August 31, 2023

https://neurocampus-graduateprogram.u-bordeaux.fr
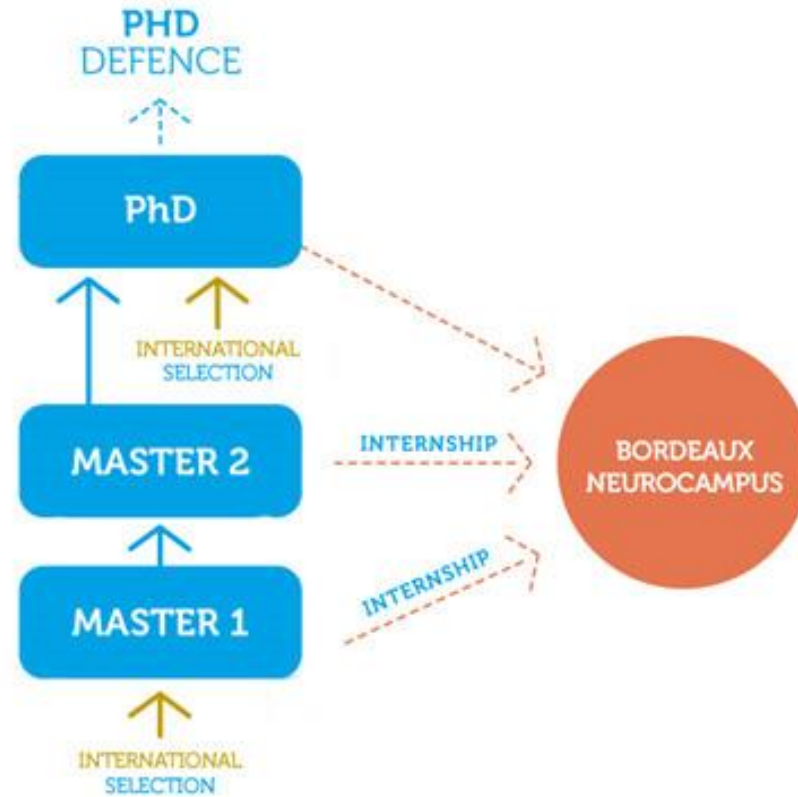
Graduate School

https://neurocampus-graduateprogram.u-bordeaux.fr

Graduate School

The **Bordeaux Neurocampus**

A very rich scientific environment

6 research institutes

230 researchers

216 technicians and engineers
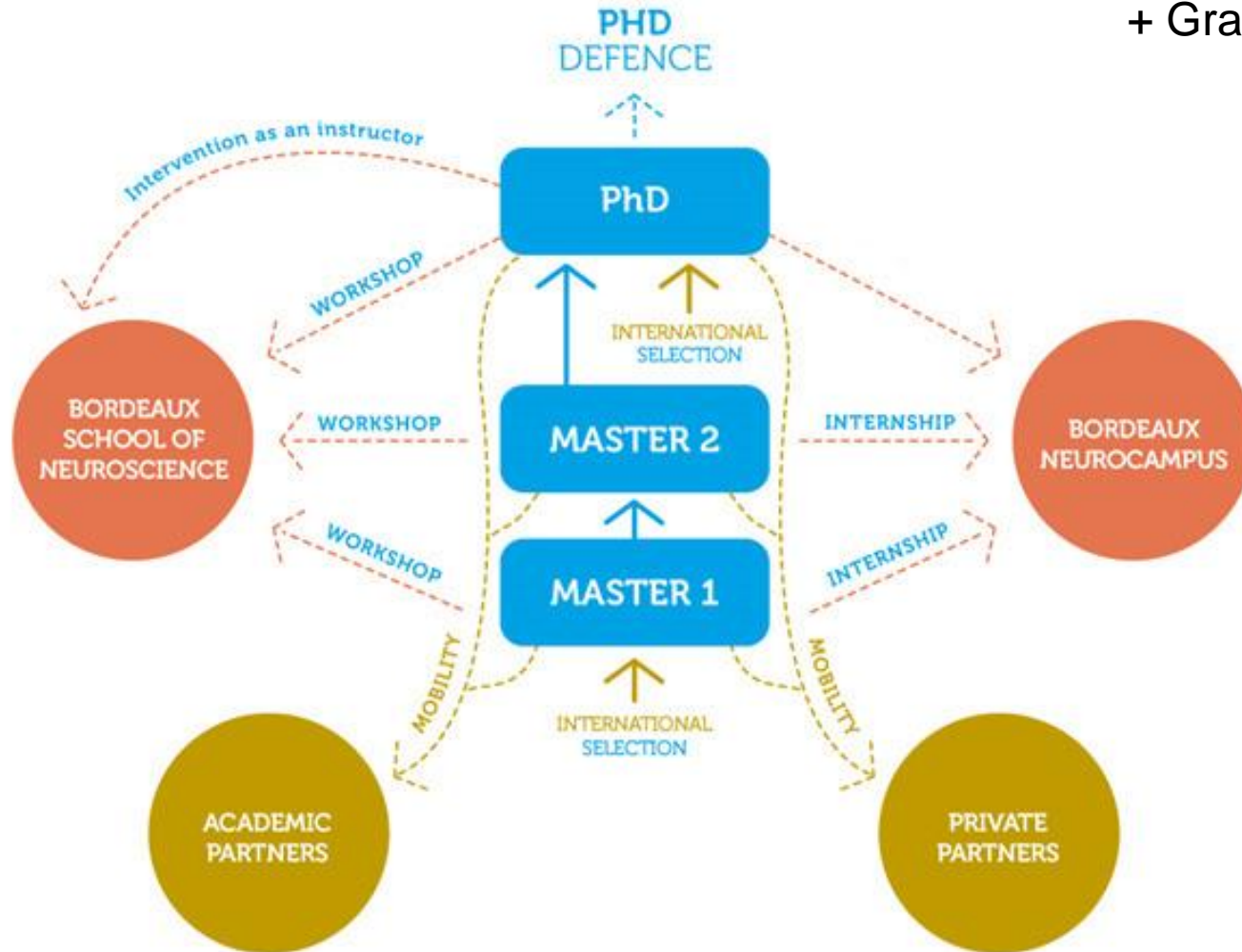
120 PhD students and 84 post-docs

+ 19 technical platforms:
   Bio-Info / Imaging / movement analysis / genomics ....

