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## **Green leaf volatiles: their formation and ecological relevance**

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The biosphere on earth has a wide abundance of volatile organic compounds (VOCs). We are now learning that these VOCs play important roles in ecosystems comprising diverse microbes, plants and animals. In this symposium, such biologically active VOCs are called Ecological Volatiles. They may be essential for mutualistic/antagonistic interactions between two organisms belonging to the same or different species. Organisms that perceive Ecological Volatiles utilize them as the information to assess their environment and respond appropriately. In this symposium, we try to understand comprehensive functions of Ecological Volatiles. Mostly, studies on biological functions of volatiles have been conducted within a field of single research area, e.g., molecular biology, natural products chemistry, chemical ecology, physiology, and behavioral ecology, and interdisciplinary studies are rare. Now is the time to synthesize the current knowledge to understand the significance of Ecological Volatiles in nature. In this symposium, all aspects of Ecological Volatiles will be discussed. Therefore, this symposium will serve as a forum for sharing recent knowledge gained through various research efforts.

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