UQÀM | Faculté des sciences de l'éducation
Université du Québec à Montréal

CONFÉRENCE

Large-scale brain network supporting science learning and anxiety in undergraduate physic students

Le jeudi 27 septembre 2018, de 12h30 à 13h30

Un diner froid est offert pendant la conférence

Une conférence de
Angela Laird, Ph.D., professeure, Florida International University

Understanding how students learn may be a critical step towards helping them succeed, particularly in STEM disciplines. Using fMRI, we examined brain function before and after undergraduate physics classroom instruction. We found integrated executive, attentional, visual motion, and default mode brain systems that support physics problem solving, with solution generation relying on cooperation between executive and episodic memory systems. We explored the relationship between anxiety and gender across individuals, revealing separate neural mechanisms for STEM and generalized anxiety. Overall, these findings point towards the significance of science education in shaping changes to functional brain architecture and may offer insight into effective classroom practices to promote student success.

Lieu	Didacthèque UQAM – Pavillon Thérèse Casgrain (W) Local W-1010 455 Boulevard René-Lévesque E.
R.S.V.P.	moisan.etienne@uqam.ca

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