Cell-Interactive Nano/Micro Biomaterials for Biomedical Applications

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Extracellular matrix (ECM) at cell microenvironments have a specific interaction with cell membrane proteins to regulate cell functions and three-dimensional organization. Here, we would like to demonstrate cell-interactive nano- and micro-metersized biomaterials, which can control cell functions, for tissue engineering and biomedical applications.

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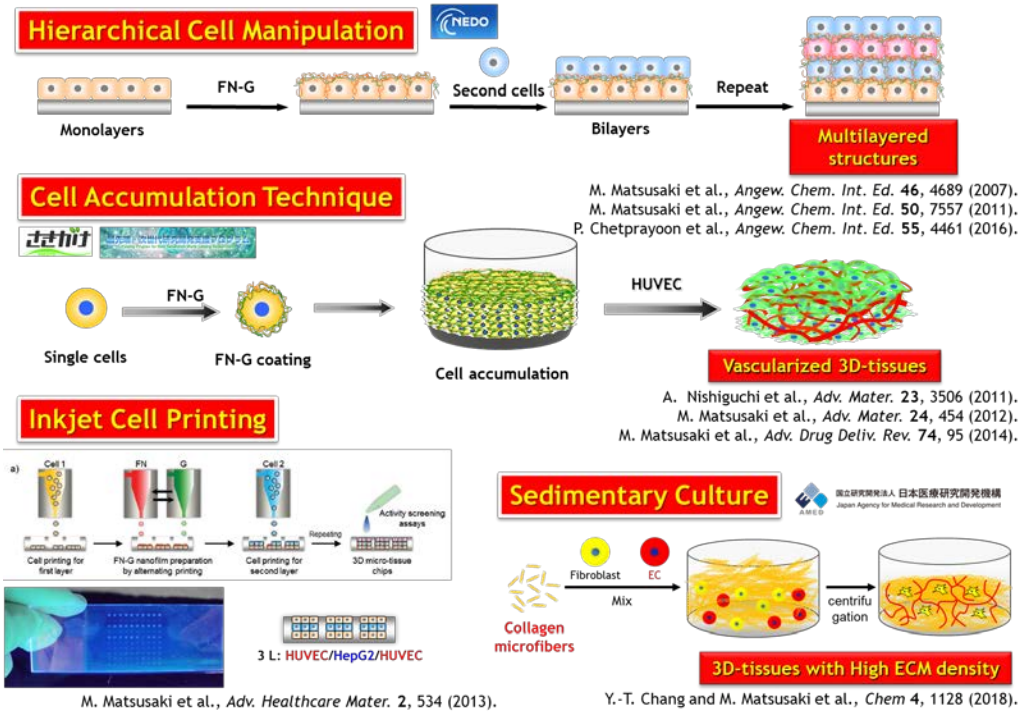

Figure Cell-interactive layer-by-layer nanofilms and collagen micro fibers for tissue engineering applications.

Michiya Matsusaki was born in Kagoshima, Japan in 1976. He received his Ph.D. degree in 2003 under direction of Prof. Mitsuru Akashi from Kagoshima University. He started his academic career as a Postdoctoral fellow at Osaka University from 2003 to 2005. In 2006, he joined Graduate School of Engineering at Osaka University, Japan as an Assistant Professor. He promoted to Associate Professor in 2015. He is a JST-PRESTO researcher (Concurrent position) from 2008 to 2011 and 2015 to present. He received 17 awards, published 130 papers, and provided over 200 invited lectures, and his *h*-index is 33.

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