



# Bioprinting: Principles and Applications (Wspc Book Series in 3D Printing)

*Chee Kai Chua, Wai Yee Yeong*

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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 of certain body parts possible.

This book will start from the concept of Tissue Engineering, covering various approaches in Scaffolds for tissue engineering, Bioprinting techniques and Materials for bioprinting, Cell processing, 3D cell culture techniques, Computational design and simulation, multi-disciplinary approaches in bioprinting and finally cover the applications of bioprinting.

Readership: Senior undergraduates, researcher students in tissue engineering, general public and professional.

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