

Bridging emotion and decision making: a view through neural circuits

Symposium 2S03a 15:10-17:10 Room 3 (2F Main HallB)

Summary

In response to imminent danger or pleasure, emotions produce powerful and somewhat inflexible behavioral and visceral responses. In other situations, more deliberative, goal directed decision making is required for optimal behavior. In recent years, powerful tools for manipulating and recording the activity of specific cell populations in defined circuits have resulted in dramatic advances in our understanding of the brain mechanisms mediating emotional behaviors and deliberative decision making. In this symposium speakers at the cutting edge of circuit neuroscience will describe recent work on the role of the amygdala and basal ganglia systems in emotion and decision making and how these systems interact to guide adaptive behavior.

Chairpersons : Joshua Patrick Johansen RIKEN Center for Brain Science

Anatol Kreitzer Gladstone Institutes/UCSF

2S03a-1

(15:10)

The nature of dopamine signals during spatial navigation

Naoshige Uchida

Harvard University

2S03a-2

(15:34)

Prefrontal-thalamic pathways involved in emotional regulation

Stephen Maren

Texas A&M University

2S03a-3

(15:58)

Cerebral and systemic integration mechanisms to elicit the crisis-response state

Reiko Kobayakawa, Ko Kobayakawa

Kansai Medical University

2S03a-4

(16:22)

Function of Basal Ganglia Circuitry in Motivation and Decision Making

Anatol C Kreitzer

Gladstone Institutes/UCSF

2S03a-5

(16:46)

Parallel brainstem-to-amygdala projections control aversive emotional learning

Joshua P. Johansen

RIKEN Center for Brain Science

[This Symposium is a part of the RIKEN Symposium Series.]