

SBIM2M - Introduction

Introduction

CORE COURSES

- Mandatory
- ✂ Optional
- △ Not offered in 2024-2025
- ⊙ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🚫🌐 Not open to incoming exchange students
- 🇫🇷 Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Year

1 2

o Mémoire

○ WSBIM2198	Pre-thesis in biomedical sciences	Charles De Smet (coord.)	🇫🇷 [q2] [] [9 Credits] 🌐 > English-friendly	x

LIST OF FOCUSES

- > **Research Focus** [en-prog-2024-sbim2m-wsbim200a]
- > **Professional Focus : Human Nutrition** [en-prog-2024-sbim2m-wsbim201s]
- > **Professional Focus : Toxicology** [en-prog-2024-sbim2m-wsbim202s]
- > **Professional Focus : Clinical Biomedical Sciences** [en-prog-2024-sbim2m-wsbim203s]

RESEARCH FOCUS [30.0]

- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
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Click on the course title to see detailed informations (objectives, methods, evaluation...)

Year

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o Content:


o Cours obligatoire (3 credits)

○ WSBIM2280	Scientific communication workshop	Luc Bertrand Cyril Corbet Charles De Smet (coord.) Wen-Hui Lien Nisha Limaye	EN [q1] [30h] [3 Credits] 🌐	X
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o Cours au choix de systèmes expérimentaux (3 credits)

L'étudiant choisit un cours parmi les 2 suivants.



				Year	
				1	2
⊗ WSBIM1220	Neurobiology	Emmanuel Hermans (coord.) Pascal Kienlen-Campard Marcus Missal	FR [q2] [30h] [3 Credits]  > English-friendly	x	
⊗ WSBIM2152					

PROFESSIONAL FOCUS : TOXICOLOGY [30.0]

- Mandatory
- ✂ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered the following year
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- △ ⊕ Not offered in 2024-2025 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🌐 Not open to incoming exchange students
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

[Click on the course title to see detailed informations \(objectives, methods, evaluation...\)](#)

Year

PROFESSIONAL FOCUS : CLINICAL BIOMEDICAL SCIENCES [30.0]

- Mandatory
 - ✘ Optional
 - △ Not offered in 2024-2025
 - Not offered in 2024-2025 but offered the following year
 - ⊕ Offered in 2024-2025 but not the following year
 - △ ⊕ Not offered in 2024-2025 or the following year
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● WMDS2223	Secteur oncologie	Martine Berlière
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o Démarche diagnostique (6 credits)

○ WMED2331	Stratégie d'utilisation de l'imagerie médicale et de la biologie clinique	Emmanuel Coche Dana Ioana Dumitriu Latifa Fellah Isabelle Leconte Frédéric Lecouvet Renaud Menten (coord.) Vassiliki Pasoglou Maximilien Thoma Jean Cyr Yombi	PR [q2] [16.5h] [3 Credits]		X
○ WESP2234	Clinical decision making	Andrea Penalzoza-Baeza Annie Robert (coord.) Kiswendsida Clovis Sawadogo	PR [q1] [30h] [3 Credits]		X

o Evaluation du risque dans les études cliniques (6 credits)

○ WFSP2218	Longitudinal analysis: linear, logistic and Poisson regression	Annie Robert	PR [q1] [20h+20h] [3 Credits]		X
○ WSBIM2145	Linear multi-predictor models applied to the health sciences	Annie Robert	PR [q1] [30h+30h] [3 Credits]		X

o Autres enseignements obligatoires (4 credits)

○ WESP2232P	Genomic epidemiology	Catherine Legrand Alexandre Persu Annie Robert (coord.) Miikka Vakkula	PR [q2] [15h+15h] [2 Credits]		X
○ WFSP2228P	Systematic literature review, realist evaluation and meta-analysis	Annie Robert (coord.) Kiswendsida Clovis Sawadogo	PR [q2] [20h+10h] [2 Credits]		X

OPTIONS [20.0]

Offered to incoming exchange students

- > Option **cancérologie** [en-prog-2024-sbim2m-wsbim908o]
- > Option **neurosciences** [en-prog-2024-sbim2m-wsbim907o]
- > Option **pathophysiologie cellulaire et moléculaire** [en-prog-2024-sbim2m-wsbim904o]
- > Option **nutrition humaine** [en-prog-2024-sbim2m-wsbim903o]
- > Option **toxicologie** [en-prog-2024-sbim2m-wsbim905o]
- > Option **sciences biomédicales cliniques** [en-prog-2024-sbim2m-wsbim906o]

OPTION CANCÉROLOGIE [20.0]

