



Mikrobiologie von Böden: Biodiversität, Ökophysiologie und Metagenomik (Springer- Lehrbuch) (German Edition)

Johannes C.G. Ottow

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Böden sind voll mit Leben.

Dichte und Artenvielfalt an Organismen sind in Böden riesengroß. Dabei sind die meisten Prokaryoten (Bacteria, Archaea), Echten Pilze (Fungi) und Protozoen noch unbekannt und bisher nicht kultivierbar. Sie bilden ein enormes genetisches Reservoir für neue industrielle, vor allem pharmazeutische, Produkte.

Ein regelmäßiger horizontaler Gen-Austausch findet mittels Transformation, Konjugation und Transduktion in den Böden statt. Diese Prozesse sichern die genetische Variabilität von Prokaryoten.

Die Kommunikation zwischen Bakterien und Pilzen in Biofilmen und Kolonien erfolgt mittels bestimmter Botenstoffe (quorum sensing), wobei diese Zell-Zell-Kommunikation über Art- und Gattungsgrenzen hinweg funktioniert („mikrobielles Esperanto“).

Die Wurzeln von Pflanzen sind mit Bakterien und Pilzen dicht besiedelt, deren Aktivitäten für das Pflanzenwachstum außerordentlich wichtig sind.

Tauchen Sie ein in die spannende Welt zu Ihren Füßen.

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