



CIRMM

S. TAKEUCHILAB

[Biohybrid Systems]

Centre for International Research on Integrative Biomedical Systems

http://www.hybrid.iis.u-tokyo.ac.jp

MEMS / Bionanotechnology / Tissue engineering

Mechano-Infomatics Dept. ISI



Science X ART

Visualization of science through art.

To make progress in science and technology, public visibility of academic research is highly important. However, many scientific findings are too technical for the general public to understand. Our lab takes advantage of the power of visual graphics to give a deep impression to viewers. This graphic titled "Engineered Organisms" can be both an art work and a figure that indicates our research goal. We focus on machine-like rapid processing of sophisticated three-dimentional tissues by using cells as mechanical parts like screws, springs, and gear wheels. Toward this purpose, we utilize MEMS and microfluidic technology that enable micro-scale fabrication. "Engineered Organisms" visualizes an artificial heart consisting of cell parts, in the hope that our research results could benefit the field of regenerative medicine.



