

Hyphens

A hyphae is a single filamentous structure of a fungus. They collectively build the mycelium. The mycelium is the network fungi is building underneath the surface. It communicates through it. This mostly works through energetic impulses which vibrate along all the single hyphens. The mycelium network contains a billion and more single hyphen.

They communicate lots of informations, as for, where to spread next because maybe the nutrition at some location is better than somewhere else. These informations can be made visible/audible for humans through the expressing of sound. In this project I tried to imagine how it must sound when mycelium is sending signals. Because there is a network of more than a billion hyphae in one inch of a square centimeter i imagined a big diversity of sound impulses. Most of them start at a low frequency point and are more quiet. While time is passing the impuls increases and ends in an echo while slowly merging with a new impuls structure which now takes over the old one. These are the signals which communicate the normal needs of the fungus. As impulses are more important such as when the fungus ist stressed and is not getting enough humidity or air the sound impuls is starting loud and urgent. This experiment is also testing how different the listening is when the sound gets send though mycelium. It changes the outcome of how the sound is heard.

ongoing project



winterwerkschau 02-04.02.2024



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08.01.2024



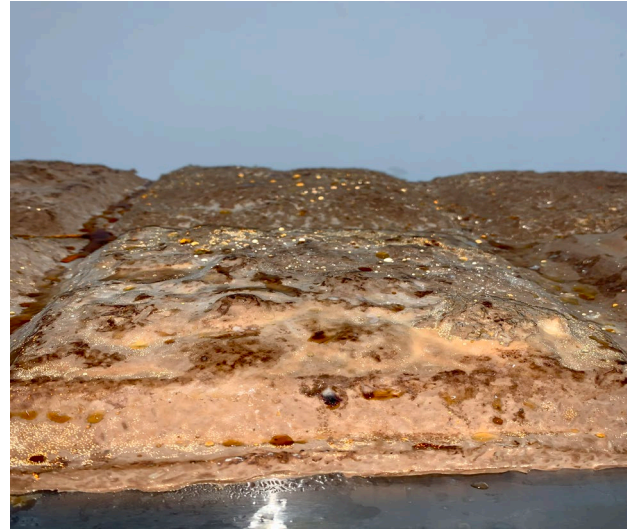
08.01.2024



16.01.2024



22.01.2024



22.01.2024

I learned how to create agar-agar cultures in jars. Then cultivating them with fomes formendarius (01.12.2023) and letting it grow for one week.

One and a half weeks later it was time to cultivate the fomes in a bigger more nutritious space (08.12.2023). I cooked rice, pressure-cooked it and then cultivated square pieces of my agar-agar jars into the rice.

After two weeks the rice was fully blooming in white fomes formendarius spores and it was time to resettle them into an even bigger space and into the final form and structure of spores (bran/hemp) within the mycelium can grow. Mixed gran, hemp, gypsum and the rice into filterbags and letting the fomes cultivating it (20.12.2023).

After two weeks the before brownish bags are shining white and the fomes is ready for the shaping of its final form. First breaking the grown fomes into tiny pieces and then planting them into new forms (08.01.2023).

After one week the forms are fully cultivated and ready to grow on their own.

(16.01.2023) Releasing them from the form, connecting all of the six mycelium bricks and letting them grow together. After one week of growing, letting it dry out to preserve.