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α -Glucosidase Inhibitory Activity in Leaves of Some Mulberry Varieties

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The seasonal and polyploidal changes of α -glucosidase (rat-intestinal) inhibitory activity in mulberry leaves were compared in 12 mulberry varieties. Enashi, Fusoumaru, No. 325 and Kenmochi which are classified as 3 major varieties in Japan were harvested in May or August as the field samples. Shimaguwa and the 3 different wild types such as Kuromiguwa, Nagamiguwa, Midoriguwa were harvested in May as the greenhouse samples. Some varieties harvested in the field or greenhouse indicated a difference in α -glucosidase. In the field Enashi was strong, while Kenmochi was rather weak. The seasonal changes of inhibition between May and August were differed among the varieties. The 3x variety in the field or greenhouse showed the strong inhibition within the same variety.

Keywords: [\$\alpha\$ -glucosidase](#), [inhibitor](#), [mulberry](#), [Morus](#), [polyploidy](#), [variety](#)

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