



Member-initiated Session (fMRI Study Group)

MIS01-1

Brain-Wide Networks for Emotion: From Normal Traits to Disordered States

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Emotions are central determinants of social behavior, and the capacity to regulate affect is critical for adaptive functioning. In this talk, I will present my lab's efforts to delineate the neural architecture of emotion regulation by leveraging large-scale network connectivity analyses, with an emphasis on linking ambiguity processing to individual differences in anxious traits. While canonical models focus on amygdala–medial prefrontal interactions, accumulating evidence suggests that distributed socioemotional networks play equally important roles in shaping regulatory capacity and vulnerability to psychopathology. I will further argue that progress in characterizing the neurocognitive mechanisms of anxiety depends on accounting for both its universal signatures across individuals and its idiosyncratic variability at the person-specific level.

Keywords: Emotion, Anxiety, fMRI, Amygdala, Connectome, Psychopathology