

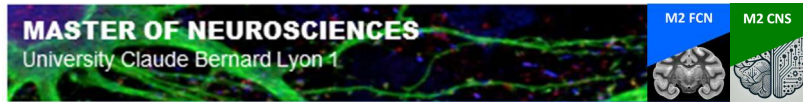
***NeuroConferences organized by the Master 2 FCN and CNS of UCB Lyon 1 –
with the support of Labex Cortex
2025***

Brain-Body interactions		Organizer: Dr Emmanuelle COURTIOL emmanuelle.courtiol@cnrs.fr	
This Neuroconferences session delves into the rich and complex dialogue between brain and body, focusing on three key pathways: the respiration-brain, heart-brain, and gut-brain axes. Through work in both humans and rodents, the speakers will show how these interactions shape neural activity and behavior. Bodily signals and rhythms emerge as powerful modulators and indexes of perception, emotion & cognition. Rather than being isolated from the rest of the body, brain activity is deeply embedded in a dynamic, two-way system. This is a rapidly evolving field at the intersection of neuroscience, physiology, and behavior—drawing increasing attention for its implications in health and well-being.			
Tue Sept 30	Respiration-brain interactions		
	9.30-11.00	Dr Emmanuelle COURTIOL (Centre de Recherche en Neurosciences de Lyon) General introduction Brain-body interaction through the lens of the olfactory system and respiration	Amphi Neurocampus CRNL (CH Le Vinatier, Bat. 462, 95 bd Pinel, Bron)
	11.00-12.15	Dr Sophie BAGUR (ESPCI Paris Tech, Paris) What breathing tells the brain in fear and recovery ONLINE speaker	
	Respiration, heart and brain interactions		
	13.30-14.45	Dr Charles VERDONK (Institut de Recherche Biomédicale des Armées, Brétigny sur Orge ; Université Paris Cité) Brain–Body Interactions in Health and Disease: Neurophysiological Mechanisms and Clinical Perspectives	Amphi Neurocampus CRNL (CH Le Vinatier, Bat. 462, 95 bd Pinel, Bron)
	15.00-16.15	Dr Veronica EGGER (Regensburg University, Germany) How neurons can "feel the pulse" within the brain ONLINE speaker	
	16.15-17.30	Dr Valentin GHIBAUDO (Centre de Recherche en Neurosciences de Lyon) Coupling Between Brain and Body Rhythms in Healthy and Brain-Injured Humans	

Gut-Brain interactions				
Wed Oct 1	9.15-10.30	Dr Amandine GAUTIER-STEIN (Nutrition, Diabète et Cerveau, Lyon) Intestinal gluconeogenesis : how nutrients trigger a gut-brain neural circuit at the crossroads of metabolic and emotional functions	Amphi Neurocampus CRNL (CH Le Vinatier, Bat. 462, 95 bd Pinel, Bron)	
	10.30-11.45	Dr Léonie KOBAN (Centre de Recherche en Neurosciences de Lyon) Interactions between social context, brain, and body: from placebo effects to gut-brain interactions.		
	13.00-14.15	Dr Gabriel LEPOUSEZ (Institut Pasteur, Paris) The microbiota-gut-brain axis : new perspectives in mental health ONLINE speaker		
	14.15-15.30	Dr Ignacio REBOLLO (Institute of Human Nutrition, Germany) Gut-Feelings: How signals from the gut can influence brain activity and cognition. ONLINE speaker		
	15.30-16.30	Preparation for flash talks (students only)		
Fri Oct 3	10.00-12.00	WORKSHOP: student flash talks (students only)	Amphi Neurocampus CRNL (CH Le Vinatier, Bat. 462, 95 bd Pinel, Bron)	

