



CHERCHEUR EN NEUROSCIENCES DE LA PERFORMANCE SPORTIVE

**CALMELS CLAIRE**

**PHD, HDR**

QUALIFIED TO THE FUNCTIONS OF PROFESSOR OF UNIVERSITIES - SECTION 69  
INTERNATIONAL RELATIONS OFFICER

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## SPECIALITIES

- › Cognitive Neuroscience

## RESEARCH TOPICS

- › Conscious/Inconscious Visual Perception & High Performance Sport
- › Motor Simulation & Injury Management (preventive and curative approaches)
- › Perceptual-Cognitive Training & High Performance Sport
- › Neurofeedback & Performance Optimization

## SCIENTIFIQUE SUPPORT (ASP)

- › **Interventions : Prevention of Injury, Return from Injury, Management of Containment and Return to Physical Practice, Technical-Tactical Improvement in Sport, Optimization of Visual Perception in an Ecological Context, Mental Preparation**
- › **Federations : Athletics (Perche & Pentathlon), Rowing, Badminton, Basketball, Fencing, Artistic/Rhythmic Gymnastics, Judo, Pentathlon, Diving, Archery, Trampoline, Table Tennis, Sailing**

## MAIN SCIENTIFIC PUBLICATIONS

- › **[Calmels, C.](#) (2020). Neural correlates of motor expertise: Extensive motor training and cortical changes. *Brain Research*, 1739, 146323. [Vers l'article](#)**
- › **[Calmels, C.](#) (2019). Beyond Jeannerod's motor simulation theory: an approach for improving post-traumatic motor rehabilitation. *Neurophysiologie Clinique/Clinical Neurophysiology*, 49, 99-107. [Vers l'article](#)**
- › **[Calmels, C.](#), [Elipot, M.](#), & [Naccache, L.](#) (2018). Probing representations of gymnastics movements: a visual priming study. *Cognitive Science*, 42(5), 1529-1551. [Vers l'article](#)**
- › **[Calmels, C.](#), [Pichon, S.](#), & [Grèzes, J.](#) (2014). Can we simulate an action that we cannot temporarily perform? *Neurophysiologie Clinique/Clinical Neurophysiology*, 44, 433-445.**
- › **[Calmels, C.](#), [Holmes, P.](#), [Jarry, G.](#), [Hars, M.](#), [Lopez, E.](#), [Paillard, A.](#), [Stam, C.J.](#) (2006). Variability of EEG synchronization prior to, and during observation and execution of a sequential finger movement. *Human Brain Mapping*, 27(3), 251-266. [Vers l'article](#)**

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