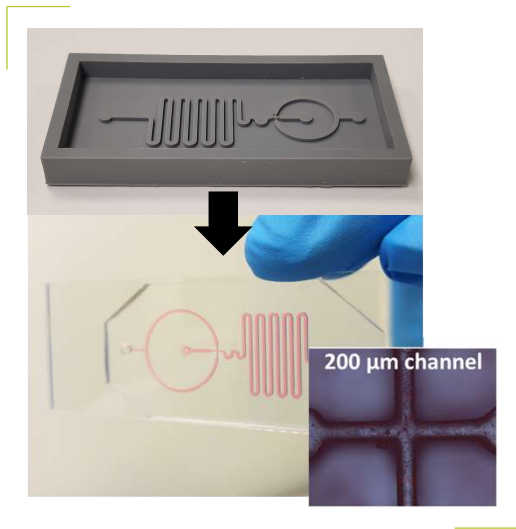
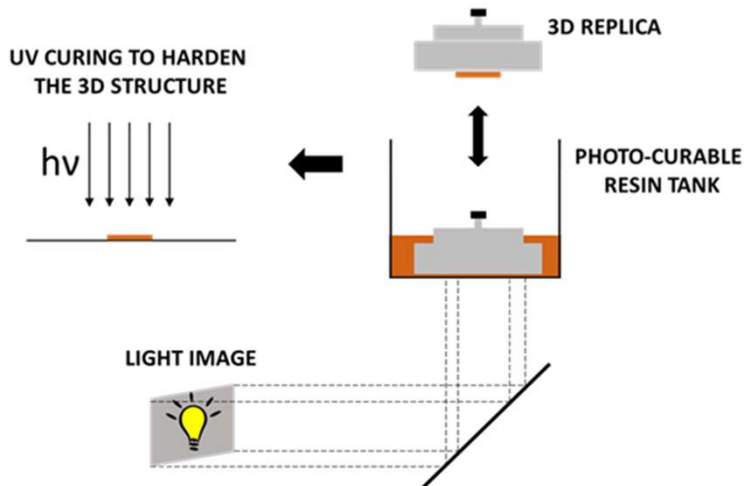


# 3D Printing

With two DLP 3D printers, the MicroFabSpace gives access to the fabrication of polymer 3D structures with submillimetre resolution. These printers are mostly indicated for fast prototyping of microfluidic devices (with resolution down to 100-150µm) and the fabrication of polymer pieces as fluidic cells, small frames, accessories, tools, etc.

**In a 3D printing process:**

a high-definition light projector shines a XY image at a resin tank, curing a certain layer thickness of the resin on a platform that moves in Z direction. After the 3D structure is built, a post curing process is usually required to harden the piece for its further application.



3D master for microfluidic fast prototyping.

The upper image shows the master and the lower image shows the PDMS replica bonded to a glass slide, conforming a chip of 200 µm smallest section.

**3D printed structures:**

- Inverted structures, T-structure
- Pyramids
- Round channels
- 2 Thick layers structures

