

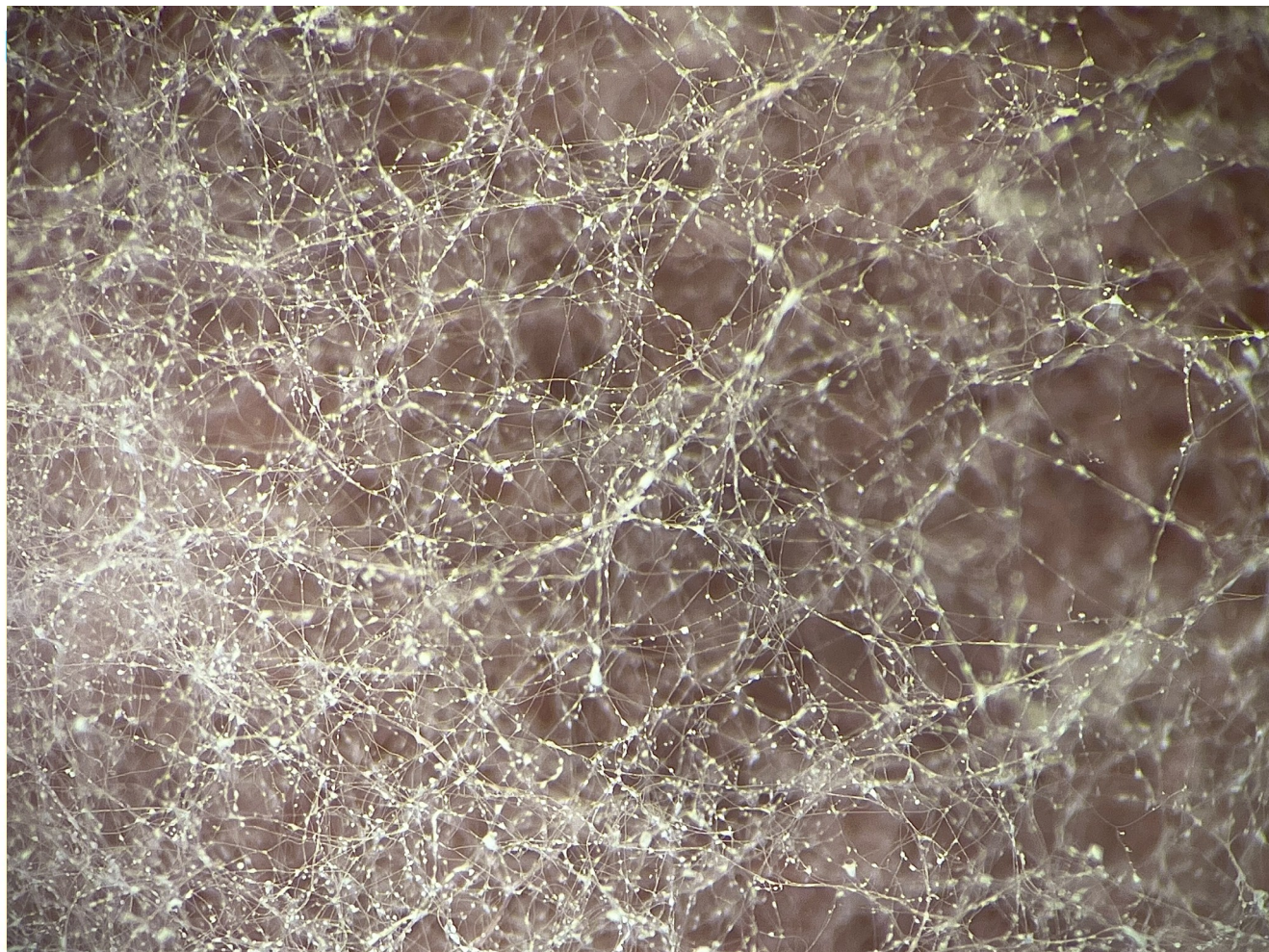


Photo Courtesy of Abigail Granath

V2. 7/2026

Project Goal:

To evaluate the ability of fungi to remove mixed heavy metals from the environment.

