

***Master thesis research in
collaboration with research
institutions***

- 1. KU Leuven**
2. UMonS
3. UGent
4. ULiège
5. UAntwerpen
6. UNamur
7. UC Louvain
8. ULB
9. VUB

***Unique (International) Master
programs***

10. Oceans and Lakes
11. TROPIMUNDO
12. IMBRSea
13. Sustainable Development
14. Nematology
15. Aquaculture

KU LEUVEN

Biology at KU Leuven

Master of Biology

Master of Sustainable Development



Highly innovative university...

Four years in a row: KU Leuven once again tops Reuters ranking of Europe's most innovative universities

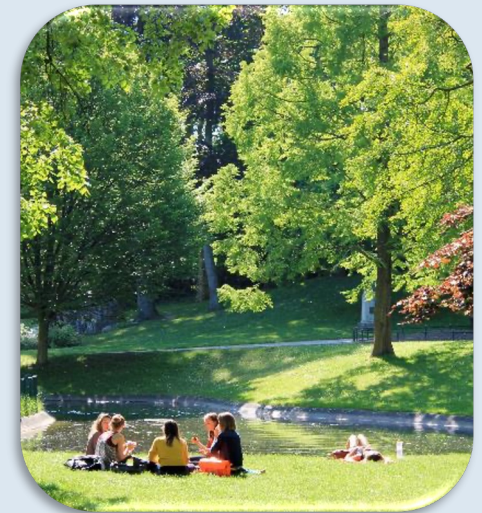
📅 30 Apr 2019

KU Leuven takes 45th place in Times Higher Education World University Rankings

📅 28 Sep 2023



...in a beautiful, green student city



Why Master of Biology at KU Leuven?

100% English master with a **broad biological foundation** preparing you for diverse career paths on the job market...

...with the flexibility to choose additional courses depending on **your field of interest and needs**.

Common Core

Advanced Biology

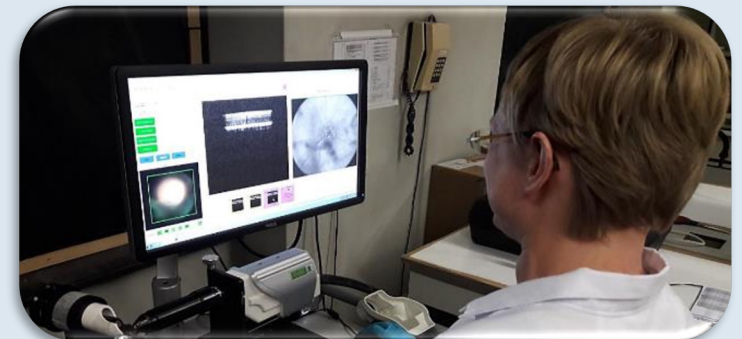
Elective Courses

Master's Thesis

Track : Ecology, Evolution, Conservation



Track : Molecular Biology and Physiology

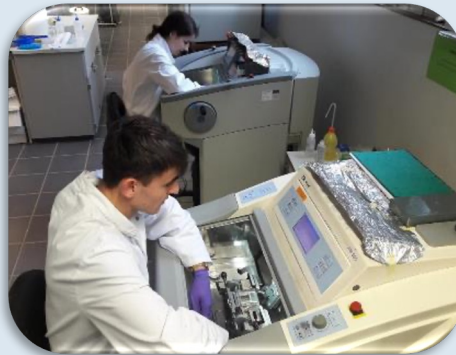
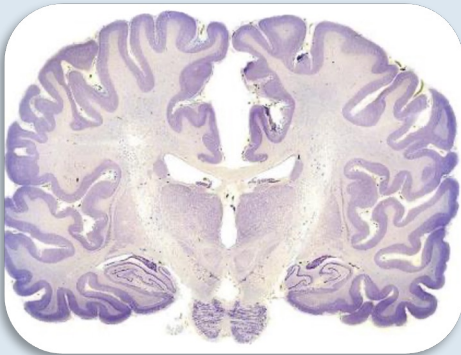


Why Master of Biology at KU Leuven?

Be a part of **groundbreaking research**.

Master's Thesis

Animal Physiology and Neurobiology



Ecology, Evolution & Biodiversity Conservation



Molecular Biotechnology of Plants and Micro-organisms



Why Master of Biology at KU Leuven?

Take the opportunity to do an **internship** in a spinoff or a global company across Belgium (only part of **Dutch Master**).

Program Counselor: Prof. Steven Van Belleghem

steven.vanbelleghem@kuleuven.be

Program Director: Prof. Filip Rolland

filip.rolland@kuleuven.be

ISP Contact: Bieke Dutoit

bieke.dutoit@kuleuven.be

Visit us @ posters for more information



Why Master of Sustainable Development?

Research-driven training of the sustainability leaders of the future.

Interdisciplinary program bridging societal & ecological sustainability.

Includes **field course** in Vietnam and **internship** in a company or scientific institution.

Prof. Constanza Parra
constanza.parra@kuleuven.be

Visit us @ posters for more information



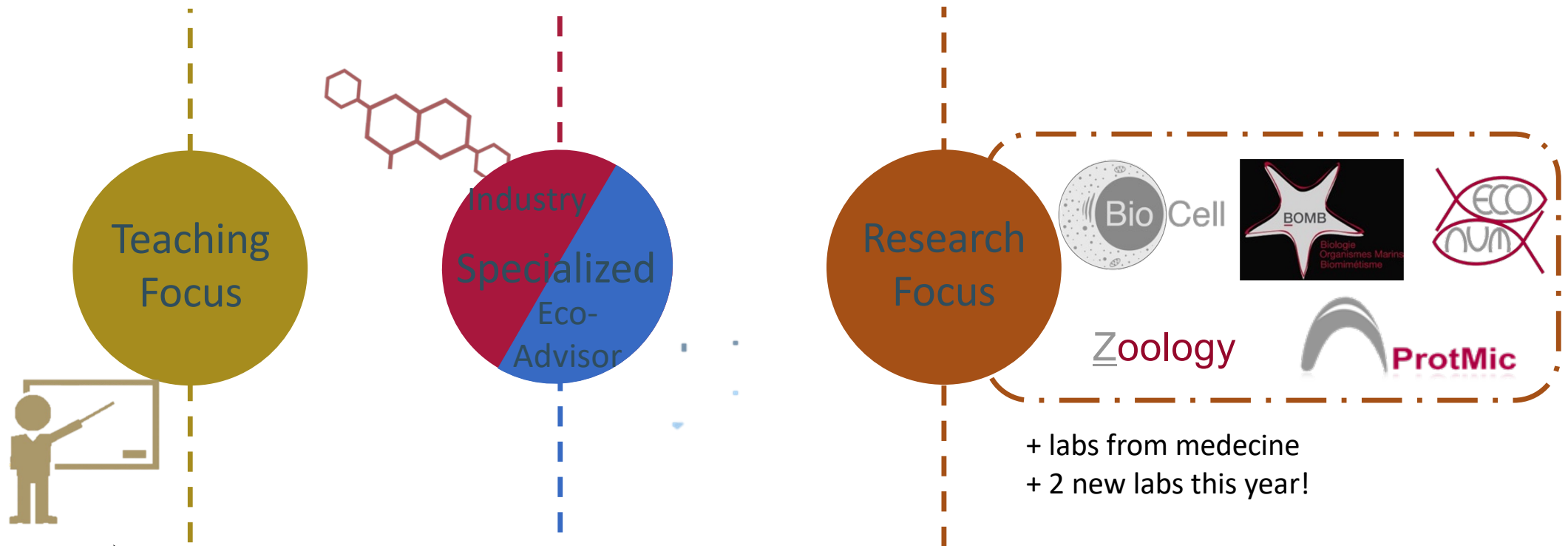
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➤ Biochemistry, Cellular & Molecular Biology

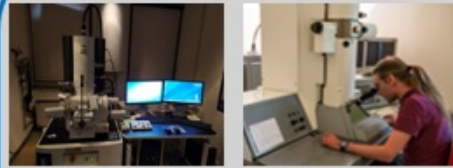


➤ Biology of Organisms & Ecology

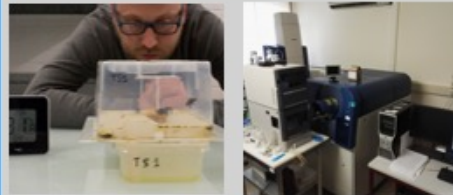
MASTER IN BIOLOGY



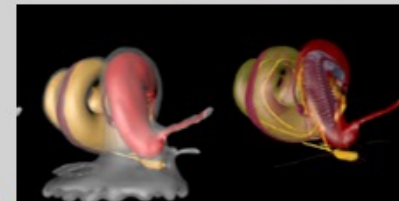
Research and teaching in
one campus



Specific equipment



New teaching approaches



International



MASTER IN BIOLOGY

- Human-scaled university

↳ 9000 students + 500 PhD students

- Green campus



- Excellence in Research

complexys
INSTITUT DE RECHERCHE
SUR LES SYSTEMES COMPLEXES
DE L'UMONS

biosciences
INSTITUT DE RECHERCHE EN BIOSCIENCES
DE L'UMONS

santé

matériaux
INSTITUT DE RECHERCHE
EN SCIENCE ET INGENIERIE DES MATERIAUX
DE L'UMONS

humanOrg
INSTITUT DE RECHERCHE
EN DEVELOPPEMENT HUMAIN
ET DES ORGANISATIONS DE L'UMONS

inforTech
INSTITUT DE RECHERCHE
EN TECHNOLOGIES DE L'INFORMATION
ET SCIENCES DE L'INFORMATIQUE DE L'UMONS

risques
INSTITUT DE RECHERCHE EN SCIENCES
ET MANAGEMENT DES RISQUES
DE L'UMONS

numediart
INSTITUT DE RECHERCHE POUR LES TECHNOLOGIES CREATIVES DE L'UMONS

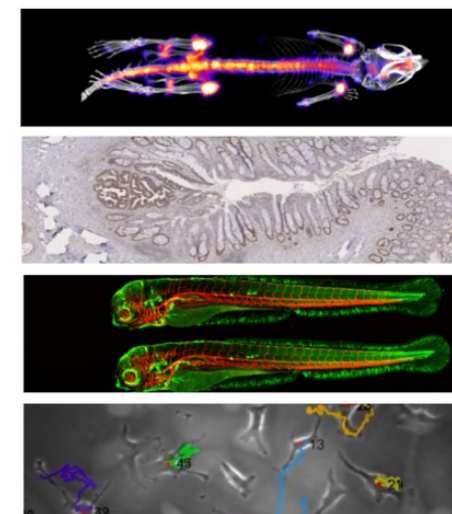
langage

énergie
INSTITUT DE RECHERCHE EN ENERGIE
DE L'UMONS





New Master In Belgium !



