

**Publications** (Apr.2011 - Mar. 2012)

1. C. Kodera, T. Yorimitsu, A. Nakano, and K. Sato: "Sed4p stimulates Sar1p GTP hydrolysis and promotes limited coat disassembly," *Traffic* 12, 591-599 (2011).
2. Y. Hamamura, C. Saito, C. Awai, D. Kurihara, A. Miyawaki, T. Nakagawa, M. M. Kanaoka, N. Sasaki, A. Nakano, F. Berger, and T. Higashiyama: "Live cell imaging reveals the dynamics of two sperm cells during double fertilization in *Arabidopsis thaliana*," *Curr. Biol.* 21, 497-502 (2011).
3. K. Ebine, M. Fujimoto, Y. Okatani, T. Nishiyama, T. Goh, E. Ito, T. Dainobu, A. Nishitani, T. Uemura, M. H. Sato, H. Thordal-Christensen, N. Tsutsumi, A. Nakano, and T. Ueda: "A membrane trafficking pathway regulated by the plant-specific RAB GTPase ARA6," *Nat. Cell Biol.* 13, 853-859 (2011).
4. C. Saito, T. Uemura, C. Awai, M. Tominaga, K. Ebine, J. Ito, T. Ueda, H. Abe, M. T. Morita, M. Tasaka, and A. Nakano: "The occurrence of bulbs, a complex configuration of the vacuolar membrane, is affected by mutations vacuolar SNARE and phospholipase in *Arabidopsis*," *Plant J.* 68, 64-73 (2011).
5. N. Morishima, K. Nakanishi, and A. Nakano: "Activating transcription factor-6 (ATF6) mediates apoptosis with reduction of myeloid cell leukemia sequence 1 (Mcl-1) via induction of WW domain binding protein 1," *J. Biol. Chem.* 286, 35227-35235 (2011).
6. N. Morishima, K. Nakanishi, and A. Nakano: "Reply to Hu *et al.*: Mcl-1 reduction due to caspase-dependent cleavage during endoplasmic reticulum stress-induced apoptosis," *J. Biol. Chem.* 286, 1e25 (2011).
7. C. Saito, T. Uemura, C. Awai, T. Ueda, H. Abe, and A. Nakano: "Qualitative difference between "bulb" membranes and other vacuolar membranes," *Plant Signal. Behav.* 6, 1914-1917 (2011).
8. E. Ito, M. Fujimoto, K. Ebine, T. Uemura, T. Ueda and A. Nakano: "Dynamic behavior of clathrin in *Arabidopsis thaliana* unveiled by live imaging," *Plant J.* 69, 204-216 (2012).
9. T. Uemura, H. Kim, C. Saito, K. Ebine, T. Ueda, P. Schulze-Lefert, and A. Nakano: "Qa-SNAREs localized to the *trans*-Golgi network regulate multiple transport pathways and extracellular disease resistance in plants," *Proc. Natl. Acad. Sci. U. S. A.* 109, 1784-1789 (2012).
10. K. Ebine, N. Miyakawa, M. Fujimoto, T. Uemura, A. Nakano, and T. Ueda: "Endosomal trafficking pathway regulated by ARA6, a RAB5 GTPase unique to plants," *Small GTPases* in press.
11. M. Okamoto, K. Kurokawa, K. Matsuura-Tokita, C. Saito, R. Hirata, and A. Nakano: "High-curvature domains of the endoplasmic reticulum (ER) are important for the organization of ER exit sites in *Saccharomyces cerevisiae*," *J. Cell Sci.* in press.
12. T. Hamada, M. Tominaga, T. Fukaya, M. Nakamura, A. Nakano, Y. Watanabe, T. Hashimoto, and T. I. Baskin: "RNA processing bodies, peroxisomes, Golgi bodies, mitochondria, and ER tubule junctions frequently pause at cortical microtubules," *Plant Cell Physiol.* in press.
13. A. Era, N. Kutsuna, T. Higaki, S. Hasezawa, A. Nakano, and T. Ueda: "Microtubule stability affects the unique motility of F-actin in *Marchantia polymorpha*," *J. Plant Res.* in press.
14. Y. Maeda, M. Yumoto, N. Saito, T. Ogawa, M. Yamamoto, S. Wada: "Generation of stable picosecond pulses from an electronically wavelength-tuned laser for material processing," *JLMN-Journal of Laser Micro/Nanoengineering*, 6, 20-22 (2011).
15. C. Micaela, T. Funakoshi, M. Takagi and N. Imamoto: "The nucleoporin ELYS/Mel28 regulates nuclear envelope subdomain formation in HeLa cells," *Nucleus* 3, 1-13 (2012)
16. S. Kose, M. Furuta and N. Imamoto: "Hikeshi, a nuclear import carrier for Hsp70s, protects cells from heat-shock induced nuclear damage", *Cell* 149, 578-589 (2012)
17. Y. Nishino, M. Eltsov, Y. Joti, K. Ito, H. Takata, Y. Takahashi, S. Hihara, A.S. Frangakis, N. Imamoto, T. Ishikawa, K. Maeshima: "Human mitotic chromosomes consist predominantly of irregularly folded nucleosome fibres without a 30-nm chromatin structure," *EMBO J.* 17, 1644-1653 (2012).
18. M. Abe, A. Makino, F. Hullin-Matsuda, K. Kamijo, Y. Ohno-Iwashita, K. Hanada, H. Mizuno, A. Miyawaki and T. Kobayashi: "A role for sphingomyelin-rich lipid domains in the accumulation of PIP2 to the cleavage furrow during cytokinesis," *Mol. Cell Biol.* 32, 1396-1407 (2012).
19. H. Mizuno, M. Abe, P. Dedecker, A. Makino, S. Rocha, Y. Ohno-Iwashita, J. Hofkens, T. Kobayashi and

A. Miyawaki: "Fluorescent probes for superresolution imaging of lipid domains on the plasma membrane," *Chem. Sci.* 2, 1548-1553 (2011).

### **Books, Proceedings**

1. Yasuyuki Suda and Akihiko Nakano: "The yeast Golgi apparatus," *Traffic* 13, 505-510 (2012).
2. 中野明彦: "生体膜における膜交通のダイナミクス," *膜* 36, 248-253 (2011).
3. 岩井優和, 皆川純: "蛍光寿命イメージングを光合成研究に応用する", *化学と生物* (日本農芸化学会), 49, 704-710 (2011).
4. 今本尚子, 三村恭弘, 船越智子: "核膜孔複合体の形成機構," *生体の科学* 62, 378-379 (2011).
5. 船越智子, 今本尚子: "Pom121 の構造と核膜孔形成における役割," *生体の科学* 62, 388-389 (2011).
6. 三村恭弘, 今本尚子: "Nup107-133 complex がつくる核膜孔複合体の基礎構造," *生体の科学 細胞核-構造と機能* 62, 390-391 (2011).
7. 今本尚子: "核膜と核膜孔複合体の形成機構," *細胞工学* (特集 オルガネラ・モデリング: ベールを脱ぐ分子設計図) 30, 1135-1141 (2011).