3D printing biomaterials for tissue regeneration

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Problem

Diabetes

Kidney failure
Every **30 seconds**, a patient dies from diseases that could be treated with a tissue replacement.
Regenerative medicine

Vacanti Mouse (1997)

3D BIOPRINTING
Solution

Gellan Gum E418
SILK
Flow of biopolymers

Data points:
- Temperature (°C): 90, 80, 70, 60, 50, 40, 30
- G' and G'' values for different conditions (GG-H0, GG-H1, GG-H4)

Graph showing G' and G'' values vs. Temperature (°C) for biopolymers under different conditions.
Flow of biopolymers
Flow of biopolymers
Flow of biopolymers
Flow of biopolymers
3D bioprinting