

UE Neural Basis of Cognition - with the support of Labex Cortex

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Before the talks: Read important papers to optimize the understanding of UE "Neural Basis of Cognition".

Monday November 17, 2025 - CEREBRAL PLASTICITY and APPLICATIONS

Amphitheater "Institut des Sciences Cognitives Marc Jeannerod" (Bron)

09.30-10.30 **General Introduction.** I Cristofori (ISCMJ) & C Amiez (SBRI)

Instruction for the organization of the UE

How to prepare for the exam

10.30-12.00 **Plasticity after tumor resection.** P-A Beuriat (ISCMJ, HFME)

14.00-15.30 **Sensorial plasticity** A. Farné (CRNL)

15.30-17.00 **Motor plasticity** C. Brozzoli (CRNL)

Tuesday November 18, 2025 – PHYLOGENESIS CONTRIBUTIONS TO COGNITION

Amphitheater "Institut des Sciences Cognitives Marc Jeannerod" (Bron)

09.30-11.00 **Evolution of language: phylogenetic and ontogenetic perspectives.** C Crockford (ISCMJ)

11.00-12.30 **Thinking others in primates.** J Sallet (SBRI)

14.00- 15.30 **Neuronal processes underlying motivation in primates.** S Bouret (ICM, Paris)

15.30- 17.00 **From Behavior to Brain: Investigating Social Tolerance in Macaques.** S Sylèvre (Univ. of Strasbourg)

Wednesday November 19, 2025 – LEARNING & COGNITION

Amphitheater "Institut des Sciences Cognitives Marc Jeannerod" (Bron)

09.30-11.00 **Neurophysiological correlates of learning to learn abilities.** C Wilson (SBRI)

11.00-12.30 **Learning and hippocampus.** S Wirth (ISCMJ).

14.00-15.30 **From voluntary to automatic actions: The role of dopamine on corticostriatal circuits involved in procedural learning.** L Tremblay (ISCMJ)

15.30-17.00 **Motor learning in healthy individuals.** Q Moreau (ISCMJ)

Thursday November 20, 2025 – SOCIAL COGNITION

Amphitheater "Institut des Sciences Cognitives Marc Jeannerod" (Bron)

09.30-11.00 **Sensory perception and emotions in primates.** F Hadj-Bouziane (CRNL)

11.00-12.30 **On the Gestural Origin of Language: What Primate's Behavior, Cognition and Brain tell us**
A Meguerditchian (Cognitive Psychology Laboratory of NeuroMarseille)

14.00-15.30 **The science of theory of mind -** L Bardi (Ghent University, Belgium)

15.30-17.00 **Neurophysiology of acoustic communication: studying the brain in naturalistic contexts**
A. Léfèvre (ISCMJ)

Friday November 21, 2025 – ONTOGENESIS CONTRIBUTION TO COGNITION

Amphitheater "Institut des Sciences Cognitives Marc Jeannerod" (Bron)

- 09.30-11.00 **Developmental Coordination Disorders: Early Markers, and Educational Implications A**
Gomez (CRNL)
- 11.00-12.30 **The impact of social experiences on development.** P-F Ferrari (ISCMJ)
- 14.00-15.30 **Educating the mathematical brain.** J Prado (CRNL)
- 15.00-17.00 **Rethinking Autism through the lens of action: linking motor, cognitive, and social development.** C Schmitz (CRNL)