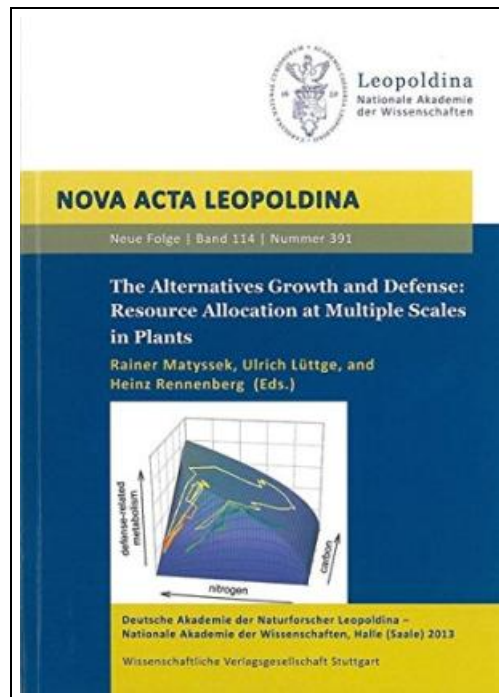


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THE ALTERNATIVE GROWTH AND DEFENSE: RESOURCE ALLOCATION AT MULTIPLE SCALES IN PLANTS



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Wissenschaftliche Mai 2013, 2013. Taschenbuch. Book Condition: Neu. 238x172x17 mm. Neuware - Die Beiträge eines internationalen Symposiums greifen den Konflikt auf, unterschiedliche ökophysiologische Anforderungen an Pflanzen im Prozessgeschehen der Ressourcenallokation auszubalancieren. Der Schwerpunkt liegt dabei auf dem Trade-off zwischen Wachstum und Stressabwehr mit jeweiligen Kosten-/Nutzen-Bewertungen. Wachstum stellt die Voraussetzung dar, um kompetitive Ressourcenakquirierung sicherzustellen, und Abwehr die Voraussetzung, um die Ressourcen nach Inkorporation für die Pflanze zu erhalten. Diese integrierte Betrachtungsweise erfordert in der Erkenntnis des intensiven Ressourcenaustausches der Pflanze mit ihrer abiotischen und biotischen Umwelt eine räumlich-zeitliche Prozessskalierung. Dies wird hinsichtlich des mechanistischen und zugleich ökologisch relevanten Klärungspotenzials geprüft. Die Analyse der Prozessvernetzung zwischen funktionalen und strukturellen pflanzen- und ökosysteminhärenten biologischen Organisationsebenen (Skalen) wird dabei als Voraussetzung für räumlich-zeitliche Musteraufdeckung im Allokationsgeschehen identifiziert. Die Beiträge erreichen so eine neue Qualität eines umfassenden, prozessbasiert integrierenden Verständnisses von 'Systembiologie'. Articles of an international symposium take on the conflict of balancing different eco-physiological requirements of plants in the process sequence of resource allocation. Focus is on the trade-off between growth and stress defence with respective cost/benefit assessments. Growth is the precondition to ensuring competitive resource acquisition, and defence is the precondition to retaining these resources for the plant after incorporation. Recognizing the plant's intensive exchange of resources with its abiotic and biotic environment, this integrated approach requires spatial and temporal process scaling. This is tested with regard to both the mechanistic and ecologically relevant clarification potential. The analysis of the process integration of the functional and structural plant and ecosystem-inherent biological organization levels (scales) is identified as the precondition for spatial and temporal pattern disclosure during the allocation sequence. These articles thereby achieve a new quality in a comprehensive, process-based, integrative understanding of 'system biology'. 369 pp. Englisch.



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