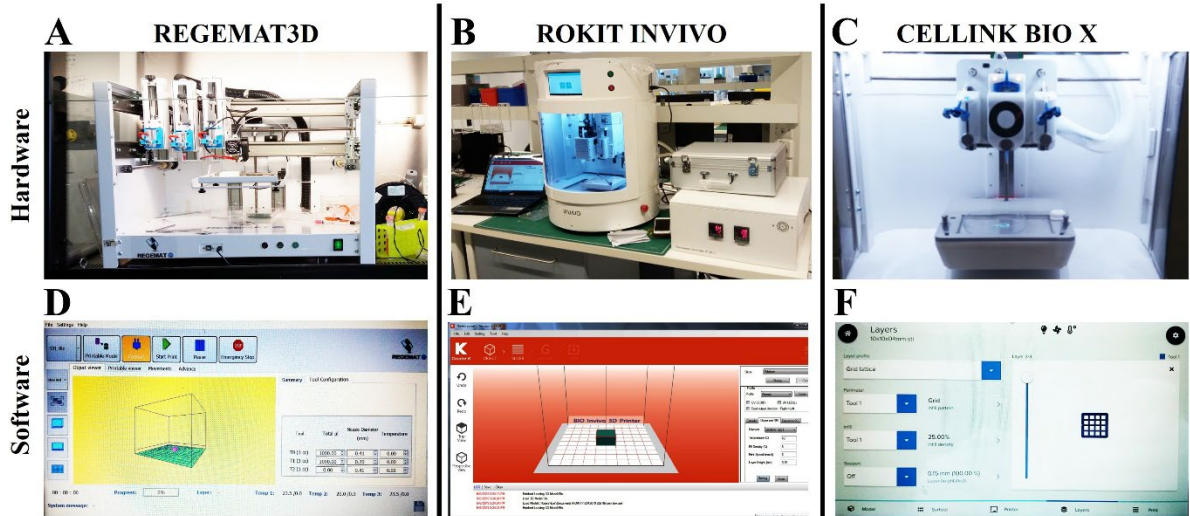


## SUPPLEMENTARY FIGURES AND LEGENDS



**Supplementary Figure 1. 3D bioprinting platforms used: a custom-made REGEMAT3D model (left column), the ROKIT INVIVO (middle column) and the CELLINK BIO X (right column). Hardware (A-C) and software (D-F) are shown for these three extrusion-based 3D bioprinting systems. The REGEMAT3D customised (D) and INVIVO ‘Creator K’ (E) software were both accessed on a laptop computer connected to the bioprinter by USB cable and the BIO X software (F) was entirely inbuilt on the bioprinter touchscreen.**