Japan

HAN-P-13

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Research Field(s)	Plant Chemical Biology

Academic Career

B.S., 1998, Kyoto University; Ph.D., 2003, Kyoto University (advisor: Isao Saito); Postdoctoral Training, 2003-2007, RIKEN (advisor: Yukishige Ito); Postdoctoral Training, 2007-2008, University of Geneva (advisor: Stefan Matile); Assistant Professor, 2008-2013, Tohoku University, Associate Professor. 2013-2018, Nagoya University, Team Leader, 2018-present, RIKEN

Selected Publications

1. Probing strigolactone receptors in Striga hermonthica with fluorescence. Tsuchiya, Y., et al. Science, 349, 864-868 (2015)
2. Discovery of Shoot Branching Regulator Targeting Strigolactone Receptor DWARF14. Yoshimura, M., et al. ACS Cent. Sci., 4, 230-234 (2018)
3. Chemical hijacking of auxin signaling with an engineered auxin-TIR1 pair. Uchida, N., et al. Nat. Chem. Biol., 14, 299-307 (2018)
4. Rapid and reversible root growth inhibition by TIR1 auxin signalling. Fendrych, M., et al. Nat. Plants, 4, 453-459 (2018)
5. A super-sensitive auxin-inducible degron system with an engineered auxin-TIR1 pair Nishimura, K., et al. Nucleic Acids Res. 48, e108 (2020)
6. Development of potent inhibitors for strigolactone receptor DWARF 14 Yoshimura, M., et al. Chem. Commun., 56, 14917-14919 (2020)
7. Development of 1,8-naphthalimide dyes for rapid imaging of subcellular compartments in plants. Kusano, S., et al. Chem. Commun., 58, 1685-1688 (2022)
8. Discovery of a Plant 14-3-3 Inhibitor Possessing Isoform Selectivity and In Planta Activity. Nishiyama, K., et al. Angew. Chem. Int. Ed., 63, e202400218 (2024)

Why My Lab?

My lab can offer research environment for interdisciplinary research between chemistry and plant biology that contribute to sustainable food production, and support program for non-Japanese students (e.g., RIKEN IPA program).