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Sound for Fungi. Homage to Indeterminacy

Bio-Sound,
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Mind the Fungi

KEYWORDS

Biography

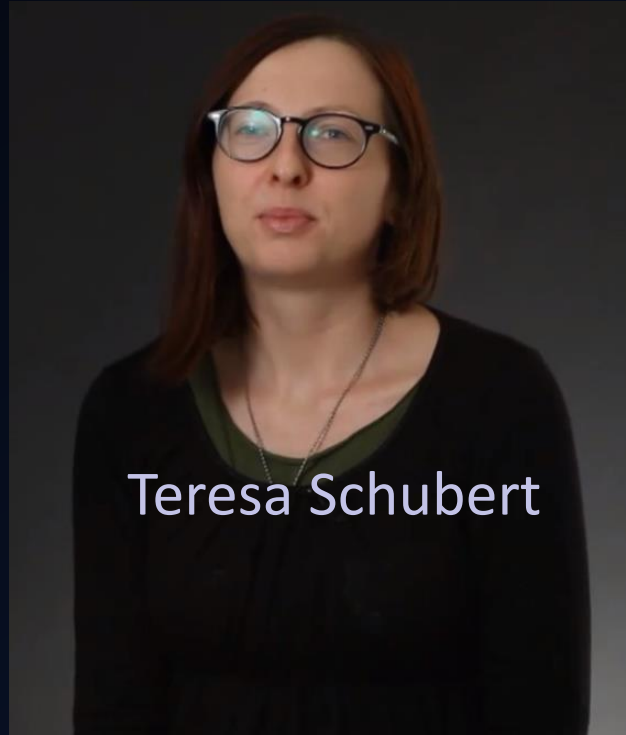
- **Theresa Schubert (DE)** is a Berlin-based artist exploring unconventional visions of nature, technology, and the self. Her work combines audiovisual and biomedica to conceptual and immersive installations or performances. By means of interdisciplinary methods such as biohacking, theoretical analysis, performative interpretation, and material experimentation, her works question the relation of humans to their environment and evolvement of matter and meaning beyond the Anthropos.
- More recently, she works with UHD video environments and 3D Laser Scanning to challenge modes of perception and question the human-machine-nature relationship in hypertech societies.



