

# 第127回スポーツサイエンス研究会

グローバルCOEプログラム「アクティブ・ライフを創出するスポーツ科学」

日時 2013年7月25日(木) 16:00より

場所 早稲田大学 所沢キャンパス 100号館5F 第一会議室

**演題** Feedback Expectation During Skill Learning

Dr. Steven Hackley  
(University of Missouri, Columbia)

Rapid and accurate feedback is critical for learning a new skill. Evidence from primate neurobiology has highlighted the central role of the reward system in this process. According to the leading theory (Schultz, 2002), the discharge of dopamine neurons upon receipt of feedback depends on whether the outcome was better or worse than expected. The experiments to be presented are concerned with developing a measure this expectation in humans using the methods of psychophysiology (EEG, startle-blink) and neuroimaging (fMRI). Central or peripheral nervous system activity is recorded as participants await reward or punishment in various gambling tasks. By comparing healthy older adults to those with Parkinson's disease, it is possible to draw conclusions regarding the dopamine system. Some of this research was conducted in collaboration with Dr. Hiroaki Masaki, of Waseda University.



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