

## Posters (on November 24th)

### **P2-01 Sensory reception of cuticular hydrocarbons for the nestmate and non-nestmate discrimination in the Japanese carpenter ant**

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### **P2-02 Mixed odor discrimination by insect electroantennogram**

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### **P2-03 Sex pheromone processing in Turkestan cockroach**

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### **P2-04 Paracrine 5-HT alters olfactory coding via local interneurons in the *Drosophila* antennal lobe**

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### **P2-05 Modeling olfactory neural processing in the insect using HPC**

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### **P2-06 Dynamics of gustatory responses in the honeybee**

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### **P2-07 Oral sensitivity to capsaicin and recognition thresholds for basic tastes in Japanese students at university**

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### **P2-08 Songbird basal ganglia actively generate “vibrato”-like fluctuations in song acoustic structure that are critical for song learning**

\*Satoshi KOJIMA<sup>1</sup>, Mimi H. KAO<sup>2</sup>, Michael S. BRAINARD<sup>3</sup>

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### **P2-09 Behavioral mechanisms of catching the moving target in birds: a model-based study**

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### **P2-10 A functional anatomy of visceral pallium of pigeon**

\*Kazutaka MORITA, Ei-Ichi IZAWA

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### **P2-11 Acute effects of thyroid hormone on pallial associative area involved in imprinting: an in vitro study**

Yuriko SAHEKI<sup>1</sup>, Naoya AOKI<sup>2</sup>, Koichi J. HOMMA<sup>2</sup>, \*Toshiya MATSUSHIMA<sup>1</sup>

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**P2-12 Site condition of cicada's evacuation tunnels, their distribution and the influence of an obstruction to tunnel construction**

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**P2-13 Collaboration may exist between immunity and behavioral resistance in *Drosophila***

\*Aya YANAGAWA<sup>1</sup>, Claudine NEYEN<sup>2</sup>, Toshimitsu HATA<sup>1</sup>, Tsuyoshi YOSHIMURA<sup>1</sup>,  
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**P2-14 Membrane responses against the osmotic stress in the *Onchidium* identified neurons**

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**P2-15 The spontaneous self-motion preadapts for the efficiency of multiple behaviors in planarians**

Yoshitaro AKIYAMA<sup>1</sup>, Kiyokazu AGATA<sup>1,2</sup>, \*Takeshi INOUE<sup>2</sup>  
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**P2-16 A brain interneuron shaping the species-specific courtship pattern in *Drosophila***

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**P2-17 Identification of interneuron subsets that mediate vision-dependent courtship following in *Drosophila***

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**P2-18 The effect of real-time optic flow on forelimb extension in landing behavior of the tree frog, *Hyla japonica***

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**P2-19 Flying control of multicopter by optically-stimulated tethered bumblebee**

\*Masahiro SHIMIZU, Miyu YAMAGUCHI, Hiroki KOBAYASHI, Koh HOSODA  
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**P2-20 Circadian rhythms in spatial memory under constant dim light conditions**

\*Tomoko IKENO, Kimiko SHIMIZU, Yoshitaka FUKADA  
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**P2-21 Automated learning apparatus for classical conditioning of the pond snail and its application to check of learning ability**

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**P2-22 Photoperiodic control of electrophysiological properties of the caudo-dorsal cells in the pond snail, *Lymnaea stagnalis***

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**P2-23 Clock-generated temporal codes determine synaptic plasticity to control sleep**

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Kechen ZHANG<sup>2,4</sup>, Mark N. WU<sup>1,4</sup>

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**P2-24 Diurnal variation of AMPK activity in the blowfly, *Phormia regina***

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**P2-25 Histochemical investigation of non-visual opsin-expressing photoreceptor cells in the larval and adult lamprey brains**

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**2-26 The dorsal eye region in migratory butterfly is crucial for its phototactic behavior**

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**P2-27 Wavelength dependency of light-induced darkening of body color in larval zebrafish**

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**P2-28 Relationship between absorption spectra of spider rhodopsins and evolution of depth perception mechanism**

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**P2-29 Opsins involved in the visual function of the terrestrial slug *Limax***

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**P2-30 Investigation of a mechanism for color opponency in the zebrafish pineal organ under natural light conditions**

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**P2-31 Neural circuits underlying color vision examined by physiological and behavioral approaches in *Drosophila melanogaster***

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**P2-32 Effects of the selective stimulation of inhibitory neurons in the nucleus of the solitary tract on the respiration**

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**P2-33 Antiallodynic activity of APGWamide appears in the same manner as that activity of antidepressant, milnacipran**

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**P2-34 Relationships between habitat complexity and brain morphology in three intertidal gobiid fishes**

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**P2-35 Histological analysis of the cerebellum of ancestral actinopterygian fish, *Polypterus senegalus***

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**P2-36 Distribution and function of synapsin in the diffuse nervous system of Hydra**

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**P2-37 Expression and molecular cloning of G-protein-coupled receptors in the *Aplysia* heart**

Nanase OYA, Tatsuya UEKI, Masanobu OBARA, \*Fumihito MORISHITA

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**P2-38 Intestinal stem cell homeostasis via muscarinic acetylcholine receptors**

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**P2-39 Optimum conditions of Proteinase K on *In situ* hybridization based on Myosin B in *Marsupenaeus japonicus***

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**P2-40 Analysis of molecular mechanisms involved in mechanical adaptation of muscle and muscular pain after exercise**

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**P2-41 Quantitative analyses of DNA binding by a transcription factor using quartz crystal microbalance (QCM)**

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**P2-42 Development of a new method to detect lipids surrounding specific proteins using nanoparticles and mass spectrometry**

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**P2-43 Establishment of laboratory system monitoring the spawning behavior of the coral *Acropora tenuis***

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**P2-44 The flight mill for measuring flight properties of a small insect**

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