Effects of Kaurane Diterpene Derivatives on Germination and Growth of Lactuca sativa Seedlings Henriete S. Vieira, Jacqueline A. Takahashi, Lúcia P. S. Pimenta,

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* Author for correspondence and reprint requests Z. Naturforsch. **60 c,** 72–78 (2005); received May 5/August 23, 2004 Kaurenoic and grandiflorenic acid, isolated from Wedelia paludosa (Asteraceae), some derivatives from these acids (alcohols, esters, amides, lactones, oximes) and other naturally occurring kaurane diterpenes were tested for their action on the growth of radical and shoot of Lactuca sativa. Gibberellic acid, GA₃, a commercially available phytohormone, belonging to the same class of diterpenes, was also tested. Some of the tested substances showed a

remarkable activity either in the inhibition or in stimulation of L. sativa growth. The activity, in some cases, was even higher than that of GA₃. Key words: Gibberellic Acid, Kaurenoic Acid, Allelopathic Activity