Graduate School
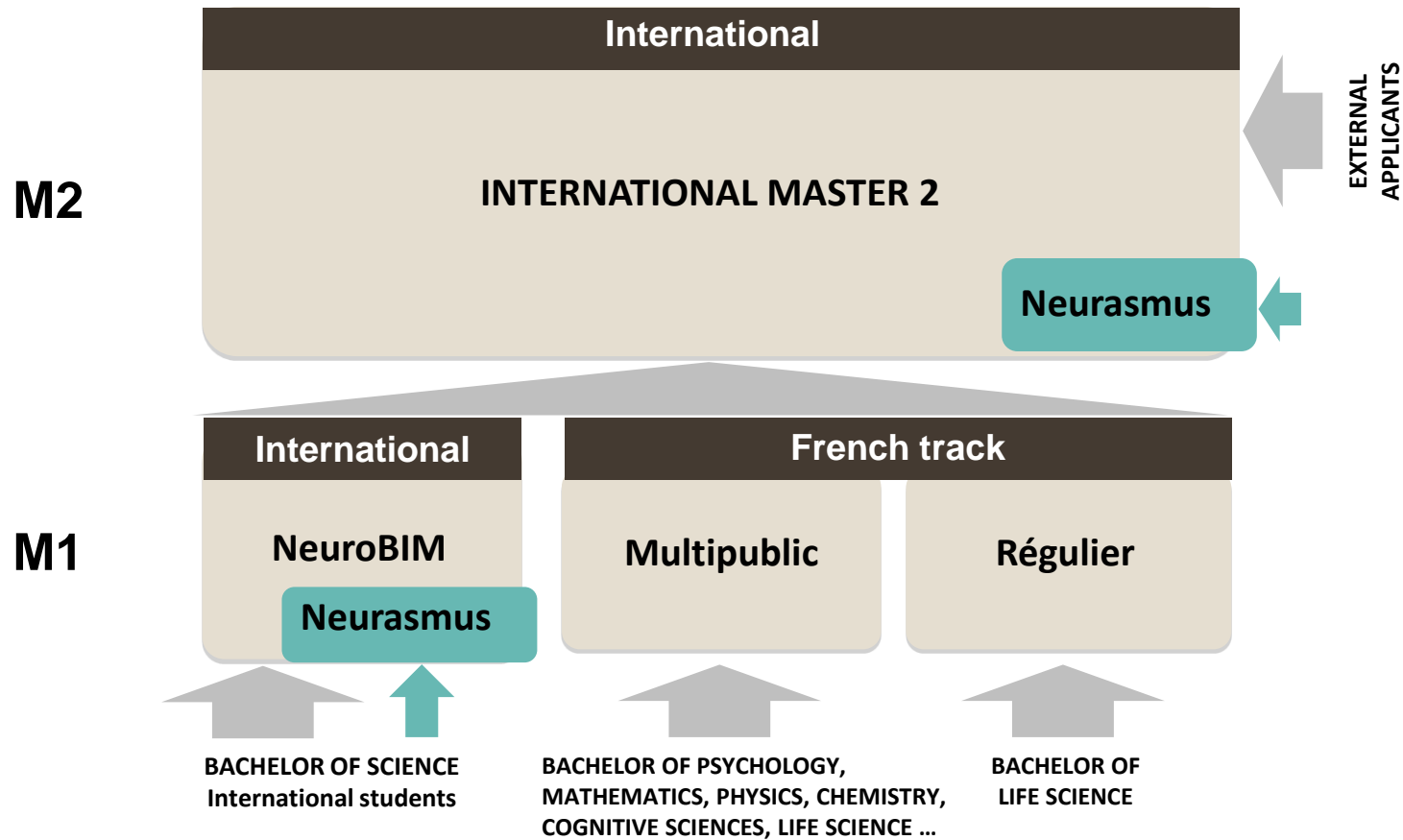
Mobility grants:

aquimob.fr

+ Grad. School

International
INTERNATIONAL MASTER 2

Karine MASSE
Karine.masse@u-bordeaux.fr

Denis COMBES
denis.combes@u-bordeaux.fr

International Master

Multicultural experience
New competences
Innovative pedagogies

→ requires high level of adaptation

Teaching units available

Bordeaux Neurocampus Graduate Program / université de **BORDEAUX**

1ECTS = 8.5h

Master Neurosciences International 2nd year + Neurasmus
Persons in charge: Karine Massé & Denis Combes

	Unit names	ECTS	Persons in charge	Statut
Semester 1	Epistemology, development & communication of a research project	6	A. Desmedt	Mandatory
	UB Create (Entrepreneurship)	6	A. Nadjar	Mandatory
Semester 2	Research project (5 months internship)	30	K. Massé, D. Combes	Mandatory

Mandatory in France if you are going to manipulate animals during your internship

Optional Unit: Certificate on animal experimentation

- Theory: **18-22 December 2023**
- Tutorials/Practicals: **15-18 January 2024**
- Exam: **January the 19th**

Attending **ALL** lectures/tutorials is mandatory (government rules)!

Interested?
→ a survey will be done very soon to find out which students are interested in taking this course.

Check regularly your institutional email (@etu.u-Bordeaux.fr)!!!!!

Bordeaux Neurocampus Graduate Program / **université de BORDEAUX**

Master Neurosciences International 2nd year + Neurasmus
Persons in charge: Karine Massé & Denis Combes

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	UB Create (Entrepreneurship)	6	A. Nadjar	Mandatory	
	Current research in neurosciences : from molecules to circuits	9	E. Avignone / A. Czarnecki	Elective	not compatible
	Cognitive and behavioural Neuroscience	9	A. Desmedt / JL Guillou	Elective	
	Addiction	6	M. Auriacombe	Elective	Free choice to reach the 30ECTS
	From Neuronal circuits to behaviour	6	D. Combes	Elective	
	Pathophysiology of Neurological & Psychiatric Diseases	6	T. Michelet	Elective	
	Developmental neuroscience	3	K. Massé	Elective	
	Psychoneuroimmunology - Mind-Body interactions	3	M. Darnaudery / A. Nadjar	Elective	
	Introduction to structural and functional neuroimaging in Human	3	E. Mellet	Elective	
	Programming for data analysis	3	A. Leblois	Elective	
	Advanced Topics in Cellular Bio-Imaging - EUR Light	3	V. Nägerl	Elective	
Semester 2	Research project (5 months internship)	30	K. Massé, D. Combes	Mandatory	

Bordeaux Neurocampus Graduate Program / université de BORDEAUX

What previous students said?

I liked the fact that last year gave us basis in neuroscience, and this semester allowed us to choose and go into details in more specific subjects. I think the different teaching units **allow us to choose a few topics among a wide list of subjects**.

Composing our own schedule by choosing the teaching units we wanted to follow

J'ai apprécié la **diversité des UE proposées et les différentes approches** qui ont été mises en avant.
De plus le fait qu'il y ait plusieurs intervenants est aussi très appréciable.

