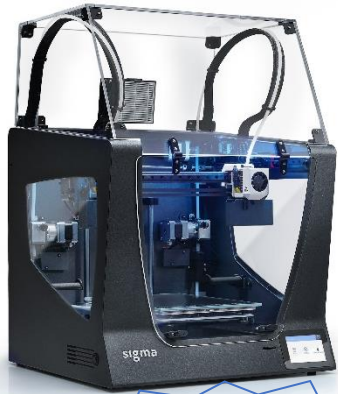


Bioresearch Support Core**BCN3D Sigma R19 3D Printer****New in CPOS**

3D printing is an emerging technique applied in various research fields. Coupled with a 0.4mm nozzle, high-resolution printing stage and flexible choice of filaments, this 3D printer enables rapid production of customised labware. Examples include simple mechanical adaptors to sophisticated device such as zebrafish embryo entrapment chambers. With BCN3D Sigma R19 3D Printer, you can conveniently tailor-make your own labware that is not commercially available.

Examples

3D Printed Mold → PDMS Negative → Agarose Wells → Cell Seeding



▲ Self-assembled agarose cell seeding wells¹ ▲

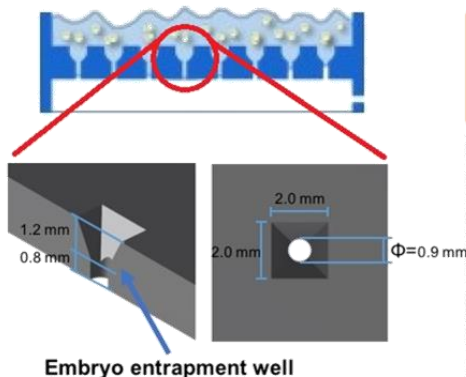
Teaching aids² ▶



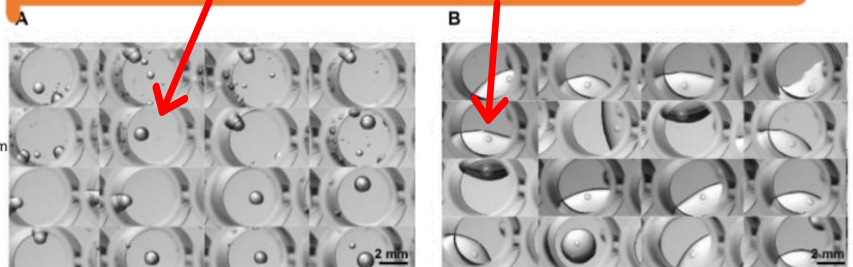
iPhone adaptor for microscope³ ▶



◀ Zebrafish embryo entrapment chamber⁴ ▼
(A) Using chamber vs (B) Manually



Embryo entrapment well

**Reference**

¹ Strobel, H. A., et al. (2018). Fabrication of Custom Agarose Wells for Cell Seeding and Tissue Ring Self-assembly Using 3D-Printed Molds. *Journal of Visualized Experiments*, 134. <https://doi.org/10.3791/56618>; ² Double helix challenge by chyllid. (2010). Thingiverse. <https://www.thingiverse.com/thing:4659>; ³ iPhone XR adapter for Omax microscope. by Sergey_77. (2021). Thingiverse. <https://www.thingiverse.com/thing:5136958>; ⁴ Yu, T., et al. (2018). A 3-dimensional (3D)-printed Template for High Throughput Zebrafish Embryo Arraying. *Journal of Visualized Experiments*, 136. <https://doi.org/10.3791/57892>