

CONTENTS

Introduction	1
The Structures of the Fungal Gibberellins	3
Isolation and Structure of Gibberellins from Higher Plants	18
Evidence for the Widespread Occurrence of a Gibberellic Acid-Like Sub-stance in Higher Plants	26
Properties of Gibberellins from Flowering Plants	37
Endogenous Gibberellins in Resting and Sprouting Potato Tubers	42
Gibberellin, Auxin, and Growth Retardant Effects upon Cell Division and Shoot Histogenesis	49
Relationship of Gibberellic Acid to Enzyme Development	59
Gibberellins and Flower Formation	71
Gibberellin Modification of Flower Sex Expression in <i>Cucumis sativus</i> L.	80
Growth of Grapes in Relation to Gibberellin	89
Flowering and Fruiting of Strawberries in Relation to Gibberellins	109
Determination of Residual Tritium-Labeled Gibberellic Acid in Potatoes, Grapes, and Products Derived from Barley by Isotopic Dilution Techniques	116
Translocation of C ¹⁴ -Gibberellin in Red Kidney Bean, Normal Corn, and Dwarf Corn	122
Enhancement of Gibberellin-Induced Phenomena	135
Enhancement of Gibberellin and Auxin Action by Alkyl Lipides	142
Structural Relationship among Chemicals Which Act Like Antigibberellins	144
Natural Inhibitors of Gibberellin-Induced Growth	152
Spectrophotometric Method for Determination of Gibberellic Acid	159