

A list of recent publications using RUBY (with help from Alexey Kiryushkin):

Adhikari, S., Mudalige, A., Phillips, L., Lee, H., Bernal-Galeano, V., Gruszewski, H., Westwood, J.H. and Park, S.-Y. (2025). ***Agrobacterium*-mediated *Cuscuta campestris* transformation as a tool for understanding plant–plant interactions.** *New Phytol*, 245 (4), 1774-1786.

<https://doi.org/10.1111/nph.20140>

Ajdanian, L., Niazian, M., & Torkamaneh, D. (2024). **Optimizing *ex-vitro* one-step RUBY-equipped hairy root transformation in drug- and hemp-type Cannabis.** *Plant Biotechnology Journal*, 22(7), 1957-1959. <https://doi.org/10.1111/pbi.14314>

Kasavajhala V S K Prasad, Amandeep Cheema, William Scanlon, Allison Matthews, Saida Sharifova, Enamul Huq, Anireddy S N Reddy (2024)., **A simple method to visualize pre-mRNA splicing with the naked eye using a genetically encoded visual splicing reporter.** *Plant Physiology* 196 (2), 726–730, <https://doi.org/10.1093/plphys/kiae396>

Baral, B., Riihelä, S., Kemppinen, J., Sierla, M., and Brosché, M. (2024). **Seeing the invisible: Tools to teach and study plant transcriptional responses.** *Plant Physiol.*, 196(3), 1729-1732. <https://doi.org/10.1093/plphys/kiae421>

Cao, X., Xie, H., Song, M., Lu, J., Ma, P., Huang, B., Wang, M., Tian, Y., Chen, F., Peng, J., Lang, Z., Li, G., & Zhu, J.-K. (2023). **Cut-dip-budding delivery system enables genetic modifications in plants without tissue culture.***Innovation (Cambridge (Mass.))*, 4(1), 100345. <https://doi.org/10.1016/j.xinn.2022.100345>

Cao, X., Xie, H., Song, M., Zhao, L., Liu, H., Li, G., et al. (2023). **Simple method for transformation and gene editing in medicinal plants.** *J. Integr. Plant Biol.*, 66(1), 17-19. <https://doi.org/10.1111/jipb.13593>

Chen, J., Luo, M., Hands, P., Rolland, V., Zhang, J., Li, Z., Outram, M., Dodds, P., & Ayliffe, M. (2023). **A split GAL4 RUBY assay for visual in planta detection of protein-protein interactions.** *The Plant Journal: For Cell and Molecular Biology*, 114(6), 1209–1226. <https://doi.org/10.1111/tpj.16234>

Chen, L., Cai, Y., Liu, X. et al. (2024). **The RUBY reporter for visual selection in soybean genome editing.***aBIOTECH*, 5 (2), 209–213. <https://doi.org/10.1007/s42994-024-00148-6>

Gad, K., Levchuk, H., Kappel, C. & Lenhard, M. (2025). **Establishment of an *Agrobacterium*-mediated transformation system for the genetic engineering of *Linum grandiflorum* Desf.** *Physiologia Plantarum*, 177(1), e70059. <https://doi.org/10.1111/ppl.70059>

Ge, X., Wang, P., Wang, Y., Wei, X., Chen, Y., & Li, F. (2023). **Development of an eco-friendly pink cotton germplasm by engineering betalain biosynthesis pathway.** *Plant Biotechnology Journal*, 21(4), 674–676. <https://doi.org/10.1111/pbi.13987>

Ge, X., Xu, J., Yang, Z., Yang, X., Wang, Y., Chen, Y., Wang, P., & Li, F. (2023). **Efficient genotype-independent cotton genetic transformation and genome editing.** *Journal of Integrative Plant Biology*, 65(4), 907–917. <https://doi.org/10.1111/jipb.13427>

Hernández-Delgado, H. E., Zamora-Briseño, J. A., Figueroa-Yáñez, L. J., & Urrea-López, R. (2023). **Vacuum-Forced Agroinfiltration for In planta Transformation of Recalcitrant Plants: Cacao as a Case Study.** *JoVE (Journal of Visualized Experiments)*, (201), <https://doi.org/10.3791/66024>

Huai, D., Wu, J., Xue, X., Liu, H., Liu, N., Huang, L., et al. (2024). **Creation of purple leaf peanut germplasm through metabolic engineering of betalain biosynthesis pathway.** *Journal of Integrative Agriculture*. <https://doi.org/10.1016/j.jia.2024.09.034>

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Jogam, P., Anumula, V., Sandhya, D., Manokari, M., Venkatapuram, A.K., Achary, V.M.M., Shekhawat, M.S., Peddaboina, V., & Allini, V.K. (2024). **Monitoring genetic transformation with RUBY visible reporter in *Nicotiana tabacum* L..** *Plant Cell Tiss Organ Cult* 157, 23. <https://doi.org/10.1007/s11240-024-02752-2>

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Lyu, K., Zhang, X., Yu, W., Lyu, S., and Fan, Y. (2024). **Optimization of hairy root transformation and application of ruby as a reporter in *Lotus corniculatus*.** *Agronomy* 14(6), 1335. <https://doi.org/10.3390/agronomy14061335>

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Sun, H., Wang, S., Yang, K., Zhu, C., Liu, Y., & Gao, Z. (2023). **Development of dual-visible reporter assays to determine the DNA-protein interaction.** *The Plant Journal: For Cell and Molecular Biology*, 113(5), 1095–1101. <https://doi.org/10.1111/tpj.16094>

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