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Biology Master degrees - UGent





GENERAL

RESEARCH

Thesis

General

Research

Functional Biology

Major

Global Change Ecology

Biodiversity & Evolutionary Biology

Research

Economy and Business Management

Education

Minor

LIMNOLOGY



Terrestrial
Ecology



Marine Biology
Ghent University

Nematology

F P B
FUNCTIONAL
PLANT BIOLOGY



Braeckman Lab

Evolution and Optics
of Nanostructures



RESEARCH GROUP
PHYCOLOGY



international competence: fully English Research MSc

Major programs

Compulsory courses (all majors, 18 ECTS)

Advanced Biostatistics (5)

Computational Biosciences (5)

Academic Grant Writing (3)

Scientific Communication (5)

Major specific courses (all majors, 42 ECTS)

See posters



optional courses from this list...

Minor (30 ECTS)

2.1.1 Elective Courses Research

Subscribe to no more than 30 credit units from the following list.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004098 Professional Internship I [nl] Luc Lens -- Department of Biology	5		2	A:J	150
2	C004099 Professional Internship II [nl] Luc Lens -- Department of Biology	10		2	A:J	300
3	C004100 International Project Marleen De Troch -- Department of Biology	5			A:J	150
4	C002755 Biological Excursions in the Human Brain Robrecht Raedt -- Department of Head and Skin	5			(A:2) ^d	135
5	C004082 Evolution of Primates and Paleo-anthropology Dominique Adriaens -- Department of Biology	3			A:2 ^a	75
6	C002769 Immunology and Pathology Martin Guilliams -- Department of Molecular Biology	5			A:2	135
7	C002770 Insect Physiology [nl] Dirk de Graaf -- Department of Biochemistry, Physiology and Microbiology	5			A:1 ^a	135
8	C002387 International Course Ann Vanreusel -- Department of Biology	5			A:J	150
9	C004466 Limnology Dirk Verschuren -- Department of Biology	4			A:2	120
10	C003874 Marine Ecology Ann Vanreusel -- Department of Biology	6			A:1	150

...or any other Flemish university course

Professional internships

Equivalent to 3-6 course weeks



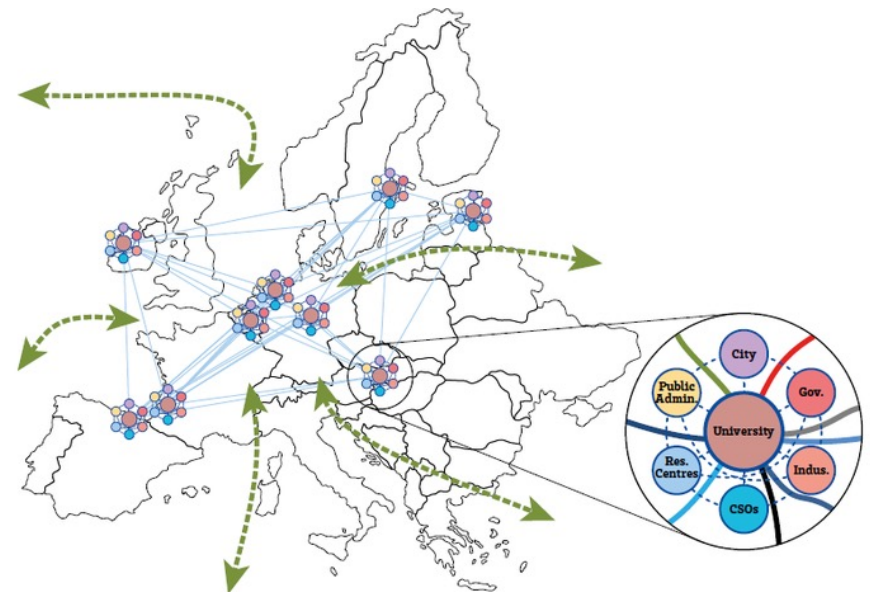
International courses

International experience

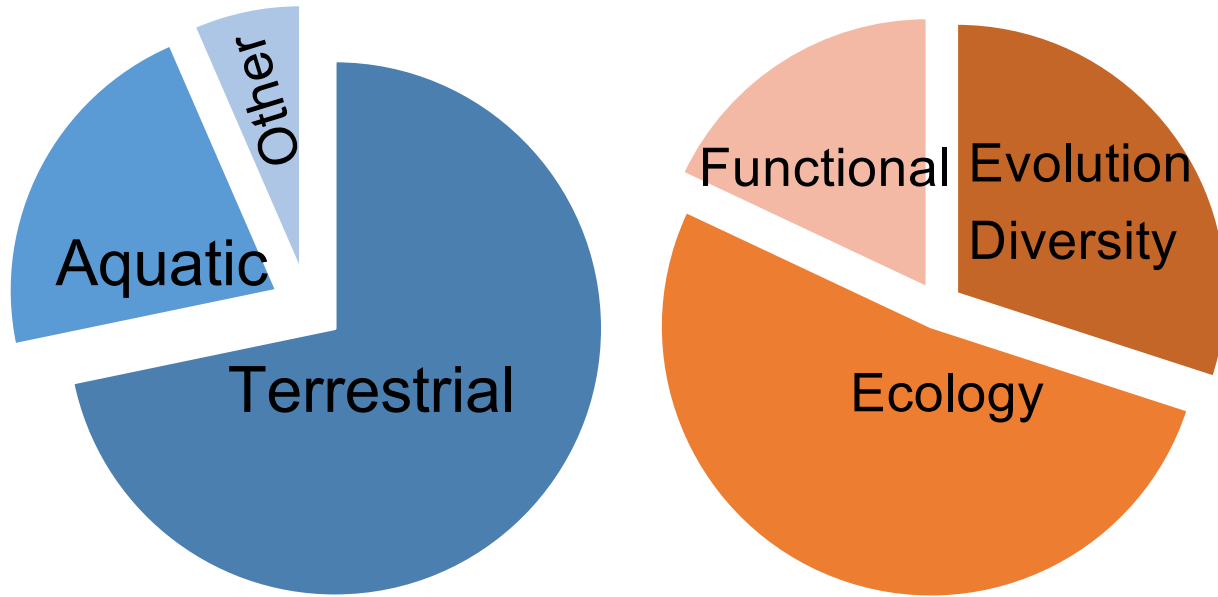
International networking

Summer schools

2-3 week intensive specialist courses



What students chose for a Master thesis



Research

- Ageing physiology and molecular evolution
- Evolutionary Morphology of Vertebrates
- Evolutionary Developmental Biology
- Evolution and Optics of Nanostructures
- Functional Plant Biology
- Limnology
- Marine Biology
- All our research groups

Education

- Bachelor programme
- Master programmes
- PhD
- Course schedules
- Examinations
- Bachelor- and Master's dissertations
- All about education



International MSc in Agro- and Environmental Nematology

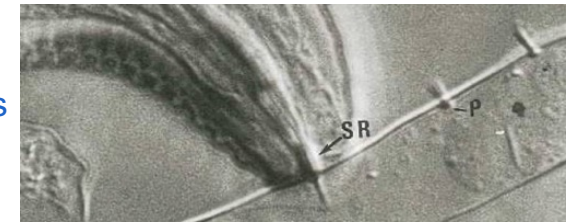
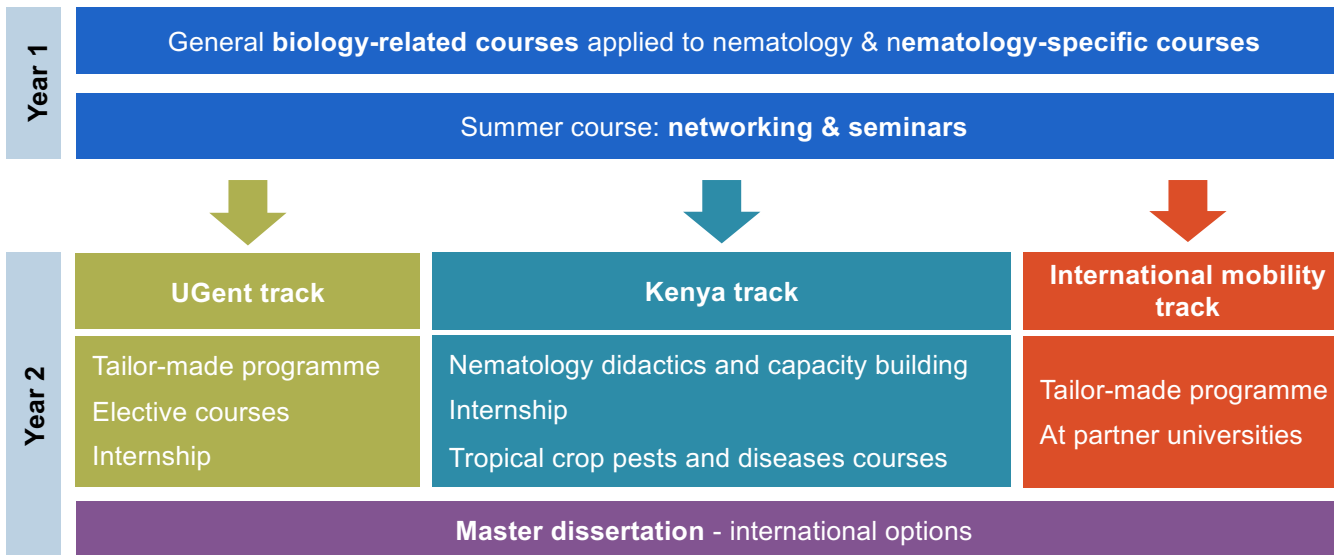
Topics:

Food safety & sustainable pest management - Diversity & ecosystem functioning

Nematodes as **plant-parasites**, **biological control** agents, **bioindicators** and **model** systems

About the master programme:

- Globally unique
- International guest experts
- Practical experience, company visits, internship, field experience



www.imanema.ugent.be
nematology.gent@ugent.be



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MASTERS IN BIOLOGY

1 University, 3 cities, 4 campus



Master Day in Biology 2023

MASTERS IN BIOLOGY



Biology of
Organisms
and
Ecology



Environ-
mental
Science and
Management



Oceano-
graphy
&
MER



Biochemis-
try &
Molecular
and Cell
Biology



Bioinfor-
matics
and
Modelling

Modeling and understanding complex biological systems with supercomputers

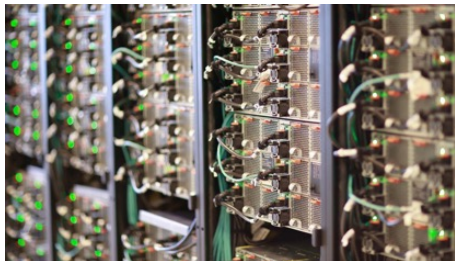
120 ECTS (2 years) $\begin{cases} \text{B1} = \text{Courses "tools" + Computer Practicals + projects} \\ \text{B2} = \text{Programming courses + Computer Practicals + Thesis (5 months)} \end{cases}$

75 ECTS (1 year) $\begin{cases} \text{B2} = \text{Bioinformatic courses (max. 15 ECTS from B1)} \\ \text{B2} = \text{Programming courses + Computer Practicals + Thesis (5 months)} \end{cases}$

SINGLE FOCUS



RESEARCH



STRENGTHS

- Designed for Biologists (incl. agronomists, ecologists etc)
- Hands-on exercises on Linux laptops
- Academics from Life Sciences, Applied Sciences, Veterinary Sciences and Agronomical Sciences
- Bilingual EN/FR (all materials in EN)
- 1-Year program available



Understanding and managing the environment to build sustainable development

120 ECTS (2 years) $\begin{cases} \rightarrow \text{B1} = \text{Classes} + \text{Integrated approach to environmental issues} \\ \rightarrow \text{B2} = \text{Five modules of specialization} \text{ !!! Unique in Wallonia !!} \end{cases}$

Renewable energies and sustainable buildings
(Co-graduation with U. Luxembourg)

Developing countries

Monitoring of polluted atmosphere

Integrated water resources management

Mediation & Transitions



From animals to plants: the place and roles of organisms in an ecosystem

120 ECTS (2 years)
 B1 = Courses + Field Works + Internship (1month)
 B2 = Courses + Master thesis (5 months)

4 ORIENTATIONS



CONSERVATION
BIOLOGY



MANAGEMENT OF
AQUATIC RESOURCES
AQUACULTURE



TEACHING



RESEARCH

2 modules:

- Eco-Ethology
- Biology, Ecology & Ecotoxicology

STRENGTH: Lot of training / field works...
.... In Belgium and abroad



Understanding and managing oceans to protect our planet



Station de Recherches Sous-Marines et Océanographiques
STARESO - Corsica

!! Unique in Wallonia !!

Research

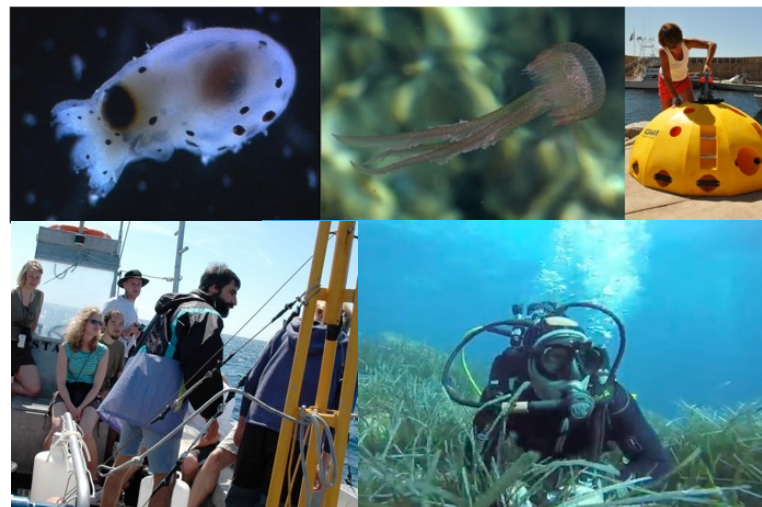
- ➡ Biogeochemistry and climate change
- ➡ Marine ecology and biodiversity
- ➡ Modeling and operational oceanography

MANAGEMENT OF AQUATIC RESOURCES
AQUACULTURE



Marine Environment and Resources
Erasmus Mundus

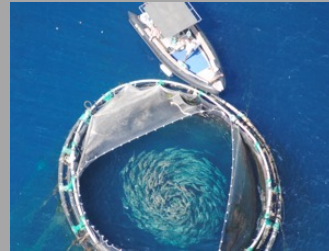
- Southampton
- Pais Vasco
- Bordeaux
- Liège



Contact: Prof. S. Gobert (Sylvie.Gobert@uliege.be)

Oceanography

MASTERS IN BIOLOGY



Biology of
Organisms &
Ecology

!! NEW !!

Oceanograph
y

Research

Conservation
Biology

Management
of aquatic
resources &
Aquaculture

Research

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Educational Masters



BIOLOGY eduma

[biology]



STEM eduma

[biology+chemistry/physics/math]

Research Masters



Evolutie en Gedrag

[mandatory and elective courses]
[individual project]
[master project]



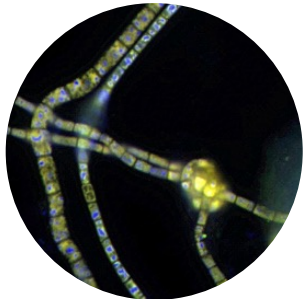
Biodiversity: Conservation and Restoration

[mandatory and elective courses]
[conservation internship]
[master project]



Global Change Biology

[mandatory and elective courses]
[integrated lab]
[master project]