Offered in 2024-2025 but not the following year

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Year

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WFARM1375	<p>Drugs and sustainable development <i>Ce cours ne peut être choisi que par les étudiants inscrits en master 60.</i></p>	<p>Nathalie Delzenne (coord.) Raphaël Frédéric Pauline Modrie Anne Spinewine Sandy Tubeuf Françoise Van Bambeke</p>	<p>PK [q2] [10h+20h] [3 Credits]</p>	<p>x</p>
LBIR2050A	<p>Challenges of sustainable development and transition <i>Ce cours ne peut être choisi que par les étudiants inscrits en master 60.</i></p>	<p>Valentin Couvreur Nathalie Delzenne Valérie Swaen</p>	<p>PK [q1 or q2] [22.5h] [3 Credits]</p>	<p>x</p>
WSBIM2229	<p>Interdisciplinary program in translational medicine <i>Ce cours ne peut être choisi que par les étudiant inscrits en master 120. Ce programme interuniversitaire est financé par le Fond Baillet Latour. Plus de renseignements sur le site.</i> <i>L'intégration de ce cours dans votre PAE sera hors progression. Les crédits acquis n'entreront pas en considération dans l'acquisition des 120 crédits obligatoires pour l'obtention de votre diplôme de master.</i></p>		<p>PK [q2] [50h] [5 Credits]</p>	<p>x</p>

OPTION NEUROSCIENCES [20.0]

- Mandatory
- ⊗ Optional
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- Activity with requisites
- 🌐 Open to incoming exchange students
- 🚫🌐 Not open to incoming exchange students
- (FR) Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Year

1 2

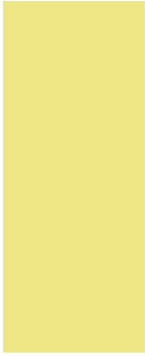
o **Content:**

● WSBIM2154	Neuroanatomy and anatomo-functional imaging techniques		(FR) [q1] [30h] [4 Credits] 🌐	X	
● WSBIM2155	Developmental neurobiology	Fadel Tissir	(FR) [q1] [30h] [4 Credits] 🌐	X	
● WSBIM2156	Animal and human electrophysiology project	Philippe Gailly (coord.) Marcus Missal André Mouraux	(FR) [q1] [20h] [2 Credits] 🌐	X	
⊗ WSBIM2251	Neural networks and Deep Learning ■				

OPTION PATHOPHYSIOLOGIE CELLULAIRE ET MOLÉCULAIRE [20.0]

- Mandatory
- ✘ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🌐 Not open to incoming exchange students

[FR]



OPTION NUTRITION HUMAINE [20.0]

- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
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- △ ⊕ Not offered in 2024-2025 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🚫🌐 Not open to incoming exchange students
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Year

1 2

o Content:

Si une option comprend une UE déjà présente dans la finalité choisie par l'étudiant, il devra, avec l'accord de la faculté, prendre un autre cours afin que l'option totalise 20 crédits au minimum.

o Cours au choix

Pour compléter l'option, l'étudiant choisit des cours pour un nombre de crédits permettant d'atteindre les minimum 20 crédits d'option. Pour les étudiants du master 120, si certains cours que choisit l'étudiant sont offerts dans une finalité spécialisée, le recouvrement, entre les cours de cette option et les cours d'une finalité spécialisée, ne peut excéder 6 crédits.

o Cours au choix (10 credits)

L'étudiant choisit des cours pour atteindre un minimum de 10 crédits, parmi les cours proposés dans la liste ci-dessous, complétés de cours proposés dans tout autre programme de la faculté. Ce choix sera validé par la commission d'enseignement de la finalité.

⊗ WSBIM2230	Biochemistry of inborn errors of metabolism	Joseph Dewulf (coord.) Marie-Cécile Nassogne	FR [q1] [30h] [3 Credits] 🌐	X
⊗ WSBIM2290	Introduction to laboratory animal science	Jean-Paul Dehoux	FR [q1] [37h] [3 Credits] 🌐	X
⊗ WFARM2149	Pharmaceutical approach in nutrition	Nathalie Delzenne	FR [q2] [30h+15h] [3 Credits] 🌐	

				Year	
				1	2
⌘ LBIR2050A	Challenges of sustainable development and transition <i>Ce cours ne peut être choisi que par les étudiants inscrits en master 60.</i>	Valentin Couvreur Nathalie Delzenne Valérie Swaen	PK [q1 or q2] [22.5h] [3 Credits]	x	

o Stage obligatoire au choix (10 credits)

L'étudiant inscrit au Master 120 choisit un stage parmi les trois suivants. L'étudiant inscrit au Master 60 remplace ces activités de l'option par tout autre cours proposé dans les finalités et les options de master en sciences biomédicales.

