in Arabidopsis thaliana, Produced by Aspergillus terreus Atsumi Shimada^{a,*}, Miyako Kusano^b, Sumiyo Takeuchi^a, Shozo Fujioka^c,

Tomohisa Inokuchi^b and Yasuo Kimura^b

^a Department of Environmental Chemistry, Faculty of Engineering, Kyushu Kyoritsu

University, 1-8 Jiyugaoka, Yahatanishi-ku, Kitakyushu-shi, Fukuoka 807-8585, Japan.

Aspterric Acid and 6-Hydroxymellein, Inhibitors of Pollen Development

- Fax: +81(0)93-693-3201. E-mail: jun@kyukyo-u.ac.jp
 Department of Biological and Environmental Chemistry, Faculty of Agriculture, Tottori University, Koyama, Tottori-shi, Tottori 680-8553, Japan
 The Institute of Physical and Chemical Research (RIKEN), Hirosawa 2-1,
 - Wako-shi, Saitama 351-0198, Japan

* Author for correspondance and reprint requests

higher plants.

Z. Naturforsch. **57 c**, 459–464 (2002); received February 8/March 6, 2002

Aspterric Acid, 6-Hydroxymellein, *Arabidopsis thaliana*, *Aspergillus terreus*Aspterric acid (1) and 6-hydroxymellein (2), inhibitors of pollen development in *Arabidopsis thaliana*, have been isolated from the fungus *Aspergillus terreus*. 1 and 2 inhibited the pollen development at concentrations of 38 and 52 µm, respectively. The microscopic examination of pollen development suggested that the inhibition by the treatment with 1 caused at meiosis and the inhibition by the treatment with 2 caused at microspore stage. 1 and 2 could be useful agents for the molecular investigation of anther and pollen development in