Geobiology



Ecotoxicology



Plant physiology



Evolutionary ecology



Plants and ecosystems



Functional morphology



Behavioural ecology





337

master projects
~topic





337

master projects
~taxon



337

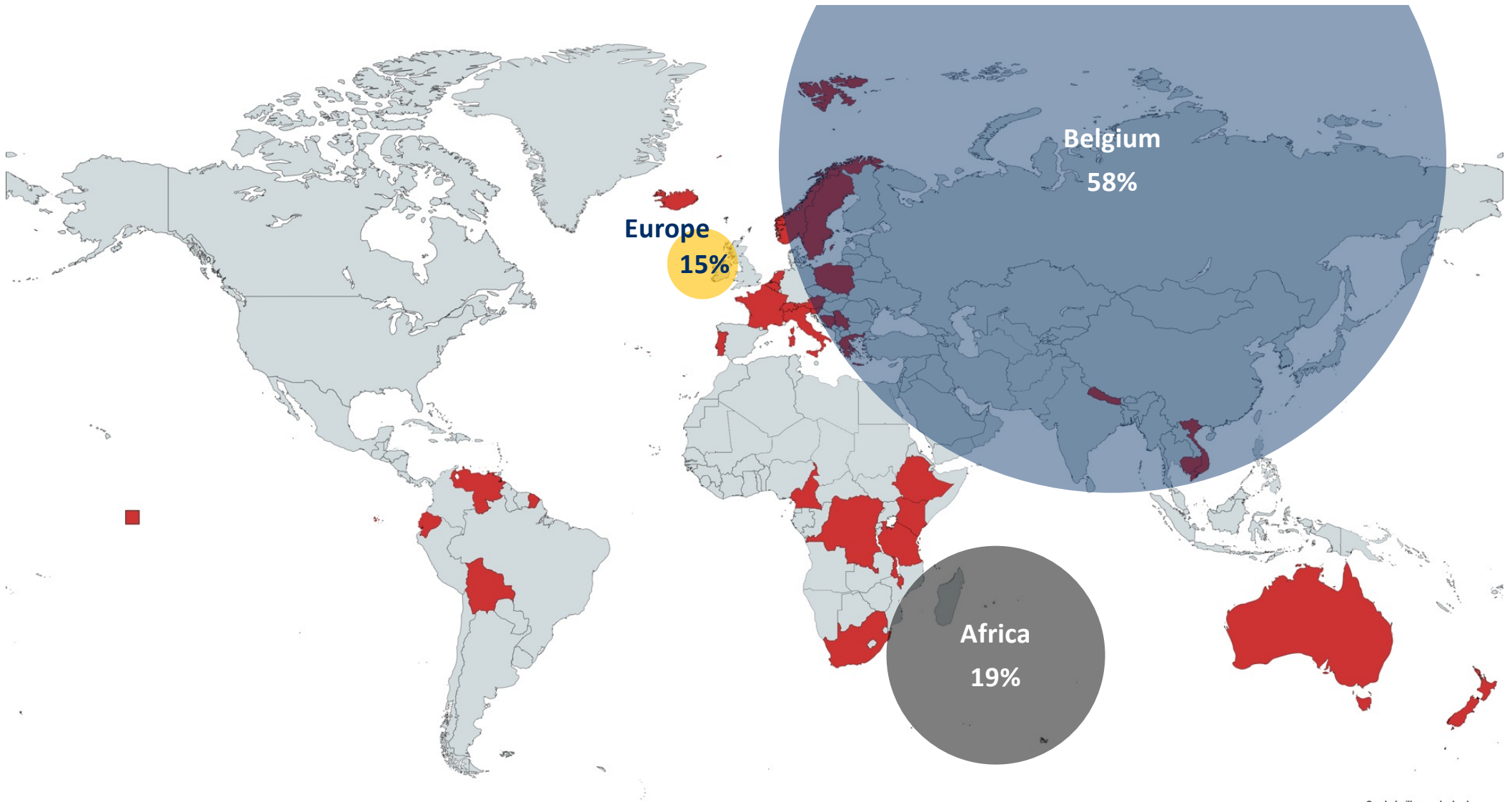
master projects
~ecosystem





377

master projects
~location



Created with mapchart.net



Strengths

- Research-education nexus
- Problem-oriented
- International
- Amicable
- Green campus
- Bio-lounge



www.uantwerpen.be/biology

Come visit our campus:

March 9

May 4

2024

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The University of Namur (unamur.be)



- Human-size, lovely and peaceful city in the heart of Belgium
- Well connected nationally and internationally



- Human-size University (< 8000 students)
- Students are not numbers > proximity with professors
- Full programs in biology with diverse research units (17 professors)

UNIVERSITÉ FACULTÉS ÉTUDES ET FORMATIONS RECHERCHE SERVICE À LA SOCIÉTÉ INTERNATIONAL

Chercher dans le site

UNIVERSITÉ DE NAMUR

GRANDES CONFÉRENCES NAMUROISES

Marielle MACÉ

La respiration sous toutes ses facettes
Quand elle prend place au cœur de nos vies
La rencontre sera suivie d'un drink.

AUDITOIRE S01 - 19H 22 | NOV | 23

Infos et inscriptions

VOUS ÊTES

Futur étudiant
Etudiant
Doctorant
Ancien
Enseignant
Chercheur
Journaliste
Entreprise

ACCÈS DIRECTS

Bibliothèques
Portail recherche
Offres d'emploi

A LA UNE

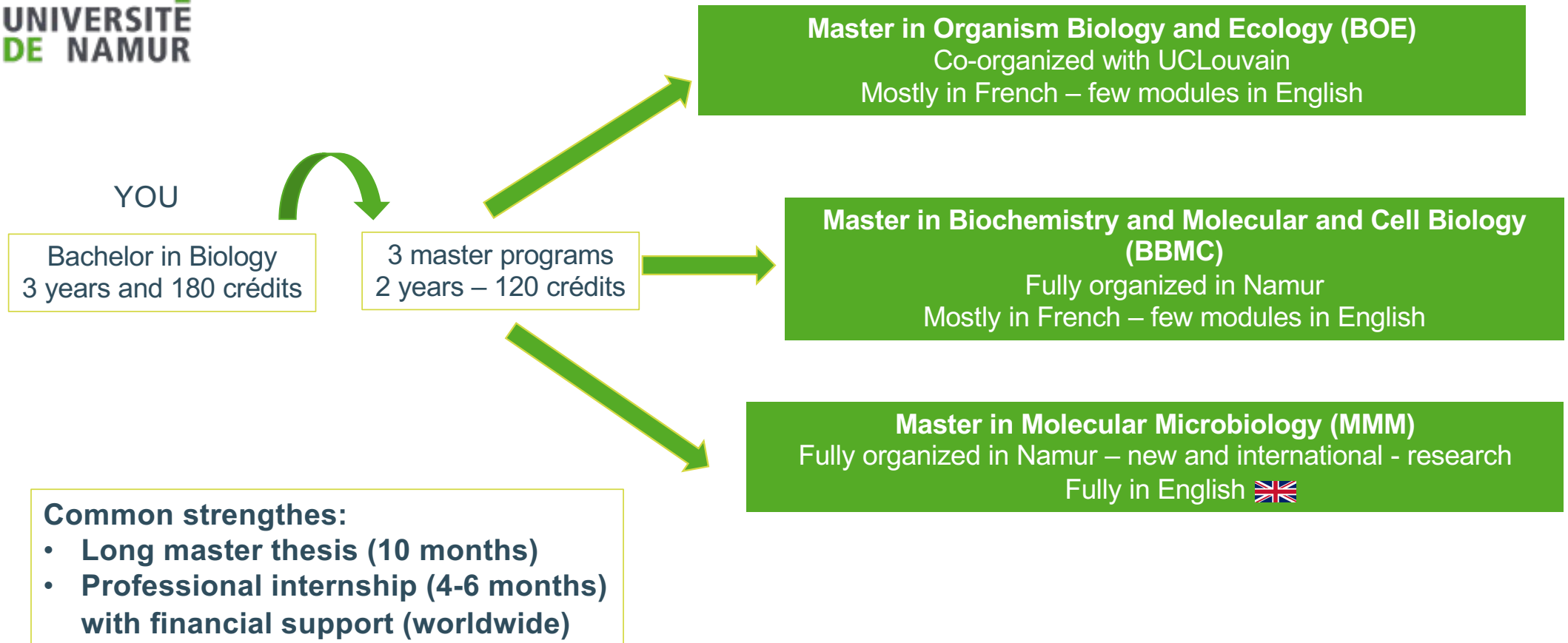
Traitement de la ménopause : des chercheurs pointent un risque accru de cancer lié à la prise de fezolinetant

Trois chercheurs de l'UNamur, ont découvert que le fezolinetant, utilisé pour le traitement de certains symptômes liés à la ménopause était associé à un risque accru de développer un cancer. Leurs résultats de recherche viennent d'être publiés dans le prestigieux magazine scientifique The Lancet, la première revue scientifique au monde.

EURADNESS KIRCHER NETWORK UNIVERSITI



The University of Namur (unamur.be)





Master in Molecular Microbiology - MMM

Jean-yves.matroule@unamur.be

<https://www.unamur.be/en/sci/study-biology/master-description-microbiology>

- Unique in Belgium
- In English
- Research-oriented (54 ECTS + training)
- Genetic approach
- Stimulates student mobility (European Joint Program)

Master1

Semester 1

Mandatory
Microbiology
lectures (30
ECTS)

Semester 2

Integrated practicals +
Scientific writing +
Research Initiation
(30 ECTS)

Master2

Semester 3

**Master
thesis** (30
ECTS)

Semester 4

International Training in
a Research Institute or
training in industry
(30 ECTS)

Master in Biochemistry and Molecular and Cell Biology

Four major training programmes: « Cancer, Aging, Metabolism, Stem Cells »

Strengths : the students are at the center of their programme and choose over 90 % of their curriculum

- A strong theoretical education with some courses taught in English
 - Master 1 : Modules (select 9 out of 20 modules organized : 22 h each)
 - Master 2 : Specialized scientific training (8 c) and professional insertion training (6c)-Forensic Sciences, ...
- A solid practical training (**a 10-month Master thesis**)
- A 4-or 6 month initial professional experience in a company or a research laboratory in Belgium or abroad : **Internship**

Time line

Master 1 (60 c)

Master 2 (60 c)

Courses

Master thesis (30 c)

Courses

Internship (30 c)

Internship in industries



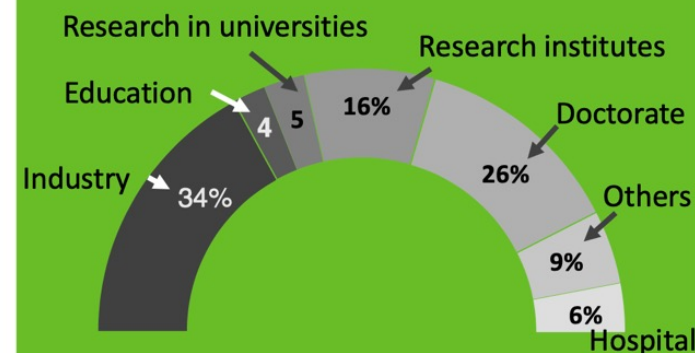
Research internship in prestigious universities



Teaching : interactive small groups



Career prospects



> 80 % of students are employed within a 6-month period post graduation (n= 185).

