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Personal Data

Date of Birth Jan 4 1982
Birth place Tokyo, Japan
Sex Male

Education

Mar 2007 *Doctor of Veterinary Medicine*, Department of Veterinary Medical Sciences,
Faculty of Agriculture, University of Tokyo
Oct 2011 *Ph.D. in Ethology*, Veterinary Ethology lab, Graduate School of Agricultural
Life Sciences, University of Tokyo

Job career

Apr 1 2007-Sep 30 2013
Researcher, Institute for Innovation, Ajinomoto co., Inc.
Oct 1 2013 –Mar 31 2014
Research Scientist, Laboratory for Neural Circuitry of Memory, RIKEN BSI

Research Interest

Neural mechanisms of reward and aversive conditioning

Technical Experiences

2005-2007 Behavioral analysis of Infant-mother communication with ultrasonic
vocalization
2007-2012 Behavioral analysis of conditioned preference (flavor-nutrient conditioning)
2009-2012 Awake rodents fMRI and Immunohistochemistry during conditioning
2011-2013 Microdialysis in freely moving rats and mice (Dopamine measurement)
2012-2013 Behavioral analyses in conditional knockout mice
2012 Electrophysiology in freely moving rats and mice (learned in Nishijo's lab in
Toyama University)
2013-present Optogenetics, In-vivo electrophysiology with optogenetics

Publications

Uematsu A, Tsurugizawa T, Iwatsuki K, Uneyama H, and Torii K.

Correlation between activation of the prelimbic cortex, basolateral amygdala, and agranular insular cortex during taste memory formation

Cerebral Cortex (2014)

Torii, K., Uematsu, A., Tsurugizawa, T.

Brain response to the luminal nutrient stimulation

Chemosensory Perception 5 (1) , pp. 110-116 (2012)

Iwatsuki. K., Ichikawa. R., Uematsu. A., Kitamura. A., Uneyama. H., Torii. K.

Detecting sweet and umami tastes in the gastrointestinal tract

Acta Physiologica 204 (2) , pp. 169-177 (2012)

Uematsu A, Tsurugizawa T, Iwatsuki K, Uneyama H, and Torii K.

Evaluation of 'liking' and 'wanting' properties of umami compound in rats.

Physiology and Behavior, 102 (5) , pp. 553-558

Tsurugizawa T, Uematsu A, Uneyama H, and Torii K.

Different BOLD Responses to Intragastric Load of L-glutamate and Inosine Monophosphate in Conscious Rats.

Chemical Senses,

Tsurugizawa T, Uematsu A, Uneyama H, and Torii K.

The role of the GABAergic and dopaminergic systems in the brain response to an intragastric load of alcohol in conscious rats

Neuroscience, 171, 451-460 (2010)

Uematsu A, Tsurugizawa T, Uneyama H, and Torii K.

Brain-gut communication via vagus nerve modulates conditioned flavor preference.

European Journal of Neuroscience, 31, 1136-1143 (2010)

Tsurugizawa T, Uematsu A, Uneyama H, and Torii K.

Effects of Isoflurane and alpha-Chloralose Anesthesia on BOLD fMRI Responses to Ingested l-Glutamate in Rats.

Neuroscience, 165, 244-251 (2010)

Tsurugizawa T, Uematsu A, Uneyama H, and Torii K.

Blood oxygenation level-dependant response to intragastric load of corn oil emulsion in conscious rats.

NeuroReport, 20, 1625-1629 (2009)

Tsurugizawa T, Uematsu A, Nakamura E, Hasumura M, Hirota M, Kondoh T, Uneyama H, and Torii K.

Mechanisms of Neural Response to Gastrointestinal Nutritive Stimuli: The Gut-Brain Axis.
Gastroenterology, 137, 262-273 (2009)

Uematsu A, Tsurugizawa T, Uneyama H, and Torii K.
Conditioned flavor preference learning by intragastric administration of l-glutamate in rats.
Neuroscience Letters, 451, 190-193 (2009)

Uematsu A, Kikusui T, Kihara T, Harada T, Kato M, Nakano K, Murakami O, Koshida N,
Takeuchi Y and Mori Y.
Maternal approaches to pup ultrasonic vocalizations produced by a nanocrystalline silicon
thermo-acoustic emitter
Brain Research, 1163, 91-99 (2007)

Hayashi Y, Kitaoka Y, Munemasa Y, Ohtani-Kaneko R, Kikusui T, Uematsu A, Takeda H,
Hirata K, Mori Y and Ueno S.
Neuroprotective effect of 17 β -estradiol against N-methyl-D-aspartate- induced retinal
neurotoxicity via p-ERK induction
Journal of Neuroscience Research, 85, 386-394 (2007)

Membership of Academic Societies

Japanese

Japan Society for Taste and Smell
The Japan Neuroscience Society

International

Society for Neuroscience

International meetings

Akira Uematsu, Tomokazu Tsurugizawa, Akihiko Kitamura, Ken Iwatsuki, Hisayuki Uneyama, Kunio Torii
“The brain response during acquisition of conditioned taste aversion.” (Poster)
The 8th congress of International Brain Research Organization, Florence, Italy, June, 2011

Akira Uematsu, Tomokazu Tsurugizawa, Akihiko Kitamura, Ken Iwatsuki, Hisayuki Uneyama, Kunio Torii
“The brain response during acquisition of conditioned taste aversion.” (Poster)
The 40th annual meeting of Society for Neuroscience, San Diego, USA, November, 2010

Akira Uematsu, Tomokazu Tsurugizawa, Hisayuki Uneyama, Kunio Torii
“Abdominal vagotomy affects conditioned flavor preference by intragastric infusion of monosodium L-glutamate in rats.” (Poster)
Ascona Workshop , Ascona, Switzerland, June, 2010

Akira Uematsu, Tomokazu Tsurugizawa, Hisayuki Uneyama, Kunio Torii
“Abdominal vagotomy affects conditioned flavor preference by intragastric infusion of monosodium L-glutamate in rats” (Oral)
The 7th International Symposium of Molecular and Neural Mechanisms of Taste and Olfactory Perception, Fukuoka, Japan, November, 2009

Akira Uematsu, Tomokazu Tsurugizawa, Hisayuki Uneyama, Kunio Torii
“Abdominal vagotomy affects conditioned flavor preference by intragastric infusion of monosodium L-glutamate in rats.” (Poster)
The 39th annual meeting of Society for Neuroscience, Chicago, USA, October, 2009

Akira Uematsu, Tomokazu Tsurugizawa, Hisayuki Uneyama, Kunio Torii
“Conditioned flavor preference learning induced by intragastric infusion of glutamate in rats.” (Poster) The 36th International Congress of Physiological Sciences, Kyoto, Japan, July, 2009

Akira Uematsu, Tomokazu Tsurugizawa, Hisayuki Uneyama, Kunio Torii
“Conditioned flavor preference learning induced by intragastric infusion of glutamate in rats.” (Poster) The 38th annual meeting of Society for Neuroscience, Washington, November, 2008