]	<b>2</b>
GENE0431-1	<i>Introduction to Genomics</i> (english language) - Michel GEORGES	B1	Q1	20	-	-	<b>2</b>
STAT0420-1	<i>Biostatistics 2</i> - AnneFrançoise DONNEAU	B1	Q1	15	15	-	<b>2</b>
IMMU0523-1	<i>Advances I in Immunology and Vaccinology</i> (english language) - Laurence DELACROIX, Nathalie JACOBS - [5h AUTR]	B1	Q1	15	-	[+]	<b>2</b>
SBIM2002-1	<i>Introduction to Oncology</i> (english language) - Christine GILLES, Nathalie JACOBS, Agnès NOËL, MarieJulie NOKIN, Nor Eddine SOUNNI - [5h AUTR]	B1	Q1	15	-	[+]	<b>2</b>
SBIM2003-1	<i>Advances I in Cardiovascular Biology</i> (english language) - Mathieu LEMPEREUR - [5h AUTR]	B1	Q1	15	-	[+]	<b>2</b>
NEUR2043-1	<i>Advances I in Neurosciences</i> (english language) - Rachelle FRANZEN, Gaëtan GARRAUX, Virginie NEIRINCKX, Vincent SEUTIN - [5h AUTR]	B1	Q1	15	-	[+]	<b>2</b>
NUTR1003-1	<i>Advances in GIT biology</i> (english language) - Laurence DELACROIX, Véronique DELCENSERIE, Nathalie ESSER, Nicolas PAQUOT, Catherine REENAERS, Bernard TAMINIAU - [5h AUTR]	B1	Q1	15	-	[+]	<b>2</b>
PHAR2221-1	<i>Advances I in Pharmacology and Toxicology</i> (english language) - Raphaël DENOZ, Julien HANSON - [5h AUTR]	B1	Q1	15	-	[+]	<b>2</b>
SBIM0437-4	<i>Regulatory framework for (bio)security and management of</i>	B1	Q1	13	-	[+]	<b>1</b>

*biological risks in research and development facilities* (english language) - Emmanuelle DINON, Christine GRIGNET, Olivier THELLIN, Willy ZORZI - [2h Moni. ex.]

INFO0430-3	<i>Notions of bioinformatics</i> - Olivier PEULEN	B1	Q2	10	10	-	2
CHIM0440-2	<i>Clinical chemistry</i> - Etienne CAVALIER	B1	Q2	20	10	-	2
METO0822-1	<i>Introduction to Translational Research</i> (english language) - François JOURET , Laurent WEEKERS	B1	Q2	30	-	-	3
SBIM0439-1	<i>Bibliographic Research</i> (english language) - Nathalie JACOBS, Christel PEQUEUX	B1	Q2	-	-	-	3
STAT1750-1	<i>Multivariate statistical analysis</i> - AnneFrançoise DONNEAU	B2	Q1	15	10	-	2
MSTG9076-1	<i>Work placement</i> - COLLÉGIALITÉ, Christel PEQUEUX	B2	Q2	-	-	-	17
	<b>Corequisite :</b> MMEM9012-1 - Thesis						
MMEM9012-1	<i>Thesis</i> (english language) - COLLÉGIALITÉ, Rachelle FRANZEN	B2	TA	-	-	-	28
	<b>Prerequisite :</b> SBIM0439-1 - Bibliographic Research						

### Common core courses (B2 : 10Cr)

Choose two courses out of the following : (B2 : 10Cr)

SBIM2029-1	<i>Additional biological analyses</i> - François BOEMER, Sébastien BONTEMS, Philippe CALMANT, Benaïssa ELMOUALI, MariePierre HAYETTE, Cécile MEEUX - [20h AUTR]	B2	Q1	40	10	[+]	5
NEUR2616-1	<i>Specific questions in Neurosciences</i> (english language) - Laurence DELACROIX, Rachelle FRANZEN, Gaëtan GARRAUX, Vincent SEUTIN - [30h AUTR]	B2	Q1	18	2	[+]	5
INFO9010-1	(pas organisé en 2024-2025) <i>Medical records and hospital IT</i> - Laurent DEBRA, Philippe KOLH, Michel RAZE	B2	Q1	30	-	-	5
SBIM2017-1	<i>Oncology and Immunology</i> (english language) - Nathalie JACOBS - [10h AUTR]	B2	Q1	40	-	[+]	5
SBIM2018-1	<i>GIT from bench to bedside</i> (english language) - Olivier DETRY, MarieAlice MEUWIS, Catherine REENAERS - [10h AUTR]	B2		40	-	[+]	5
SBIM2019-1	<i>Advanced concepts in drug therapy and development</i> (english language) - Alain CHARLOT, Pierre FRANCOTTE, Géraldine PIEL - [10h AUTR]	B2	Q1	40	-	[+]	5
CHIM9314-1	<i>Mass spectrometry technologies in biomedical research and their applications in the biotech industry</i> (english language) - Marianne FILLET, Gabriel MAZZUCHELLI - [10h AUTR]	B2	Q1	30	20	[+]	5

