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Soil Fauna: Extraction and Identification

Lecture 10: Soil Fauna In Search of Soil #1 -

Dr. Elaine Ingham Bioturbation with and without soil fauna ~~Healing Your Body With Food: The Movie ~ Spirit Science 33~~

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Karlen et al. (1997), soil quality describes the capacity of a soil to sustain plant and animal productivity, to maintain or enhance water and air quality, and to support human health.

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To overcome the limitation, we designed a novel index using the diversity of the soil faunal community along with its functional traits, and the abundance of its members (Abundance-based Fauna Index, referred as FAI). The FAI method supports both the

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presence/absence data and its abundance.

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a measure of how well the soil fauna adapt to the particular soil. When applied to stable agricultural ? elds, such as maize fertilized by sewage sludge and farm yard manure, the QBS index generated

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Shaokui Yan a, b, A.N. Singh c, Shenglei Fu

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d, Chonghui Liao e, Silong Wang a, b, *, Yuanliang Li a, b, Yang Cui a, b, Lile Hu f a

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Another index that could be applied to soil fauna communities is the V index , which expresses the magnitude of the response to tillage. The V index was calculated as: $V = 2 \frac{M C T M C T + M N T}{? 1 E2}$

~~Soil Fauna Diversity — Function, Soil Degradation ...~~

Soil Fauna Diversity - Function, Soil

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Degradation, Biological Indices, Soil Restoration 63 that prevent survival outside of the soil environment due to their lacking protection from desiccation and temperature fluctuations, as well as the sensory organs necessary to survive above ground by finding food and avoiding predators.

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Wanting to be an accessible primer, Soil Fauna Assemblages is a high level overview of current knowledge rather than a detailed tome of all existing information, with emphasis being placed on key findings and general patterns.

~~Soil Fauna Assemblages: Global to Local~~

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~~Scales | NHBS ...~~

Role of Fauna in Soil Ecosystem Structure and Function. Soil fauna plays a central role in three key ecological functions of soil ecosystems, specifically: (1) organic matter mineralization and dynamics; (2) support and regulation of primary production; and (3) development and maintenance of soil structure (Verhoef, 2004).

~~Soil Fauna - an overview | ScienceDirect~~

~~Topics~~

Soil biology is the study of microbial and faunal activity and ecology in soil. Soil

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life, soil biota, soil fauna, or edaphon is a collective term that encompasses all organisms that spend a significant portion of their life cycle within a soil profile, or at the soil-litter interface. These organisms include earthworms, nematodes, protozoa, fungi, bacteria, different arthropods, as well as some reptiles, and species of burrowing mammals like gophers, moles and prairie dogs. Soil biology plays a

~~Soil biology — Wikipedia~~

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functional trait. According to Karlen et al. (1997), soil quality describes the capacity of a soil to sustain plant and animal productivity, to maintain or enhance water and air quality, and to support human health. A soil fauna index for assessing soil quality ...

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For simplicity, a general index of biological activity can be measured using soil fauna feeding activity alone (rather than attempting to measure decomposition by all the component organisms in the system). To

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measure soil fauna activity as a function of decomposition, the bait lamina assay was developed by Von Törne.

~~Factors Affecting Soil Fauna Feeding Activity in a ...~~

index for assessing soil quality - ScienceDirect A soil fauna index for assessing soil quality Article (PDF Available) in Soil Biology and Biochemistry 47 · December 2011 with 573 Reads How we measure 'reads' (PDF) A soil fauna index for assessing soil quality Another index that could be applied to soil fauna communities is

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the V index , which ...

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Departamento de Ecología y Biología Animal,
Universidad de Vigo, Vigo, Spain. Soil fauna
is crucial to soil formation, litter
decomposition, nutrient cycling, biotic
regulation, and for promoting plant growth.
Yet soil organisms remain underrepresented in
soil processes and in existing modeling
exercises. This is a consequence of assuming
that much of the below-ground diversity is
just ecologically “redundant” and that soil
food webs exhibit a higher degree of

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omnivory.

~~Frontiers | The Serendipitous Value of Soil Fauna in ...~~

Earthworms often form a major part of the soil fauna biomass and can represent up to 50% of the soil fauna biomass in some temperate grasslands, and up to 60% in some temperate forests. High levels of biodiversity, particularly at the microbial scale accompany the huge numbers of soil organisms. 104 bacterial species g⁻¹ soil is not an extreme ...

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Soil mesofauna feed on a wide range of materials including other soil animals, microorganisms, animal material, live or decaying plant material, fungi, algae, lichen, spores, and pollen. Species that feed on decaying plant material open drainage and aeration channels in the soil by removing roots.

~~Soil mesofauna — Wikipedia~~

Comparison of observed abundance (individuals (ind.) per gram dry litter), richness (orders

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per gram dry litter), and the Shannon-Wiener diversity index of soil fauna in litter mixture treatments...

~~(PDF) Interaction of decomposing litter and soil fauna of ...~~

The resident soil micro- and mesoorganisms could be classified in the flora and the fauna. Soil flora includes bacteria, fungi and algae and tends to be more static. The fauna on the other hand tend to move about once the food source is exhausted. Fauna includes protozoa, nematodes, Collembola and acarids.

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