Mycelium from Basidiomycetes as a building material

Project leader: Prof. Dr. techn. Heike Frühwirth

Duration: 2023 –

Project description: Fungi, especially Basidiomycetes, have exciting properties for biotechnology. For example, they can metabolize by-products of the food and agricultural industries. If the mycelium of these fungi is cultivated in a fixed-bed culture, substances that are difficult to degrade, such as wood, can be metabolized. The fungus, therefore, breaks down these substances and grows in cavities in the substrate. The result is a composite material consisting of fungus and substrate. This composite material has properties that make it a possible future building material. We are producing sustainable bio-based building materials from industrial waste in this project.

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