

***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	