⌘ WSBIM2271	International research internship	Pascal Kienlen-Campard (coord.)	EN [q2] [] [10 Credits]		x
⌘ WSBIM2272	Work placement	Anabelle Decottignies (coord.)	EN [q2] [] [10 Credits]		x
⌘ WSBIM2273	Research placement	Anabelle Decottignies (coord.)	EN [q2] [] [10 Credits]		x

OPTION SCIENCES BIOMÉDICALES CLINIQUES [20.0]

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Click on the course title to see detailed informations (objectives, methods, evaluation...)

Year

1 2

o Content:

Si une option comprend une UE déjà présente dans la finalité choisie par l'étudiant, il devra, avec l'accord de la faculté, prendre un autre cours afin que l'option totalise 20 crédits au minimum.

o Métabolisme et pathologies particulières

● WSBIM2230	Biochemistry of inborn errors of metabolism	Joseph Dewulf .33200 1 1 1 h W n 1 G [] 0 d 2 w 0 0 m sd 0 0 1 481ph Dewulf 1 m
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Supplementary classes

To access this Master, students must have a good command of certain subjects. If this is not the case, in the first annual block of their Masters programme, students must take supplementary classes chosen by the faculty to satisfy course prerequisites.

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○ Finalités

⊗ -

L'étudiant souhaitant intégrer la finalité approfondie sera invité à suivre le module complémentaire constitué des unités d'enseignement suivantes:

○ Cours de base

○ WFARM1221S	Biochemistry and molecular biology	Nathalie Delzenne (coord.)	FR [q1] [50h+10h] [6 Credits] 🌐
○ WFARM1213	Human physiology and basics of physiopathology	Olivier Feron (coord.) Emmanuel Hermans Jean-Christophe Jonas (compensates Mandy Grootaert)	FR [q2] [60h] [6 Credits] 🌐 > English-friendly
○ WMDS1230	Biologie cellulaire médicale et expérimentale	Stefan Constantinescu (coord.) Christophe Pierreux Donatienne Tyteca	FR [q1] [30h+20h] [4 Credits] 🌐
○ LANGL2454	English for biomedical students	Nicholas Gibbs Nevin Serbest (coord.)	EN [q2] [30h] [3 Credits] 🌐
○ WSBIM1334	general immunology	Isabelle Leclercq Sophie Lucas (coord.) Jean-Christophe Renaud Rémy Ruelle Benoit Van den Eynde Nathalie Vigneron (compensates Sophie Lucas)	FR [q1] [65h] [6 Credits] 🌐 > English-friendly
○ WMD1006	Cytology and general histology	Christophe Pierreux	FR [q2] [10h+40h] [5 Credits] 🌐
○ WFARM1282	General microbiology	Thomas Michiels	FR [q1] [20h+15h] [3 Credits] 🌐
○ WSBIM1226	Molecular biology (including epigenetics) and tutorials	Charles De Smet Frédéric Lemaigre Thomas Michiels (coord.)	FR [q1] [30h+10h] [3 Credits] 🌐
○ WSBIM1320	Introduction to experimental approaches in cellular and molecular biology	Luc Bertrand Anne des Rieux Sandrine Horman Donatienne Tyteca (coord.)	FR [q2] [30h] [3 Credits] 🌐
○ WSBIM1302	Molecular Virology	Thomas Michiels	FR [q1] [25h] [3 Credits] 🌐
○ WSBIM1382	Genetics and applied biotechnology	Luc Bertrand (coord.) Laure Dumoutier Géraldine Laloux Nisha Limaye	FR [q1] [30h] [3 Credits] 🌐 > English-friendly

○
WSBIM1211

Methodolgy of cell and molecular biology

⌘ WESP2123	Principles of clinical trials	Diego Castanares Zapatero Annie Robert (coord.) Xavier Stephenne (compensates) Françoise Smets	PR [q1] [20h+10h] [4 Credits] 🌐
⌘ WSBIM1211	Methodolgy of cell and molecular biology	Guido Bommer Jean-François Collet (coord.) Stefan Constantinescu Donatienne Tyteca	PR [q2] [22.5h] [3 Credits] 🌐
⌘ WSBIM1323	Systemic neuroscience	Philippe Gailly Pascal Kienlen-Campard Marcus Missal (coord.)	

