

IPSSC +
CMBO

STUDENTS' CONFERENCE

Jožef Stefan International Postgraduate School
and Young Researchers' Day CMBO

19 and 20 April

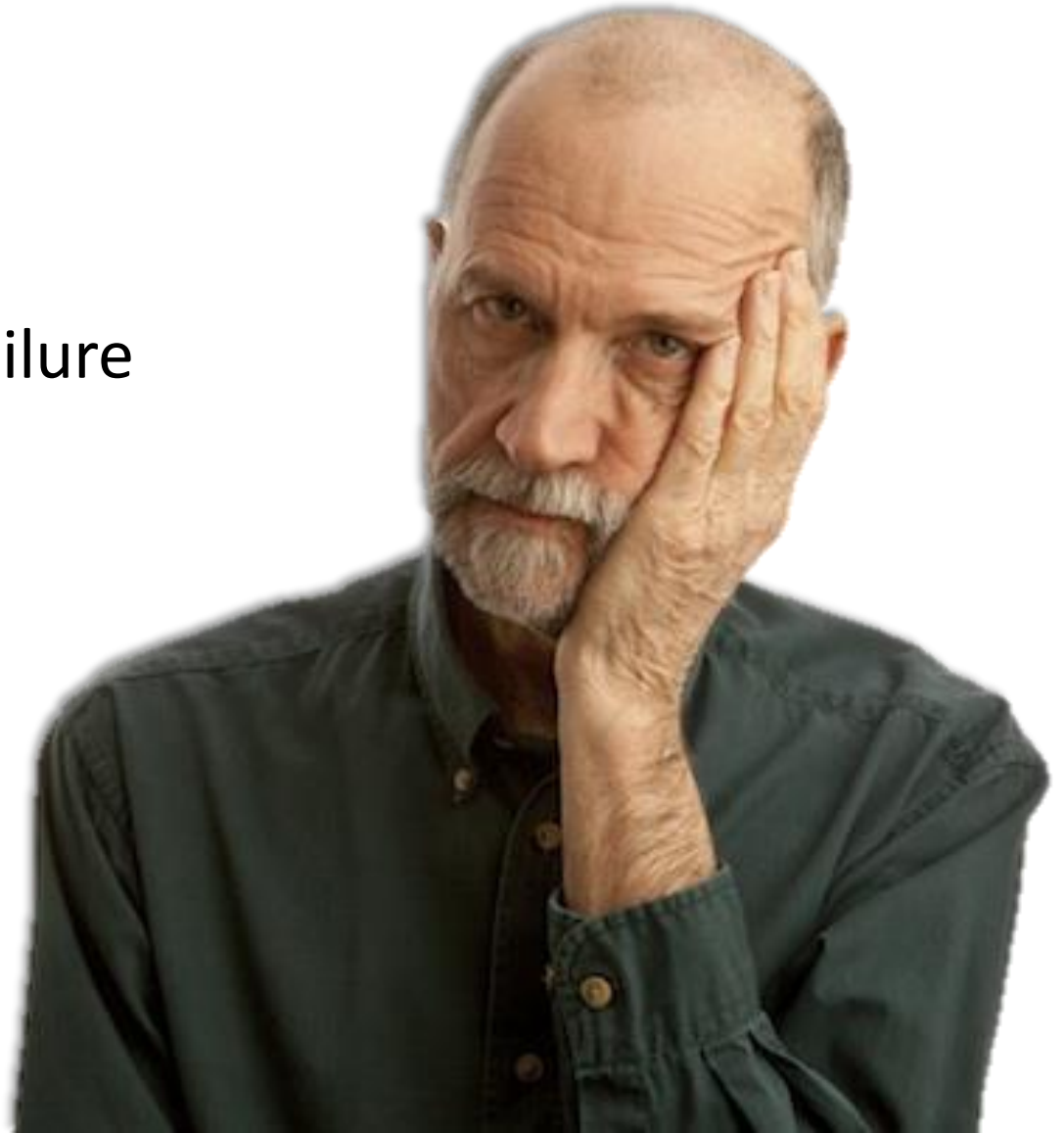
3D printing biomaterials for tissue regeneration

