



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



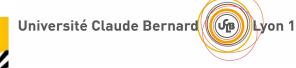
- 3) Master 2 paths: curriculum and job openings
 - 3a) Master 2 Fundamental and Clinical Neurosciences (FCN)
 - 3b) Master 2 Sensory Neurosciences and Analysis (SNA)



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

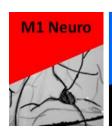
A 2-year master program in English





- ✓ This highly **interdisciplinary program in Neurosciences** 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 thanks to optional teaching units and specialized paths in M2, and includes extensive **practical activities in laboratories**.

A 2-year master program in English









- ✓ The training is anchored in a rich research environment (about 700 scientists/researchers working in 4 large research institutes in Neurosciences)
- ✓ The program encourages international mobility.

Neurograduate program (UCBL – ANR)

https://neurograduate.univ-lyon1.fr

neurograduate



- Individual mentoring program
- Project-based training on research platforms (state of the art techniques)

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







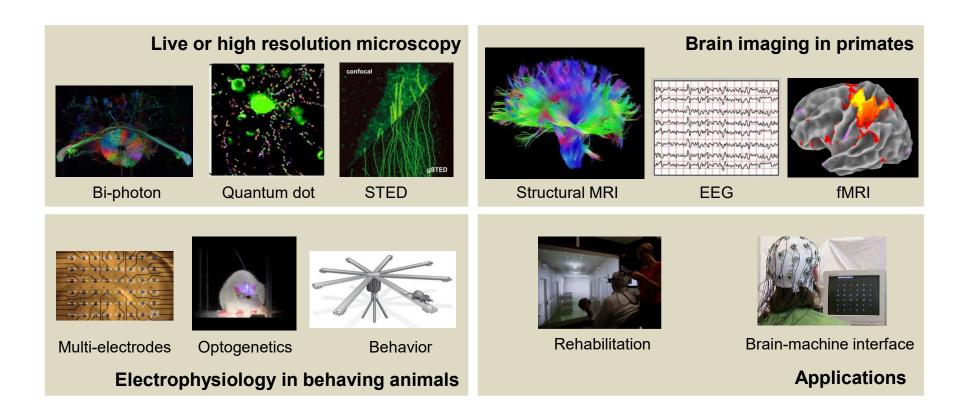




Université Claude Bernard

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).
- ✓ 2h train to Paris, 2h drive to the French Alpes and 3h drive to the Mediterranean sea!!

MASTER OF NEUROSCIENCES

University Claude Bernard Lyon 1

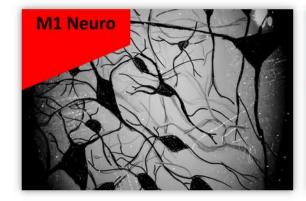
https://masterneuro.univ-lyon1.fr

https://masterneuro.univ-lyon1.fr



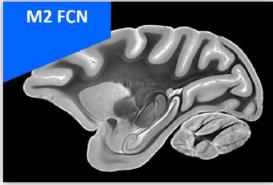
HOME PATHS V ADMISSION INTERNATIONAL LABS CONTACTS

M1 Neurosciences



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

M2 Fundamental and Clinical Neurosciences



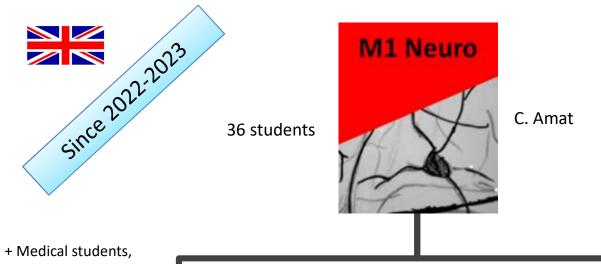
A research-oriented path with emphasis on advanced methods in Neuroscience

M2 Sensory Neurosciences and Analysis



Neurosciences knowledge and tools applied to sensory analysis





+ Engineers, psychologists...

+ Medical students, Engineers, other M1 under conditions...