○ Cours au choix

L'étudiant est invité à choisir 3 unités d'enseignement parmi la liste proposée ci-dessous

⌘	Molecular Virology
WSBIM1302	

○ WSBIM1320	Introduction to experimental approaches in cellular and molecular biology	Luc Bertrand Anne des Rieux Sandrine Horman Donatienne Tyteca (coord.)	FR [q2] [30h] [3 Credits] 🌐
○ WSBIM1205	Introduction to toxicology	Lidvine Boland Nathalie Delzenne Laure Elens Vincent Haufroid François Huaux Violaine Verougstraete Alexis Wérion	FR [q2] [30h] [3 Credits] 🌐
○ WFARM1305	Elements of General Pathology	Mélanie Dechamps Olivier Feron (coord.)	FR [q2] [30h] [3 Credits] 🌐 > <i>English-friendly</i>
○ WSBIM1302	Molecular Virology	Thomas Michiels	FR [q1] [25h] [3 Credits] 🌐
○ WMDS1237D	Pharmacologie générale (partim sciences dentaires)	Emmanuel Hermans (coord.)	FR [q1] [20h] [2 Credits] 🌐

○

Course prerequisites

The **table** below lists the activities (course units, or CUs) for which there are one or more prerequisites within the programme, i.e. the programme CU for which the learning outcomes must be certified and the corresponding credits awarded by the jury before registering for that CU.

These activities are also identified in the **detailed programme**: their title is followed by a yellow square.

Prerequisites and student's annual programme

As the prerequisite is for CU registration purposes only, there are no prerequisites within a programme year. Prerequisites are defined between CUs of different years and therefore influence the order in which the student will be able to register for the programme's CUs.

In addition, when the jury validates a student's individual programme at the beginning of the year, it ensures its coherence, meaning that it may:

- require the student to combine registration in two separate CUs which it considers necessary from a pedagogical point of view.
- transform a prerequisite into a corequisite if the student is in the final year of a degree course.

For more information, please consult the [Academic Regulations and Procedures](#).

Prerequisites list

- WSBIM2237** "Nutrition et environnement : aspect sociétal" has prerequisite(s) WSBIM2181 ET WSBIM2134 ET WSBIM2136 ET WSBIM2137 ET WSBIM2138
- WSBIM2181 - Molecular and cellular aspects of nutrition
 - WSBIM2134 - Pathophysiology of nutrition
 - WSBIM2136 - Clinical nutrition
 - WSBIM2137 - Nutrition and environment: biological and toxicological aspects
 - WSBIM2138 - Innovation and research in nutrition
- WSBIM2238** "Nutrition spécialisée" has prerequisite(s) WSBIM2181 ET WSBIM2134 ET WSBIM2136 ET WSBIM2137 ET WSBIM2138
- WSBIM2181 - Molecular and cellular aspects of nutrition
 - WSBIM2134 - Pathophysiology of nutrition
 - WSBIM2136 - Clinical nutrition
 - WSBIM2137 - Nutrition and environment: biological and toxicological aspects
 - WSBIM2138 - Innovation and research in nutrition
- WSBIM2239** "Nutrition et santé publique" has prerequisite(s) WSBIM2181 ET WSBIM2134 ET WSBIM2136 ET WSBIM2137 ET WSBIM2138
- WSBIM2181 - Molecular and cellular aspects of nutrition
 - WSBIM2134 - Pathophysiology of nutrition
 - WSBIM2136 - Clinical nutrition
 - WSBIM2137 - Nutrition and environment: biological and toxicological aspects
 - WSBIM2138 - Innovation and research in nutrition
- WSBIM2244** "Special issues in cancerology" has prerequisite(s) WSBIM2280 ET (WSBIM2112 OU WSBIM2151) ET WSBIM2141 ET WSBIM2142 ET WSBIM2143 ET WSBIM2144
- WSBIM2280 - Scientific communication workshop
 - WSBIM2112 - Cell and molecular biology: experimental systems
 - WSBIM2151 - Experimental approaches in neuroscience
 - WSBIM2141 - Intercellular signaling and tumor biology
 - WSBIM2142 - Tumor genetics and epigenetics
 - WSBIM2143 - Causes and risk factors for cancer
 - WSBIM2144 - Cancer diagnosis and therapy
- WSBIM2245** "In-session seminar in biomedicine" has prerequisite(s) WSBIM2280 ET (WSBIM2112 OU WSBIM2151) ET WSBIM2141 ET WSBIM2142 ET WSBIM2143 ET WSBIM2144
- WSBIM2280 - Scientific communication workshop
 - WSBIM2112 - Cell and molecular biology: experimental systems
 - WSBIM2151 - Experimental approaches in neuroscience
 - WSBIM2141 - Intercellular signaling and tumor biology
 - WSBIM2142 - Tumor genetics and epigenetics
 - WSBIM2143 - Causes and risk factors for cancer
 - WSBIM2144 - Cancer diagnosis and therapy
- WSBIM2251** "Neural networks and Deep Learning" has prerequisite(s) WSBIM2280 ET (WSBIM2112 OU WSBIM2151) ET WSBIM2154 ET WSBIM2155 ET WSBIM2156
- WSBIM2280 - Scientific communication workshop
 - WSBIM2112 - Cell and molecular biology: experimental systems
 - WSBIM2151 - Experimental approaches in neuroscience
 - WSBIM2154 - Neuroanatomy and anatomo-functional imaging techniques
 - WSBIM2155 - Developmental neurobiology
 - WSBIM2156 - Animal and human electrophysiology project
- WSBIM2253** "Advanced issues in cognitive neuroscience" has prerequisite(s) WSBIM2280 ET (WSBIM2112 OU WSBIM2151) ET WSBIM2154 ET WSBIM2155 ET WSBIM2156
- WSBIM2280 - Scientific communication workshop

