

# Contents

<b>1</b>	<b>Introduction</b>	<b>I</b>								
1.1	Auxins	1.2	Gibberellins	1.3	Cytokinins	1.4	Inhibitors			
1.5	Ethylene									
<b>2</b>	<b>Methods</b>	<b>9</b>								
2.1	Extraction procedures	2.2	Biological assays	2.3	Physico-chemical methods					
<b>3</b>	<b>The hormonal control of growth I. Auxins and gibberellins</b>	<b>19</b>								
3.1	Introduction	3.2	Auxins	3.3	Gibberellins					
<b>4</b>	<b>The hormonal control of growth II. Cytokinins, abscisic acid, ethylene</b>	<b>29</b>								
4.1	Cytokinins	4.2	Abscisic acid (ABA)	4.3	Ethylene					
<b>5</b>	<b>Interactions, multiple actions and sequential actions of plant growth substances</b>	<b>41</b>								
5.1	Effects of ABA and a cytokinin	5.2	Effects of ABA and gibberellins	5.3	Interactions between IAA, GA <sub>3</sub> and kinetin (K) in stem growth and the movement of metabolites	5.4	Interaction between GA <sub>3</sub> and K in controlling lateral bud growth	5.5	Multiple and sequential actions of plant growth substances in growth of the young wheat coleoptile	
<b>6</b>	<b>A digression: some experiments with plant growth substances</b>	<b>49</b>								
6.1	Experiments with auxins	6.2.	Experiments with gibberellic acid	6.3	Experiments with kinetin					
<b>7</b>	<b>The mechanism of action of plant growth substances</b>	<b>53</b>								
7.1	The mechanism of action of gibberellins	7.2.	The mechanism of action of auxins							
<b>8</b>	<b>The future</b>	<b>61</b>								
8.1	Unresolved problems	8.2.	Applied aspects of plant growth substances							
<b>References</b>		<b>67</b>								