# **Creating 3D Printed Molds for Sylgard 184**

# Step 1:

3D print mold design on the Object 30 Pro printer in the microfluidics lab using RGD 450 filament and the glossy setting.

# Step 2:

Remove molds from printer, clean print heads and clean away all support material.

# Step 3:

Heat treat the parts at 60°C for 4 hours.

# Step 4:

Remove parts from heater and let cool, then prepare Silgard 184 mixture.

## Step 5:

Pour Sylgard 184 mixture into molds and remove air bubbles using the vacuum degasser as required.

## Step 6:

Place filled mold in heater and let cure at 60°C for 6 hours.

## Step 7:

Remove cured mold from heater and remove part from mold

## Reminders:

Do not use equipment that you are not competent with.

Molds should be designed to be liquid tight and have methods to separate the sides post-curing.