Rok Kocen,
Jožef Stefan Institut
Poster number: 44

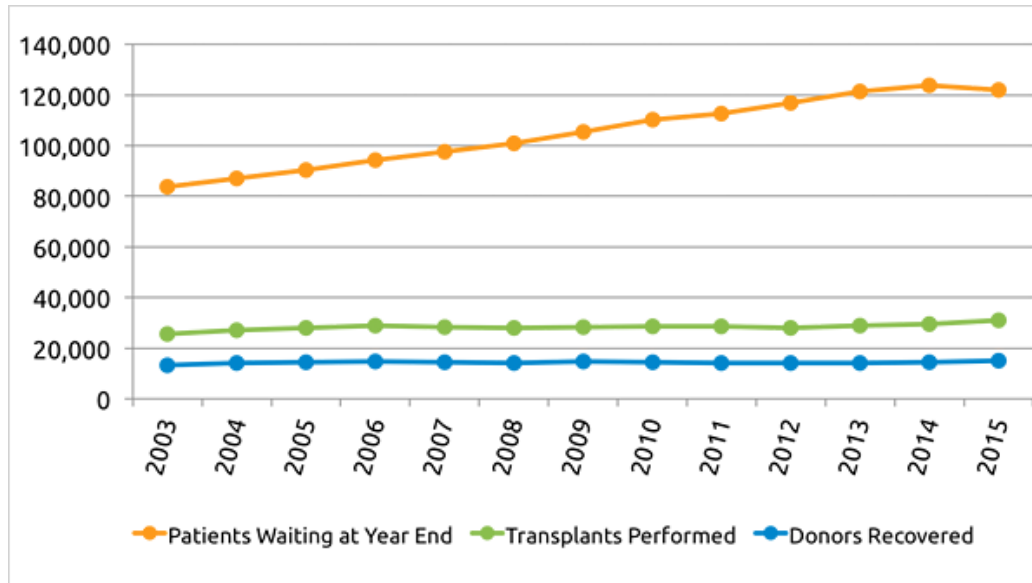
Problem

Diabetes

Kidney failure

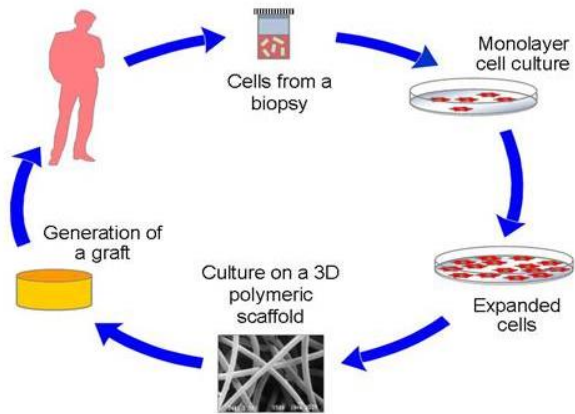


Problem



Every **30 seconds**, a patient dies from diseases that could be treated with a tissue replacement

Regenerative medicine



Vacanti Mouse (1997)



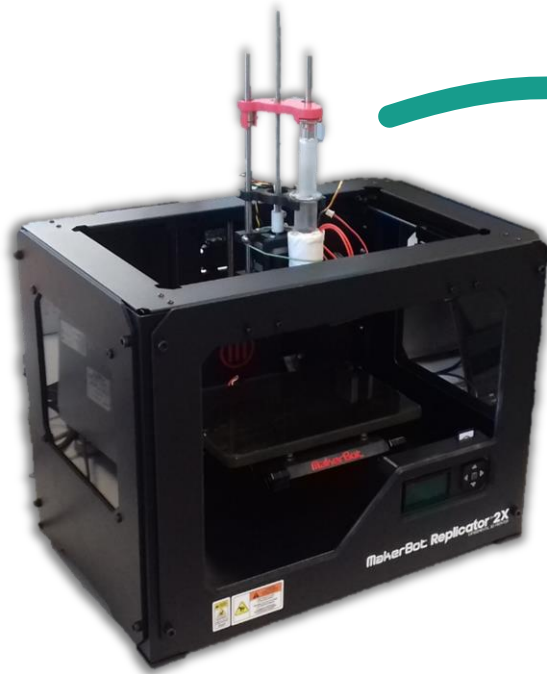
Taylor, Minnesota (2009)



