

IGSN - SYMPOSIUM

Monday, October 23rd 2023 • 15.00 (3 pm)

FNO – 01 / 117

Stress and memory accuracy

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Consolidation and transformation of emotional memories

Stressful and emotionally arousing events have a powerful influence on the functioning of memory systems. This influence is mediated by stress-activated hormones and neurotransmitters that enhance neuronal plasticity around the time of encoding but also distinctly alter time-dependent processes that support memory consolidation after learning. Consequently, memories of stressful events not only remain strong but also transform over time in a manner that is qualitatively different from neutral memories. I will present a series of human experiments, inspired by and closely aligned with animal research, which reveal post-learning mechanisms and time-dependent changes in neural systems supporting long-term memory formation and recall.

Host:

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