



研究実績 2014

Yoko Marutani, Yasuo Yamauchi, Akihito Miyoshi, Kanako Inoue, Ken-ichi Ikeda, Masaharu Mizutani, Yukihiro Sugimoto: Regulation of Photochemical Energy Transfer Accompanied by Structural Changes in Thylakoid Membranes of Heat-Stressed Wheat
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES 15(12) 23042-23058
2014.12

Kotomi Ueno, Toshio Furumoto, Shuhei Umeda, Masaharu Mizutani, Hirosato Takikawa, Rossitza Batchvarova, Yukihiro Sugimoto: Heliolactone, a non-sesquiterpene lactone germination stimulant for root parasitic weeds from sunflower. PHYTOCHEMISTRY 108 122-128 2014.12

Mode-of-action and evolution of methylenedioxy bridge forming P450s in plant specialized metabolism

Akio Noguchi, Manabu Horikawa, Jun Murata, Masayuki Tera, Yosuke Kawai, Masaji Ishiguro, Toshiaki Umezawa, Masaharu Mizutani, Eiichiro Ono: Mode-of-action and evolution of methylenedioxy bridge forming P450s in plant specialized metabolism. Plant Biotechnology 31(5) 493-503 2014,12

Atsushi Okazawa, Tatsuya Kusunose, Eiichiro Ono, Hyun Jung Kim, Honoo Satake, Bun-ichi Shimizu, Masaharu Mizutani, Hikaru Seki, Toshiya Muranaka: Glucosyltransferase activity of Arabidopsis UGT71C1 towards pinorexinol and lariciresinol.

Yosuke Kawai, Eiichiro Ono, Masaharu Mizutani: Expansion of specialized metabolism-related superfamily genes via whole genome duplications during angiosperm evolution
PLANT BIOTECHNOLOGY 31(5) 579-584 2014,12

Hiromichi Saino, Tetsuya Shimizu, Jun Hiratake, Toru Nakatsu, Hiroaki Kato, Kanzo Sakata, Masaharu Mizutani: Crystal Structures of β -Primeverosidase in Complex with Disaccharide Amidine Inhibitors. Journal of Biological Chemistry 289(24) 16826-16834 2014.6

Yosuke Kawai, Eiichiro Ono, Masaharu Mizutani: Evolution and diversity of the 2-oxoglutarate-dependent dioxygenase superfamily in plants. PLANT JOURNAL 78(2) 328-343 2014.4



Graduate School of Agricultural Science, Kobe University
Division of Applied Chemistry in Bioscience
Functional Phytochemistry Lab



神戸大学大学院農学研究科 応用生命化学講座 植物機能化学研究室