3D BIOPRINTING



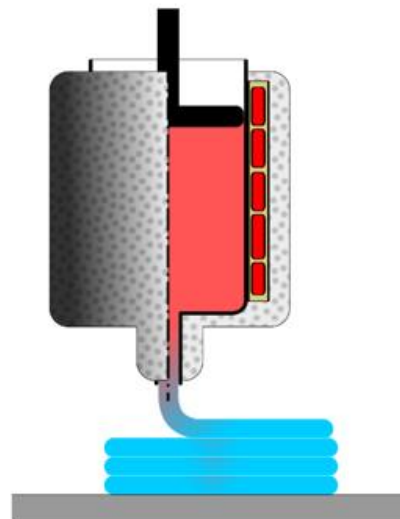
Solution



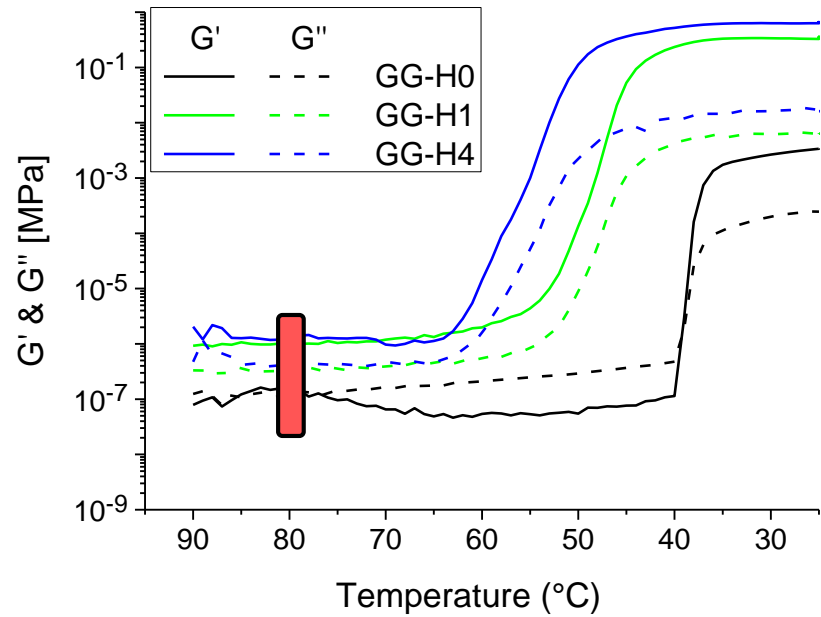
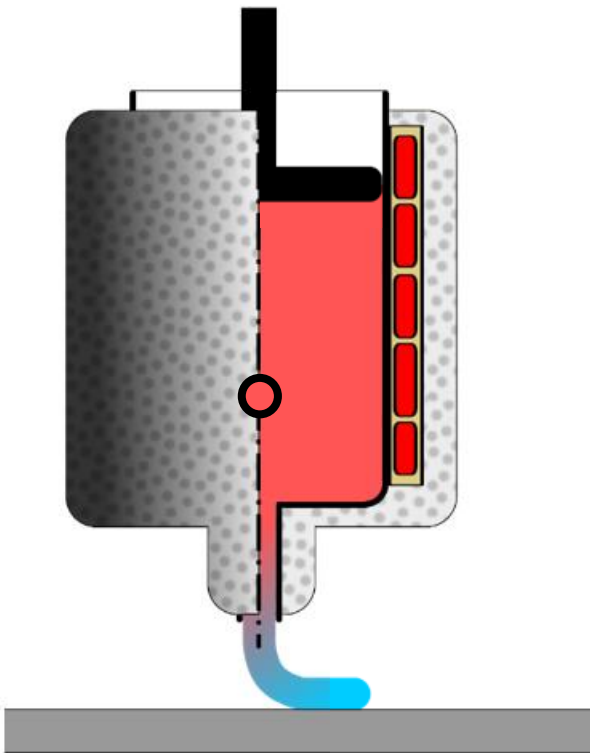
**GELLAN GUM
E418**



