

Regenova facilitate the progress of regenerative medicine field.

CYFUSE PIPELINE 01

Bone cartilage repair.

Patients who need to regenerate osteochondral due to osteoarthritis of the knee, etc.

"Cell-made osteochondral (scaffold free)" transplanted to the injured part differentiates into bone and cartilage and regenerates both tissues at the same time.



CYFUSE PIPELINE 02

Vascular repair.

For dialysis patients who need an artificial blood vessel.

Reducing the risk and burden of infectious diseases by transplanted "small-diameter cell blood vessels" instead of artificial blood vessels.



CYFUSE PIPELINE 03

Nerve repair.

Patients who need to recover limb function due to peripheral nerve injury, etc.

Transplanted to "cellular nerve conduit", peripheral nerves are re-generated, and sensory nerves and motor nerves are improved.



regenova® Specifications

Product name	Bio 3D Printer regenova®
Weight	Total 450kg (Main body unit 430kg)
Components	Main body unit (W1340×D825×H1740mm) Controller (W236×D272×H121mm) Compressor (W300×D382×H334mm) 3D design software
Power	1.5kw (Main body unit 1.1kw)
Operating Voltage	AC 100V
Spheroid size	diameter approx 400-600µm



Cyfuse Biomedical K.K. www.cyfusebio.com / info@cyfusebm.com



ICN Bldg. 5A, 2-27-17,
Hongo, Bunkyo-ku, Tokyo,
113-0033, JAPAN
tel. +81-3-4455-7872



University of Tokyo Entrepreneur Plaza,
7-3-1 Hongo, Bunkyo-ku, Tokyo,
113-0033, JAPAN
tel. +81-3-4455-7872



Room 301, Kyushu University Collaborative Station II,
3-1-1 Maidashi Higashi-ku, Fukuoka,
812-8582, JAPAN
tel. +81-92-642-4556

www.cyfusebio.com



Bio 3D printer for fabrication of 3D cell product





Regenova is a Bio 3D printer that produces 3D cell products such as human cultured tissues and regenerated organs from cells only by three-dimensionally stacking spheroids. This unique 3D printing technology will bring new outcome to the field of regenerative medicine.

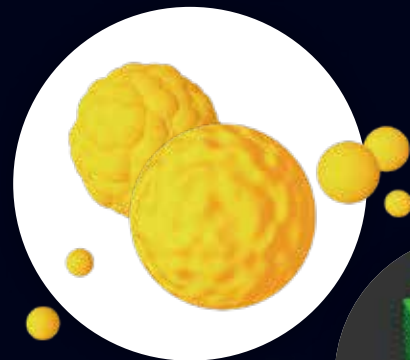


Platform technology for 3D stacking of cells only (Scaffold free).
“KENZAN” method.

Bio 3D printing.

3D culture

Spheroid preparation.



3D data of organ and tissue.



9×9 Needle Array 9×9 Tubular Construct 26×26 Needle Array