M2 FCN

M. Richard

Fundamental and Clinical Neurosciences

36 students



I. Cristofori

Sensory Neurosciences and Analysis

12 students





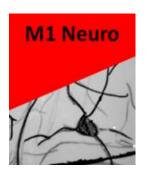
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Semester 1

30 ECTS

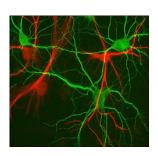
Semester 2

30 ECTS

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

Sem 2: Optional disciplinary teaching units help you choose your M2 path

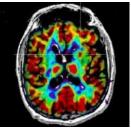


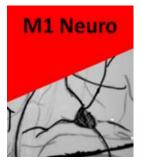














First Semester

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)

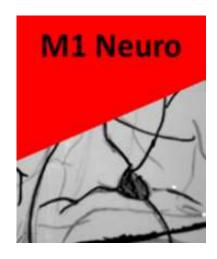
3lock

Block 1

- Neuropsychologie (Neuropsycho)
- Immunité

2 units from block 1 or 1 unit in each block

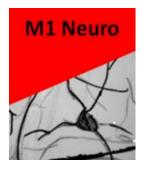




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https://masterneuro.univ-lyon1.fr

Objectives & job openings for each path





M2 Fundamental and Clinical Neurosciences

36 students



Researcher (after a PhD) Engineer...



M2 Sensory Neurosciences and Analysis



Project manager in Sensory Analysis

12 students

Possible work-study training called « alternance »





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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 ECTS

English 3 ECTS Neural Basis of Cognition (Cognition)

Molecular and Cellular Neurosciences (Neurobiology) 6 FCTS

> Computational Neurosciences (Neuro Comp) 6 ECTS

Neuroimmunology
(A2I)
3 ECTS

Advanced Clinical Neurosciences (Advanced Clinical) 3 ECTS

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 rhythms
- Changing scales in Neural Stem Cells research
- Pathophysiology of Parkinson's disease
- Language in the sensory motor brain
- Naturalistic neurosciences

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 ...





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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



24













































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General Application rules





Application process depends on your **country of origin** and your **current administrative situation**, and the **Master's year** (M1 ≠ M2)

French citizen

https://www.monmaster.gouv.fr

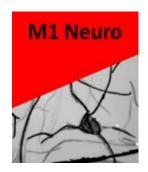
Other citizen



European Union

- https://www.monmaster.gouv.fr
- 67 countries listed on EEF procedure \Longrightarrow https://www.campusfrance.org
- 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)
- ✓ monmaster.gouv.fr procedure : https://www.monmaster.gouv.fr
- ✓ eCandidat procedure : https://ecandidat.univ-lyon1.fr/

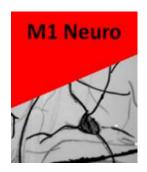
 Select : Département de Biosciences / Master LMD / M1 Neurosciences

Calendar



- Application procedure opening: 22th March 2023
- Application procedure closing: **18**th **April 2023**
- Results publication: 23rd June 2023
- Confirm your acceptance on the platform:
 - before **26**th **June 2023 @ 11.59pm** for proposal received before June 24th included,
 - **Day + 1 @ 11.59pm** for proposals received between June 25th and July 20th (complementary list)

Note 1: A detailed instruction document is available in English on both platforms & Master's website 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?

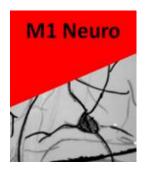


Students having a deep interest in Neurosciences and

- ✓ 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 12 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

Université Claude Bernard Lyon 1

Selection criteria



Master Neuro specific form to be downloaded, completed and submitted via the platform (monmaster.gouv.fr or ecandidat)

- 1. 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 : 10th May 2023
- Application procedure closing: 13th June 2023
- Results publication : 5th July 2023
- Confirm your acceptance on eCandidat before 13th July 2023
- 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 and Master's website

Application for Master 2nd year

Université Claude Bernard

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

Université Claude Bernard ((ป๋ย)

Application for Master 2nd year

Selection criteria

- 1. 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)

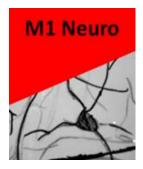


✓ Letter of acceptance from a qualified research lab (5-6 months internship)



✓ Interview of short-listed applicants (June 23rd-30th)





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CONTACTS



Master Neurosciences (coordinator):

Corine Amat : corine.amat@univ-lyon1.fr

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)



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



G⁺ Neuro

https://neurograduate.univ-lyon1.fr

Emiliano Macaluso emiliano.macaluso@univ-lyon1.fr