

Mami Yamazaki

Graduate School of Pharmaceutical Sciences, Chiba University, Chiba, Japan

Gene discovery for specialized metabolisms by genomics, transcriptomics and metabolomics

The recent advances of omics (genomics, transcriptomics, and metabolomics) in plants accelerate our understanding about the reaction mechanism and regulation of plant specialized metabolisms in plants. We can now address the questions how the metabolomic and chemical diversity in plants is originated and have been evolved at the levels of genome by phytochemical genomics. This knowledge can be applied for the production of valuable natural products in industry and agriculture. In this presentation, I will report our recent investigation on gene discovery for biosynthesis of plant specialized products by means of transcriptomics and metabolomics.