

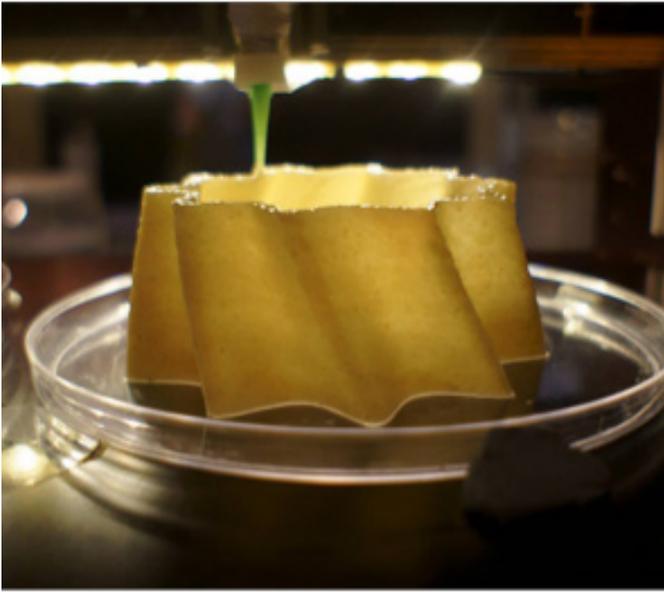


open wetlab  
waag society

open  
wetlab  
workshops

# Bioprinting

*3D printing with living organisms*



3D printing allows you to transform digital designed objects into physical objects. By modifying a conventional plastic printer into a bioprinter, a whole new range of materials can be used. Glucose scaffolds or even bacterial and fungi mediums. Your designs will finally truly come to life!

During the workshop we will adapt an Ultimaker 3D printer into a syringe extruder printer, allowing you to print liquids (containing living microbes) in 3 dimensions. We will try out several mediums, for the participants to get an understanding of the required viscosity and material properties.

**Duration:**

1 day

**Subjects:**

3D printing  
Sketchup 3D modelling  
OpenSCAD 3D modelling  
Biomaterials  
Fluid dynamics  
Open Source Hardware

All Open Wetlab workshops consist of an introduction into the subject and it's making, a concise biosafety training, the making itself an optional artists presentation and a dialogue with the participants about the theme and background of the workshop.

More information can be obtained by contacting [wetlab@waag.org](mailto:wetlab@waag.org) and at [waag.org/openwetlab](http://waag.org/openwetlab)

**Booking:** Open Wetlab Workshops can be booked by contacting [diensten@waag.org](mailto:diensten@waag.org)

*Pictures by Maurizio Montalti and Chiara Scarpitti*