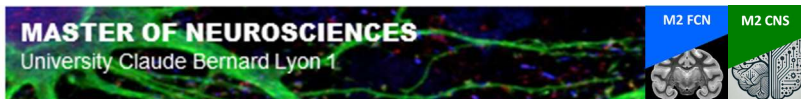
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Cortical and subcortical networks for learning and decision-making across species		Organizers: Dr Romain Ligneul & Dr Christiane Schreiweis Centre de Recherche en Neurosciences de Lyon christiane.schreiweis@univ-lyon1.fr romain.ligneul@inserm.fr		
"Knowing is not enough; we must apply. Willing is not enough; we must do." — Johann Wolfgang von Goethe. <i>Maxims and Reflections</i>, Aphorism 324. Learning and decision-making are among the most remarkable capacities of the brain. They emerge, among others, from the dynamic interplay of cortico-cortical and cortico-basal ganglia circuits. In line with the definition of an animal as a moving creature and historically limited to motor aspects, today's research on cortico-basal ganglia circuits focuses on the fine dynamic interplay and established or disrupted equilibrium of motivational, cognitive and motor functions in healthy or pathological states, respectively. In a first session, we will explore how the neuroanatomy of these networks, i.e. the structure, defines and enables function. In a second session, we will shine light on how learning usually starts with conscious effort, guided by explicit motivation and goals; and how, with practice, actions become automatized into efficient habits and routines. Pathological deviations in these circuits disrupt the behavioral control and loss of specific neuronal populations can impair both learning and the execution of learnt actions and sequences. Such dysfunctions, covered in our third session, contribute to disorders such as, for example, obsessive–compulsive disorder and Parkinson's disease. Finally, in a fourth session, we will consider learning beyond the individual and as a cornerstone of social interaction and collective behavior.				
	Session 0 – intro (students only)			
	Tue Oct 7	9.30-11.00	Dr Christiane Schreiweis and Dr Romain Ligneul (Centre de Recherche en Neurosciences de Lyon) Introduction to the topic (student-only)	Amphi Neurocampus CRNL (CH Le Vinatier, Bat. 462, 95 bd Pinel, Bron)
		11.30-12.30	Students attend the CRNL Conference by Dr Giovanni Marsicano (NeuroCentre Magendie, Bordeaux) "A cannabinoid way to understanding brain complexity"	



	Session 1 - Neuroanatomy and behavior		
	14.00-15.00	Dr Léon Tremblay (Institut des Sciences Cognitives - Marc Jeannerod, Bron) Title: Pathophysiology of Basal Ganglia: From movement to behavioral disorders: Translational and Multimodal investigations in human and non-human primate.	Amphi Neurocampus CRNL (CH Le Vinatier, Bat. 462, 95 bd Pinel, Bron)
	15.00-16.00	Dr Jill Crittenden (Massachusetts Institute of Technology, McGovern Institute for Brain Research, USA) Title: Parallel architecture of striatal compartments and pathway ONLINE speaker	
	16.00-17.00	Dr Christiane Schreiweis (Centre de Recherche en Neurosciences de Lyon & Institut du Cerveau, Paris) Title: Modeling the neurobiological architecture and function of human language capacities in the humanized Foxp2 mouse model	
Wed Oct 8	Session 2 - From goal-directed to habitual behaviors		
	10.00-11.00	Dr Shauna Parkes (Institut de Neurosciences Cognitives et Intégratives d'Aquitaine, Bordeaux) Title: Updating goal-directed behaviour: Cortical and subcortical bases	Amphi Neurocampus CRNL (CH Le Vinatier, Bat. 462, 95 bd Pinel, Bron)
	11.15-12.15	Dr Jérémie Naudé (Institut de Génomique Fonctionnelle, Montpellier) Title: Using reinforcement learning models to study the neurobiology of decision making	
	14.00-15.00	Dr Medhi Khamassi (Institut des Systèmes Intelligents et de Robotique, Paris) Title: Behavioral learning: From associative learning to reinforcement learning	
	15.00-16.00	Dr Romain Ligneul (Centre de Recherche en Neurosciences de Lyon) Title: Competing codes and algorithms for predicting and deciding	

