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Okinawa Institute of Science and Technology

- PRESS RELEASE -

**Developmental shift in the mechanism of synaptic vesicle endocytosis
to require Ca²⁺ nanodomain**

Japan, June 20, 2010 — Dr. Takayuki Yamashita, Group Leader of the Cellular and Molecular Synaptic Function Unit of the Okinawa Institute of Science and Technology (OIST), Dr. Tomoyuki Takahashi, Principal Investigator of the OIST Cellular and Molecular Synaptic Function Unit et al. have discovered that a Ca²⁺ nanodomain plays a priming role for vesicle endocytosis at calyceal presynaptic terminals after hearing onset. Their work will be published in the July 2010 issue of the journal [*Nature Neuroscience*](#).

<Summary Information>

1. Journal Name: *Nature Neuroscience*
2. Publication Date: The July 2010 issue (Vol. 13, Number 7)
3. Publication Title: Developmental shift in the mechanism of synaptic vesicle endocytosis to require Ca²⁺ nanodomain
4. Authors: Takayuki Yamashita, Kohgaku Eguchi, Naoto Saitoh, Henrike von Gersdorff, Dr. Tomoyuki Takahashi,
5. The work took place under the following projects:
 - (1) Dr. Tomoyuki Takahashi
The Cellular and Molecular Synaptic Function Unit
Okinawa Institute of Science and Technology Initial Research Project
 - (2) Dr. Tomoyuki Takahashi
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