I liked the choice we were given to select teaching units and the teachers were passionate and take their time to explain their courses.

Having **the possibility to choose between a wide range of courses** (from molecular to behavior) is a really good asset.

What previous students said?

"More courses on programmation (Python, R, MATLAB ...)"

"Some courses focusing on computational skills which are necessary for research could have been provided"

Idem for development, functional imaging or Mind-Body interactions …

→ New teaching units since last year

Bordeaux Neurocampus Graduate Program — **université de BORDEAUX**

Master Neurosciences International 2nd year + Neurasmus
Persons in charge: Karine Massé & Denis Combes

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Semester 2	Research project (5 months internship)	30	K. Massé, D. Combes	Mandatory	

Elective units description

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laure.zago
@u-bordeaux.fr

1. Learning Objectives

This teaching proposes an introduction to the functional and structural imaging methods in humans, using magnetic resonance imaging. It also presents the most significant results obtained with this technique in the main domains of cognitive neuroscience. The aim is to offer an overview of what neuroimaging can provide to understand brain functions.

2. Topics

Neuroimaging: methods and measures
- MRI of grey matter: Voxel-based morphometry, cortical thickness, cortical surface
- White matter MRI: diffusion imaging, tractography
- Functional activation MRI: paradigms and analysis
- Resting-state functional MRI: functional connectivity

Neuroimaging: applications
- Models of brain functions
- Lifespan structural changes of the brain
- Neuroimaging brain evolution
- Neuroimaging of language, visual perception and attention

3. Teaching

- Formal in class lecture and recorded tutorial

4. Examination

A one and a half hour written session of focused questions based on the information provided in class.

5. Speakers/topics

- Fabrice Crivello : Neuroimaging of grey matter
- Isabelle Hesling: Langage
- Gaël Jobard : Language
- Marc Joliot : Functional connectivity

- Emmanuel Mellet : Paradigms in fMRI, visual perception
- Michel Thiebaut de Schotten : White matter, models of brain functions, brain evolution
- Laure Zago : Networks of attention
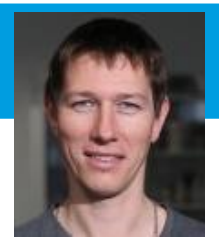
1. Learning Objectives

After successful completion of our master's course, the students will be able to:
- illustrate several key questions in neuroscience at cellular and molecular level.
- describe different imaging and electrophysiological techniques used in neuroscience. Discuss their advantages and drawbacks..
- perform a critical analysis of figures of a scientific articles.
- design an experimental protocol to answer a specific question
- contribute to a critical discussion

2. Topics

The course will cover neurons and glial cells functions. We will have an overview of several techniques to measure different parameters and manipulate cells, learn which kind of questions they can answer, and how changes at cellular/molecular level may impact the circuit and the behavior.

3. Teaching

- Seminars by researchers experts
- Participation to few seminars of the Cajal School "Advanced techniques for synapse biology", and "Synapse and network day"
- Assisted work on paper analysis and project design
- Micro-internship

4. Examination

Continuous assessment 60% : oral presentation, micro-internship report, round table debate , pair evaluation, homework. Final exam 40%

5. Speakers/topics include

- Elena Avignone, Agnes Nadjar: microglia
- Aude Panatier, Luc Pellerin, Anne-Karine Bouzier: astrocytes
.- Arne Battefield: oligodendrocytes
.

- Jerome Baufreton, Naoya Takahashi: integrated physiology
- Alexandre Favereau: miRNA

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Jean-louis.guillou@u-bordeaux.fr

1. Learning objectives

To understand and analyze how *cognitive functions and affective processes* are emerging properties from multilevel brain activity. At the end of this course, students will be able to address the key questions of *trans-level research* which, from the most elementary levels (molecular and cellular) to the most integrated levels (circuit/network), aim to understand the *neurobiological dynamics* underpinning the cognitive and affective processes in *normal and pathological conditions*.

2. Topics

The neurobiology of classical conditioning (simple task, complex processes); **Learning & Memory (**systems & fate: from memory systems to the "memory engram"); **Translational approach of memory** (from animal to Human and *vice-versa*); **Executive functions and Prefrontal cortex** (e.g. Action Planning); **Basic behavioral phenotypes of rodents (**normal behavior and pathology**); Depression** (animal models: from cognitive to affective features of depression); **Addiction** (animal models for different stages of addiction).

3. Teaching

-In-class courses given by leading experts in cognitive/affective neurosciences; -Bordeaux Neurocampus seminars & participation in a round table as part of an exchange with La Sapienza Univ. -Experimental training in behavioral neurosciences

4. Examination

Final written exam of two hours (two questions to choose from 4; 0.7 of the final grade) + Continual assessment (oral presentation of a paper or report of a behavioral experiment) (0.3 of the final grade).

5. Speakers/topics

A Desmedt (Classical conditioning)**, JL Guillou** (Animal models of learning and memory, emotional behaviours)**, N Etchamendy** (Translational approach of declarative memory), **ER Harrell** (Cellular & Circuit bases of memory engram)**, V David** (Addiction), **B Bioulac & T Michelet** (Executive function/Action planning), **A Sellami & A Mele (La Sapienza)** (Neurobiological bases of memory consolidation, basic behaviors of rodents)

marc.auriacombe @u-bordeaux.fr

1. Learning objectives

Understand that rewarding experiences can be related to Substance Use and to Behaviors void of external substance use.

Understand the need for Human and Animal Models and their limits for addiction research.

Understand and differentiate what is specific to rewards, what is specific to modality of use, what is specific to toxic effects

2. Topics

Definitions and concepts in addiction. Consequences vs. modalities of use. Loss of Control over use vs. Withdrawal and Tolerance. Craving, causalities of use, biomarkers of addiction. Individual vulnerabilities. Evaluation methods in Humans and Treatment basics

3. Teaching

Interactive tutored course after reading of documents. Self-access to e-learning lectures, documents and self-test

https://moodle1.u-bordeaux.fr/course/view.php?id=4649

4. Examination

2 hours written examination
5 to 7 questions based on Lecture content and Tutorials, Documents and/or Articles

5. Speakers/topics

All teachers are experiences researchers in Human or Animal Addiction research. Emmanuelle Baillet, Laura Lambert, Jean-Marc Alexandre, Marc Auriacombe, Serge Ahmed, Angelo Contarino.

denis.combes@u-bordeaux.fr

1. Learning Objectives

After completion of this course, by using various experimental models from invertebrates to higher vertebrates, the students will be able to :

• Master the cellular and synaptic mechanisms that allow a neuronal network to produce a physiologically relevant activity
• Understand the mechanisms underlying the functional flexibility (plasticity) of neuronal networks
• Understand cutting edge techniques for studying neuronal circuits (optogenetic, chemogenetic, functional imaging, …)
• Develop and apply relevant electrophysiological and pharmacological experiments and computer-based simulations to decipher the cellular and synaptic mechanisms underlying the functioning of a neuronal network
• Make a critical analysis of an experimental work

2. Speakers/topics include

D. Combes: general principles of neuronal circuits operation and their modulation

A. Beyeler: Modern techniques for circuits analysis ; example of circuits from amygdala and insular cortex and their role in anxiety

R. Nargeot: Learning in feeding networks / hybrid networks

A. Leblois: Exploration, motor variability and the basal ganglia-thalamo-cortical network: Lessons from songbirds

M. Wolff + A. Groh (Heidelberg Germany) + **F. Clasca** (Madrid Spain) : Thalamocortical networks: sensorimotor, integrative and cognitive functions

P. Branchereau: Spontaneous activities (cortex, spinal cord ...) and their role in SNC development

C. Dubois: Brainstem respiratory networks: circuits operation, interaction and development

L. Juvin: Neuronal circuits interaction: example of the locomotion-Respiration interaction

Keith Sillar (Univ. St Andrews Scotland). Neuroethology of predation and escape.

3. Teaching

Lectures and seminars
Neuronal networks simulation tutorials (Neurosim) to analyse the functioning of neuronal circuits. Students (by groups) will learn to design appropriate protocols in electrophysiology and pharmacology, write a scientific report and provide an oral presentation of their own experimental results and be a referee for other students' paper.

4. Examination

Continuous assessment (Neurosim tutorials) 30%
Final written exam 70%
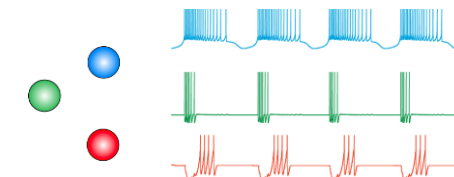
1. Learning objectives

Obviously acquiring knowledge about brain diseases pathophysiology. But also Introducing students to the to-and-fro way of thinking about how the brain works : from physiology to pathology but also, and critically, from pathology to physiology. In other words, teaching students to not only consider pathological condition as a consequence of a deviation from a normal condition, but to also use and consider pathological conditions as a window on normal functions.

thomas.michelet@u-bordeaux.fr

2. Topics

The course will feature approximately 12 to 14 seminars or lectures, regarding a very wide range of brain diseases. To conclude a critical analysis of the way to delineate mental disorders throughout the neuroscience perspective will be discussed by a philosopher and a psychiatrist.

3. Teaching

Teachers are for the most part both clinicians (they have direct contact with patients) and researchers. So they have a wide experience of the bedside part of the disease but also of the biological mechanisms.

4. Examination

Final exam 100% : A written examination related to one particular topic (e.g : analysis and description of results of an article),
and a MCQ (multi-choice question) examination that could be related to all topics.

5. Speakers/topics

- Attention deficit hyperactivity disorder   - multiple sclerosis - Traumatic brain injury - Depression

- Early life stress and vulnerability - Autism. - Parkinson's disease - Post-traumatic stress disorder

- Epileptology - Alzheimer's Disease - Executive functions impairment - Pathophysiology of extracellular vesicles
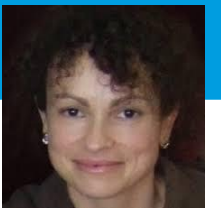
karine.masse@u-bordeaux.fr

1. Learning objectives

After completion of this course, the students will be able to:

- Understand the key molecular and cellular processes involved in the development of the nervous system
- Understand the use of a particular model (invertebrate, vertebrate, in vitro and organoids) and know its advantages and disadvantages
- Design experimental protocols
- Perform a critical analysis of scientific articles
- Contribute to a scientific discussion

2. Topics

The course will cover the different steps of the nervous system development during prenatal, postnatal and adult life and the pathological consequences of its alterations (Autism Spectrum disorders and Attention Deficit / Hyperactivity Disorder).

3. Teaching

- Seminars by researchers experts followed by discussion
- Scientific papers analysis related to the seminars

4. Examination

Continuous assessment 30% : problem-based learning, pair evaluation, homework. Final exam 70%

5. Speakers/topics

- Karine Massé (neural induction)
- Sandra Soukup (synapse development (Drosophila))
- Marie Gendrel (terminal differentiation (C.elegans))
- Antonny Czarnecki (post-natal neuron development)
- Emilie Pacary, Sepand Rastegar (Adult neurogenesis and brain regeneration (mouse and zebrafish))

- Jerome Ezan (animal models presentation)
- Claire Mazzocco (brain organoids)
- Sepand Rastegar, Jérome Ezan (neural tube regionalisation)
- Marc Landry, Frédérique Bonnet-Brihault (ADHD and autism)

Bordeaux Neurocampus Graduate Program

Université de BORDEAUX

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agnes.nadjar@ u-bordeaux.fr

1. Learning Outcomes

Training students to the basics concepts of psychoneuroimmunology and to more advanced research on bidirectional communication among the nervous, the endocrine and the immune systems. Upon completion of this course, students will be able to understand multidisciplinary research approach in neurosciences integrating psychology, neurobiology, endocrinology, neurology or psychiatry disciplines.

2. Topics

Microbiota-gut-brain axis; Neuroimmunology; Stress; Perinatal environment; Nutrition
and metabolism; Integrated experimental neuroscience

3. Teaching

- Seminars by researchers experts in the field of psychoneuroimmunology
- Participation to an International Seminars (European PsychoNeuroImmunology network – Lunch seminars)
- Journal clubs on lunch seminars lectures

4. Exams

Continuous assessment. 3 grades based on 1 oral presentation and 2 written tasks, spread along the semester

5. Speakers/topics

. Agnes Nadjar (introduction)
. Jan Pieter Konsman (psychoneuroimmunology)
. Julie Lasselin: (psychoneuroimmunology)
. Muriel Darnaudery (preparation Lunch seminars)

. Jean-Christophe Delpech (inflammation, aging, cognition)
. Quentin Leyrolle (gut-brain axis)
. Carmelo Quarta & Daniela Cota (hypothalamus, metabolism, obesity)
. Jonathan Scholl (Philosopher, microbiota, metabolic flexibility)

+ 2 international speakers

European Psychoneuroimmunology Network

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nicolas.rougier@inria.fr
slim.karkar@u-bordeaux.fr

As Neural Data become more and more complex
→ **Neuroscientists rely increasingly on** *computational tools for data analysis*

1. Learning Objectives :

i. Brush up or update the *maths and/or computer science background* for *basic data analysis*.

ii. Get familiar with *basic techniques* for *data analysis* using the *Python* language.

2. Topics :

Linear Algebra; Signal Analysis; Computational neuroscience; Programming; Scientific Python

3. Teaching :

- Lectures on the theoretical background and basic concepts
- Exercices (homework) to get familiar with the new concepts and techniques
- Mini-projects: analysis of real-world experimental data

4. Examination

Continuous : 3 grades based on exercises + the mini-projects outcome (format of a scientific article, 1-2p max.)

5. Speakers/topics

Introduction to Python, Numpy, Scipy; Data visualization; Signal processing; Introduction to linear algebra;
Mini-project 1: analysis of bird songs
Mini-project 2: neural activity data analysis project (to be chosen among 3-4 data sets)

Bordeaux
Neurocampus
Graduate Program

université de **BORDEAUX**

1. Learning objectives

valentin.nagerl@u-bordeaux.fr

Explore several **cutting-edge techniques in microscopy**.
Learn how imaging techniques are used to understand biology: to explore morphology and functional anatomy, but also how to detect and manipulate electrical and biochemical activities of cells and networks.

2. Topics

The course will cover fluorescence techniques, from confocal, two-photon, light-sheet to super-resolution microscopy

3. Teaching

Seminars by active researchers/experts in the field

4. Examination

Final exam (written, 2 hours, questions based on lecture material)

5. Speakers/topics

Elena Avignone: Basic principles of fluorescence microscopy
Marc Landry: Basic principles of electron microscopy
Frèderic Lanore: In vivo 2P imaging
Stephane Bancelin: Label-free imaging
David Perrais: Design and use of sensors in neuroscience

Julien Dupuis: Single-molecule techniques to study synapses
Gregory Giannone: Super-resolution and protein tracking, cell migration
Mathieu Ducros: Light-sheet microscopy
Eirini Papagiakoumou: Light sculpting for neuronal activation

Choosing an elective teaching unit

Which course????

Do something that you think it is interesting and useful for you!!!!

Unit names	ECTS	Persons in charge	Statut	
Current research in neurosciences : from molecules to circuits	9	E. Avignone / A. Czarnecki	Elective	not compatible
Cognitive and behavioural Neuroscience	9	A. Desmedt / JL Guillou	Elective	
Addiction	6	M. Auriacombe	Elective	
From Neuronal circuits to behaviour	6	D. Combes	Elective	
Pathophysiology of Neurological & Psychiatric Diseases	6	T. Michelet	Elective	Free choice to reach the 30ECTS
Developmental neuroscience	3	K. Massé	Elective	
Psychoneuroimmunology - Mind-Body interactions	3	M. Darnaudery / A. Nadjar	Elective	
Introduction to structural and functional neuroimaging in Human	3	E. Mellet	Elective	
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Master Neurosciences International 2nd year + Neurasmus
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Semester 2	Research project (5 months internship)	30	K. Massé, D. Combes	Mandatory	

Choose according to YOUR INTERESTS
and to your expectations/professional project

Be informed:
ask professors
use your network/make a network

Rules for choosing your courses:

Link on Moodle:

https://moodle.u-bordeaux.fr/course/view.php?id=1921

Rank your choices and we will do our best to have the minimized unsatisfied students

When?
Sept 1st
8h-10h (Bx local time)

Teaching Units ranking

NAME Firstname (in this order please!) *
NOM Prénom (dans cet ordre svp !)

Votre réponse

Rank the 10 elective teaching Units from 1 (most preferred) to 10 (least preferred).
[1 rank per unit! Do not give the same rank for different units!]

Your top ranking should contain your optimal choice to reach 18ECTS.
Reminder : the 9ECTS units are not compatible!

	1	2	3	4	5	6	7
Current research in neurosciences : from molecules to circuits (9ECTS)	○	○	○	○	○	○	○
Cognitive and behavioural Neuroscience (9ECTS)	○	○	○	○	○	○	○
Addiction (6ECTS)	○	○	○	○	○	○	○
From Neuronal circuits to behaviour (6ECTS)	○	○	○	○	○	○	○
Pathophysiology of Neurological & Psychiatric Diseases (6ECTS)	○	○	○	○	○	○	○
Developmental neuroscience (3ECTS)	○	○	○	○	○	○	○
Psychoneuroimmunology - Mind-Body interactions (3ECTS)	○	○	○	○	○	○	○
Introduction to structural and functional neuroimaging in Human (3ECTS)	○	○	○	○	○	○	○
Programming for data analysis (3ECTS)	○	○	○	○	○	○	○
Advanced Topics in Cellular Bio-Imaging - EUR Light (3ECTS)	○	○	○	○	○	○	○

Envoyer   Effacer le formulaire

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Cognitive and behavioural Neuroscience (9ECTS)	○	○	○	○	○	○	○
Addiction (6ECTS)	○	○	○	○	○	○	○
From Neuronal circuits to behaviour (6ECTS)	○	○	○	○	○	○	○
Pathophysiology of Neurological & Psychiatric Diseases (6ECTS)	○	○	○	○	○	○	○
Developmental neuroscience (3ECTS)	○	○	○	○	○	○	○
Psychoneuroimmunology - Mind-Body interactions (3ECTS)	○	○	○	○	○	○	○
Introduction to structural and functional neuroimaging in Human (3ECTS)	○	○	○	○	○	○	○
Programming for data analysis (3ECTS)	○	○	○	○	○	○	○
Advanced Topics in Cellular Bio-Imaging - EUR Light (3ECTS)	○	○	○	○	○	○	○

Envoyer   Effacer le formulaire

What previous students said

English

Organization

Quality/level of the courses

Large choice of optional courses

Lack of certain topics

Mixed feeling about the English between previous students

English is the language of the master

but we cannot force teachers (medical doctor) to take English class
and we do not want to close (or give only in French) a very popular course

Be aware that in certain classes you will have some
English with a very strong French accent …

English is the language of the master

Classes are organized in 4 hours blocks

	Morning	Afternoon
Monday	EDC Research	PathoPhy
Tuesday	FuncNeuroHuman	CellMolNeur
		CogBehavNeur
Wednesday	DevNeurosci	PsychoNeuro
Thursday	NeuronCircuits	AdvBioimaging
Friday	CellMolNeur	Addiction
	CogBehavNeur	

"The blocks of 4h are tiring, but I prefer this configuration
over having to go to campus to have only 2h"

English is the language of the master

Classes are organized in 4 hours blocks

Course are highly heterogeneous in content and methods

I was satisfied with the courses I took,
which corresponded well to my expectations.

What previous students said?

My personal learning expectations after this 1st semester are fulfilled.

Agree	neither agree nor disagree	Disagree
56-93%	4-30%	3-13%

I am satisfied with the quality of the program.

Agree	neither agree nor disagree	Disagree
72-82%	12-18%	6-10%

The program has given me knowledge and/or skills that will be valuable for my future career

Agree	neither agree nor disagree	Disagree
85-93%	9-12%	3-4%

Pb number of responses ....

English is the language of the master

Classes are organized in 4 hours blocks

Course are highly heterogeneous in content and methods

Small classes, it's not guaranteed that all your choices will be satisfied

" I liked being able to choose the EUs we liked the most,
with a good organization,
allowing the majority of us to have our first choices "

Responsibility
Anticipation & Adaptation

"The year was very easy in the first month and a half
and very hard in November-December"

"If possible, separate deadlines (not everything in November)"

Where do you find information
about your master?

Bordeaux Neurocampus Graduate Program / université de BORDEAUX

Contacts:
For administrative reasons (registration, ...)
inscription.administrative.tec@u-bordeaux.fr
Location : Campus Talence : Building A22

Liane 8

Tram B
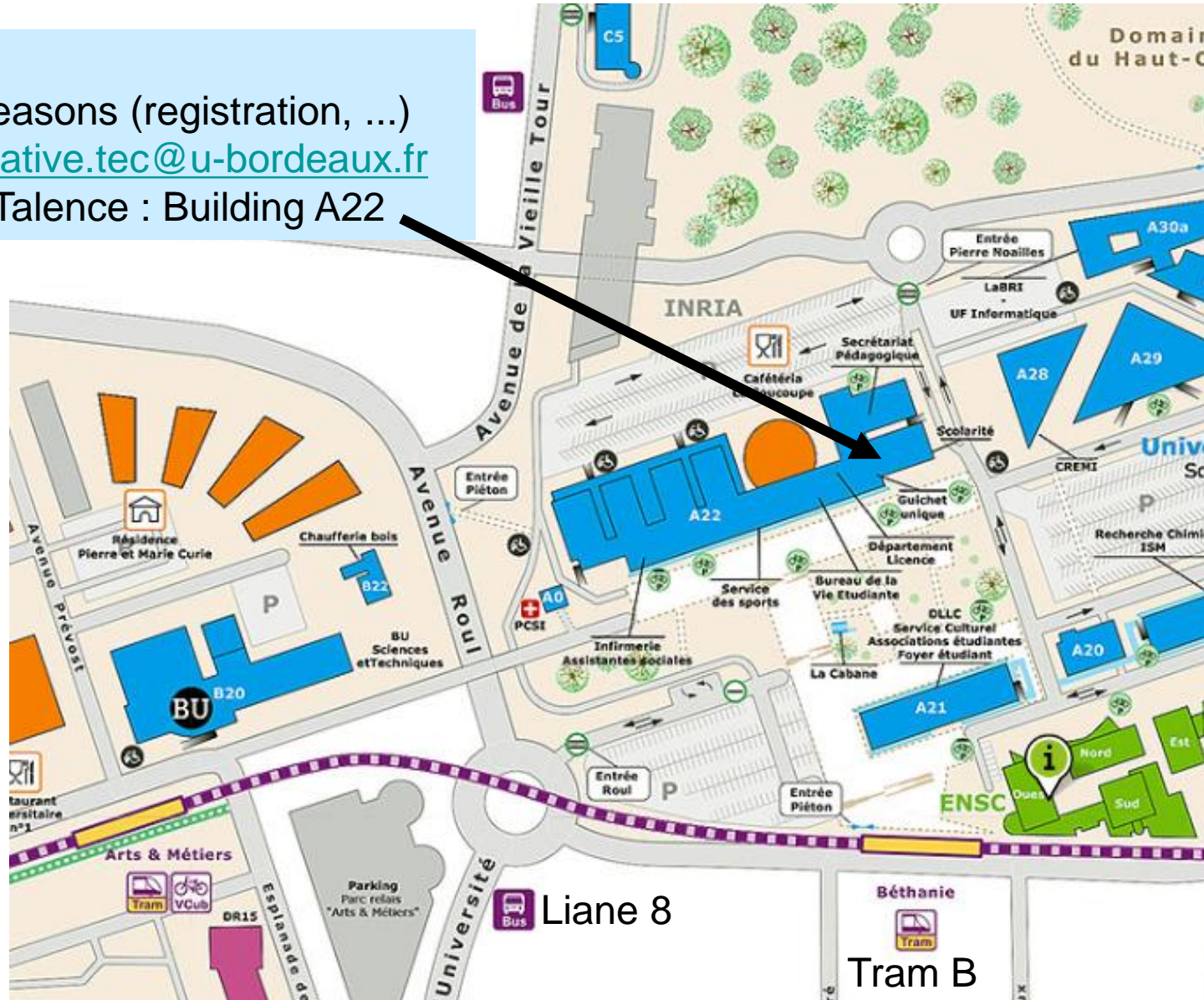
Other contacts (diplomas, ...):
https://www.u-bordeaux.fr/etudiant/scolarite-college-sciences-et-technologies
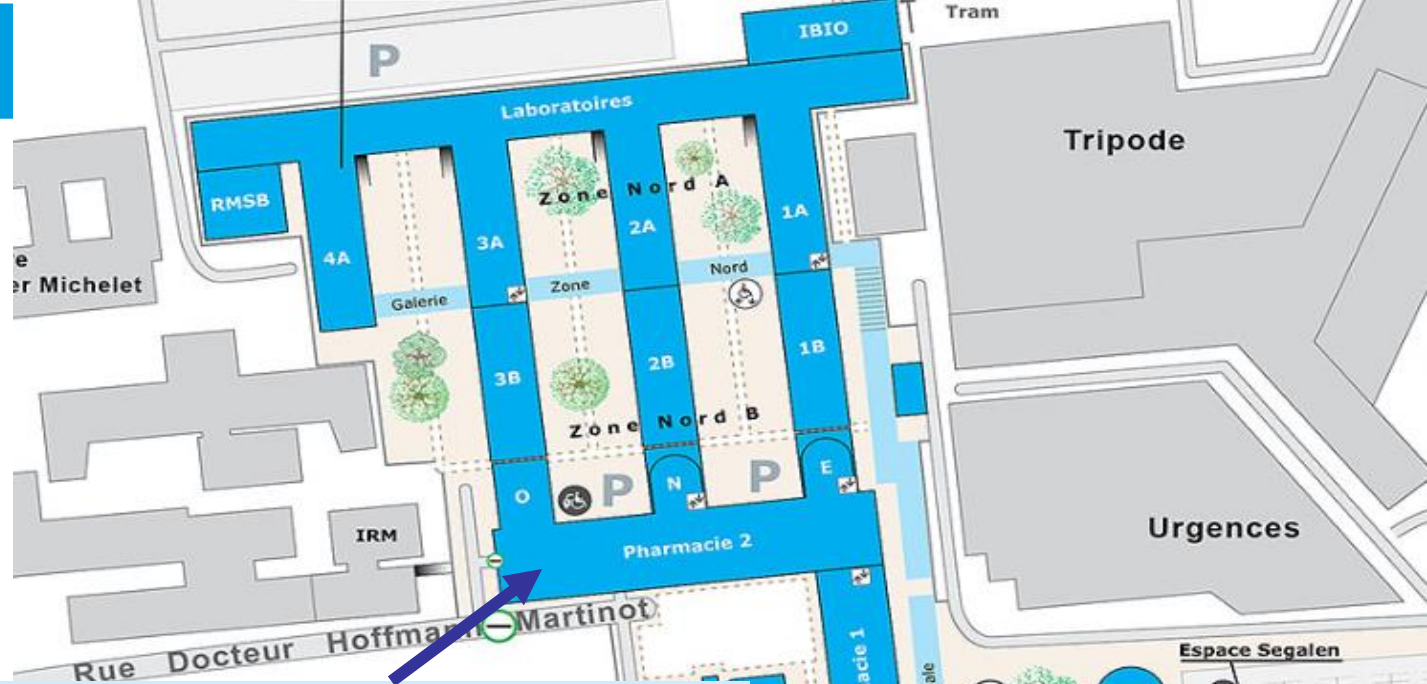
Master administration
(Planning, Internship agreement, ...)

Contacts:
M.Cyril Lançon: master-b.biologie@u-bordeaux.fr
Entrance D - 2nd floor
On site Wednesday and Thursday (other days: available by email or in Talence)
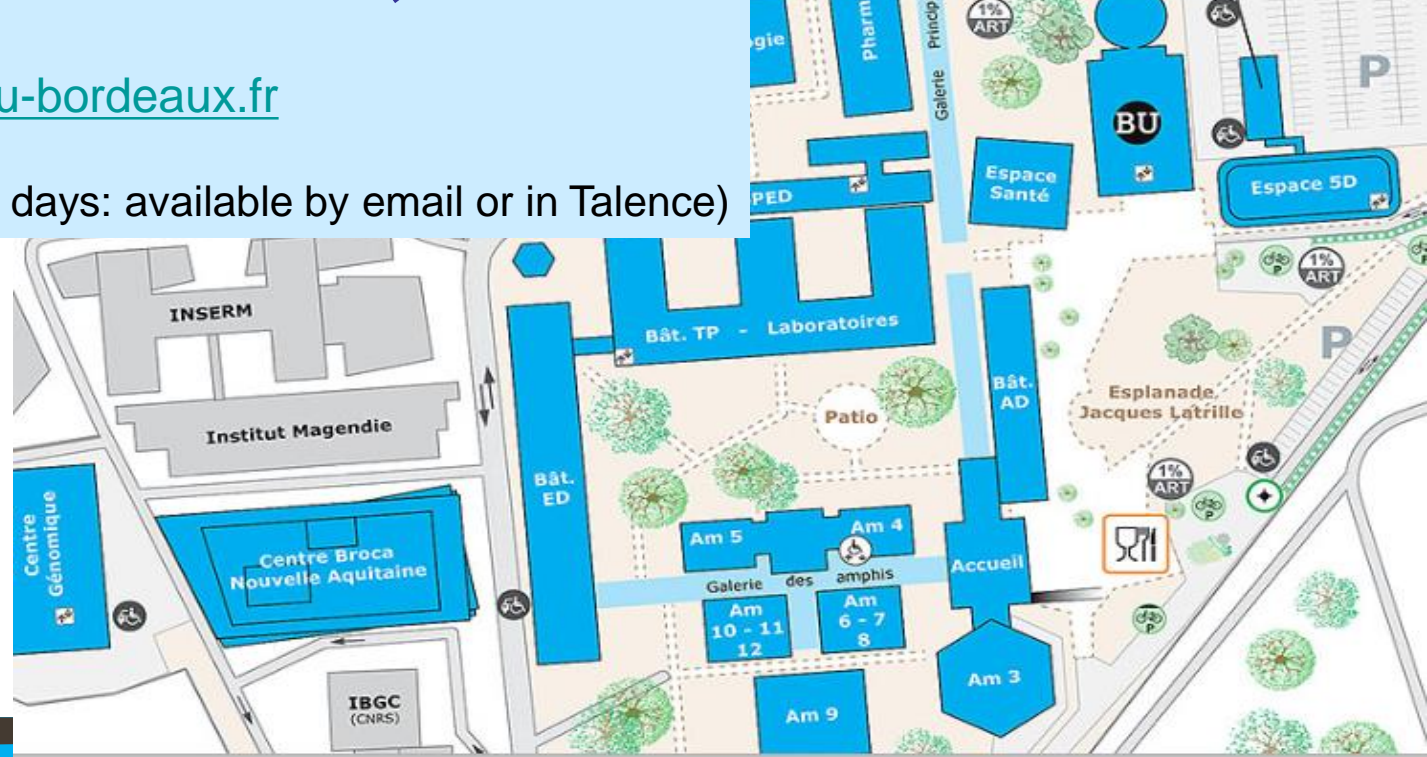
Contacts:

For educational reasons:
- **Karine Massé** or **Denis Combes** (general questions about the Master 2)
- Course coordinators (for specific questions about a Unit)

Health:
- **Customized support** dedicated to student with special needs
  PHASE
  https://www.u-bordeaux.fr/en/education/support-and-success-in-your-studies/students-with-special-needs
  Marie LE PARC: marie.le-parc@u-bordeaux.fr

- **Student Health Center** (doctor, psychologist, ...):
  https://www.u-bordeaux.fr/Campus/Espace-sante-etudiants
  e-mail: ese@u-bordeaux.fr

