

The 5th Research Area Meeting  
Grant-in Aid for Scientific Research on Innovative Areas:  
**Elucidation of the Neural Computation for Prediction and Decision Making**  
Cosponsored by: **Research Center for Thinking and Behavioral Judgment, Keio University**  
2013.6.7-9  
Keio University 日吉キャンパス 来往舎  
Keio University, Hiyoshi campus, Raiosha

**Friday, 7 Jun. Tutorial (in Japanese)**

「ヒトの予測と意思決定の脳内ネットワーク解明のための測定法と解析法」

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<b>13:00-</b>	<b>Registration</b>
<b>13:30-14:30</b>	Tutorial 1 (Dr. Wako Yoshida, ATR)
<b>14:30-14:45</b>	<b>Break</b>
<b>14:45-15:45</b>	Tutorial 2 (Dr. Satoshi Umeda, Keio Univ.)
<b>15:45-16:00</b>	<b>Break</b>
<b>16:00-17:00</b>	Tutorial 3 (Dr. Keiichi Kitajo)
<b>17:00-17:30</b>	Discussion
<b>18:00-</b>	Reception at Restaurant

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**Saturday, 8 Jun.**

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<b>8:30-</b>	<b>Registration</b>
<b>9:15- 9:20</b>	Greeting Dr. Kenji Doya,
<b>9:20- 9:45</b>	Dr. Yu Omura(A02) Elucidation of the relationship between serotonergic neurons in the median raphe nucleus and impulsivity using optogenetics
<b>9:45-10:10</b>	Dr. Hiroto Ogawa (A02) Neural mechanism involved in decision making of locomotion based on stimulus-angle prediction in insect.
<b>10:10-10:35</b>	Dr. Masaki Tanaka (A02) Analysis of subcortical signals for temporal prediction and decision making
<b>10:35-10:45</b>	<b>Break</b>
<b>10:45-11:10</b>	Dr. Kenichiro Tsutsui (A02) Neural mechanisms of flexible behavior control
<b>11:10-11:35</b>	Dr. Hirohide Iwasaki (A02) Connectomical analysis of neural circuit for decision making
<b>11:35-12:00</b>	Dr. Nobuaki Tanaka (A02) Olfactory processing machinery when flies are attracted to a food smell
<b>12:00-13:00</b>	<b>Lunch (Administrative Meeting)</b>
<b>13:00-14:15</b>	Poster presentations
<b>14:15-14:40</b>	Dr. Atsushi Shimada (A01) Visualization of Decision-making Affecter in Sightseeing
<b>14:40-15:05</b>	Dr. Fumino Fujiyama (A02) Morphological analysis of basal ganglia network for prediction and decision making
<b>15:05-15:30</b>	Dr. Yasushi Kobayashi (A02) Control of reward prediction and decision making by dynamical network of the midbrain circuit
<b>15:30-15:55</b>	Dr. Kazuto Kobayashi (A02) Control of behavioral flexibility through the frontostriatal circuitry
<b>15:55-16:05</b>	<b>Break</b>
<b>16:05-16:30</b>	Dr. Akira Muto (A02) Prey capture in zebrafish larvae
<b>16:30-16:55</b>	Dr. Hiroyuki Nakahara (A02) Elucidation of the Neural Computation for Prediction and Decision Making.
<b>16:55-17:20</b>	Dr. Yutaka Komura (A02) Neural bases for handling decision uncertainty
<b>17:20-17:50</b>	Discussion (A02)
<b>18:30-</b>	Reception at Hotel Seiyoken

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**Sunday, 9 Jun.**

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**8:30- Registration**

**9:15- 9:40** Dr. Nobuaki Minematsu (A01) Constructive simulation of infants' word acquisition process based on the structural representation of speech

**9:40-10:05** Dr. Hisao Ishibuchi (A01) Evolution of game strategies in a population of many decision making strategies with different complexities

**10:05-10:15 Break**

**10:15-10:40** Dr. Satoshi Umeda (A01) Prediction, decision making and the autonomic nervous activities

**10:40-11:05** Dr. Eiji Uchibe (A01) Integration of reinforcement learning with model based predictive feedback control

**11:05-11:35** Discussion (A01)

**11:35-13:00 Lunch**

**13:00-13:25** Dr. Jin Narumoto (A03) An investigation for neural substrates for altered reward prediction and decision making process in psychiatric disorders with serotonergic dysfunction.

**13:25-13:50** Dr. Hitoshi Inokawa (A03) Role of serotonin and hypothalamic circuits in decision process of spontaneous behavior

**13:50-14:15** Dr. Tatsushi Onaka (A03) Roles of oxytocin in the control of food intake

**14:15-14:25 Break**

**14:25-14:50** Dr. Yoshihisa Tachibana (A03) Neural substrate of decision making in gambling

**14:50-15:20** Discussion (A03)

**15:20-15:40** General report and information

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