

Publication List

April 19, 2024

1. Ren Ujimatsu, Junya Takino, Masami Nakamura, Hiromi Haba, Atsushi Minami, Kei Hiruma
“A fungal transcription factor BOT6 facilitates the transition of a beneficial root fungus into an adapted anthracnose pathogen”

Preprint (2024-3-13) DOI: [10.1101/2024.03.10.584252](https://doi.org/10.1101/2024.03.10.584252)

2. Yoshiro Sato, Xinge Shi, Ying Ye, Saori Domon, Junya Takino, Taro Ozaki, Chengwei Liu, Hideaki Oikawa, Atsushi Minami

“Bioinformatics-Guided Reconstitution of Biosynthetic Machineries of Fungal Eremophilane Sesquiterpenes”

ACS Chem. Biol., **19**, 4, 886-895 (2024).

3. Kei Hiruma, Seishiro Aoki, Junya Takino, Takeshi Higa, Yuniar Devi Utami, Akito Shiina, Masanori Okamoto, Masami Nakamura, Nanami Kawamura, Yoshihiro Ohmori, Ryohei Sugita, Keitaro Tanoi, Toyozo Sato, Hideaki Oikawa, Atsushi Minami, Wataru Iwasaki, Yusuke Saijo

“A fungal sesquiterpene biosynthesis gene cluster critical for mutualist-pathogen transition in *Colletotrichum tofieldiae*”

Nat. Commun., **14**, 5288, 1-18 (2023).

4. Shintaro Yamamoto, Taro Matsuyama, Taro Ozaki, Junya Takino, Hajime Sato, Masanobu Uchiyama, Atsushi Minami, Hideaki Oikawa

"Elucidation of Late-Stage Biosynthesis of Phomoidride: Proposal of Cyclization Mechanism Affording Characteristic Nine-Membered Ring of Fungal Dimeric Anhydride"

J. Am. Chem. Soc. **144**, 46, 20998–21004 (2022).

5. Akari Kotani, Taro Ozaki, Junya Takino, Susumu Mochizuki, Kazuya Akimitsu, Atsushi Minami, Hideaki Oikawa

"Heterologous expression of a polyketide synthase ACRTS2 in *Aspergillus oryzae* produces host selective ACR-toxins: Co-production of minor metabolites"

Biosci. Biotech. Biochem. **86**, 3, 287-293 (2022).

6. Junya Takino, Akari Kotani, Taro Ozaki, Wenquan Peng, Jie Yu, Yian Guo, Susumu Mochizuki, Kazuya Akimitsu, Masaru Hashimoto, Tao Ye, Atsushi Minami, Hideaki Oikawa

"Biochemistry-guided prediction of the absolute configuration of fungal reduced polyketides"

Angew. Chem. Int. Ed. **60**, 23403-23411 (2021).

7. Junya Takino, Takuto Kozaki, Taro Ozaki, Chengwei Liu, Atsushi Minami, Hideaki Oikawa
"Elucidation of biosynthetic pathway of a plant hormone abscisic acid in phytopathogenic
fungi"

Biosci. Biotech. Biochem. **83**, 9, 1642-1649 (2019).

8. Junya Takino, Takuto Kozaki, Yoshiro Sato, Chengwei Liu, Taro Ozaki, Atsushi Minami,
Hideaki Oikawa

"Unveiling Biosynthesis of the Phytohormone Abscisic Acid in Fungi: Unprecedented
Mechanism of Core Scaffold Formation Catalyzed by an Unusual Sesquiterpene Synthase"

J. Am. Chem. Soc. **140**, 39, 12392-12395 (2018).