

## RESEARCH ARTICLE

# Investigating the effect of pregabalin on neuronal development using ultrashort self-assembling peptides: Assessing 3D neuronal cultures with high throughput robotic 3D bioprinting

## Supplementary file

### Supplementary videos

**Video S1.** Viability assessment of untreated neurons at day 14 of cell culture based on impedance using MEA system.

**Video S2.** MEA neuronal activity recordings of untreated 3D cultured ECNs.

**Video S3.** MEA neuronal activity recordings of 3D cultured ECNs after 15 min of exposure to pregabalin

**Video S4.** High-throughput 3D bioprinting of cortical neurons in 96-well plate using extrusion- based 3D bioprinter.

**Video S5.** Z-stack images of untreated 3D bioprinted ECNs immunostained against TUJ1 (green) and TBR1 (red) at day 3 of cell culture.

**Video S6.** High throughput 3D printing of acellular IIZK-based constructs