



## KojiGotchi fosters a natural symbiosis between you and koji.

Ideas for a greener future often depend on changing how humans interact with microorganisms and the natural world. However, these visions can feel far removed from everyday life and may seem impossible to achieve.

KojiGotchi is designed to help people explore how humans and microbes can coexist. By interacting directly with living organisms, users experience biodesign in a hands-on and approachable way. Inspired by the Tamagotchi, the project utilizes a familiar framework to introduce the concept of a 'living future' and encourage a new kind of care for the microbial world.

KojiGotchi was conceived for the Biodesign Challenge 2025 by an interdisciplinary team from DTU – Technical University of Denmark and the Royal Danish Academy: Rasmus Emil Toftthøj, Tania Safa, Taylor Rayne, and Maxim Veli (host of the Solar Punk Manifesto podcast).

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Solarpunk Manifesto Podcast:  
[linktr.ee/solarpunk\\_manifesto](https://linktr.ee/solarpunk_manifesto)

# Koji Gotchi

a new kind of  
care for the  
microbial world



Koji mold, or *Aspergillus oryzae*, is a fungus traditionally used to ferment foods such as miso and sake. Inspired by the iconic Tamagotchi, the KojiGotchi replaces the care of a digital pet by nurturing living microbes. The device is powered by body heat to create an ideal environment for the mold to thrive.

KojiGotchi serves as a test-drive for what living wearables could be, whereas accessories are not only smart, but also living. From garments that repair themselves with biomaterials to devices that respond to the rhythms of the microbiome, KojiGotchi provides a tangible way to engage with this concept of an intimate, **co-existent future**.