Principal Finding:

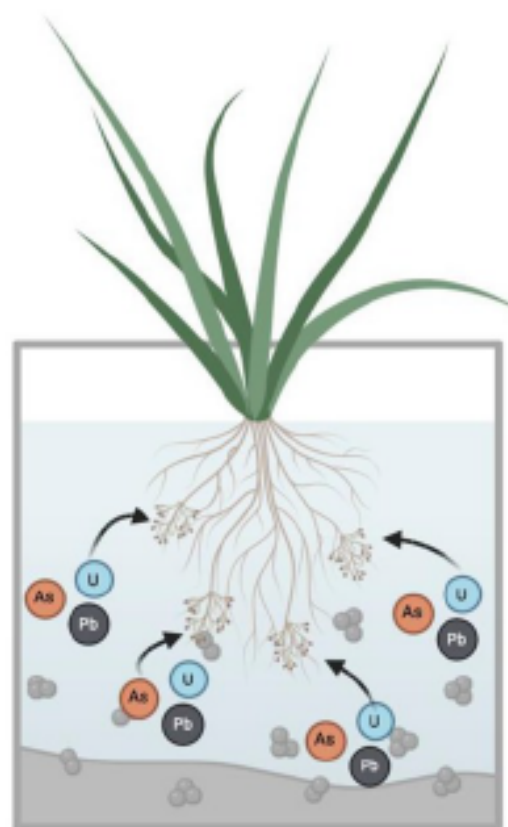
Some fungi found in plant roots are capable of removing lead and cadmium, but not very capable of removing arsenic.

What does this mean for your community?

These findings could help the land heal by removing mixed heavy metals from the soil using native plants and their fungal partners.

How to cite this research:

Granath A, Moreira G, Ali A, Cerrato J, Rudgers J. A Microplate Method to Monitor Fungal Growth and Heavy Metal Removal Efficiency. In revision, 2026. *Environmental Microbiology Reports*.





Artwork by: Dwight Honyouti (Hopi)

V1. 7/2026

Project Goal:

To evaluate how fungi can help sunflowers remove more uranium and other mixed heavy metals from the soil.

Expected Outcome:

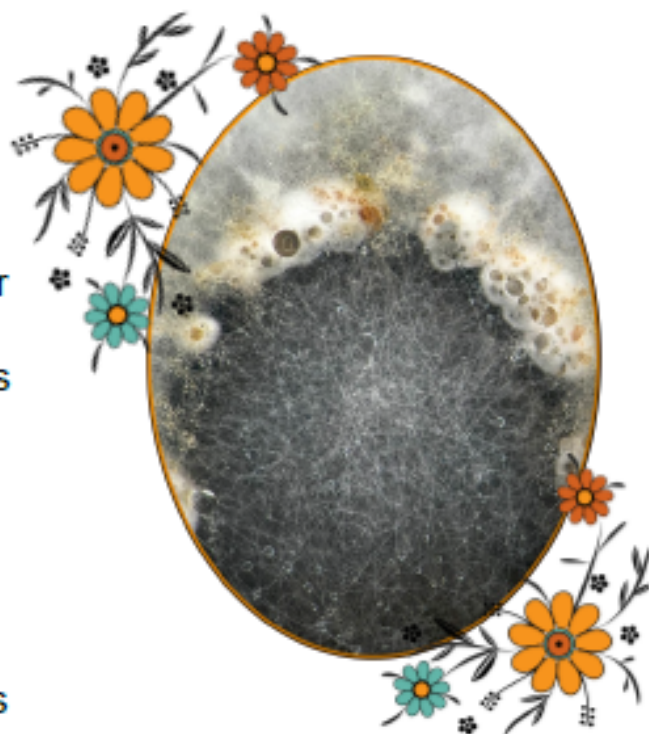
When there are fungi living inside sunflower roots, the sunflowers will be better at removing mixed heavy metals from the soils and storing them in the roots and shoots.

What does this mean for your community?

These findings could help the land heal by removing uranium and other mixed heavy metals from the soil using native sunflowers and their fungal partners.

How to cite this research:

Granath A, Moreira G, Velez L, Cerrato J, Rudgers J. Symbioremediation: Utilizing Plant-Fungal Symbioses to Maximize Bioremediation Potential. In progress, 2026.



Art By Mallery Quetawki (Zuni). Photo Courtesy of Abigail Granath