Thierry.arnould@unamur.be

Master in Organism Biology and Ecology (WWW.MASTERBOE.BE)

Conservation
Evolution
Molecular Ecology

Professional internship (28)

M1Q 1	M1Q 2	M2Q 1	M2Q 2
----------	----------	----------	----------

Thesis (30)

M1Q 1	M1Q 2	M2Q 1	M2Q 2
----------	----------	----------	----------

Free courses(12) Professional project (2) Experimental design (2)

M1Q 1	M1Q 2	M2Q 1	M2Q 2
----------	----------	----------	----------

3 modules among 8 (24)

Spatial Ecology

Ecotoxicology

Applied Ecology

Functional Genomics

Molecular Ecology

Freshwater ecology

Ecology of interactions

Conservation ecology

M1Q 1	M1Q 2	M2Q 1	M2Q 2
----------	----------	----------	----------

Prof. De Laender Frederik (UNamur):
frederik.delaender@unamur.be

Prof. Van Dyck Hans (UCLouvain):
hans.vandyck@uclouvain.be

Core program (22) : Evolution; Ecology and society; scientific communication; data analysis; field trips

M1Q 1	M1Q 2	M2Q 1	M2Q 2
----------	----------	----------	----------

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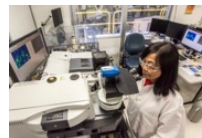
[Louvain-la-Neuve]

Organismal Biology & Ecology Master BOE: Biologie des organismes & écologie

One joint and integrated master program on terrestrial & aquatic ecology & organisms from two universities:

Highly attractive, basic and applied training
(→ strongly increasing student population)

Details: see presentation of Pr. Frédéric Silvestre (UNamur)



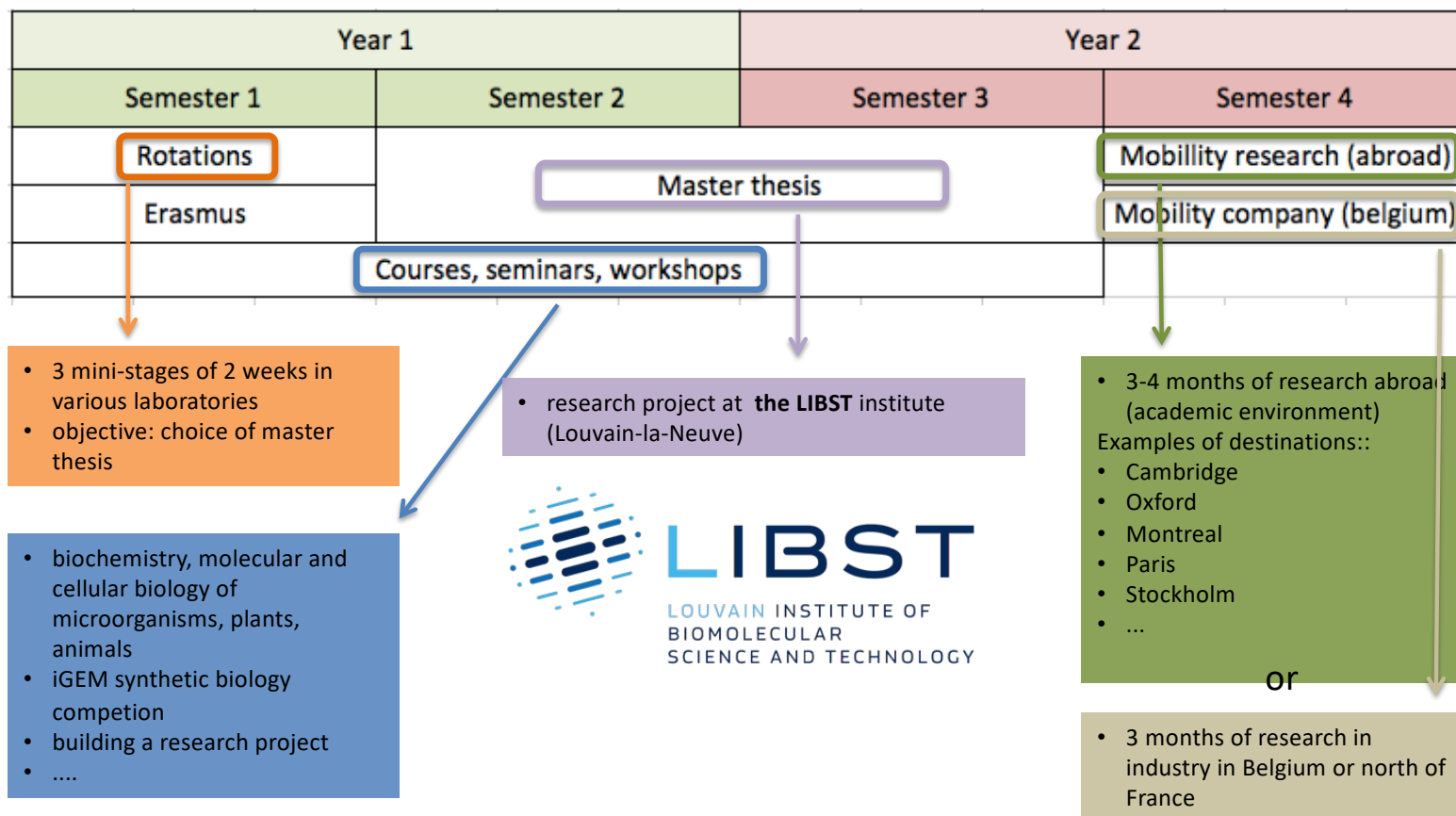
Master in Biochemistry, Molecular and Cellular Biology (BBMC)

- English spoken
- Research, professional or teaching focus
- About 60 students



Informations : pierre.morsomme@uclouvain.be

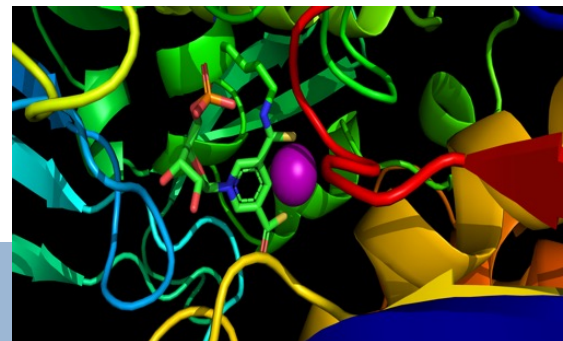
Master in Biochemistry, Molecular and Cellular Biology (BBMC) - English



Informations : pierre.morsomme@uclouvain.be



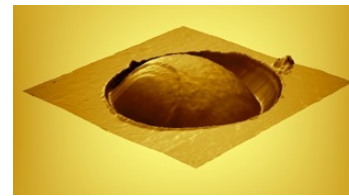
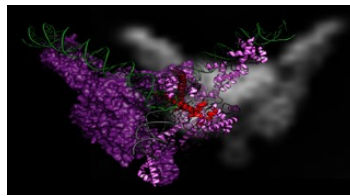
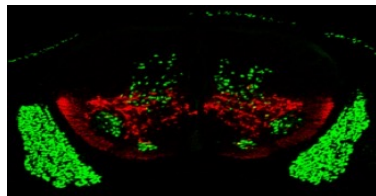
Louvain Institute of Biomolecular Science and Technology (LIBST)



Nanobiophysics, Biochemistry, Microbiology

Yeast and Plant Biology, Membrane Biology, Metabolic Engineering

Developmental Biology, Neurobiology, Toxicology



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ULB

Master in Organism Biology and Ecology

Specialisations:

- Didactique: Didactics/education
- Approfondie: General/research, BET/research
- TROPIMUNDO: research



Call for 2022-2023 applications
TROPIMUNDO closes 15/01/2022
BET closes 30/04/2022

• Contact: Farid.Dahdouh-Guebas@ulb.be secrdb@ulb.be

ULB

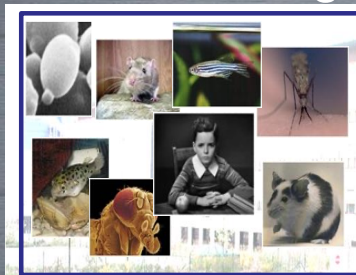
Master in Biochemistry and Molecular and Cellular Biology

BIOPARK
CHARLEROI BRUSSELS SOUTH

Specialisations:

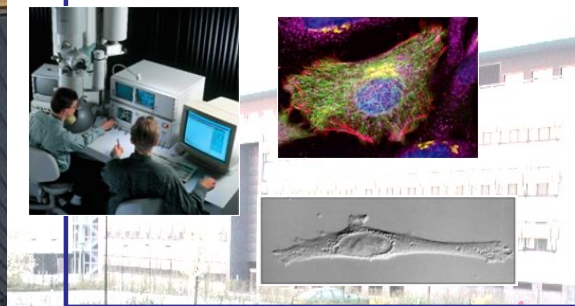
- Approfondie: Research
- Didactique: Didactics/education

Functional genomics

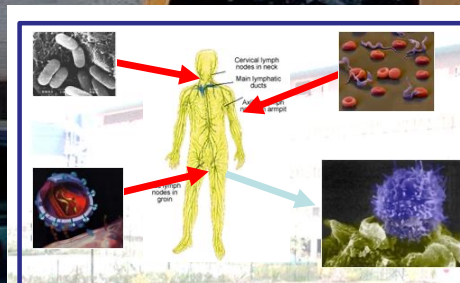


Pathologies

Cellular Biology - imaging



Host-parasite relations



Therapies

• Contact: Prof. Luc.Vanhamme@ulb.be

ULB Master in Bioinformatics and Modeling

Interdisciplinary approaches combining
biology, computer science, and mathematics/statistics

Accessible to biologists as well as to computer scientists

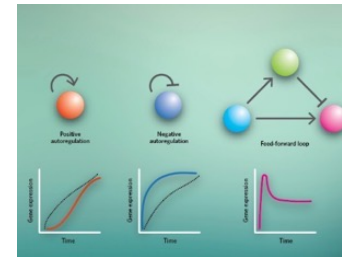
Genomics,
Proteomics, Evolution



Biophysics &
Structural biology



Modeling dynamics of
biological systems



Block 1 (year 1, 60 ECTS)

