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## 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  
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## 研究内容

植物の葉の老化の分子機構の解析/植物の窒素飢餓応答の分子機構の解析/植物の光シグナルを介した無機栄養獲得の制御の分子機構の解析/植物のマイクロRNAダイナミクスの分子機構の解析

## 主要論文

1. Ariga T\*, **Sakuraba Y\***, Zhuo M, Yang M, Yanagisawa S. (2022) The Arabidopsis NLP7-HB52/HB54-VAR2 pathway modulates energy utilization in diverse light and nitrogen conditions. **Current Biology** 32: 5344-5353.
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, Has 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 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
8. **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
9. **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
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11. **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