

生命光学技術研究チーム / **Biotechnological Optics Research Team**

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

1. Katayama H., Hama H., Nagasawa K., Kurokawa H., Sugiyama M., Ando R., Funata M., Yoshida N., Homma M., Nishimura T., Takahashi M., Ishida Y., Hioki H., Tsujihata Y., Miyawaki A., “Visualizing and modulating mitophagy for therapeutic studies of neurodegeneration”, *Cell*, 181(5):1176-1187.e16., (2020).
2. Ando R., Sakaue-Sawano A., Shoda K., Miyawaki A., “Two new coral fluorescent proteins of distinct colors for sharp visualization of cell-cycle progression”, *bioRxiv*, 2020.03.30.015156; doi: <https://doi.org/10.1101/2020.03.30.015156>, (2020).
3. Yoshioka-Kobayashi K., Matsumiya M., Niino Y., Isomura A., Kori H., Miyawaki A., Kageyama R., “Dynamic control of coupling delay for synchronized oscillations in the segmentation clock”, *Nature*, 538 (7801): 119-123, (2019).
4. Nakano S, Ikeda M, Tsukada Y, Fei X, Suzuki T, Niino Y, Ahluwalia R, Sano A, Kondo R, Ihara K, Miyawaki A, Hashimoto K, Higashiyama T, Mori I., “Presynaptic MAST kinase controls opposing postsynaptic responses to convey stimulus valence in *Caenorhabditis elegans*”, *Proc Natl Acad Sci U S A.*, 117 (3): 1638-1647, (2020) .
5. Anikeeva P, Boyden E, Brangwynne C, Cissé II, Fiehn O, Fromme P, Gingras AC, Greene CS, Heard E, Hell SW, Hillman E, Jensen GJ, Karchin R, Kiessling LL, Kleinstiver BP, Knight R, Kukura P, Lancaster MA, Loman N, Looger L, Lundberg E, Luo Q, Miyawaki A, Myers EW Jr, Nolan GP, Picotti P, Reik W, Sauer M, Shalek AK, Shendure J, Slavov N, Tanay A, Troyanskaya O, van Valen D, Wang HW, Yi C, Yin P, Zernicka-Goetz M, Zhuang X., “Voices in methods development”, *Nature Methods*, 16(10):945-951. doi:10.1038/s41592-019-0585-6, (2019).
6. Yi X., Son S., Ando R., Miyawaki A., Weiss S., “Moments reconstruction and local dynamic range compression of high order superresolution optical fluctuation imaging”, *Biomed. Opt. Express*, 10 (5): 2430-2445, (2019) .

(2) 招待講演 / Invited Talks

1. 宮脇敦史, “Cruising inside cells,” 第37回日メディシナルケミストリーシンポジウム那覇, 11月28日, (2019).
2. 宮脇敦史, “Cruising inside cells”, 第72回日本薬理学会西南部会, 那覇, 11月16日, (2019).
3. 宮脇敦史, “Cruising inside cells,” 第6回板橋オプトフォーラム, 東京, 10月23日, (2019).
4. 宮脇敦史, “Interplay between Light and Life 光と生命との相互作用”, Tokyo Breast Cancer Meeting 2019, Tokyo, 10月18日, (2019).
5. Atsushi Miyawaki, “Genetically encoded luminescent tools for life sciences”, EMBO | EMBL

Symposium: Seeing is Believing, Heidelberg, Germany, 10月9-12日, (2019).

6. Atsushi Miyawaki, “Genetically encoded tools for brain studies”, IBRO 2019, Deagu, South Korea, 9月21日, (2019).
7. 宮脇敦史, “Luminescence imaging technologies for brain sciences”, NEURO2019 富士フィルム和光純薬(株)ランチョンセミナー, 新潟, 7月25日, (2019).
8. Atsushi Miyawaki, “Luminescence imaging”, RIKEN IMS-JSI International Symposium on Immunology2019, Tokyo, 6月24-25日, (2019).

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

1. Resonance Bio International Symposium, Tokyo, October 30-November 1, (2019).