

The Phytochemical Landscape Linking Trophic Interactions And Nutrient Dynamics Monographs In Population Biology

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The Phytochemical Landscape Linking Trophic

The phytochemical landscape, that complex spatial and temporal combination of elemental nutrients, toxins, and recalcitrant molecules, is the nexus that links trophic interactions with nutrient dynamics in ecosystems. Over ecological and evolutionary timescales, the chemistry of primary producers is both a cause and a consequence of variation in trophic interactions, including herbivory, predation, parasitism, and disease.

The Phytochemical Landscape: Linking Trophic Interactions ...

In this book, Mark Hunter provides a novel approach to linking the trophic interactions of organisms with the cycling of nutrients in ecosystems. Hunter introduces the concept of the "phytochemical landscape"—the shifting spatial and temporal mosaic of plant chemistry that serves as the nexus between trophic interactions and nutrient dynamics.

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The Phytochemical Landscape: Linking Trophic Interactions ...

The result is a series of feedback loops that link trophic interactions with the cycling of matter, mediated through the nexus of variation in autotroph chemistry on the phytochemical landscape (figure 1.1). These feedback loops represent powerful trait-mediated indirect effects (Werner and Peacor 2003) in which the chemical traits of primary producers link trophic interactions with nutrient cycling.

The Phytochemical Landscape: Linking Trophic Interactions ...

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The Phytochemical Landscape: Linking Trophic Interactions ...

Links between trophic interactions and nutrient dynamics are mediated by variation in the chemical traits of primary producers on the phytochemical landscape. Trophic interac- tions such as herbivory and predation vary with the chemical traits of autotrophs (arrow 1).

The Phytochemical Landscape: Linking Trophic Interactions ...

By focusing on variation in autotroph chemistry on the phytochemical landscape, he links studies of trophic interaction to studies of ecosystem processes in order to show how autotroph chemistry influences, and is influenced by, nutrient dynamics at the ecosystem scale.

The Phytochemical Landscape: Linking Trophic Interactions ...

PDF | On Jun 1, 2018, Lee A. Dyer published The Phytochemical Landscape: Linking Trophic Interactions and Nutrient Dynamics . Monographs in Population Biology, Volume 56. By Mark D. Hunter.

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The Phytochemical Landscape: Linking Trophic Interactions ...

The Phytochemical Landscape: Linking Trophic Interactions and Nutrient Dynamics Mark D. Hunter. The dazzling variation in plant chemistry is a primary mediator of trophic interactions, including herbivory, predation, parasitism, and disease. At the same time, such interactions feed back to influence spatial and temporal variation...

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Because the phytochemical landscape is both a cause and a consequence of variation in trophic interactions and nutrient dynamics, it serves as the nexus through which powerful feedback loops link population and ecosystem processes.

Mark D. Hunter, Henry A. Gleason Collegiate Professor of ...

In this book, Mark Hunter provides a novel approach to linking the trophic interactions of organisms with the cycling of nutrients in ecosystems. Hunter introduces the concept of the "phytochemical landscape"—the shifting spatial and temporal mosaic of plant chemistry that serves as the nexus between trophic interactions and nutrient dynamics.

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Mark Hunter (University of Michigan) will present "The Phytochemical Landscape: Linking Trophic Interactions and Nutrient Dynamics in Ecological Systems".