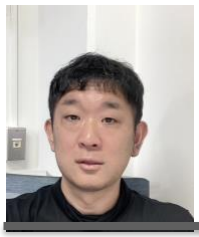

准教授

櫻庭康仁（さくらば　やすひと）

Room 401
Phone: [03-5841-3076]
E-Mail: usakurab@g.ecc.u-tokyo.ac.jp

略歴

2005 学士　　北里大学理学部
2007 修士　　北海道大学環境科学院
2010 博士　　北海道大学生命科学院

2008-2010　　日本学術振興会特別研究員(DC2)
2010-2013　　ソウル大学農学部（韓国）ポスドク研究員
2013-2016　　ソウル大学農学部（韓国）研究教授
2015-2016　　マックスプランク研究所（ドイツ）客員研究員
2016-2018　　東京大学生物生産工学研究センター 特任助教
2018-2021　　東京大学生物生産工学研究センター 助教
2021-現在　　東京大学農学生命科学研究科アグロバイオテクノロジー研究センター 准教授

2025　　日本植物生理学会 奨励賞

研究内容

植物の葉の老化制御の分子機構の解明／植物の窒素飢餓応答の分子機構の解明／植物の光シグナル伝達機構の解明/植物のマイクロ RNA ダイナミクスの分子機構の解明

主要論文

1. **Sakuraba Y**, Yang M, Yanagisawa S. (2024) HASTY-mediated miRNA dynamics modulate nitrogen starvation-induced leaf senescence in Arabidopsis. **Nature Communications** 15: 7913..
2. **Sakuraba Y** (2022) Molecular basis of nitrogen starvation-induced leaf senescence. **Frontiers in Plant Science** 13: 1013304
3. **Sakuraba Y**, Chaganzhana, Mabuchi A, Iba K, Yanagisawa S. (2021) Enhanced NRT1.1/NPF6.3 expression in shoots improves growth under nitrogen deficiency stress in Arabidopsis. **Communications Biology** 4: 256
4. **Sakuraba Y**, Kim D, Han SH, Kim SH, Piao W, Yanagisawa S, An G, Paek NC. (2020) Multilayered regulation of membrane-bound ONAC054 is essential for abscisic acid-induced leaf senescence in rice. **The Plant Cell** 32: 630-649
5. **Sakuraba Y**, Kanno S, Mabuchi A, Monda K, Iba K, Yanagisawa S. (2018) A phytochrome-B-mediated regulatory mechanism of phosphorus acquisition. **Nature Plants** 4: 1089-1101
6. **Sakuraba Y**, BulBul S, Piao W, Choi G, Paek NC (2017) EARLY FLOWERING3 increases salt tolerance by suppressing salt stress response pathways. **The Plant Journal** 92:1106-1120
7. **Sakuraba Y**, Kim EY, Han SH, Piao W, An G, Todaka D, Yamaguchi-Shinozaki K, Paek NC (2017) Rice Phytochrome-Interacting Factor-LIKE 1 (OsPIL1) is involved in the promotion of chlorophyll biosynthesis through feed-forward regulatory loop. **Journal of Experimental Botany** 68: 4103-4114.
8. **Sakuraba Y**, Kim YS, Han SH, Lee BD, and Paek NC (2015) The Arabidopsis transcription factor NAC016 promotes drought stress responses by repression AREB1 transcription through a trifurcate feed-forward regulatory loop involving NAP. **The Plant Cell** 27:1771-1787
9. **Sakuraba Y**, Jeong J, Kang MY, Kim J, Paek NC, and Choi G. (2014) Phytochrome-interacting transcription factors PIF4 and PIF5 induce leaf senescence in Arabidopsis. **Nature Communications** 5:4636
10. **Sakuraba Y**, Park SY, Kim YS, Wang SH, Yoo SC, Hortensteiner S, Paek NC. (2014) Arabidopsis STAY-GREEN2 is a negative regulator of chlorophyll degradation during leaf senescence. **Molecular Plant** 7:1288-1302
11. **Sakuraba Y**, Rahman ML, Cho SH, Kim YS, Koh HJ, Yoo SC, and Paek NC (2013) The rice fade green leaf locus encodes protochlorophyllide oxidoreductase B and is essential for chlorophyll synthesis under high light conditions. **The Plant Journal** 74: 122-133
12. **Sakuraba Y**, Schelbert S, Park SY, Han SH, Lee BD, Andres CB, Kessler F, Hortensteiner S, Paek NC (2012) STAY-GREEN and chlorophyll catabolic enzymes interact at light-harvesting complex II for chlorophyll detoxification during leaf senescence in Arabidopsis. **The Plant Cell** 24:507-518