Inside an Inside Forest

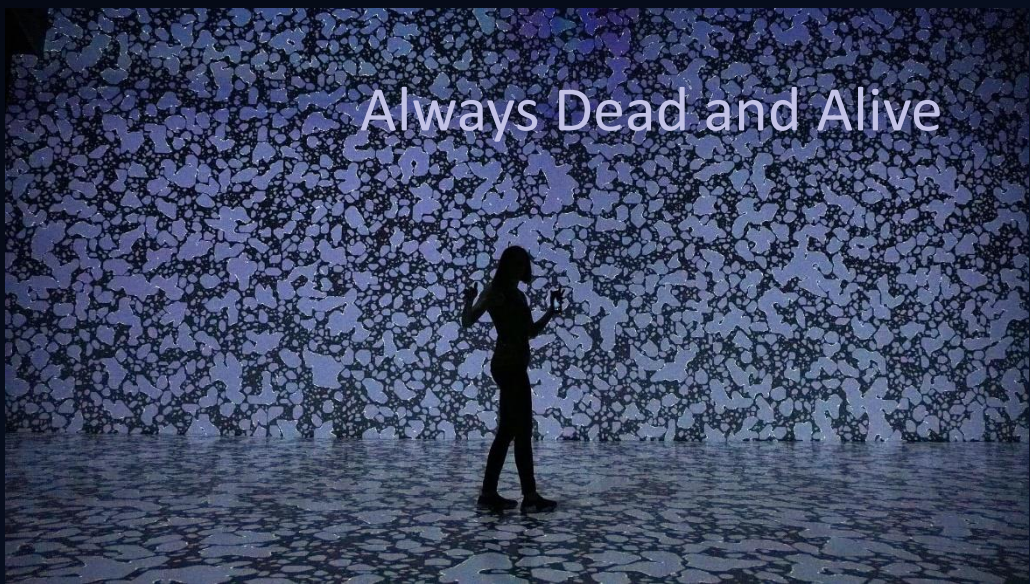


milieu #01-04



Teresa Schubert

Related Works



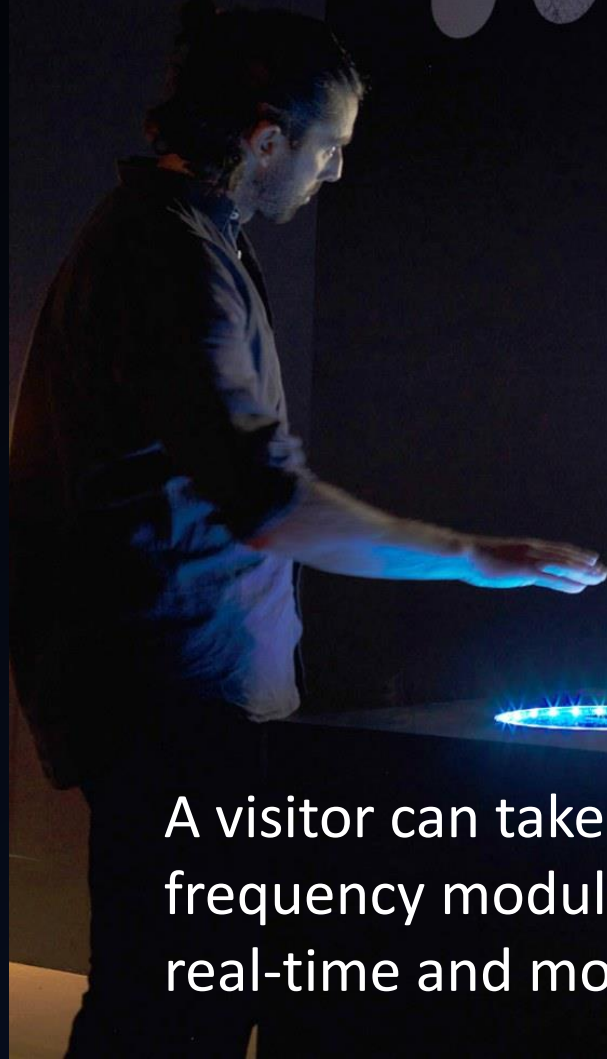
Always Dead and Alive



bodymetries

Sound for Fungi. Homage to Indeterminacy

A generative video that simulates hyphae's growth and via a hand tracking sensor allows people to interact with these.



A visitor can take on the role of a sound frequency modulating the hyphae growth in real-time and move through the network.

Schubert's experiment where sound influenced mycelium growth.



