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 2.5.1: Homologues and tissue localization 2.5.2: Sub-cellular localization; 2.6: A Phylogenetic Analysis of Alanine Aminotransferase; 2.7: Purification of Alanine Aminotransferase; 2.8: Protein Characterization of Alanine Aminotransferase; 2.8.1: Subunits and substrate specificities; 2.8.2: Kinetics and reaction mechanism; 2.8.3: Inhibitors of the enzyme; 2.8.4: Crystal structure; 2.9: Diverse Roles of Alanine Aminotransferase in Plants; 2.9.1: Roles in metabolism; 2.9.1.1: Roles in carbon metabolism; 2.9.1.2: Roles in photorespiration; 2.9.1.3: Role in nitrogen use efficiency
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Sommario/riassunto

Amino acids play a role in the defence mechanisms and stress responses of plants, as well as in food quality and safety for humans and animals. Recent advances in the field make a comprehensive overview of the information a necessity; this book collates chapters on plant enzymes and metabolism, modulation, molecular aspects and secondary products. Also including information on ecology, the environment and mammalian nutrition and toxicology, it provides an authoritative resource.