- WSBIM2112 - [Cell and molecular biology: experimental systems](#)
 - WSBIM2151 - [Experimental approaches in neuroscience](#)
 - WSBIM2154 - [Neuroanatomy and anatomo-functional imaging techniques](#)
 - WSBIM2155 - [Developmental neurobiology](#)
 - WSBIM2156 - [Animal and human electrophysiology project](#)
- WSBIM2255** "[Seminar on neurological and psychiatric disease](#)" has prerequisite(s) WSBIM2280 ET (WSBIM2112 OU WSBIM2151) ET WSBIM2154 ET WSBIM2155 ET WSBIM2156
- WSBIM2280 - [Scientific communication workshop](#)
 - WSBIM2112 - [Cell and molecular biology: experimental systems](#)
 - WSBIM2151 - [Experimental approaches in neuroscience](#)
 - WSBIM2154 - [Neuroanatomy and anatomo-functional imaging techniques](#)
 - WSBIM2155 - [Developmental neurobiology](#)
 - WSBIM2156 - [Animal and human electrophysiology project](#)
- WSBIM2271** "[International research internship](#)" has prerequisite(s) WSBIM2198 ET WSBIM2197
- WSBIM2198 - [Pre-thesis in biomedical sciences](#)
 - WSBIM2197 - [Laboratory internship \(part 1\)](#)
- WSBIM2272** "[Work placement](#)" has prerequisite(s) WSBIM2198 ET WSBIM2197
- WSBIM2198 - [Pre-thesis in biomedical sciences](#)
 - WSBIM2197 - [Laboratory internship \(part 1\)](#)
- WSBIM2273** "[Research placement](#)" has prerequisite(s) WSBIM2198 ET WSBIM2197
- WSBIM2198 - [Pre-thesis in biomedical sciences](#)
 - WSBIM2197 - [Laboratory internship \(part 1\)](#)
- WSBIM2284** "[Cellular and molecular pathophysiology of human diseases \(Part 2\)](#)" has prerequisite(s) WSBIM2280 ET (WSBIM2112 OU WSBIM2151)
- WSBIM2280 - [Scientific communication workshop](#)
 - WSBIM2112 - [Cell and molecular biology: experimental systems](#)
 - WSBIM2151 - [Experimental approaches in neuroscience](#)
- WSBIM2285** "[Biomedical project design, Pathophysiology](#)" has prerequisite(s) WSBIM2280 ET (WSBIM2112 OU WSBIM2151)
- WSBIM2280 - [Scientific communication workshop](#)
 - WSBIM2112 - [Cell and molecular biology: experimental systems](#)
 - WSBIM2151 - [Experimental approaches in neuroscience](#)
- WSBIM2297** "[Stage en laboratoire \(2e partie\)](#)" has prerequisite(s) WSBIM2197
- WSBIM2197 - [Laboratory internship \(part 1\)](#)
- WSBIM2298** "[Mémoire expérimental en sciences biomédicales](#)" has prerequisite(s) WSBIM2198
- WSBIM2198 - [Pre-thesis in biomedical sciences](#)

The programme's courses and learning outcomes

For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies the the skills expected of every graduate on completion of the programme. Course unit descriptions specify targeted learning outcomes, as well as the unit's contribution to reference framework of learning outcomes.

intégrés dans le programme du
master

Entity	
Structure entity	SSS/FASB/SBIM
Denomination	(SBIM)
Faculty	Faculty of Pharmacy and Biomedical Sciences (FASB)
Sector	Health Sciences (SSS)
Acronym	SBIM
Postal address	Avenue Mounier 73 - bte B1.73.04 1200 Woluwe-Saint-Lambert Tel:

