





- Université Claude Bernard (() Lyon 1
- General information about the Master's program
- **Master 1 Neurosciences: curriculum**
- **Master 2 paths: curriculum and job openings** 3)
  - 3a) Master 2 Fundamental and Clinical Neurosciences (FCN)
  - 3b) Master 2 Sensory Neurosciences and Analysis (SNA)
- How to apply?
- **Your questions**

University Claude Bernard Lyon 1

https://masterneuro.univ-lyon1.fr

## A 2-year master program in English









- ✓ This highly interdisciplinary program covers topics ranging from basic research in human and animal models to applied and translational Neurosciences.
- ✓ The Master allows students to specialize in their field of interest and includes extensive practical activities in laboratories.
- ✓ The training is anchored in a rich research environment (about 700 scientists/researchers working in 4 large research institutes in Neurosciences).

## A dense laboratory network in Neurosciences in Lyon



Internship abroad are also possible and encouraged

#### **Stem Cell and Brain Research Institute**

http://www.sbri.fr



#### **Lyon Neuroscience Research Center**

http://crnl.univ-lyon1.fr



#### NeuroMyoGène Institue

http://www.inmg.fr



#### **Cognitive Sciences Institute Marc Jeannerod**

http://www.isc.cnrs.fr







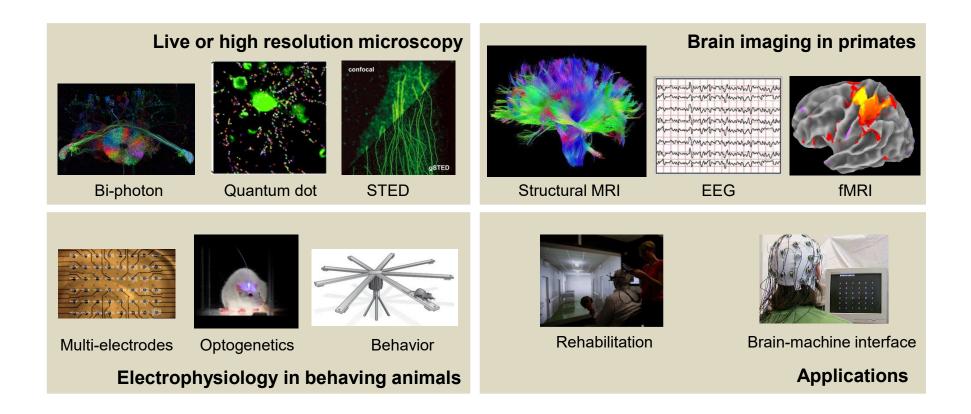






## A dense laboratory network in Neurosciences in Lyon

Research from cellular and molecular scale to clinical applications Multiple methods to study the brain structure and function





## **Studying in Lyon**

- ✓ Lyon 1 university is one of the largest universities in France (~47000 students) in the fields of science and technology, health and sport.
- ✓ The Rhône-Alpes area is an extremely dynamic economic and academic environment (chemical and environment, digital and biotech domains).

## **MASTER OF NEUROSCIENCES**

University Claude Bernard Lyon 1

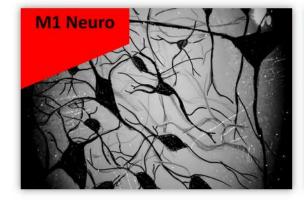
https://masterneuro.univ-lyon1.fr

https://masterneuro.univ-lyon1.fr



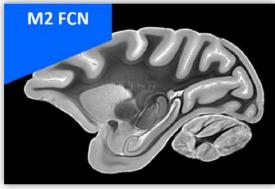
HOME PATHS - ADMISSION INTERNATIONAL LABS CONTACTS

#### M1 Neurosciences



A common first year to provide a strong Neuroscience background to all the students

#### M2 Fundamental and Clinical Neurosciences



A research-oriented path with emphasis on advanced methods in Neuroscience

#### M2 Sensory Neurosciences and Analysis



Neurosciences knowledge and tools applied to sensory analysis

## A 2-year master program



M1 Neuro

36 students

C. Amat

NEW in 2022-2023 English teaching

+ Medical students, engineers...

M. Richard

A. Didier & I. Cristofori

+ Engineers, psychologists...



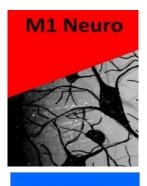
Fundamental and Clinical Neurosciences

36 students



Sensory Neurosciences and Analysis

12 students

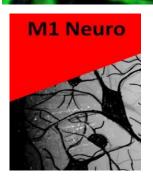


M2 FCN



- General information about the Master's program
- Master 1 Neurosciences: curriculum
- **Master 2 paths: curriculum and job openings** 3)
  - 3a) Master 2 Fundamental and Clinical Neurosciences (FCN)
  - 3b) Master 2 Sensory Neurosciences and Analysis (SNA)
- How to apply?
- **Your questions**







Semester 1

**30 ECTS** 

Semester 2

30 ECTS

- ✓ Disciplinary Courses (Cellular Neurosciences, Integrative Neurosciences, Cognitive Neurosciences, Clinical Neurosciences)
- ✓ Scientific tools (Methodology, Statistics, Bibliography, Communication, Internship)
- ✓ Transversal skills (English, Insertion into a professional environment)

## Optional disciplinary teaching units help you choose your M2 path

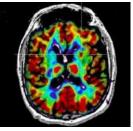


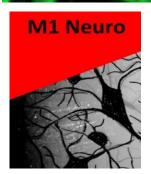














#### **First Semester**

#### **DISCIPLINARY COURSES**

Properties of Neuronal cells (Neuron) 6 ECTS

Behavioral
Neurosciences
(Behavior)
6 ECTS

Cognitive
Neurosciences and
Neuroimaging
(NeuroCo)
6 ECTS

#### **SCIENTIFIC TOOLS**

Methodology &
Statistics
(Methodex)
6 ECTS

Techniques for empirical research
(TechnEx)
6 ECTS

#### **Second Semester**

#### **DISCIPLINARY COURSES**

Clinical Neurosciences
(Clinical)
6 ECTS

Physiology of neural networks
(Networks)
6 ECTS

#### **SCIENTIFIC TOOLS**

## English

3 ECTS

Professional skills (ProSkills)

3 ECTS

Neurosciences internship 6 ECTS

7 weeks

#### **OPTIONAL UNITS**

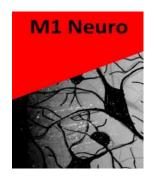
- Sensory Measures (Sensory)
- Neural trace of memory (Trace)
- Computational Neurosciences (NeuroComp intro)
- Development, Disease and Regeneration (DDR)
- Neuropsychologie (Neuropsycho)
- Immunité

Block 1

**Block 2** 

2 units from block 1 or 1 unit in each block





Questions so far?









- 1) General information about the Master's program
- 2) Master 1 Neurosciences: curriculum



- 3) Master 2 paths: curriculum and job openings
  - 3a) Master 2 Fundamental and Clinical Neurosciences (FCN)
  - 3b) Master 2 Sensory Neurosciences and Analysis (SNA)



- 4) How to apply?
- 5) Your questions

## Objectives & job openings for each path





M2 Fundamental and Clinical Neurosciences

36 students



Researcher (after a PhD) Engineer...



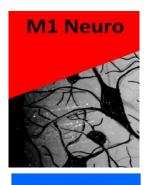
M2 Sensory Neurosciences and Analysis

12 students



Project manager in Sensory Analysis

Possible work-study training called « alternance »





- 1) General information about the Master program
- 2) Master 1 Neurosciences: curriculum
- 3) Master 2 paths: curriculum and job openings
  - 3a) Master 2 Fundamental and Clinical Neurosciences (FCN)
  - 3b) Master 2 Sensory Neurosciences and Analysis (SNA)
- 4) How to apply?
- 5) Your questions





University Claude Bernard Lyon 1

https://masterneuro.univ-lyon1.fr

#### **M2 Fundamental & Clinical Neurosciences**





#### **First Semester**

**DISCIPLINARY COURSES** 

**SCIENTIFIC TOOLS** 

**OPTIONAL UNITS** 

12 ECTS

Neuroconferences
(NeuroConf)
6 ECTS

Statistics (Stats) 3 ECTS

Project Management
(Project)
6 FCTS

English

3 ECTS

Neural Basis of Cognition (Cognition) 6 ECTS

Molecular and Cellular Neurosciences (Neurobiology)

6 ECTS

Computational Neurosciences (Neuro Comp) 6 ECTS Neuroimmunology (A2I)

3 ECTS

Advanced Clinical Neurosciences (Advanced Clinical)

**Second Semester** 

Full Time Neurosciences Laboratory Internship 30 ECTS



### **M2 Fundamental & Clinical Neurosciences**



#### Selected topics covered in fundamental, clinical and applied Neurosciences

CONFERENCES with focus made on hot topics in Neurosciences research and new methodologies.

## Neuroconferences e.g. topics since 2017

- Cellular Basis of circadian rhythms
- Neural Basis of social interactions
- Neuroimaging and brain stimulations applied to psychiatric pathologies
- Oscillations and Brain rhytms
- Changing scales in Neural Stem Cells research
- Pathophysiology of Parkinson's disease
- Language in the sensory motor brain
- Learning, memory consolidation and (local)
   sleep

## **OPTIONS** for specialization

#### **Molecular and Cellular Neurosciences:**

Synaptic plasticity; Brain development; Brain repair

#### **Neural Basis of Cognition:**

Perception, Action, Plasticity, Attention, Social Cognition

#### **Advanced Clinical Neurosciences:**

Neurological and psychiatric diseases, interventions

#### **Computational Neurosciences:**

Modeling, machine learning, artificial intelligence

#### **Neuro-immunology:**

Autoimmunity, Infection, Inflammation



#### **M2 Fundamental & Clinical Neurosciences**



## Job opportunities after the M2 FCN

- 1) PhD program >70% since 2018
- PhD program « Neurosciences et Cognition » in Lyon:

http://nsco.universite-lyon.fr

- other PhD programs worldwide (USA, Canada, England...)
- 2) Additional training for dual skills (administration, management, business, big data...) => mixed positions in private companies
- 3) Other opportunities, such as:
  - R&D in private companies
  - Research engineers in academia
  - Scientific publishing, editing, writing
  - Clinical Research Coordinator ...

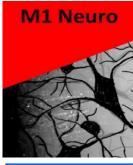




Questions so far?







- 1) General information about the Master's program
- 2) Master 1 Neurosciences: curriculum



- 3) Master 2 paths: curriculum and job openings
  - 3a) Master 2 Fundamental and Clinical Neurosciences (FCN)
  - 3b) Master 2 Sensory Neurosciences and Analysis (SNA)



- 4) How to apply?
- 5) Your questions

## **MASTER OF NEUROSCIENCES**

University Claude Bernard Lyon 1

### https://masterneuro.univ-lyon1.fr

Université Claude Bernard ((48)) Lyon 1

**Analysis** 



**M2 Sensory Neurosciences & Analysis** 

Chemistry/Biochemistry

Sensory

Physiology/ Neurosciences

Psychology

## Objective:

To train specialists in Sensory Analysis, able to use the Neurosciences tools and knowledge in different fields of application

(food, cosmetics, perfumes, clothing, environment, car, video games...).

Project manager in Sensory Analysis Additional training (PhD, Business

Project manager in consumer studies

Researcher,
Business manager...





#### **M2 Sensory Neurosciences & Analysis**

#### **First Semester**

## **OPEN to work-study training**

Teaching is project-based and involves professionals from the industry.

#### **DISCIPLINARY COURSES**

Psychophysiology of perception (PsychoPhy)

6 ECTS

Sensory Analysis and consumer studies

(Sensory Analysis)

6 ECTS

Business Applications (BusinessApp)

3 ECTS

Data Processing

(Data)

3 ECTS

#### SCIENTIFIC TOOLS

Statistics (Stats)

3 ECTS

Project Management (Project)

6 ECTS

**English** 

3 ECTS

**Second Semester** 

Full Time **Professional Internship** 30 ECTS



#### **M2 Sensory Neurosciences & Analysis**



## Job openings

Immediate professional insertion: 80-100%

PhD: 0-10%

For more details (in French), see

https://www.univ-lyon1.fr/universite/organisation/observatoire-de-la-vie-etudiante#.YinVRnrMI2w

✓ **Jobs:** Project manager in R&D departments (sensory design; sensory impact of manufactured products on consumers



✓ Application fields:

Cosmetic, perfumes, car industry, clothing, food, medical devices, video game...).

- ✓ PhD opportunities, often in collaboration with an industry (ex. CIFRE contract in France).
- ✓ Complementary training programs: Business, management or marketing schools, big data

## MASTER OF NEUROSCIENCES

University Claude Bernard Lyon 1

https://masterneuro.univ-lyon1.fr



### **M2** Sensory Neurosciences & Analysis

## Ex of companies who hosted interns









































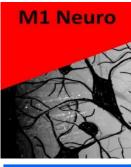






Questions so far?







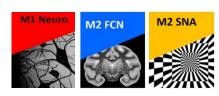




- 1) General information about the Master's program
- 2) Master 1 Neurosciences: curriculum
- 3) Master 2 paths: curriculum and job openings
  - 3a) Master 2 Fundamental and Clinical Neurosciences (FCN)
  - 3b) Master 2 Sensory Neurosciences and Analysis (SNA)
- 4) How to apply?
- 5) Your questions

University Claude Bernard Lyon 1

https://masterneuro.univ-lyon1.fr









Application process depends on your country of origin and your current administrative situation

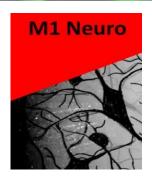
French citizen

https://ecandidat.univ-lyon1.fr/

#### Other citizen

- European Union https://ecandidat.univ-lyon1.fr/
   (+ Switzerland, Norway, Island, Liechtenstein)
- 65 countries listed on EEF procedure https://www.campusfrance.org
   EEF = Etudes en France
- Other countries not listed on EEF 
   https://ecandidat.univ-lyon1.fr/

These general rules may change if you are currently residing in France, please contact the Scolarité UFR Biosciences or International Students office to enquire about your specific situation. In any case, you are responsible for obtaining a visa if required to study in France.



## **Application for Master 1st year**



- ✓ **EEF procedure** now closed (usually opens in Fall of year N-1)
- ✓ eCandidat procedure : https://ecandidat.univ-lyon1.fr/

Select : Département de Biosciences / Master LMD / M1 Neurosciences

### Calendar

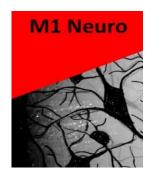


- Application procedure opening: 24<sup>th</sup> April 2022
- Application procedure closing: 24th May 2022
- Results publication: **24**<sup>th</sup> **June 2022**
- Confirm you acceptance on eCandidat: **before 8**<sup>th</sup> **July 2022**
- From 8<sup>th</sup> July: calling on complementary list

Note 1: A detailed instruction document is available in English on eCandidat

Note 2: Questions related to the administrative procedure should be addressed to

candidatures.biosciences@univ-lyon1.fr



## **Application for Master 1st year**

Who can apply?

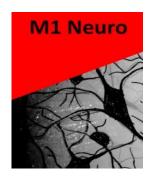


#### Students having a deep interest in Neurosciences and

- ✓ Holding a Bachelor of Sciences in Life Sciences or scientific disciplines related to Neurosciences (Cognitive Sciences, Mathematics / Informatics /Physics applied to Biology...) including
  - □ a minimum of 6 ECTS or equivalent in Neurosciences and/or Cognitive Sciences

#### AND

- □ a minimum of 12 ECTS or equivalent in Physiology, Biology and/or Mathematics / Informatics /Physics applied to Biology...
- ✓ Holding a B2 level in English
- ✓ Showing scientific skills (scientific questioning and reasoning, ability to synthesize, to communicate...)



