



Schematic drawings of the fabrication of a double-layered tubular construct composed of vascular endothelial cells and smooth muscle cells.

The bioengineering-based technique enabled the fabrication of tubular constructs consistent with the makeup of native blood vessels, increasing the potential of our system for manufacturing whole organs and ultimately connecting up with the host vasculature.

Related article: Takei, T., Yamaguchi, S., Sakai, S., Ijima, H., and Kawakami, K., "Novel technique for fabricating double-layered tubular constructs consisting of two vascular cell types in collagen gels used as templates for three-dimensional tissues", *J. Biosci. Bioeng.*, vol. 104, 435-438 (2007).