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In Chap- ter 6, Loreau moves away from a population-centred view to a nutrient-flow ecosystem model. Diversity and species are fine-tuning conversion rates through competition, but the mass-balance and energy constraints on the ecosystem as a whole also severely constrain the set of possible ecosystem configurations.

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Loreau describes the most recent theoretical advances that link the properties of individual populations to the aggregate properties of communities, and the properties of functional groups or trophic levels to the functioning of whole ecosystems, placing special emphasis on the relationship between biodiversity and ecosystem functioning. Finally, he turns his attention to the controversial ...

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Project MUSE - From Populations to Ecosystems

"Michel Loreau has bravely, and successfully, built a new unified framework that harmonizes the disparate, and often conflicting, fields of population biology, community ecology, and

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ecosystem ecology. This book provides an exciting stimulus for new efforts to test and verify the rich array of insights that he provides."

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Loreau, Michel From Populations to Ecosystems Theoretical Foundations for a New Ecological Synthesis (MPB-46)

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As a result, aggregate measures of population variability such as summed species variances, summed species covariances and population synchrony do not provide insights into the mechanisms that govern ecosystem stability, as suggested by previous work (Loreau & de Mazancourt 2008; Loreau 2010).

Biodiversity and ecosystem stability: a synthesis of ...

Loreau describes the most recent theoretical advances that link the properties of individual

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populations to the aggregate properties of communities, and the properties of functional groups or trophic levels to the functioning of whole ecosystems, placing special emphasis on the relationship between biodiversity and ecosystem functioning. Finally, he turns his attention to the controversial ...

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A general consensus from recent studies is that a higher biodiversity can enhance the temporal stability of aggregate ecosystem properties (e.g. biomass, productivity, etc.), although its effect on population stability remains controversial (reviewed in Hooper et al. 2005; Loreau 2010).

Biodiversity and ecosystem stability across scales in ...

Asynchronous fluctuations of populations are essential for maintaining stable levels of biomass and ecosystem function in landscapes. Yet, understanding the stabilization of metacommunities by ...

Michel LOREAU | Director, Centre for Biodiversity Theory ...

"Human impacts are dramatically altering our natural ecosystems. The implications of these human impacts on the sustainability and functioning of these amazingly complex entities remains uncertain. As a result, food web theory has experienced a proliferation of research that seeks to address this critical area. This book synthesizes modern and classical results into a general theory. Finally ...

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