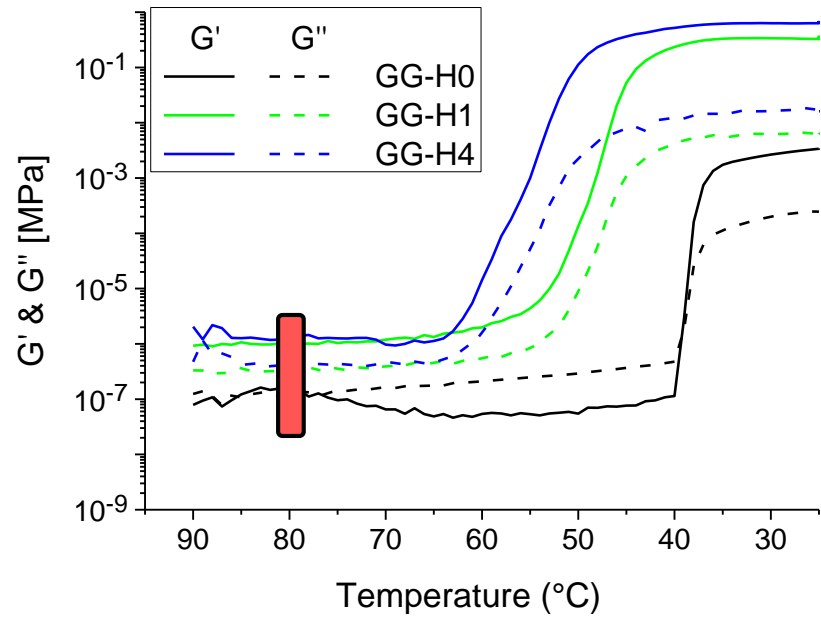
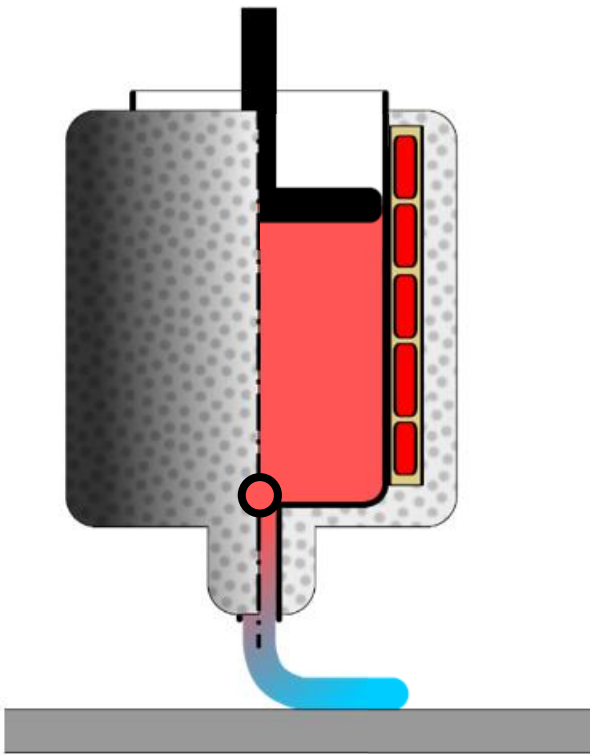
SILK



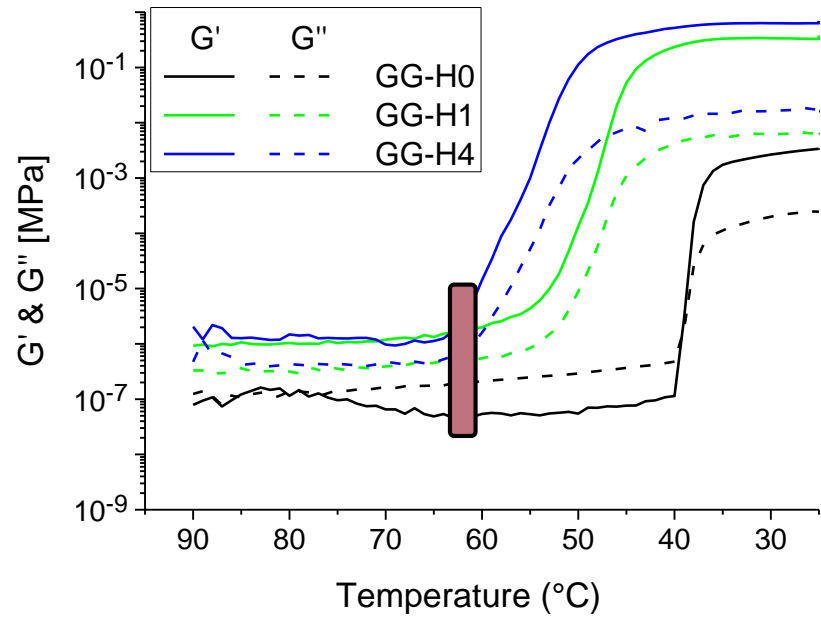
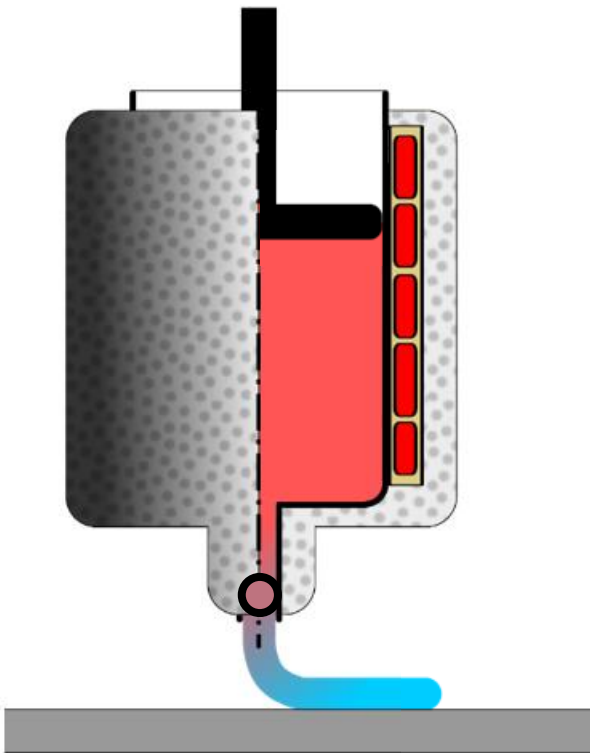
Flow of biopolymers



