



# Biofabrication: Chapter 7. The Modular Approach (Micro and Nano Technologies)

*Ema C. Ciucurel, M. Dean Chamberlain, Michael V. Sefton*

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Modular tissue engineering was initially introduced as a method of building intrinsically vascularized tissue engineered constructs by mixing together smaller building blocks (“modules”), with each module designed to include both vascular cells as well as functional cells. This approach has several advantages: it includes a built-in vascular component, it is scalable, it enables uniform cell distribution within the construct, it enables mixing of multiple cell types in controlled ratios, and it is minimally invasive because modules can be simply injected through a needle. The modular approach has also been used as a means of building larger tissues with controlled architecture from the bottom up, with or without a vascular component, and using different techniques to direct the assembly of the modules. The goal in this case is to recreate the native tissue architecture by directing the assembly of the building blocks. Both natural and synthetic materials have been used to fabricate the modules.

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