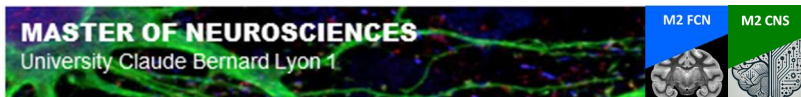
Wed
Oct 8



Thur Oct 9	Session 3 – Maladaptive behaviors		
	9.00-10.00	Dr Eric Burguière (Centre de Recherche en Neurosciences de Lyon & Institut du Cerveau, Paris) Title: Translational approach to investigate the neurofunctional bases of compulsive behaviours.	Amphi Neurocampus CRNL (CH Le Vinatier, Bat. 462, 95 bd Pinel, Bron)
	10.00-11.00	Dr Ledia Hernandez (Universidad Camilo Jose Cela, Madrid) Title: From goal-directed to habitual behaviour: striatal neuronal activity in a dopamine depleted animal model ONLINE speaker	
	11.00-12.00	Dr Anna Beyeler (Neurocentre Magendie, Bordeaux) Title: Contributions of the insular cortex to anxiety-related behaviors in mice: from dopamine modulation to psychedelics anxiolysis	
	Session 4 - Beyond individuals: social decisions & communication		
	14.00-15.00	Dr Christelle Baunez (Institut de Neurosciences de la Timone, Marseille) Title: Involvement of the subthalamic nucleus in various processes of decision-making in rats, non-human primates and human subjects	Amphi Neurocampus CRNL (CH Le Vinatier, Bat. 462, 95 bd Pinel, Bron)
	15.00-16.00	Dr Rhagav Rajan (Indian Institute of Science Education and Research, Pune) Title: Using songbirds to understand the initiation of complex movement sequences. ONLINE speaker	
	16.00-17.00	Debrief with students	

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Open Science, Integrity, and Equity in Research		Organizers: Dr Anne Kosem & Dr Nicola Kuczewski anne.kosem@inserm.fr nicola.kuczewski@univ-lyon1.fr and the “Scientific integrity” and “Equity” workgroups of the Centre de Recherche en Neurosciences de Lyon		
This conference addresses three major pillars of responsible research: Open Science, scientific integrity, and equity. It aims to equip Master’s students with essential tools and perspectives to conduct and evaluate research that is ethical, transparent, and socially aware.				
Tue Oct 14	Day 1			Amphi Neurocampus CRNL (CH Le Vinatier, Bat. 462, 95 bd Pinel, Bron)
	9h-10h	Dr Bertrand Beffara (Institute of Cognitive Sciences Marc Jeannerod, Bron) Title: Using scientific integrity tools to improve scientific quality: a treat not a trap		
	10h-11h	Dr Florian Naudet (Université de Rennes) Title: On the Reliability of Findings in Biomedical Science. ONLINE speaker		
	11h15-12h15	Dr Raphaël Levy (Université Sorbonne Paris Nord) Title: Who Should Be Responsible for Correcting Errors (or Worse) in Scientific Literature?		
	12h15-13h15	Dr Guillaume Sescousse (Centre de Recherche en Neurosciences de Lyon, Lyon) Title: Publishing in the era of open science		
	14h15 -15h15	Dr Denis Bourguet (INRAE Montpellier) & Dr Thomas Guillemaud (INRAE Sophia-Antipolis) Title: Beyond Traditional Publishing: Embracing Registered Reports with PCI RR. ONLINE speaker		
15h15-16h15	Dr Boris Barbour (Institut de Biologie de l'École Normale Supérieure, Paris) Title: Post-publication peer review. Community-Driven Assessment on PubPeer.			



Wed Oct 15	Day 2		
	14h-15h	Dr Gaëlle Leroux (Centre de Recherche en Neurosciences de Lyon) Title: Opening science through preregistration, standardization and documentation.	Amphi Neurocampus CRNL (CH Le Vinatier, Bat. 462, 95 bd Pinel, Bron)
	15h-16h	Dr Julie Grèzes (Laboratoire de Neurosciences Cognitives, ENS, Paris). Title: Understanding the mechanisms underlying racial and gender biases.	
	16h15-17h15	Dr Anaïs Llorens (IGHU Neuro-Sainte-Anne, Paris) Title: Gender Bias in Scientific Research and Strategies to Promote Equality. ONLINE speaker	
	17h15-18h15	Dr Damien Gervasoni and Dr Anne Kosem (Centre de Recherche en Neurosciences de Lyon) Title: Animal and Human Research Ethics: The Role of Ethics Committees and Regulatory Principles.	
Fri Oct 17	Day 3 – students only		
	14h-17h15	Practical classes Student debates on topics covered during the conferences, using the “Dilemma Game” application (https://www.eur.nl/en/about-university/policy-and-regulations/integrity/research-integrity/dilemma-game). 	La Doua campus; building Nautibus, room C008