## Bridging courses Master in biology (120 credits)

### Compulsory courses (B0 : 60Cr)

TOXI0341-3	<i>Toxicological chemistry, Part I, Toxicological chemistry</i> - Corinne CHARLIER	B0	Q1	25	-	-	4
BIOC0006-1	<i>Principles of normal and pathological cellular regulation</i> - Agnès NOËL	B0	Q1	20	-	-	2
PHAC1001-2	<i>General pharmacology</i> - Theory - Vincent SEUTIN - Practical work and tutorials in pharmacology for biomedical sciences - Vincent SEUTIN - [4h SEM]	B0	Q1	20	-	-	2
						[+]	

DEON0003-1	<i>Questions of ethics : Animal and human experimentation</i> - Jo CAERS, JeanMichel DOGNE, Pierre DRION, Ezio TIRELLI	B0	Q1	15	-	-	<b>2</b>
METO0003-1	<i>Introduction to scientific method and to experimentation</i> - Christel PEQUEUX, Barbara POLESE	B0	Q1	10	10	-	<b>1</b>
STAT1001-1	<i>Biostatistics I</i> - AnneFrançoise DONNEAU - [15h QA Sess.]	B0	Q1	15	-	[+]	<b>2</b>
LABO0001-1	<i>Learning about experimental research</i> - <i>Theory</i> - Laurence DELACROIX, Rachelle FRANZEN, Carine MUNAUT, Agnès NOËL, Christel PEQUEUX, Nor Eddine SOUNNI, Sabine WISLET - <i>Specific practical work</i> - Laurence DELACROIX, Rachelle FRANZEN, Carine MUNAUT, Agnès NOËL, Christel PEQUEUX, Nor Eddine SOUNNI, Sabine WISLET - <i>Specific practical work</i> - Laurence DELACROIX, Rachelle FRANZEN, Carine MUNAUT, Agnès NOËL, Christel PEQUEUX, Nor Eddine SOUNNI, Sabine WISLET	B0	Q1	10	-	-	<b>9</b>
INFO9021-1	<i>Principles of programming Part 2 - Algorithmics and programming</i> - Christophe POULET	B0	Q1	10	10	-	<b>2</b>
LANG6002-1	<i>Advanced English for Biomedical Research : Writing</i> (english language) - Yasmine BADIR, Ellen HARRY	B0	Q1	-	30	-	<b>2</b>
NEUR2615-1	<i>Introduction to neurosciences</i> - Laurence DELACROIX, Rachelle FRANZEN, Gaëtan GARRAUX, Vincent SEUTIN	B0	Q1	40	-	-	<b>4</b>
IMMU0522-1	<i>Immunopathology</i> - Christophe DESMET, Michel MOUTSCHEN - [7h SI]	B0	Q2	10	-	[+]	<b>2</b>
MICR0330-4	<i>Medical microbiology</i> - MariePierre HAYETTE - [7h SI]	B0	Q2	25	10	[+]	<b>3</b>
CHIM0430-1	<i>Elements of analytical chemistry</i> - Marianne FILLET, AnneCatherine SERVAIS	B0	Q2	20	40	-	<b>4</b>
CHIM0217-3	<i>Principles of clinical chemistry</i> - Etienne CAVALIER	B0	Q2	20	-	-	<b>2</b>
LABO0431-1	<i>Integrated practical work</i> - Agnès NOËL, MarieJulie NOKIN	B0	Q2	5	35	-	<b>3</b>
SBIM0491-1	<i>Virology Part 2</i> - Nathalie JACOBS	B0	Q2	20	-	-	<b>2</b>
BIOC1004-2	<i>Biochemistry and normal and pathological human physiology</i> - <i>Cardiovascular system</i> - Philippe KOLH - <i>Respiratory system</i> - Didier CATALDO - <i>Nervous system</i> - Gaëtan GARRAUX - <i>Nervous system - specific concepts</i> - Gilles VANDEWALLE - [2h Pr.]	B0	Q2	10	-	-	<b>5</b>
BIOC1004-3	<i>Biochemistry and normal and pathological human physiology</i> - <i>Endocrine system and metabolism</i> - Philippe KOLH - <i>Digestive system</i> - Didier CATALDO - <i>Nephro-urinary system</i> - Didier CATALDO	B0	Q2	15	-	-	<b>4</b>
INFO9022-1	<i>Systems architecture and IT networks, part 1</i> - Vân Anh HUYNHTHU	B0	Q2	15	15	-	<b>3</b>
LANG6003-1	<i>Advanced English for Biomedical Research: Speaking</i> (english language) - Yasmine BADIR, Ellen HARRY	B0	Q2	-	30	-	<b>2</b>