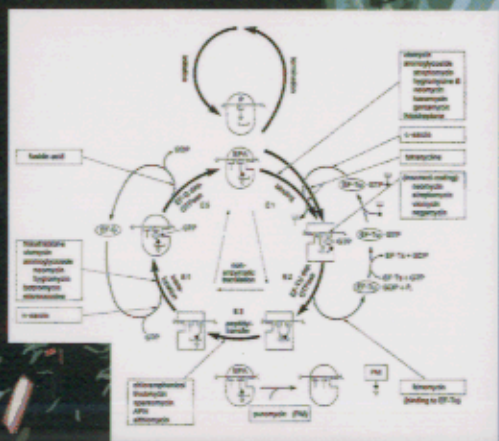


Plant Toxicology

Fourth Edition



edited by
Bertold Hock
Erich F. Elstner

Contents

<i>Preface</i>	<i>iii</i>
<i>Contributors</i>	<i>vii</i>
1. Characteristics of Plant Life: Hazards from Pollutants <i>Bertold Hock and Nicola M. Wolf</i>	1
2. Plant Stress: Avoidance, Adaptation, Defense <i>Harald Schempp, Susanne Hippeli, and Erich F. Elstner</i>	87
3. Uptake and Transport of Xenobiotics <i>Markus Riederer</i>	131
4. Air Pollution: Trace Gases as Inducers of Plant Damage <i>Harald Schempp, Susanne Hippeli, Erich F. Elstner, and Christian Langebartels</i>	151
5. Limitation of Salt Stress to Plant Growth <i>Yuncai Hu and Urs Schmidhalter</i>	191
6. Mineral Element Toxicities: Aluminum and Manganese <i>Walter J. Horst, Angelika Staß, and Marion M. Fecht-Christoffers</i>	225

vi	Contents
7. Herbicides <i>Carl Fedtke and Stephen O. Duke</i>	247
8. Molecular Basis of Toxic Effects: Inhibition of Cellular Pathways and Structural Components <i>K. Kramer and Bertold Hock</i>	331
9. Metabolism and Elimination of Toxicants <i>K. K. Hatzios</i>	469
10. Host-Pathogen Relations: Diseases Caused by Viruses, Subviral Organisms, and Phytoplasmas <i>Balázs Barna and Lóránt Király</i>	519
11. Interactions Between Host Plants and Fungal and Bacterial Pathogens <i>Ingrid Heiser, Jörg Durner, and Christian Langebartels</i>	555
12. Allelopathy <i>Astrid Lux-Endrich and Bertold Hock</i>	597
<i>Index</i>	621