'Update'
courses
(10 ECTS)

Basic bioinformatics courses
(50 ECTS)

Block 2 (year 2, 60 ECTS)

Advanced
courses (options)
(25 ECTS)

Internship
(10
ECTS)

Master thesis
(25 ECTS)

Possibility to do the master in one year (60 ECTS) for candidates who already hold a master

Informations: <http://www.bioinfomaster.ulb.ac.be> Contact: Didier.Gonze@ulb.be

***Master thesis research in
collaboration with research
institutions***

1. KU Leuven
2. UMonS
3. UGent
4. ULiège
5. UAntwerpen
6. UNamur
7. UC Louvain
8. ULB
9. VUB

***Unique (International) Master
programs***

10. Oceans and Lakes
11. TROPIMUNDO
12. IMBRSea
13. Sustainable Development
14. Nematology
15. Aquaculture

Welcome to **TROPIMUNDO**

**Call for 2024-2025
applications
closes 30/11/2023**

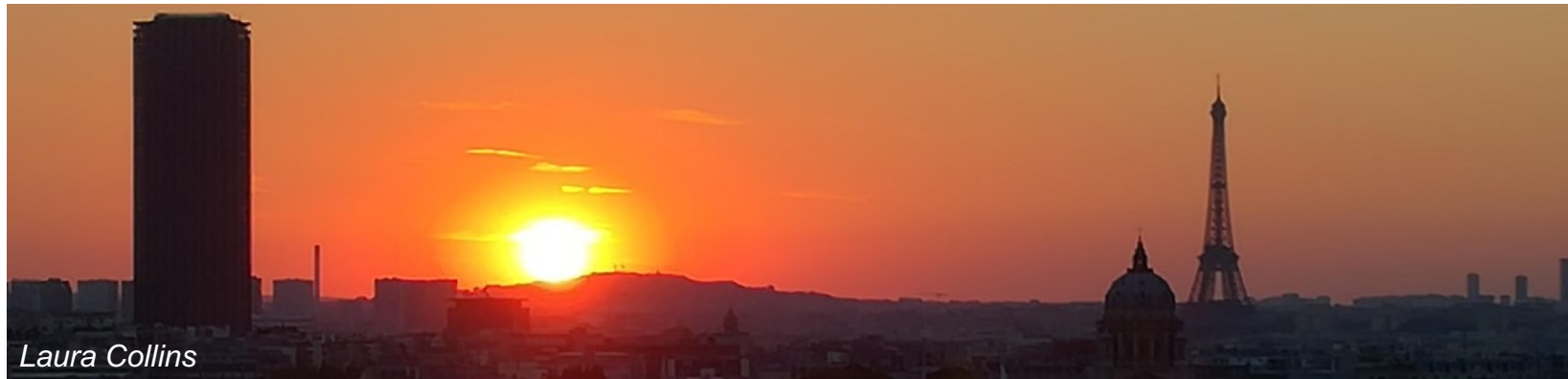


Anaïs Bonnefond & Benjamin Durrington



What is  Erasmus ?
Mundus

Erasmus Mundus is the
European Commission's
(only) educational **excellence** brand label





TROPIMUNDO is the world's only European MSc. Programme on tropical biodiversity and ecosystems with a full semester of class and field courses in the tropics





TROPIMUND₂



ERASMUS MUNDUS JOINT MASTER IN TROPICAL BIODIVERSITY AND ECOSYSTEMS



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UNIFI Italy
 Università degli Studi di Firenze
UdG Fr. Guyana
 Université de Guyane
UDEA Colombia
 Universidad de Antioquia
UdA Guadeloupe
 Université des Antilles
UCAD Senegal
 Université Cheikh Anta Diop de Dakar
UDsch Cameroon
 Université de Dschang
TUM Kenya
 Technical University of Mombasa
UNIVANTA Madagascar
 Université d'Antananarivo
UNIRé Reunion Island
 Université de La Réunion
RUH Sri Lanka
 University of Ruhuna
UMT Malaysia
 Universiti Malaysia Terengganu
UP Philippines
 Universidad ng Pilipinas
UNC New Caledonia
 Université de la Nouvelle-Calédonie



UNIVERSITÀ
DEGLI STUDI
FIRENZE



Université
des Antilles

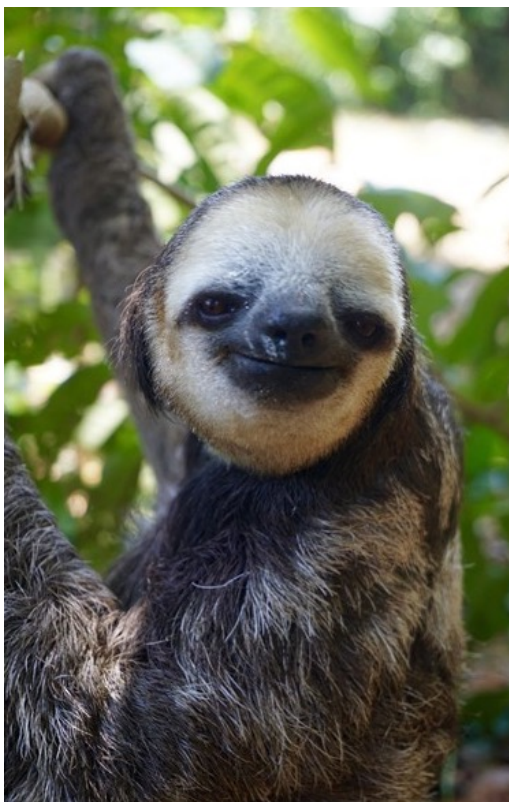


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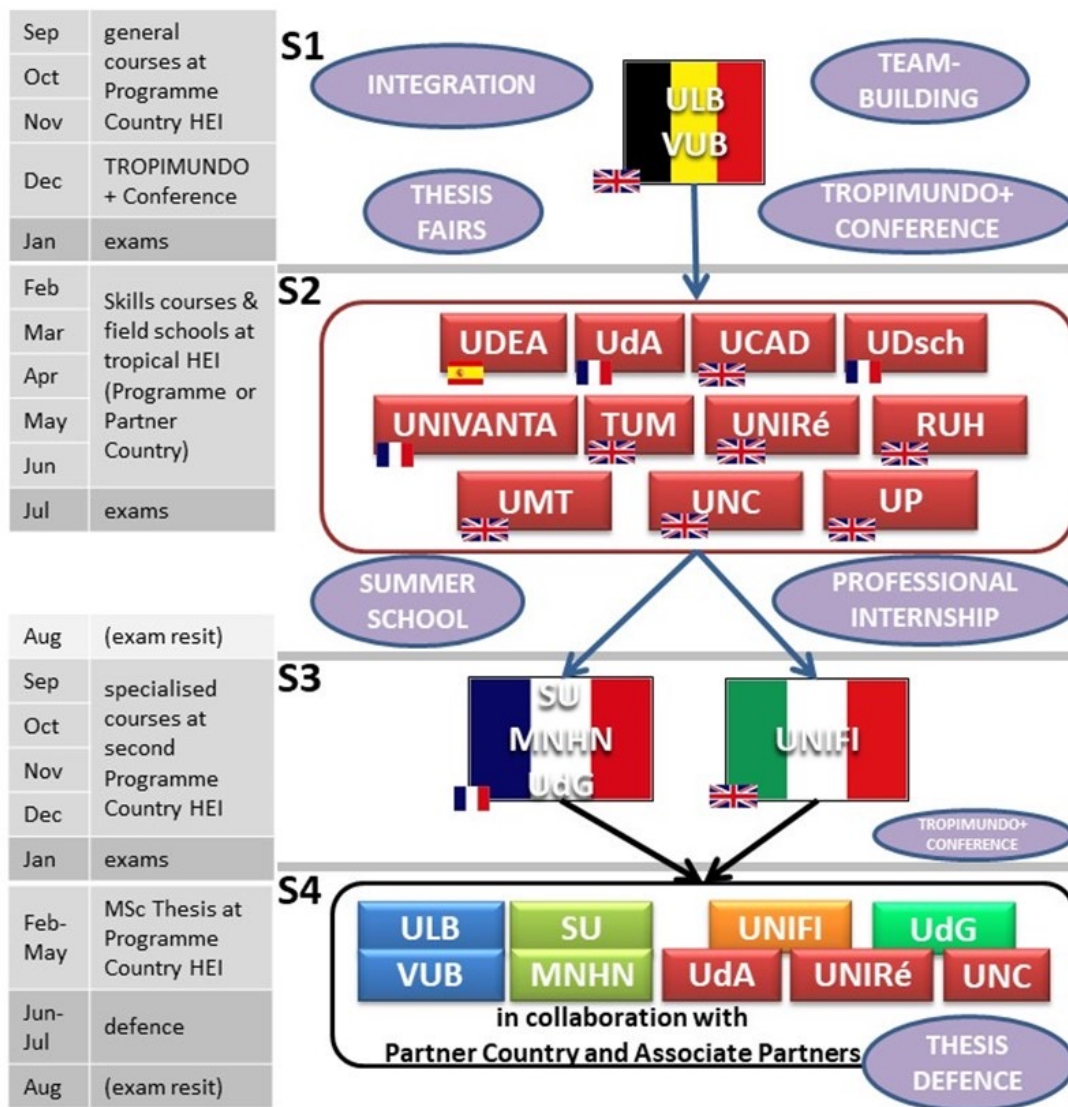


