生細胞超解像イメージング研究チーム ／ Live Cell Super-Resolution Imaging Research Team

(1)原著論文(accept を含む) ／ Original Papers

1. M. Abe, S. Kosaka, M. Shibuta, K. Nagata, T. Uemura, A. Nakano, and H. Kaya: “Transient activity of the florigen complex during the floral transition in Arabidopsis thaliana”, Development 146:dev171504, (2019).
2. K. Kurokawa, H. Osakada, T. Kojidani, Y. Suda, H. Asakawa, T. Haraguchi, and A. Nakano: “Visualization of secretory cargo transport within the Golgi apparatus in living yeast cells”, J. Cell Biol. 218:1602-1618, (2019).
3. T. L. Shimada, S. Betsuyaku, N. Inada, K. Ebine, M. Fujimoto, T. Uemura, Y. Takano, H. Fukuda, A. Nakano, and T. Ueda: “Enrichment of phosphatidylinositol 4,5-bisphosphate in the extra-invasive hyphal membrane promotes Colletotrichum infection of Arabidopsis thaliana”, Plant Cell Physiol. 60:1514-1524, (2019).
4. M. Maeda, K. Kurokawa, T. Katada, A. Nakano, and K. Saito: “COPII proteins exhibit distinct subdomains within each ER exit site for executing their functions”, Sci. Rep. 9:7346, (2019).
5. T. Tojima, Y. Suda, M. Ishii, K. Kurokawa, and A. Nakano: “Spatiotemporal dissection of the trans-Golgi network in budding yeast”, J.Cell Sci. 132:jcs231159, (2019).
6. T. L. Shimada, T. Shimada, Y. Okazaki, Y. Higashi, K. Saito, K. Kuwata, K. Oyama, M. Kato, H. Ueda, A. Nakano, T. Ueda, Y. Takano, and I. Hara-Nishimura: “HIGH STEROL ESTER 1 is a key factor in plant sterol homeostasis”, Nat. Plants 5:1154-1166, (2019).
7. A. Ishii, K. Kurokawa, M. Hotta, S. Yoshizaki, M. Kurita, A. Koyama, A. Nakano, and Y. Kimura: “Role of Atg8 in the regulation of vacuolar membrane invagination”, Sci. Rep. 9:14828, (2019).
8. S. Fujii, K. Kurokawa, R. Inaba, N. Hiramatsu, T. Tago, Y. Nakamura, A. Nakano, T. Satoh, and A. K. Satoh: “Recycling endosomes attach to the trans-side of Golgi stacks in Drosophila and mammalian cells”, J. Cell Sci. 133: jcs236935, (2020).

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

1. P. J. Cullen and A. Nakano: “Editorial overview: Membrane trafficking”, Curr. Opin. Cell Biol. 59:iii-v, (2019).
2. 中野明彦, “ライブイメージングでゴルジ体のタンパク質輸送のメカニズムを解明”, 日経サイエンス, 49:88, (2019).

(3)招待講演 ／ Invited Talks

1. A. Nakano, “Dynamics of protein sorting zones within and around the Golgi apparatus as visualized by high-speed super-resolution live imaging SCLIM”, SFB1190 Minisymposium

"Organelle Zones Meet Compartmental Gates and Contact Sites", Göttingen, Germany, May 2, (2019).

2. A. Nakano, "Dynamics of protein sorting zones in and around the Golgi apparatus as visualized by high-speed super-resolution live imaging SCLIM," International Symposium "Organelle zones: opening a new ear of cell biology", Grant-in-Aid for Scientific Research on Innovative Areas "Toward an integrative understanding of functional zones in organelles", Suita, Japan, May 29, (2019).
3. K. Kurokawa, "Visualization of cargo transport from the ER to the Golgi and within the Golgi", RIKEN symposium: Cutting edge of membrane traffic, Wako, Japan, May 31, (2019).
4. T. Tojima, "Visualization of membrane traffic in the neuronal growth cone", RIKEN symposium: Cutting edge of membrane traffic, Wako, Japan, May 31, (2019).
5. 中野明彦, "究極のライブセルイメージングでパラダイムを覆す", ERATO 学術セミナー, 筑波大学, つくば, 6月7日, (2019).
6. A. Nakano, "State-of-the-art live cell imaging at high-speed and super-resolution -- Dream to see real vesicular trafficking has come true", Joint Symposium "Extreme imaging to explore the boundaries between cell biology and protein science", Joint Annual Meeting of 71st JSCB and 19th PSSJ, Kobe, Japan, June 24, (2019).
7. A. Nakano, "Extremely dynamic behaviors of vesicles and zones in an around the Golgi as visualized by high-speed super-resolution live imaging SCLIM", IAS Symposium "Biogenesis of Intracellular and Extracellular Vesicles", Hong Kong, China, July 5, (2019).
8. A. Nakano, "High-speed and super-resolution live imaging to understand the true world in a living cell", University of Michigan Seminar, Ann Arbor, MI, USA, July 12, (2019).
9. 黒川量雄, "成熟するゴルジ槽内のゾーン形成と積荷タンパク質輸送の可視化", 第38回日本糖質学会年会, 名古屋, 8月19日, (2019).
10. A. Nakano, "State-of-the-art live cell imaging at high-speed and super-resolution -- Dream to see real vesicular trafficking has come true", University of Bergen Seminar, Bergen, Norway, September 12, (2019).
11. A. Nakano, "State-of-the-art live cell imaging at high-speed and super-resolution -- Dream to see real vesicular trafficking has come true", University of Oslo Seminar, Oslo, Norway, September 13, (2019).
12. 黒川量雄, "4Dイメージングによる小胞体ーゴルジ体間, ゴルジ体内の蛋白質輸送機構", 日本遺伝学会第91 回大会, 福井, 9月14日, (2019).
13. A. Nakano. "Dynamics of the Golgi and its neighbors visualized by high-speed and super-resolution live imaging SCLIM", Symposium "Structure and Function of the Golgi", 92nd Annual Meeting of the Japanese Biochemical Society. Yokohama, Japan, September 20, (2019).

14. A. Nakano. “The challenge to visualize vesicular trafficking in living cells by high-speed and super-resolution live imaging microscopy –The dream has come true”, Full-global kickoff symposium, Serendipity Lab. University of Tokyo, Hongo, Japan, November 10, (2019).
15. 戸島拓郎, “ゴルジ体からトランスゴルジ網への槽成熟ダイナミクス”, ワークショップ「糖鎖修飾を制御するオルガネラゾーン」, 第42回日本分子生物学会年会, 福岡, 12月5日, (2019).

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

1. 理研シンポジウム “Cutting-edge of membrane traffic”,大河内記念ホール, 和光, 5月31日, (2019).
2. 理研セミナーシリーズ “How does secretory cargo exit ER?”,生物科学研究棟, 和光, 6月20日, (2019).
3. 多次元細胞計測ワークショップ, 大河内記念ホール, 和光, 1月27-28日, (2020).

(5)特筆すべき事項・トピックス／ Topics

1. 黒川論文(J. Cell Biol. 2019)の紹介が、RIKEN Research にResearch Highlight として掲載, 5月, (2019).
2. 黒川論文(J. Cell Biol. 2019)がJCB誌のoutstanding articleに選ばれ、“July Highlights from JCB: Lipid and Membrane Biology Collection” にonline掲載, 7月, (2019).
3. 戸島論文(J. Cell Sci. 2019)がJCS誌のFirst Person Interviewに選ばれ、写真入りで掲載, 7月, (2019).