

Growth and defence in plants: resource allocation at multiple scales

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Abstrak

Plants use resources, i.e. carbon, nutrients, water and energy, either for growth or to defend themselves from biotic and abiotic stresses. This volume provides a timely understanding of resource allocation and its regulation in plants, linking the molecular with biochemical and physiological-level processes. Ecological scenarios covered include competitors, pathogens, herbivores, mycorrhizae, soil microorganisms, carbon dioxide/ozone regimes, nitrogen and light availabilities. The validity of the “Growth-differentiation balance hypothesis” is examined and novel theoretical concepts and approaches to modelling plant resource allocation are discussed.