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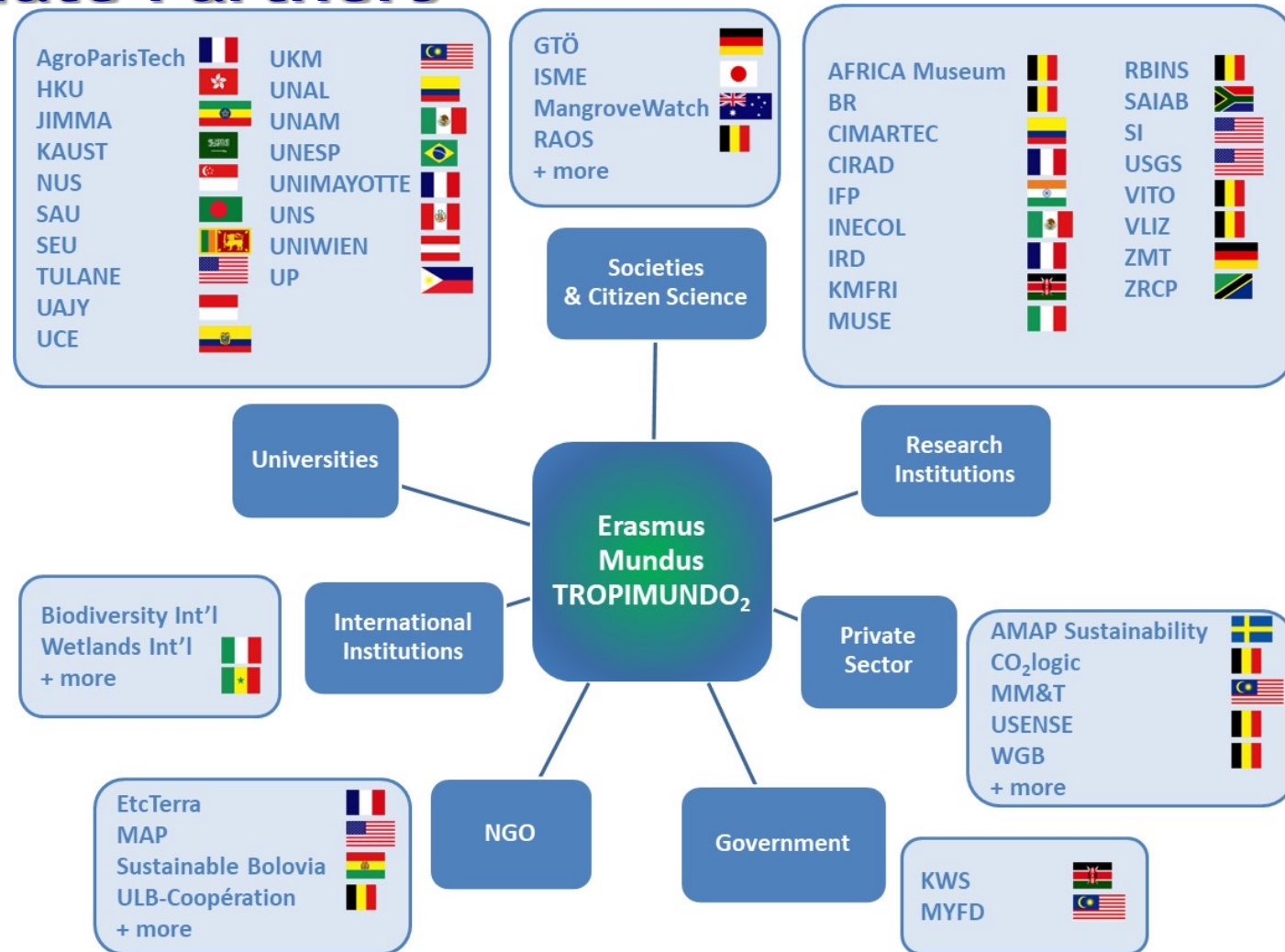


Ilke Geladi



TROPIMUNDO

Associate Partners



Learning outcomes, skills and competences





TROPIMUNDO aims at training the local scientists, conservationists, restorationists, managers and policy-makers of the future that will make a difference for the ecosystem functions, goods and services in their home countries



Farid Dahdouh-Guebas

TROPIMUNDO 

Alumni



and soon...



Chris Gorgio

Diplomas and Certificates

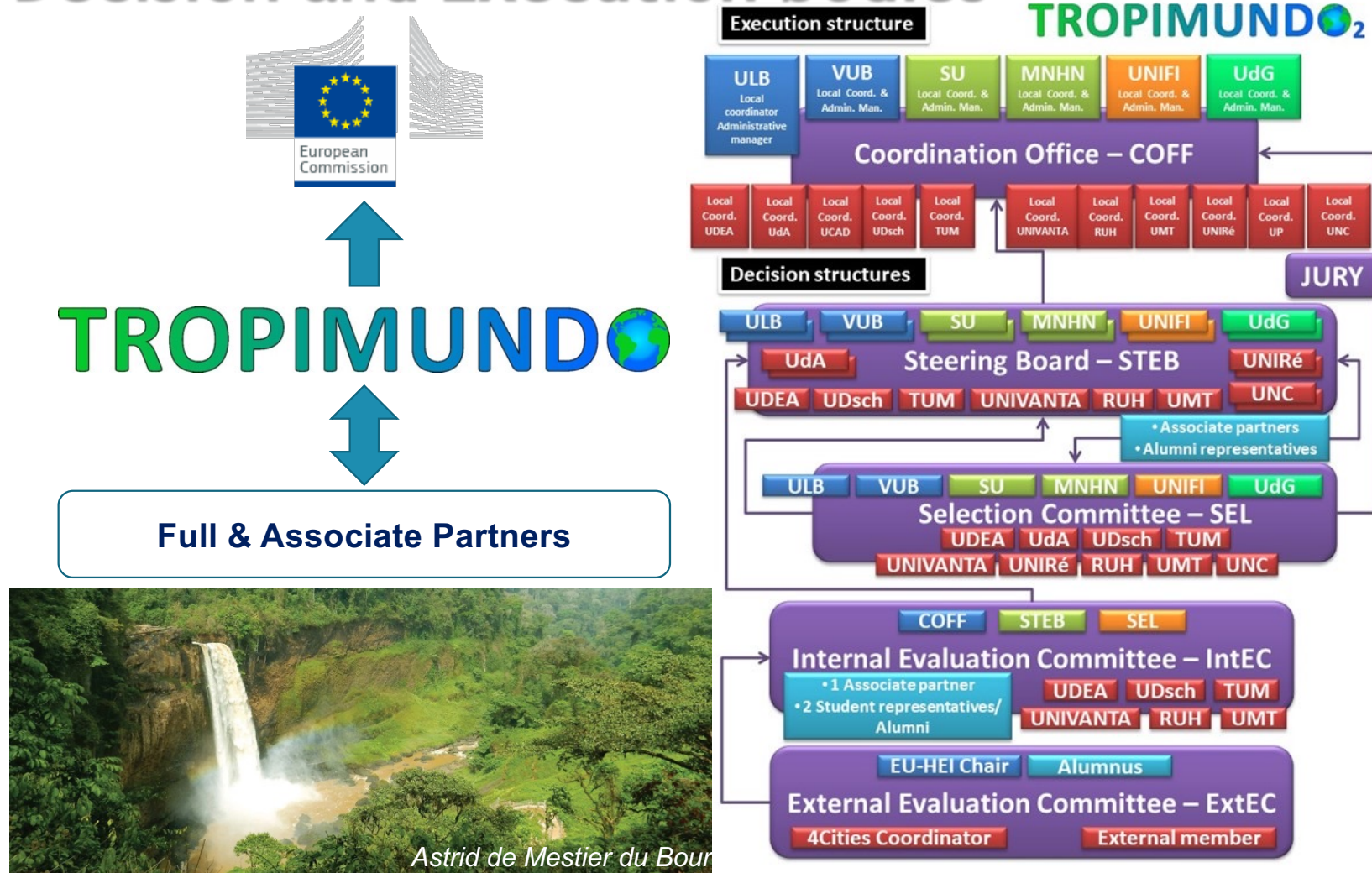
- Joint Diploma
- TROPIMUNDO Certificate
- Joint Europass Diploma Supplement
- Europass Mobility
- Europass Language Passport
- Europass CV



