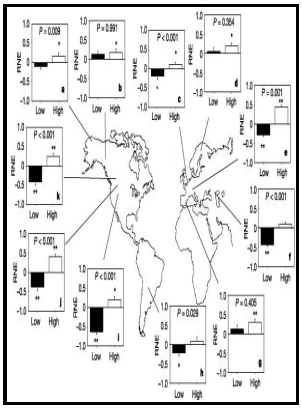
Positive interactions and interdependence in plant communities

Springer - Positive interactions, discontinuous transitions and species coexistence in plant communities



Description: -
-
Plant communitiesPositive interactions and interdependence in plant communities
-Positive interactions and interdependence in plant communities
Notes: Includes bibliographical references (p. 335-411) and index.
This edition was published in 2007

Tags: #Positive #and #negative #plant

Positive and negative plant

However, with further increases in herbivory, carbon allocation belowground would be reduced, leading to the survival of only a few species of mycorrhizal fungi and reduced species richness. There is evidence that many factors, such as the mode of competition and nutrient limitation, can influence the thinning slope e.

Positive Interactions and Interdependence in Plant Communities

Species of mycorrhizal fungi can vary greatly from parasitic to mutualistic in the benefit they provide to hosts , , and, in AM fungi, variation in host growth benefit is thought to derive from variation in colonization or competitive ability in host roots , , Bennett and Bever 2008. As an aggregated spatial pattern is common in arctic and alpine plant communities see and references therein , positive interactions between plants may be common as well. In this study we incorporate positive resource-mediated interactions in classic resource competition theory and investigate the main consequences for plant population dynamics and species coexistence.

Negative and positive interactions among plants: effects of competitors and litter on seedling emergence and growth of forest and grassland species

Aware of the possibility that two plants growing together may have effects benefitting both of them —leading to bi-directional facilitation or muatulism—, we addressed the interaction between two shrub species of similar size that intimately interact in semiarid environments in southeast Spain. The following four treatment combinations were applied: canopy excluded and roots excluded; canopy excluded and roots present; canopy present and roots excluded; and canopy present and roots present.

Positive and negative plant

However, virtually all types of ecological interactions have been shown to vary with changes in the abiotic environment, and a number of field

experiments indicate that positive effects become stronger as abiotic stress increases. Our understanding of arctic and alpine plant communities can be enhanced by regarding plant interactions as combinations of positive and negative components. Although only a small group of mycorrhizal fungal associates have been studied, experiments examining mycorrhizal fungal-plant-herbivore interactions have shown a wide array of results.

Positive and Negative Plant

Facilitation in plant communities, in Functional Plant Ecology eds Pugnaire, F. Water status and photochemical efficiency have a strong impact on overall plant performance so that the improved physiological status of plants living in patches can likely lead to higher fitness, as is often the case in arid zones. Dotted lines give 95% confidence intervals for complete spatial randomness resulted from 1000 randomizations of actual data.

Related Books

- Evolving explanations of development - ecological approaches to organism-environment systems
- Investigation on WAP.
- History of Northampton, 1840.
- Ignatius of Loyola - the psychology of a saint
- Bonheur est en vous