
From: [REDACTED]
Sent: Monday, June 19, 2017 10:35 PM
To: Jeffrey Epstein
Subject: is rhizosphere the (gut) microbiome for plants

The rhizosphere is the narrow region of soil <https://en.wikipedia.org/wiki/Soil> that is directly influenced by root secretions and associated soil microorganisms <https://en.wikipedia.org/wiki/Microorganism>. [2] The rhizosphere contains many Bacteria <https://en.wikipedia.org/wiki/Bacteria> and microorganisms that feed on sloughed-off plant cells, termed rhizodeposition, [3] <https://en.wikipedia.org/w/index.php?title=Rhizosphere&oldid=733333333> and the proteins and sugars released by roots. This symbiosis leads to more complex interactions, influencing plant growth and competition for resources. Much of the nutrient cycling https://en.wikipedia.org/wiki/Nutrient_cycle and disease suppression needed by plants occurs immediately adjacent to roots due to root exudants and communities of microorganisms. [4] The rhizosphere also provides space to produce allelochemicals to control neighbors and relatives. <https://en.wikipedia.org/wiki/Allelopathy> [5] <https://en.wikipedia.org/w/index.php?title=Rhizosphere&oldid=733333333> The plant-soil feedback loop and other physical factors are important selective pressures for the communities and growth in the rhizosphere.

<https://en.wikipedia.org/wiki/Rhizosphere> <<https://en.wikipedia.org/wiki/Rhizosphere>>