



SOIL
MICROBIOME

Soil microbiome?

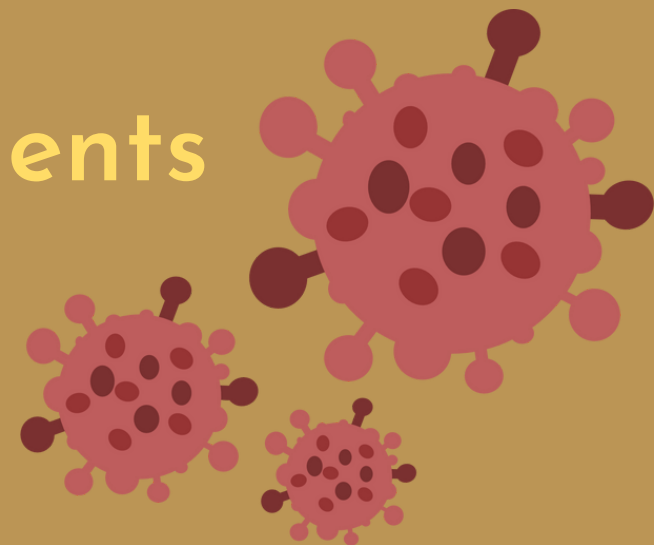
Yes! Just like humans, plants also need microbes for their digestion.

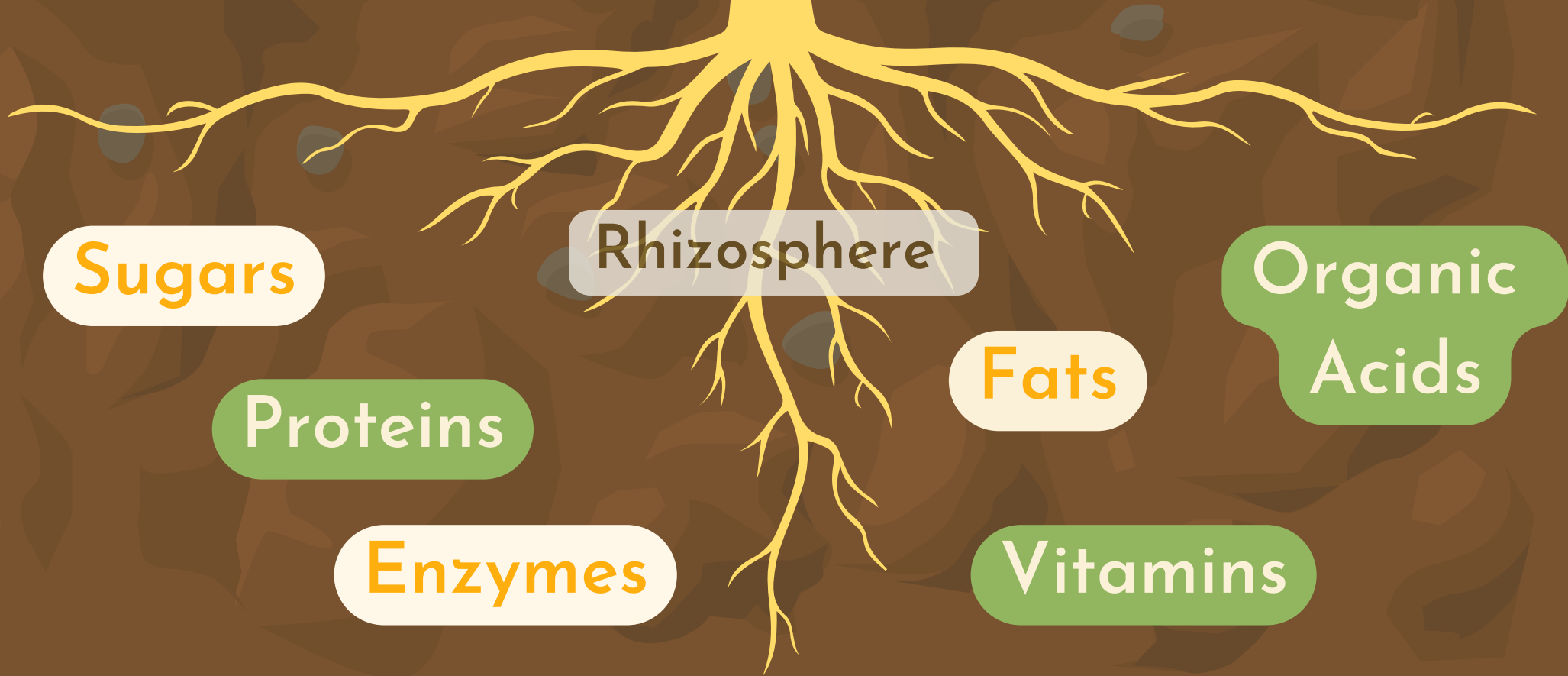
Except they do it outside of their body... **in the soil!**



Functions of Soil Microbiome

- **Unlock minerals** held in rocks and organic matter - particularly P, Fe and Zn.
- **Provide nutrients** and metabolites
- **Immune system** - underground defense signals
- Help plants to **share nutrients**

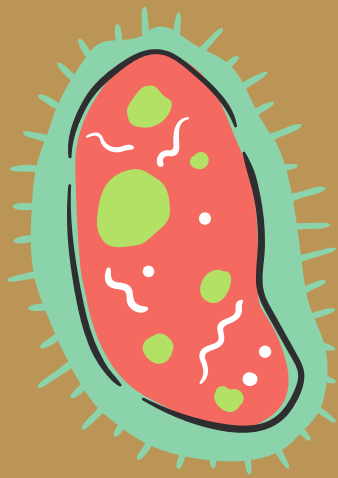




Plant exudates are nutritious meals for microbes excreted by the roots.

Exudates attract in the **rhizosphere** communities of microbes which in return will provide nutrients and metabolites for plant **growth and defense**.

1



Microorganisms make nutrients available

Nutrients are absorbed by plants

Ca

Zn

Mg

2



3

Animals consume nutrient-dense food



4



Humans consume nutrient-dense food

Conventional Agriculture

- Broad-spectrum chemical biocides
- Breeding crops for yields not nutrition
- Tilling and turning soil
- Soil exposure and erosion



Disrupting microbial and fungi relationships in soil affects micronutrient delivery to crops and consequently to animals and humans

Regenerative Agriculture

- Minimal or no usage of chemicals
- Planting resistant genetics
- Minimal physical disturbance
- Soil cover
- Cover crops
- Diverse crop rotations
- Organic fertilization
- Animal integration



Promoting regenerative practices enhances the biology, microbiology, diversity, nutrient and water levels in soils

We are on a mission to
spread awareness amongst
health professionals
about the connection
between **soil - human health**

Join us in our mission!



Coalition of Health Professionals
for Regenerative Agriculture