Selected Publications in 2021AY from NIBB

**Transient suppression of transplanted spermatogonial stem cell differentiation restores fertility in mice**

Nakamura, Y., Jörg, D. J., Kon, Y., Simons, B. D., and Yoshida, S. (2021). Cell Stem Cell, 28, 1443-1456.e7.
DOI: 10.1016/j.stem.2021.03.016

**Chloroplast acquisition without the gene transfer in kleptoplastic sea slugs, *Plakobranchus ocellatus***

Maeda, T., Takahashi, S., Yoshida, T., Shimamura, S., Takaki, Y., Nagai, Y., Toyoda, A., Suzuki, Y., Arimoto, A., Ishii, H., Satoh, N., Nishiyama, T., Hasebe, M., Maruyama, T., Minagawa, J., Obokata, J., Shigenobu, S. (2021). eLife 10, e60176.
DOI: 10.7554/eLife.55108

**Quantitative analyses reveal extracellular dynamics of Wnt ligands in *Xenopus* embryos**

Mii, Y., Nakazato, K., Pack, C. G., Ikeda, T., Sako, Y., Mochizuki, A., Taira, M. and Takada, S. (2021). eLife 10, e55108.
DOI: 10.7554/eLife.60176

**Structural basis of LhcbM5-mediated state transitions in green algae**

Pan, X., Tokutsu, R., Li, A., Takizawa, K., Song, C., Murata, K., Yamasaki, T., Liu, Z., Minagawa, J., and Li, M. (2021). Nat. Plants 7, 1119–1131.
DOI: 10.1038/s41477-021-00960-8

**Three-dimensional morphodynamics simulations of macropinocytic cups**

Saito, N., Sawai, S. (2021). iScience 24, 103087.
DOI: 10.1016/j.isci.2021.103087

**A multistate stem cell dynamics maintains homeostasis in mouse spermatogenesis**

Nakagawa, T., Jörg, D. J., Watanabe, H., Mizuno, S., Han, S., Ikeda, T., Omatsu, Y., Nishimura, K., Fujita, M., Takahashi, S., Kondoh, G., Simons, B. D., Yoshida S. and Nagasawa, T. (2021). Cell Reports 37, 109875.
DOI: 10.1016/j.celrep.2021.109875
Optogenetic relaxation of actomyosin contractility uncovers mechanistic roles of cortical tension during cytokinesis
Yamamoto, K., Miura, H., Ishida, M., Mii, Y., Kinoshita, N., Takada, S., Ueno, N., Sawai, S., Kondo, Y. and Aoki, K. (2021). Nat. Commun. 12, 7145.
DOI: 10.1038/s41467-021-27458-3

Near-infrared imaging in fission yeast using a genetically encoded phycocyanobilin biosynthesis system
Sakai, K., Kondo, Y., Fujioka, H., Kamiya, M., Aoki, K., and Goto, Y. (2021). J. Cell Sci. 134, jcs259315.
DOI:10.1242/jcs.259315

Genomic and transcriptomic analyses of the subterranean termite Reticulitermes speratus: gene duplication facilitates social evolution
Shigenobu, S., Hayashi, Y., Watanabe, D., Tokuda, G., Hojo, M.Y., Toga, K., Saiki, R., Yaguchi, H., Masuoka, Y., Suzuki, R., Suzuki, S., Kimura, M., Matsunami, M., Sugime, Y., Oguchi, K., Niimi, T., Gotoh, H., Hojo, M.K., Miyazaki, S., Toyoda, A., Miura, T., and Maekawa, K. (2022). Proc. Natl. Acad. Sci. U.S.A. 119, e2110361119.
DOI: 10.1073/pnas.2110361119

Force-dependent remodeling of cytoplasmic ZO-1 condensates contributes to cell-cell adhesion through enhancing tight junctions
Kinoshita, N., Yamamoto, T.S., Yasue, N., Takagi, C., Fujimori, T., Ueno, N. (2022). iScience 25, 103846.
DOI: 10.1016/j.isci.2022.103846

A hemimetabolous wing development suggests the wing origin from lateral tergum of a wingless ancestor
Ohde, T., Mito, T., and Niimi, T. (2022). Nat. Commun. 13, 979.
DOI: 10.1038/s41467-022-28624-x

Auxin methylation by IAMT1, duplicated in the legume lineage, promotes root nodule development in Lotus japonicus
Goto, T., Soyano, T., Liu, M., Mori, T., Kawaguchi, M. (2022). Proc. Natl. Acad. Sci. U.S.A. 119, e2116549119.
DOI: 10.1073/pnas.2116549119

Motion Illusion-like Patterns Extracted from Photo and Art Images Using Predictive Deep Neural Networks
Kobayashi, T., Kitao, A., Kosaka, M., Tanaka, K., and Watanabe, E. (2022). Sci. Rep. 12, 3893.
DOI: 10.1038/s41598-022-07438-3