3D Bioprinting

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What is it?

Bioprinting allows the patterning of living cells and materials in 3D to build human tissue constructs with anatomically correct structures.

Strengths

- Patterning in 3D
- Build custom shapes & structures

Weaknesses

- 'ink' material requirements; Resolution
- Integration of various 3D printing techniques

Potential Applications

Current research

- Polymer scaffold for nasal reconstruction
- Bioprinting of vascularised liver tissues

Future

- 3D printing of other tissues/organs