

Thursday May 4th

- 8:00 - 9:00 Registration and continental breakfast
9:00 - 9:05 Welcoming remarks (Dean Robert Alpern)
9:05 - 9:20 Introduction (Pasko Rakic and Xiao-Jing Wang)

Morning Session

Chairperson: Amy Arnsten

- 9:20 - 9:55 Tom Insel (keynote): Brain, evolution and mental disease
9:55 - 10:20 Helen Barbas: Anatomic basis of flexible behavior through primate prefrontal cortex
10:20 - 10:45 Joaquin Fuster: Cortical dynamics of working memory
10:45 - 11:15 Break
11:15 - 11:40 Shintaro Funahashi: Prefrontal cortex and decision making: How does delay-period activity participate in the decision of saccade directions?
11:40 - 12:05 Michael Petrides: A dorsal-ventral axis of executive control within the lateral prefrontal cortex of primates
12:05 - 1:40 Light Lunch

Afternoon Session

Chairperson: Carmen Cavada

- 1:40 - 2:15 Paul Greengard (keynote): Signal transduction pathways used by therapeutic agents and drugs of abuse
2:15 - 2:40 Liz Romanski: Representation and integration of auditory and visual communication information in the primate prefrontal cortex
2:40 - 3:05 Mark D'Esposito: Where top-down meets bottom-up
3:05 - 3:30 Bob Knight: High frequency oscillations recorded directly from human prefrontal cortex
3:30 - 4:00 Break
4:00 - 4:25 Adele Diamond: The prefrontal dopamine system and the periarculate relational system
4:25 - 4:50 Alan Baddeley: Working memory, cognitive psychology and cognitive neuroscience
4:50 - 5:20 General discussion

Friday May 5th

- 8:30 - 9:00 Continental Breakfast

Morning Session

Chairperson: Adele Diamond

- 9:00 - 9:35 Eric Kandel (keynote): Genes, mice and mental illness: Animal models of psychiatric disorders
9:35 - 10:00 Earl Miller: The prefrontal cortex: rules, concepts, cognitive control
10:00 - 10:25 Christos Constantinidis: Stimulus representation in the prefrontal cortex before and after training in working memory tasks
10:25 - 10:55 Break
10:55 - 11:20 Jeff Schall: On the role of frontal cortex in selection and control of actions
11:20 - 11:45 Xiao-Jing Wang: Slow reverberatory neural dynamics underlying cognition
11:45 - 12:10 David McCormick: Recurrent networks as the basis for persistent activity in prefrontal cortex
12:10 - 1:30 Light Lunch

Afternoon Session

Chairperson: Liz Romanski

- 1:30 - 2:05 Arvid Carlsson (keynote): The dopamine hypothesis of schizophrenia revisited- Once again
2:05 - 2:30 Amy Arnsten: Carrying forward from Brozoski: Catecholamine and second messenger influences on representational knowledge
2:30 - 2:55 Dan Weinberger: Genetic dissection of cortical dopamine signaling
2:55 - 3:25 Break
3:25 - 3:50 Carmen Cavada: Novel dopaminergic system targeting the primate thalamus
3:50 - 4:15 Masataka Watanabe: PET, microdialysis and neuronal recording studies of working memory in monkeys
4:15 - 4:40 Daeyeol Lee: Prefrontal cortex and adaptive decision making
4:40 - 5:05 Trevor Robbins: Neurochemical modulation of fronto-executive function: New vistas
5:05 - 5:35 General discussion