

2026

1. **Pre-mRNA splicing regulates cellular dedifferentiation via lipid metabolism in a cytokinin-dependent manner in *Arabidopsis***
Takeuchi, A., Ishikawa, T., Arae, T., Togami, J., Nagamiya, K., Koizumi, K., Ikeda, T., Nagawa, S., Ohbayashi, I., Sugiyama, M. & Ohtani, M. (2026). *Plant Physiology*, 201(1), kiag269.
-

2024

2. **TCA cycle impairment leads to PIN2 internalization and degradation via reduced MAB4 level and ARA6 components in *Arabidopsis* roots**
Song, X., Ohbayashi, I., Sun, S., Wang, Q., Yang, Y., Lu, M., Liu, Y., Sawa, S. & Furutani, M. (2024). *Frontiers in Plant Science*, 15, 1462235.
-

2023

3. ***Arabidopsis* ASYMMETRIC LEAVES2 and Nucleolar Factors Are Coordinately Involved in the Perinucleolar Patterning of AS2 Bodies and Leaf Development**
Ando, S., Nomoto, M., Iwakawa, H., Vial-Pradel, S., Luo, L., Sasabe, M., Ohbayashi, I., Yamamoto, K. T., Tada, Y., Sugiyama, M., Machida, Y., Kojima, S. & Machida, C. (2023). *Plants*, 12(20), 3621.
4. **Upstream open reading frame-mediated upregulation of ANAC082 expression in response to nucleolar stress in *Arabidopsis***
Sasaki, S., Murakami, T., Yasumuro, M., Makita, A., Oi, Y., Hiragori, Y., Watanabe, S., Kudo, R., Hayashi, N., Ohbayashi, I., Sugiyama, M., Yamashita, Y., Naito, S. & Onouchi, H. (2023). *Plant Biotechnology*, 40(1),

2022

5. **Enhancement of shoot regeneration by treatment with inhibitors of auxin biosynthesis and transport during callus induction in tissue culture of *Arabidopsis thaliana***

Ohbayashi, I., Sakamoto, Y., Kuwae, H., Kasahara, H. & Sugiyama, M. (2022). *Plant Biotechnology*, 39(1), 43–50.

2019

6. **Mitochondrial pyruvate dehydrogenase contributes to auxin-regulated organ development**

Ohbayashi, I., Huang, S., Fukaki, H., Song, X., Sun, S., Morita, M. T., Tasaka, M., Millar, A. H. & Furutani, M. (2019). *Plant Physiology*, 180(2), 896–909.

2018

7. **Plant nucleolar stress response, a new face in the NAC-dependent cellular stress responses**

Ohbayashi, I. & Sugiyama, M. (2018). *Frontiers in Plant Science*, 8, 2247.

2017

8. **Evidence for a role of ANAC082 as a ribosomal stress response mediator**

leading to growth defects and developmental alterations in *Arabidopsis*

Ohbayashi, I., Lin, C. Y., Shinohara, N., Matsumura, Y., Machida, Y., Horiguchi, G., Tsukaya, H. & Sugiyama, M. (2017). *Plant Cell*, 29(10), 2644–2660.

2016

9. **A genetic link between epigenetic repressor AS1-AS2 and a putative small subunit processome in leaf polarity establishment of *Arabidopsis***

Matsumura, Y., Ohbayashi, I., Takahashi, H., Kojima, S., Ishibashi, N., Keta, S., Nakagawa, A., Hayashi, R., Saez-Vázquez, J., Echeverria, M., Sugiyama, M., Nakamura, K., Machida, C. & Machida, Y. (2016). *Biology Open*, 5(7), 942–954.

2014

10. **Involvement of rRNA biosynthesis in the regulation of CUC1 gene expression and pre-meristematic cell mound formation during shoot regeneration**

Shinohara, N., Ohbayashi, I. & Sugiyama, M. (2014). *Frontiers in Plant Science*, 5, 159.

11. **The conflict between cell proliferation and expansion primarily affects stem organogenesis in *Arabidopsis***

Maeda, S., Gunji, S., Hanai, K., Hirano, T., Kazama, Y., Ohbayashi, I., Abe, T., Sawa, S., Tsukaya, H. & Ferjani, A. (2014). *Plant and Cell Physiology*, 55(11), 1994–2007.

2013

12. **Nuclear PP2A-Cdc55 prevents APC-Cdc20 activation during the spindle assembly checkpoint**

Rossio, V., Michimoto, T., Sasaki, T., Ohbayashi, I., Kikuchi, Y. & Yoshida, S. (2013). *Journal of Cell Science*, 126(19), 4396–4405.

2011

13. **Genetic identification of *Arabidopsis* RID2 as an essential factor involved in pre-rRNA processing**

Ohbayashi, I., Konishi, M., Ebine, K. & Sugiyama, M. (2011). *Plant Journal*, 67(1), 49–60.