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植物特化代謝とバイオテクノロジー

Plant specialized metabolism and biotechnology

Summary

Plants produce a diverse array of specialized metabolites, including flavonoids and lignin, which are crucial for plant physiology and beneficial to human activities. Flavonoids are health beneficial when consumed, whereas lignin is a key component of plant lignocellulosic biomass used for the sustainable production of fuels, chemicals, and materials in biorefineries, which can contribute to reducing the reliance on fossil resources. To better utilize plants for various applications, understanding the biosynthesis and physiological roles of these metabolites is essential. In this seminar, I will give a brief introduction to plant science, specialized metabolism, and biotechnology. I will also introduce my research on biosynthesis and bioengineering of flavonoids and lignin.

*Language: English

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参加登録



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