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. 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 polymorphs*,” J. Plant Res. 130, 433-441 (2017).
2. 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. 58, 811-821 (2017).
3. 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. 114, 29-37 (2017).
4. A. Yamagami, C. Saito, M. Nakazawa, S. Fujioka, T. Uemura, M. Matsui, M. Sakuta, K. Shinozaki, H. Osada, A. Nakano, T. Asami, and T. Nakano: “Evolutionarily conserved BIL4 suppresses the degradation of brassinosteroid receptor BRI1 and regulates cell elongation,” Sci. Rep. 7, 5739 (2017).
5. K. Kobayashi, F. Suemasa, H. Sagara, S. Nakamura, Y. Ino, K. Kobayashi, H. Hiramatsu, T. Haraguchi, K. Kurokawa, T. Todo, A. Nakano, and H. Iba: “MiR-199a inhibits secondary envelopment of herpes simplex virus-1 through the downregulation of Cdc42-specific GTPase activating protein localized in Golgi apparatus,” Sci. Rep. 7, 6650 (2017).
6. N. Inada, K. Ebine, E. Ito, A. Nakano, and T. Ueda: “Constitutive activation of plant-specific RAB5 GTPase confers increased resistance against adapted powdery mildew fungus,” Plant Biotech. 34, 89-95 (2017).
7. A. Yamagami, C. Saito, M. Sakuta, K. Shinozaki, H. Osada, A. Nakano, T. Asami, and T. Nakano: “Brassinosteroids regulate vacuolar morphology in root meristem cells of *Arabidopsis thaliana*,” Plant Signal. Behav. in press.
8. Y. Ito, T. Uemura, and A. Nakano: “Golgi Entry Core Compartment functions as the COPII-independent scaffold for ER-Golgi transport in plant cells,” J. Cell Sci. 131, jcs203893 (2018).
9. C. Sanchez-Rodriguez, Y. Shi, C. Kesten, D. Zhang, G. Sancho-Andrés, A. Ivakov, E. R. Lampugnani, K. Sklodowski, M. Fujimoto, A. Nakano, A. Bacic, I. S. Wallace, T. Ueda, D. van Damme, Y. Zhou, and S. Persson: “The cellulose synthases are cargo of the TPLATE adaptor complex,” Mol. Plant 11, 346-349 (2018).
10. Y. Suda, H. Tachikawa, I. Inoue, T. Kurita, C. Saito, K. Kurokawa, A. Nakano, and K. Irie: “Activation of Rab GTPase Sec4 by its GEF Sec2 is required for prospore membrane formation during sporulation in yeast *Saccharomyces cerevisiae*,” FEMS Yeast Res. 18, fox095 (2018).

11. K. Takemoto, K. Ebine, J. C. Askani, T. Goh, K. Schumacher, A. Nakano, and T. Ueda: “Distinct sets of tethering complexes, SNARE complexes, and Rab GTPases mediate membrane fusion at the vacuole in Arabidopsis,” Proc. Natl. Acad. Sci. U. S. A. in press.
12. S. Tanabashi, K. Shoda, C. Saito, T. Sakamoto, T. Kurata, T. Uemura, and A. Nakano: “A missense mutation in the *NSF* gene causes abnormal Golgi morphology in *Arabidopsis thaliana*,” Cell Struct. Funct. 43, 41-51 (2018).
13. N. Minamino, T. Kanazawa, A. Era, K. Ebine, A. Nakano, and T. Ueda: “RAB GTPases in the basal land plant *Marchantia polymorpha*,” Plant Cell Physiol. in press.

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

1. Y. Suda, K. Kurokawa, and A. Nakano, “Regulation of ER-Golgi transport dynamics by GTPases in budding yeast,” Frontiers Cell Dev. Biol. 5, 122 (2018).

（3） 招待講演 ／ Invited Talks

1. K. Kurokawa, “4D imaging of cargo delivery in maturing Golgi cisternae in *S. cerevisiae*,” Gordon Research Conference on Molecular Membrane Biology, Andover, NH, USA, July 17 (2017).
2. A. Nakano, “Membrane traffic unveiled by super-resolution live imaging: expectations for exosome research,” 9th Annual Meeting of the Japanese Association for RNAi and 4th Annual Meeting of Japanese Society of Extracellular Vesicles, Hiroshima, Japan, September 1 (2017).

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

1. 理研シンポジウム “「観る・測る・解く」4 次元細胞計測の現状と未来,” 和光, 6 月 28 日 (2017).
2. Taiwan-Japan Joint Meeting on Bioimaging for Young Researchers, Taipei, November 1-2 (2017).

（5） 特許出願 ／ Patent Applications

1. 中野明彦, 市原 昭, “対物レンズの駆動制御方法及び蛍光顕微鏡システム,” 特許番号 6143098, 設定登録 2017 年 5 月 19 日.
2. 宮代大輔, 中野明彦, “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外挿デコンボリューション),” 国際出願番号 PCT/JP2017/021420, 2017 年 6 月 9 日.

（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

1. 伊藤容子論文（Plant Cell Physiol.）が同誌の Editor-in-Chief’s Choice に選ばれました。

https://academic.oup.com/pcp/pages/research_highlights_2017_04

2. 伊藤容子論文（J. Cell Sci.）のプレスリリースを行いました。
   2017 年 11 月 14 日
   http://www.riken.jp/pr/press/2017/20171114_2/
3. 伊藤容子論文（J. Cell Sci.）が同誌の First Person Interview に選ばれました。
   http://jcs.biologists.org/content/131/2/jcs214338
4. 伊藤容子が理研研究奨励賞を受賞しました。
   2018 年 3 月 15 日