Sophrology
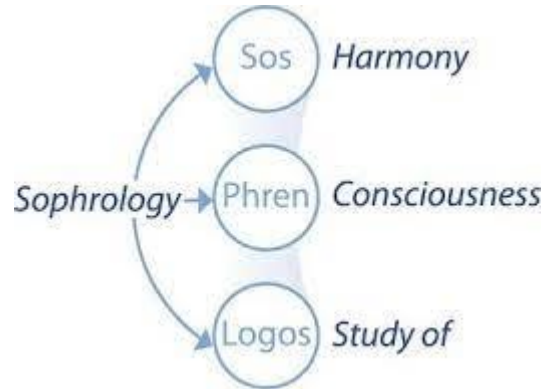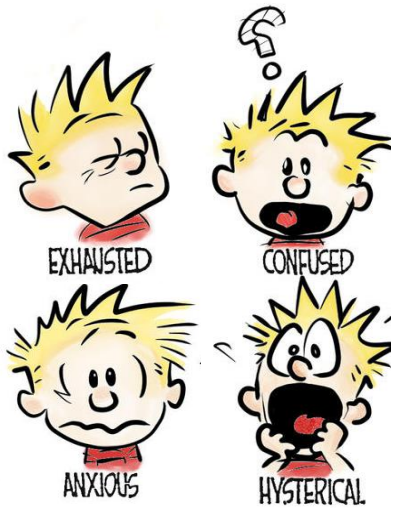
Sophrology

Maryse Kajdan

In French on campus (sale polyvalente):
Mardi 3 Octobre 2023 18h30-20h
Mardi 17 Octobre 2023 18h30-20h
Mardi 7 Novembre 2023 18h30-20h
Mardi 21 Novembre 2023 18h30-20h
Mardi 5 Décembre 2023 18h30-20h
Mardi 19 Décembre 2023 18h30-20h

Sylvie Granon

In English zoom session:
Mardi 10 Octobre 2023 19h-20h
Mardi 24 Octobre 2023 19h-20h
Mardi 14 Novembre 2023 19h-20h
Mardi 28 Novembre 2023 19h-20h
Mardi 12 Décembre 2023 19h-20h
Mardi 9 Janvier 2023 19h-20h

All informations on MOODLE : https://moodle.u-bordeaux.fr
  1 page for general info: "**Administration - Informations : M2 Neuro**"
  + 1 page for each Unit → Title = name of the unit

Bordeaux Neurocampus Graduate Program / université de **BORDEAUX**

Time table .... will be online tomorrow

1st lecture: Monday (04/09) at 8:30am

		8h-10h / 10h15-12h15		14h-16h / 16h15-18h15	
Thursday	31-Aug-23	9h30 - Welcome meeting Room Thot		**Meeting with the NBA**	
Friday	01-Sep-23	**Elective units selection 08:00 --> 10:00 (morning)** no room needed			
Saturday	02-Sep-23				
Sunday	03-Sep-23				
Monday	04-Sep-23	EDC Research Project 8h30-12h30 Room Thot		PathoPhy Room Thot	
Tuesday	05-Sep-23	NeuronCircuits Room Thot		CellMolNeur Room Thot	
				CogBehavNeur CM1 (AD) Room Hermès	
Wednesday	06-Sep-23	AdvBioimaging Room Thot	DevNeurosci Room Thot	PsychoNeuro Room Thot	PsychoNeuro Room Thot

All informations on MOODLE : https://moodle.u-bordeaux.fr

1 page for general info: "Administration - Informations : M2 Neuro"

+ 1 page for each Unit → Title = **name of the unit**

Master Neurosciences ⌄   ▼ Tous (sauf retirés) ⌄   ↓≡ Nom du cours ⌄   ▦ Liste ⌄

📁 **Enquêtes**

Current research in neuroscience: from molecule to circuit (M2 Neuro)
Master   ...

From neuronal circuits to behaviour (M2 Neuro)
Master   ...

Initiation à la recherche en neurosciences (IRN) (M1 Neuro)
Master   ...

Introduction to structural and functional neuroimaging in Human (M2 Neuro)
Master   ...

M2 Research internship (M2 Neuro)
Master   ...

Mouvement et sensations (M1 Neuro)
Master   ...

Plasticités du système nerveux : de l'adaptation de l'animal aux processus neuronaux (M1 Neuro)
Master   ...

Programming for data analysis (M2 Neuro)
Master   ...

Statistics and neural data analysis
Master   ...

Very useful website!!!!

https://www.bordeaux-neurocampus.fr/en

KEYWORD

FRANÇAIS - **ENGLISH**

WHO ARE WE? ˅   RESEARCH ˅   INTERNATIONAL TRAINING ˅   RESOURCES ˅   **AGENDA** ˅   PUBLICATIONS   NEUROSCIENCE FOR ALL ˅

Bordeaux Neurocampus > Agenda

Agenda

FOR THE SCIENTIFIC COMMUNITY

● **Seminar – Nako Nakatsuka**

Friday 8 September / 11:30

Aptamer-based biosensors for ex vivo neurotransmitter monitoring

Soutenance d'HDR – Olivier Nicole

Monday 11 September

Lieu : Centre Broca

● **20th Synapse and Network Day**

Tuesday 12 September

External invited speakers: Julien Bouvier, Maria lindskog and Nelson Rebola,

● **Seminar – Robert Schmidt**

Friday 15 September / 11:30

Invited by Nicolas Mallet

● **Cajal lectures: Connectomics from micro- to meso- and macro-scales**

Monday 18 September - Friday 6 October

THESIS AND HDR DEFENSES

Thesis defense – Stéphane Léon

Friday 8 September / 14:30

Single-cell mapping of POMC neurons in obesity

Soutenance d'HDR – Olivier Nicole

Monday 11 September

Lieu : Centre Broca

Thesis defense – Clara Besserer

Friday 15 September / 14:00

Activity of dopaminergic neurons during skilled reaching in head-fixed rats

Thesis defense – Sarah Morceau

Friday 22 September / 14:30

Exploit or explore? Neural circuits of learning in volatile environments

Thesis defense –Anna Petitbon

Friday 6 October / 14:00

Implication of mesocorticolimbic dopamine transmission in behavioral flexibility: a role for dopamine and glutamate NMDA receptor heteromers
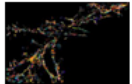
📅 **CALENDAR**

See the event calendar

🔔 **NEWSLETTER**

I want to register to the weekly newsletter

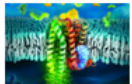WHO ARE WE? ⌄   RESEARCH ⌄   INTERNATIONAL TRAINING ⌄   **RESOURCES** ⌄   AGENDA ⌄   PUBLICATIONS   NEUROSCIENCE FOR ALL

Our newsletter

By registering to our newsletter, you'll receive an email every week. Don't miss it!

You want to receive the newsletter?

E-mail *

Submit