



Bioprinting: Principles and Applications (Hardback)

By Chee Kai Chua, Wai Yee Yeong

World Scientific Publishing Co Pte Ltd, Singapore, 2015. Hardback. Book Condition: New. 236 x 155 mm. Language: English . Brand New Book. At labs around the world, researchers have been experimenting with bioprinting, first just to see whether it was possible to push cells through a printhead without killing them (in most cases it is), and then trying to make cartilage, bone, skin, blood vessels, small bits of liver and other tissues. There are other ways to try to engineer tissue ? one involves creating a scaffold out of plastics or other materials and adding cells to it. In theory, at least, a bioprinter has advantages in manipulating control of the placement of cells and other components to mimic natural structures. But just as the claims made for 3-D printing technology sometimes exceed the reality, the field of bioprinting has seen its share of hype. The reality is that, although bioprinting researchers have made great strides, there are many formidable obstacles to overcome. Nobody who has any credibility claims they can print organs, or believes in their heart of hearts that that will happen in the next 20 years, but for operations like hip replacement, advance in Bio-printing has made customization...



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