

The Review of 1st Symposium on “Why Human Beings are Refreshed by the Fresh Green Odor Emitted by Green Leaves in Forest!”

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Summary

The author has studied the chemistry and biochemistry of so called green odor by a multidisciplinary approach involving synthetic chemistry, natural product chemistry, flavor chemistry, plant biochemistry, molecular biology, and plant physiology, till 1994 since 1957¹⁻³⁾. With above theme, since 1985, it has studied on the relationships between the chemical structure and human characteristic response for this green odor¹⁻³⁾. Following these studies, from 1994, it was extended to the theme on “Why people are refreshed by the fresh green odor emitted by green leaves in forest”. To demonstrate a reduction of stress and of schizophrenic tendency, it has been begun with the research on the effect of green odor for human olfactory receptor neuron and the activation mechanism of smell sense organ and then, for tendency of immunity by green odor. Now, for the 21st century, to push this work, a research project was organized by me under joining from interdisciplinary. By this project, the 1st symposium on “Why people is refreshed by the fresh green odor emitted by green leaves in forest!” was held at Department of Pharmacology, University of Tokyo at December 5th, 1997 under supporting by the NISSAN SCIENCE FOUNDATION¹⁰⁾. Following, the 2nd on this symposium was held at 1998⁴⁾, the 3rd done at 1999⁵⁾, the 4th at 2000⁶⁾, 5th, 2001⁷⁾, 6th, 2002⁸⁾, and then 7th, 2003⁹⁾ on the same place, at the first Saturday of December, every year.

Now, as it has been lacking the report on the 1st symposium held at 1997, here, I would like shown you this report¹⁰⁾, under the style of the review.

1) A. Hatanaka, Biosynthesis of so-called “green odor” emitted by green leaves, *Comprehensive natural products chemistry*, Vol.1-9, edited by Barton-Nakanishi, *Elsevier Sci.*, Vol.1, Chap. 4, 83-116 (1999). 2) A. Hatanaka, The fresh green odor emitted by plants, *Food Rev. Int.*, **12**(3), 303-350 (1996). 3) A. Hatanaka, Plant original green odor – Chemistry and Biochemistry–, *SEIKAGAQ*, **75** (11) 1417-1428 (2003). 4) A. Hatanaka, The 2nd Symposium “Why people is refreshed by the fresh green odor emitted by green leaves in forest!”, *FFI Journal of Japan*, **180**, 90-97 (1999). 5) The 3rd: *id.*, **185**, 50-60 (2000), 6) The 4th: *id.*, **192**, 55-64 (2001). 7) 5th: *id.*, **198**, 45-55 (2002). 8) The 6th: *id.*, **208** (3), 208-216 (2003). 9) The 7th: *id.*, **209** (3), 229-239, 2004. 10) The 1st: *id.*, **209** (11), 2004.

