

チーム名： 生細胞超解像イメージング研究チーム

(1) 原著論文 (accept) を含む / Original Papers

1. M. Sunada, T. Goh, T. Ueda, and A. Nakano: "Functional analyses of the plant-specific C-terminal region of VPS9a: the activating factor for RAB5 in *Arabidopsis thaliana*," *J. Plant Res.* 129:93-102 (2016).
2. E. Ito, T. Uemura, T. Ueda, and A. Nakano: "Distribution of RAB5-positive multivesicular endosomes and the trans-Golgi network in root meristematic cells of *Arabidopsis thaliana*," *Plant Biotech.* in press.
3. T. Haraguchi, M. Tominaga, A. Nakano, K. Yamamoto, and K. Ito: "Myosin XI-I is mechanically and enzymatically unique among class XI myosins in *Arabidopsis*," *Plant Cell Physiol.* 57:1732-1743 (2016).
4. N. Inada, S. Betsuyaku, T. Shimada, K. Ebine, E. Ito, N. Kutsuna, S. Hasezawa, Y. Takano, H. Fukuda, A. Nakano, and T. Ueda: "Modulation of plant RAB GTPase-mediated membrane trafficking pathway at the interface between plants and obligate biotrophic pathogens," *Plant Cell Physiol.* 57:1854-1864 (2016).
5. H. T. Sakurai, T. Inoue, A. Nakano, and T. Ueda: "ENDOSOMAL RAB EFFECTOR WITH PX-DOMAIN, an interacting partner of RAB5 GTPases, regulates membrane trafficking to protein storage vacuoles in *Arabidopsis*," *Plant Cell* 28:1490-1503 (2016).
6. M. Iwai, M. Yokono, K. Kurokawa, A. Ichihara, and A. Nakano: "Live-cell visualization of excitation energy dynamics in chloroplast thylakoid structures," *Sci. Rep.* 6:29940 (2016).
7. K. Kurokawa, Y. Suda and A. Nakano: "Sar1 localizes at the rims of COPII-coated membranes *in vivo*," *J. Cell Sci.* 129:3231-3237 (2016).
8. M. Ishii, Y. Suda, K. Kurokawa, and A. Nakano: "COPI is essential for Golgi cisternal maturation and dynamics," *J. Cell Sci.* 129:3251-3261 (2016).
9. N. Minamino, T. Kanazawa, R. Nishihama, K. T. Yamato, K. Ishizaki, T. Kohchi, A. Nakano, and T. Ueda: "Dynamic reorganization of the endomembrane system during spermatogenesis in *Marchantia polymorpha*," *J. Plant Res.* in press
10. Y. Ito, K. Toyooka, M. Fujimoto, T. Ueda, T. Uemura, and A. Nakano: "The trans-Golgi network and the Golgi stacks behave independently during regeneration after Brefeldin A treatment in tobacco BY-2 cells," *Plant Cell Physiol.* in press.
11. S. S. Sharma, K. Yamamoto, K. Hamaji, M. Ohnishi, A. Anegawa, S. Sharma, S. Thakur, V. Kumar, T. Uemura, A. Nakano, and T. Mimura: "Cadmium-induced changes in vacuolar aspects of *Arabidopsis thaliana*," *Plant Physiol. Biochem.* in press.

(2) 著書・解説など / Book Editions, Review Papers

なし

(3) 招待講演 / Invited Talks

1. A. Nakano: "Intracellular membrane traffic as seen by super-resolution live imaging," Beijing Forestry University Seminar, Beijing, China, May 18 (2016).
2. A. Nakano: "Intracellular membrane traffic as seen by super-resolution live imaging," Nanjing Agricultural University Seminar, Nanjing, China, May 20 (2016).
3. A. Nakano: "Super-resolution live imaging approach to membrane trafficking," RIKEN QBiC Symposium 2016 "Decoding Organisms by Quantitative Cell Profiling," Osaka, Japan, September 5 (2016).
4. A. Nakano: "Development of high-speed live imaging microscopy with super-resolution: new horizons emerging in life sciences," RIKEN SAKURA Symposium 2017, Tsurumi, Japan, March 29 (2017).

(4) 会議、シンポジウム、セミナー主催 / Meeting, Symposiums and Seminars

(5) 特許出願 / Patent Applications

1. 平成 28 年 4 月 5 日 特願 2016-076155  
発明等の名称：スーパーコンティニウム光生成光源、スーパーコンティニウム光生成方法及び多光子励起蛍光顕微鏡  
出願人：理化学研究所  
発明者：中野明彦，市原 昭
2. 平成 28 年 6 月 14 日 特願 2016-118225  
発明等の名称：データ復元装置、顕微鏡システムおよびデータ復元方法  
(誤差評価に基づく帯域外挿デコンボリューション)  
出願人：理化学研究所  
発明者：宮代大輔，中野明彦

(6) 特筆すべき事項・トピックス(雑誌表紙などの掲載記事) / Topics

なし