Stef de Béthune

TROPIMUNDO

Decision and Execution bodies



ERASMUS MUNDUS JOINT MASTER DEGREE IN TROPICAL BIODIVERSITY AND ECOSYSTEMS



TROPIMUNDO



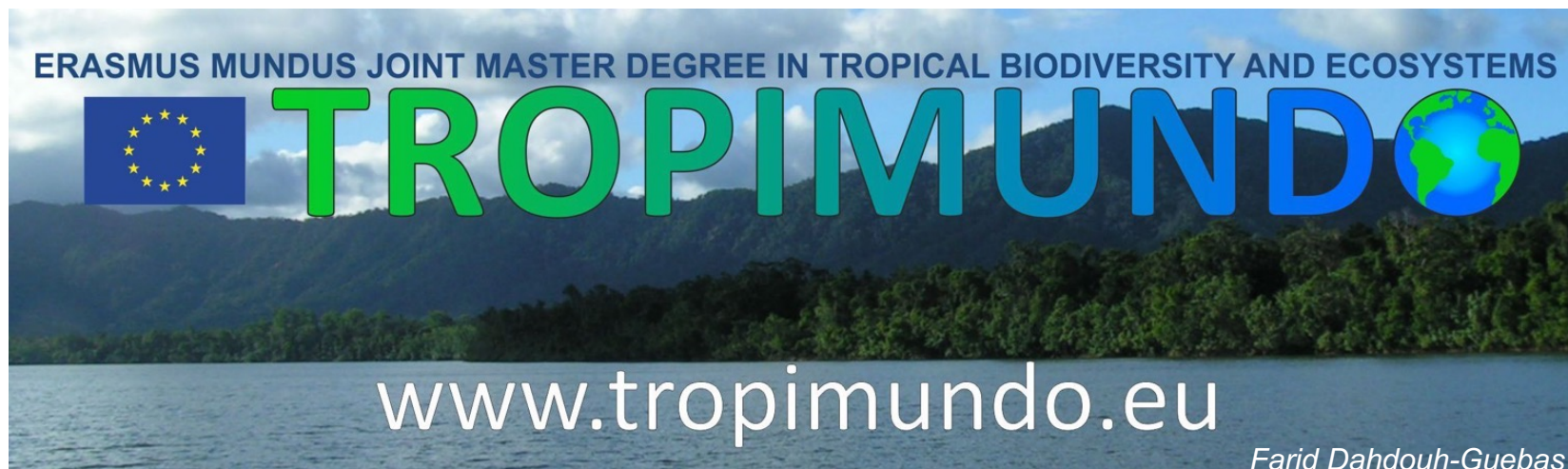
www.tropimundo.eu

Farid Dahdouh-Guebas



TROPIMUNDO

PROUD TO SERVE THE SUSTAINABLE DEVELOPMENT GOALS



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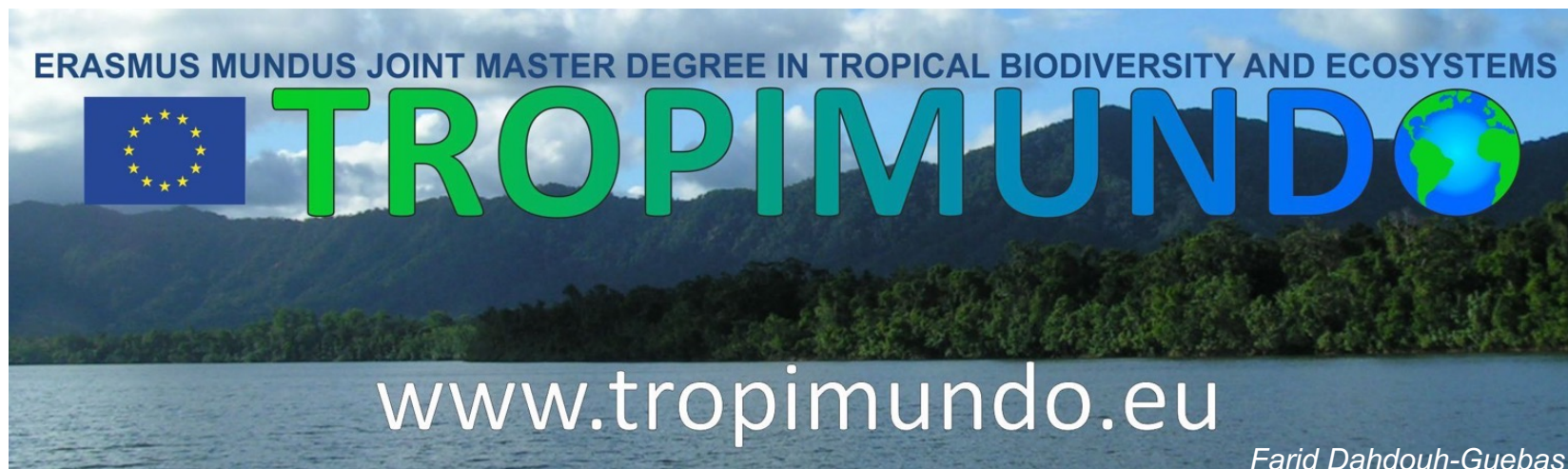
General Coordinator:

Farid Dahdouh-Guebas

Farid.Dahdouh-Guebas@ulb.be



PROUD TO SERVE THE SUSTAINABLE DEVELOPMENT GOALS

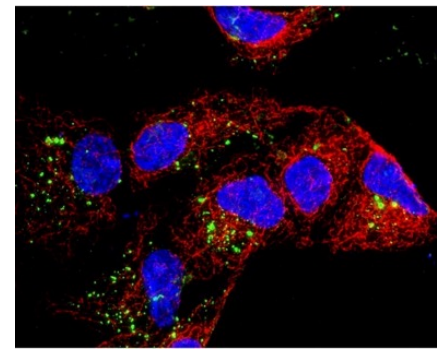
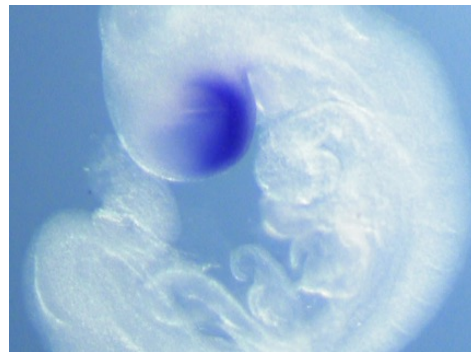


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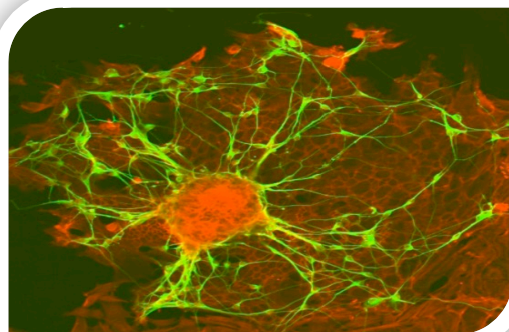


Master of Science in Biology



Accessible green campus in the capital of Europe

4 different Masters



1. Molecular & Cellular Life Sciences

Molecular biology, cell and developmental biology



2. Ecology and Biodiversity

Ecology, evolutionary biology, conservation



3. Tropical Biodiversity & Ecosystems



4. Marine & Lacustrine Sciences

Ecology and management of marine and lacustrine ecosystems





1. Ecology and Evolution

Ecology, evolutionary biology, conservation



2. Global Change

Policy, sustainable development
environmental science



3. Herpetology

Ecology, evolution & natural history of
amphibians and reptiles

Learning beyond the university



Identify species in their natural habitat



Learn about environmental law at a Natura 2000 site



Experience the effects of climate change on the slopes of the Pyrenees



Learn about fisheries on board of a research vessel



Man a field station to set up a research project



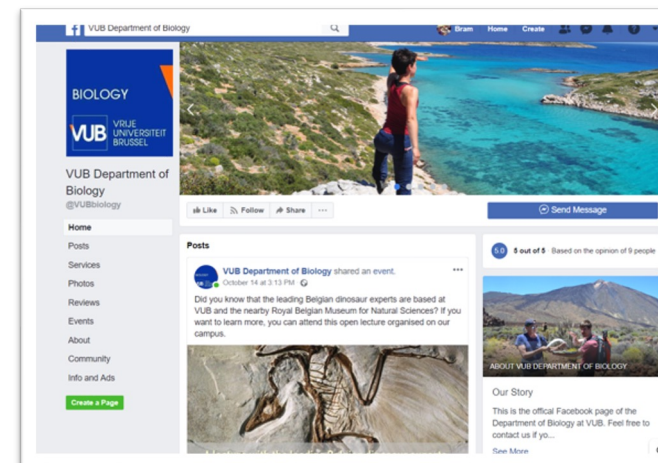
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**2 year Joint MSc
Marine and Lacustrine
Science and Management**



What?

- ✓ Unique combination of **fresh water** and **marine** ecosystems
- ✓ Training to become **multidisciplinary** scientists: biology, geology, law, policy
- ✓ **Fundamental** and **applied**
- ✓ Internships, field courses, consultancy project
- ✓ **4 majors:**
 1. *Global change impacts on ecology and biodiversity*
 2. *Conservation biology and ecosystem management*
 3. *Environmental impact and remediation*
 4. *Geosciences*



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Why?

- ✓ To become an **aquatic scientist**
- ✓ **Management** and **governance** (next to scientific topics)
- ✓ **Practice** next to **theory**
- ✓ **North-South** connection, **internationalisation@home**
- ✓ Peer training
- ✓ Focus on **sustainable development** from local to global
- ✓ Wide range of **experts** involved (NS)
- ✓ Diverse **professional fields**
VLIZ, ILVO, RBINS, VMM, NIOZ, FWO, FNRS, WWF, DEME, De Nul, Sioen, EU, universities, Science teachers

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Where ?

3 universities
Joint Diploma



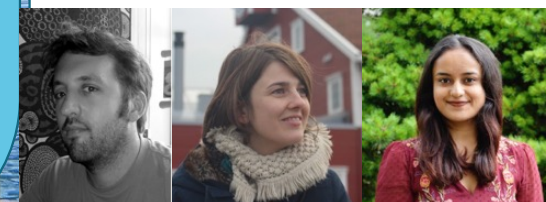
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MasterOceansandLakes
masteroceansandlakes
oceansandlakes@vub.be



Present today:

Bram Vanschoenwinkel (VUB)
Liesbeth Pinti (VUB)
Kanika Singh (alumna)



Hands-on practical experience: field courses





Internship - In Belgium or abroad:

- ✓ **Mandatory, 3-4 weeks**
- ✓ **Goal:** to get acquainted with the professional field of an aquatic scientist (marine or lacustrine)

Laura Knops at **Kenya Marine and Fisheries Research Institute** – Gazi, Kenya:

- ✓ Mangrove planting in high wave energy areas
- ✓ Macrobenthos in seagrass meadows
- ✓ Mangrove monitoring of protected area





Monsoon school (elective):

- ✓ Summer school in south partner country
- ✓ Tender about local topic
- ✓ Consultancy report
- ✓ Local experts

