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Supplementary Figures



Fig. S1. Schematic of the (a) printing paths (b) printing nozzle



Fig. S2. Dopamine concertation versus cell viability after 48h; (a) pure dopamine, (b) dopamine in biomaterial ink, biomaterial ink consists of various dopamine concertation with 10% CNF (concentration of dopamine in μ g/ml)



Fig. S3: MTT assay for developed samples (PCL film printed with biomaterial ink (consist of 40 μ g/ml and 100 μ g/ml dopamine and 10 %CNF in PCL) using U87MG cells (human glioma cells)