

IC-Organoid-Chip Application Note – Supplement to IC-CHIP Application Note

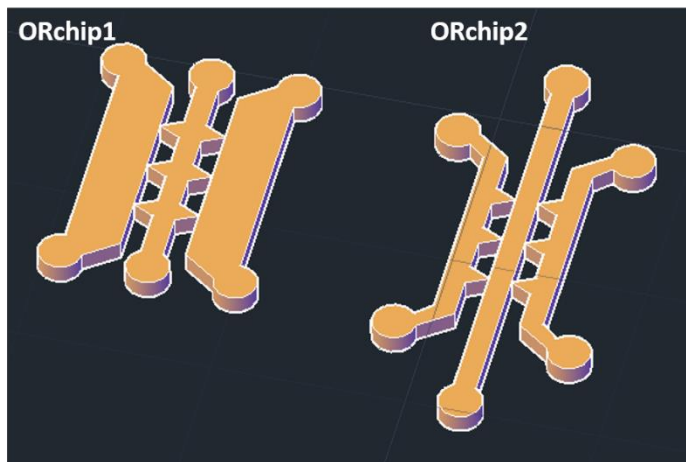
A micropipet P20 or P100 with appropriate tips is needed. No need for pumps. (Do not use P200 as it can apply excessive force). Please watch the videos below before using the chips.

"IC chip loading 1." <https://www.youtube.com/watch?v=562Mt2KiNuI>

"IC chip loading 2." <https://www.youtube.com/watch?v=CtiflWERw0>

"IC chip loading 3." <https://www.youtube.com/watch?v=6lsTIEDsO0g>

"IC chip visual protocol." from <https://www.youtube.com/watch?v=8d2e-KpHZNQ&t=10s>



ORchip1 volumes of channels:

Left and right 42 microliters (to be filled with medium)

Middle 25 microliters (to be filled with cells mixed with matrigel)

ORchip2 volumes of channels

Left and right 25 microliters (to be filled with cells mixed with matrigel)

Middle 31 microliters (to be filled with medium)

Protocol Overview:

Prepare cells mixed with matrigel for organoid generation.

Load cell-laden matrigel into the middle channel of ORchip1 or the left and right channels of ORchip2.

Keep in CO₂ incubator for 30 – 45 minutes for gel polymerization.

Load culture medium to the left and right channels of ORchip1 or the middle channel of ORchip2.

Follow the IC-CHIP APPLICATION NOTE for further details.