

3rd International Symposium on Prefrontal Cortex

—Searching for Mechanism of Mind—

Thursday, November 29, 2012

9:00 - 9:05: Opening Remark

Session 1: Cellular and Network Mechanisms of Information Processing in Rodents

9:05 - 9:45: **"Functional and dysfunctional plasticity inductions in rodent prefrontal cortex"**

Satoru Otani (Ryotokuji University, Japan/University of Paris VI, France)

9:45 - 10:25: **"Dysfunction of the hippocampo-prefrontal cortex system in phencyclidine-treated animals as an animal model of schizophrenia"**

Eiichi Jodo (Fukushima Medical University, Japan)

10:25-10:35: Coffee Break

10:35-11:15: **"Prefrontal cortical alterations by prenatal and postnatal stress interaction"**

Young-A Lee (McGill University, Canada)

11:15-11:55: **"Neural elements underlying prefrontal functions - Focus on hippocampal-prefrontal pathway"**

Masatoshi Takita (National Institute of Advanced Industrial Science & Technology, Japan)

11:55-12:35: **"Dopamine modulates ion channels that regulate neuronal excitability and repetitive firing to encode forms of plasticity in the prefrontal cortex"**

Charles Yang (Shanghai Chempartner, China)

12:35-14:00: Lunch

Session 2: Prefrontal Cortical Activity and Cognitive Functions in Primates

14:00-14:40: **"Prefrontal cortex and neural mechanism of executive function"**

Shintaro Funahashi (Kyoto University, Japan)

14:40-15:20: **"Reward inference by primate prefrontal and striatal neurons"**

Masamichi Sakagami (Tamagawa University, Japan)

15:20-15:30: Coffee Break

15:30-16:10: **"Dynamic synchrony of firing in the prefrontal cortex in monkeys and rats"**

Yoshio Sakurai (Kyoto University, Japan)

16:10-16:50: **"Neuronal activity in monkey prefrontal cortex in a visual-haptic cross-modal delay task"**

Yong-Di Zhou (East China Normal University, China)

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9:00 - 9:40: **"Distinguishing the contributions of frontopolar cortex and other prefrontal cortical regions to cognition in the non-human primate"**

Mark Buckley (University of Oxford, UK)

9:40 - 10:20: **"The role of topographic maps of prioritized space in frontal and parietal cortex"**

Clayton Curtis (New York University, USA)

10:20-10:30: Coffee Break

10:30-11:10: **"Monitoring others' actions in the medial prefrontal cortex of the macaque"**

Masaki Isoda (Kansai Medical University, Japan)

11:10-11:50: **"Multiple components of prefrontal signals for covert tracking of moving objects"**

Masaki Tanaka (Hokkaido University, Japan)

Session 3: Human Prefrontal Cortical Functions and Dysfunction in Psychiatric Disorders

11:50-12:30: **"Molecular neuroimaging of the prefrontal functions in human"**

Hidehiko Takahashi (Kyoto University, Japan)

12:30-14:00: Lunch

14:00-14:40: **"Impact of neuromodulators on plasticity in humans"**

Michael Nitsche (Georg-August-University, Germany)

14:40-15:20: **"Neuromodulation of prefrontal cortex activity by direct current stimulation on alcohol and crack-cocaine dependence"**

Ester Miyuki Nakamura Palacios (University of Espirito-Santo, Brazil)

15:20-15:30: Coffee Break

15:30-16:10: **"Medial PFC correlates of self in the human brain: an fMRI study"**

Naoyuki Osaka (Kyoto University, Japan)

16:10-16:50: **"Dopaminergic modulation of frontostriatal function"**

Roshan Cools and Quirine Veth (Radboud University Nijmegen, Netherland)

16:50-17:00: Concluding Remark

Place: The Large Conference Room, Inamori Center, Kyoto University

開催場所: 京都大学 稲盛財団記念館 大会議室 (3階)

(京都市左京区吉田下阿達町) (川端通と近衛通の角の南側の新しい建物)