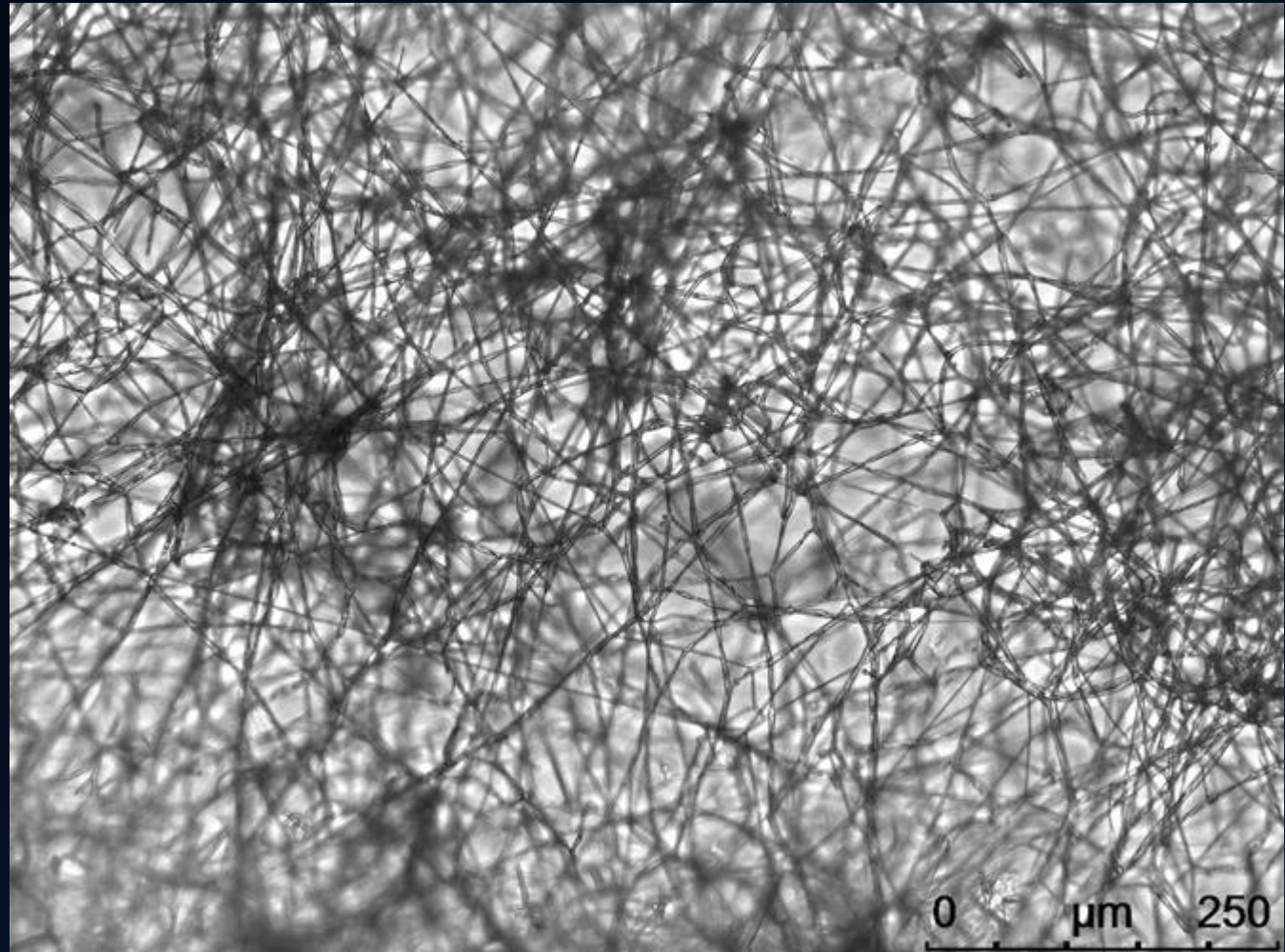
110 Hertz, 220 Hertz and 440 Hertz



Audiences can explore this biological process by using a tracking sensor where hand movements simulate the role of a sound frequency and change the fungi's growth in realtime.



The digital 3D environment shifts between macro and cellular level perspectives, revealing fragile topologies comprised of multiple nodes and connections, offering a glimpse into the complexity of the underground network of microbes that connect the 'Wood Wide Web.'



Summary

標題引用了美國音樂作曲家約翰·凱奇 (John Cage) 將“不確定性”作為一種即興創作技巧的發展，在這種技巧中，作品的各個方面都留給機會或自由選擇。另一個參考是 Anna Tsing 和真菌學家 Alan Ryner 的工作，他們將蘑菇與這種不確定性的概念聯繫起來，因為它們會改變形狀。一些真菌在不同的生命週期中不斷擴張和生長，因此從理論上講，它們是不朽的。

即興創作——與其說是一種音樂過程，不如說是一種自然的生活現象——代表了一種存在本身。這種無意識的狀態使自發性和湧現成為可能，並且一直是貫穿舒伯特藝術實踐的指導原則。通過在這項工作中允許真菌數據的許多途徑和體驗，舒伯特將相同的開放式代碼應用於觀眾參與——促進了一種跨物種體驗，當遊客在與此互動時帶來平靜和耐心時，這種體驗效果最佳。

John Cage Performing 4'33"

Cage offered some intriguing insights when asked afterwards about the event: 'They missed the point. There's no such thing as silence. What they thought was silence, because they didn't know how to listen, was full of accidental sounds. You could hear the wind stirring outside during the first movement. During the second, raindrops began patterning the roof, and during the third the people themselves made all kinds of interesting sounds as they talked or walked out.'

Rollei 35 S
40mm f/2.8 Sonnar
0 sec. @ f/inf.
Kodachrome 64

<https://www.youtube.com/watch?v=JTEFKFiXSx4>

My only concert photo, this is an environmental portrait of composer/performer John Cage playing his own composition, 4'33", on the piano

Fungi soundscape - antonio hofmeister ribeiro

Inspired by the unfamiliar shapes found in all kinds of fungi growing in nature, the autonomous algorithm transforms their images into music, resulting in an eery and uncanny composition that goes on indefinitely.

The algorithm randomly selects images of fungus captured all across the world by researchers, then extracts the form, or growing pattern, using computer vision. This pattern is then fed into a bit matrix. This bits are then consumed *in tempo* by the sequencer and transformed into audible data.

<https://antoniohof.com/Fungi-soundscape>