

IN PROCESS 002

Project: Synthrophy
Developed within:

Art Meets Science: Circular Bioengineering and
Sustainability in Dialogue

Academy of Fine Arts Vienna × BOKU University

On Display:

20.5.2026 - 31.5.2026

Group exhibition, *BOKU Future Conference*,
Simmelweisklinik.

This immersive audiovisual installation explores the interior of a yeast cell, transforming microscopic biochemical reactions into an inhabitable sensory environment. Visitors enter the installation as if entering the cell itself, experiencing its internal processes through light, pattern, and sound.

Metabolic reactions change in response to different “foods” supplied to the yeast and to specific gene modifications, following parameters aligned with ongoing research at BOKU. These shifts influence how reactions unfold, from energy production to metabolic pathways, and are translated into evolving visual and sonic structures.

Each reaction inside the cell is expressed as a distinct combination of color, pattern, and sound, creating a dynamic, responsive landscape that reflects the living complexity of cellular activity. Built in TouchDesigner, the installation renders invisible biological processes tangible, inviting visitors to sense how small molecular changes can reshape an entire system from within.



AI-Generated mock-up of the installation