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First discovery of fungal polyene macrolide by genome mining and heterologous expression of a cryptic HR-PKS cluster

○Yohei Morishita, Huiping Zhang, Daisuke Hagiwara, Teigo Asai.

3rd European Conference on Natural Products. 2018. 9/5. Frankfurt, German. (oral)

Production of diverse diterpenoid pyrones by re-construction and re-designing of fungal biosynthetic pathways in *Aspergillus oryzae*

○Kento Tsukada, Shono Shinki, Akiho Kaneko, Teigo Asai.

3rd European Conference on Natural Products. 2018. 9/5. Frankfurt, German. (poster)

Development of Approaches for Activating Fungal Cryptic Secondary Metabolites Production Based on Random Mutation and Chemical Induction,

○Y. Morishita, T. Amiya, T. Yamamoto, Y. Oshima, T. Asai,

International Symposium on Natural Product for the Future 2016, Tokushima, 9/2

Manipulation of Fungal Epigenetics Using a HDAC Inhibitor Induced Structurally Diverse Polyketide Production in *Chaetomium indicum*

○Teigo Asai, Takashi Yamamoto, Naoki Shirata, Tohru Taniguchi, Kenji Monde, Yoshiteru Oshima.

International Symposium for the 70th Anniversary of the Tohoku Branch of the Chemical Society of Japan. 2013. (Sendai).

Discovery of Structurally Diverse Novel Secondary Metabolites from Entomopathogenic Fungi by Using Chemical Epigenetic Method

○Takashi Yamamoto, Teigo Asai, Yoshiteru Oshima.

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Manipulation of Fungal Epigenetics Using a HDAC inhibitor Induced Structurally Diverse Polyketide Production in *Chaetomium indicum*.

○Teigo Asai, Takashi Yamamoto, Naoki Shirata, Tohru Taniguchi, Kenji Monde, Yoshiteru Oshima.

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Secondary Metabolites Exudated from Capitate Glandular Trichomes

○Asai, T., Oshima, Y., Kohshima, S., Fujimoto, Y.

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Biomimetic Formation of A Rearranged Ecdysteroid: Acid Mediated Migration of the Methyl Group from C-13 to C-14

○Asai, T. and Fujimoto, Y.

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