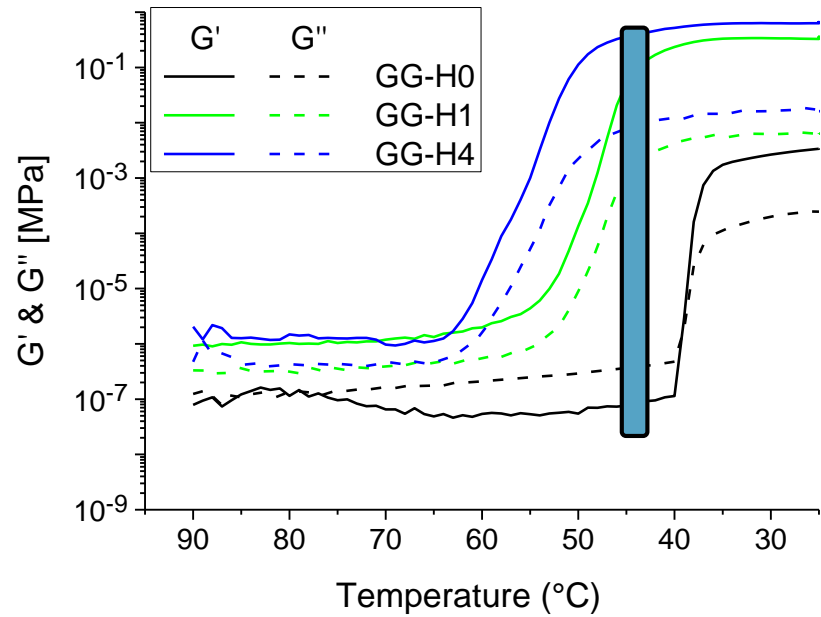
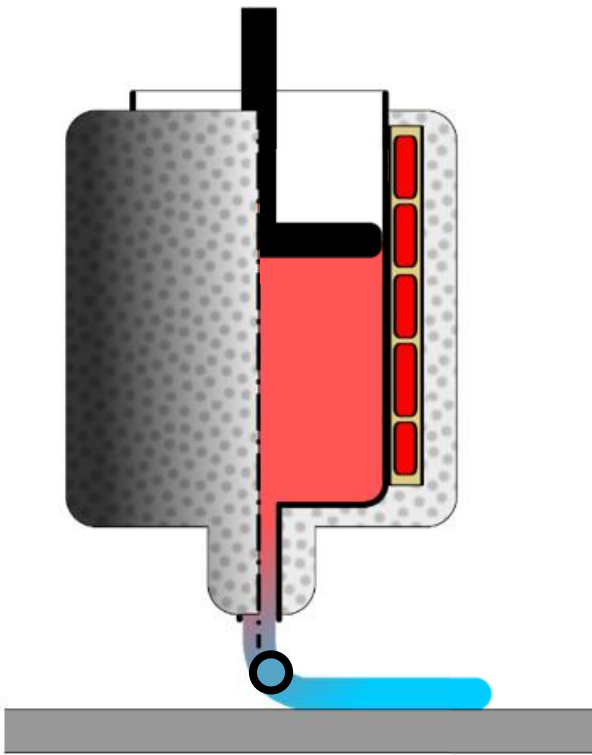
Flow of biopolymers



Flow of biopolymers



Flow of biopolymers



3D bioprinting

