



3D Bioprinting: Mechanical Properties of Hydrogels

By Banovic, Luka

Condition: New. Publisher/Verlag: AV Akademikerverlag | Using mechanical properties of hydrogels for determining the extrusion parameters | In the EU alone in the year 2013 there have been approximately 86,000 people put on the waiting lists for organ transplantation. However, only about 32,000 of them actually had their organ transplanted. Those who were lucky enough to have found a matching donor and had a successful transplantation are now bound to lifelong immunosuppressive medication to prevent refusal of the transplanted organ, which very often negatively affects their quality of life. Researchers and scientists in the field of tissue engineering are putting more and more effort into studying bio-materials and fabrication methods to once be able to fabricate and grow organs from the patient's own cells. This would vastly speed up the healing process and also leave organ refusal out of consideration, therefore circumventing the two major issues that the field is currently tackling. Of course, this is a big step that has to be split into many micro-steps and this manuscript is just one of them. It is a contribution towards tissue engineering research, adding yet another piece to the very complex puzzle, all that with hopes for the organ recipients...



READ ONLINE
[2.58 MB]

Reviews

Most of these publication is the perfect ebook accessible. It is amongst the most awesome publication i have got read through. You wont truly feel monotony at whenever you want of the time (that's what catalogs are for regarding in the event you request me).

-- **Prof. Edgar Kshlerin**

It is easy in study safer to comprehend. It can be writer in basic phrases and never confusing. It is extremely difficult to leave it before concluding, once you begin to read the book.

-- **Emmitt Harber**