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Isolation and Characterization of Gibberellins from the Moss *C. Purpureus*

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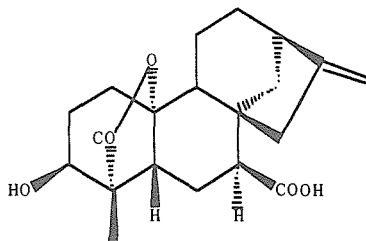
Poster Presentation P43

ISOLATION AND CHARACTERIZATION OF GIBBERELLINS
FROM THE MOSS *C. PURPUREUS*

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The plant hormone Gibberellic Acid (GA) is known to mediate a number of developmental processes in flowering plants, including fruit growth, germination, and internode elongation. Although the information concerning GAs in flowering plants is well documented, very few studies have addressed the roles of GAs in non-flowering bryophytes, specifically the mosses.

Recent evidence suggests that GA may also play an important role in the growth and development of mosses, specifically *Ceratodon purpureus*. Preliminary studies utilizing a GA biosynthesis inhibitor caused a dramatic decrease in *C. purpureus* growth, while the application of exogenous GA restored normal growth. These observations lead to the conclusion that Gibberellic Acid is vital to normal growth and function in the mosses. Results from further growth studies, as well as current attempts to isolate and characterize gibberellins from plant tissue are reported.



GA₄ – Commercially available C₁₉ GA