## **Application for Master 1st year**

## Selection criteria



- Academic results
  - ✓ Evaluated on your grade certificates
- 2. Acquired scientific and methodological knowledge and practical skills
  - ✓ Grades of your previous project defense and written reports
  - ✓ A personal statement summarizing a scientific project that you developed during a course or an internship
- 3. Motivation & personal project (being aware of the training program, being able to define your expectations and the adequacy of the training program with your professional project)
  - ✓ CV, cover letter, support letter(s) from previous teachers or internship supervisor



## **Application for Master 2nd year**



- ✓ EEF procedure closed (open Fall of year N-1)
- ✓ eCandidat procedure : https://ecandidat.univ-lyon1.fr/

Select : Département de Biosciences / Master LMD /

M2 Neurosciences – prcs Fundamental and Clinical Neurosciences or M2 Neurosciences – prcs Sensory Neurosciences and Analysis

#### Calendar



- Application procedure opening: 13<sup>th</sup> May 2022
- Application procedure closing: 15<sup>th</sup> June 2022
- Results publication: 4<sup>th</sup> July 2022
- Confirm you acceptance on eCandidat before 11<sup>th</sup> or 15<sup>th</sup> July 2022
- From mid-July : calling on complementary list
- Note 1: Priority is given to students holding a M1 Neurosciences from UCB Lyon1 (French law)
- Note 2: A detailed instruction document is available in English on eCandidat

## **Application for Master 2nd year**

# Université Claude Bernard (Vp) Lyon 1

## Who can apply?

- ✓ Students holding a **1st year Master of Sciences** in Neurosciences or scientific disciplines related to Neurosciences (Cognitive Sciences, Mathematics / Informatics /Physics applied to Biology...).
- ✓ Students with a B2 level in English
- ✓ Students with **scientific skills** (scientific questioning, scientific reasoning, capacity to synthetize, to communicate...)



- ✓ M2 FCN is also open to medical and engineer students
- ✓ Students with a deep interest for Research in Neurosciences



- ✓ SNA is open to engineer students
- ✓ Students with a deep interest for applied neurosciences in the field of sensory analysis and consumer studies in non academic organizations

## **Application for Master 2nd year**

## Université Claude Bernard Lyon 1

#### Selection criteria

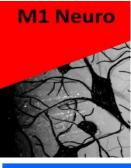
- Academic results
- 2. Acquired scientific and methodological knowledge and practical skills
- 3. Motivation & personal project (being aware of the training program, being able to define your expectations and the adequacy of the training program with your professional project)



 ✓ Letter of acceptance from a qualified research lab (5-6 months internship)



✓ Interview of short-listed applicants (June 24<sup>th</sup>-29<sup>th</sup>)







2) Master 1 Neurosciences: curriculum

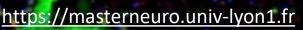


- 3) Master 2 paths: curriculum and job openings
  - 3a) Master 2 Fundamental and Clinical Neurosciences (FCN)
  - 3b) Master 2 Sensory Neurosciences and Analysis (SNA)
- 4) How to apply?
- 5) Your questions



## **MASTER OF NEUROSCIENCES**

University Claude Bernard Lyon 1



## **Contacts**:



## **Master Neurosciences (coordinator):**

Corine Amat : <u>corine.amat@univ-lyon1.fr</u>

**M1** Neurosciences



Corine Amat : <u>corine.amat@univ-lyon1.fr</u>

M2 Fundamental & Clinical Neurosciences (FCN)



Marion Richard: <u>marion.richard@univ-lyon1.fr</u>

M2 Sensory Neurosciences & Analysis (SNA)



Anne Didier : <a href="mailto:anne.didier@univ-lyon1.fr">anne.didier@univ-lyon1.fr</a>

Irene Cristofori : <u>irene.cristofori@univ-lyon1.fr</u>

+ for administrative questions

Scolarité UFR Biosciences candidatures.biosciences@univ-lyon1.fr

International Relations
Department of UCBLyon 1

https://www.univ-lyon1.fr/en/education