**Supplementary Information**

# Automated spheroid generation, drug application and efficacy screening using a deep learning classification: A feasibility study

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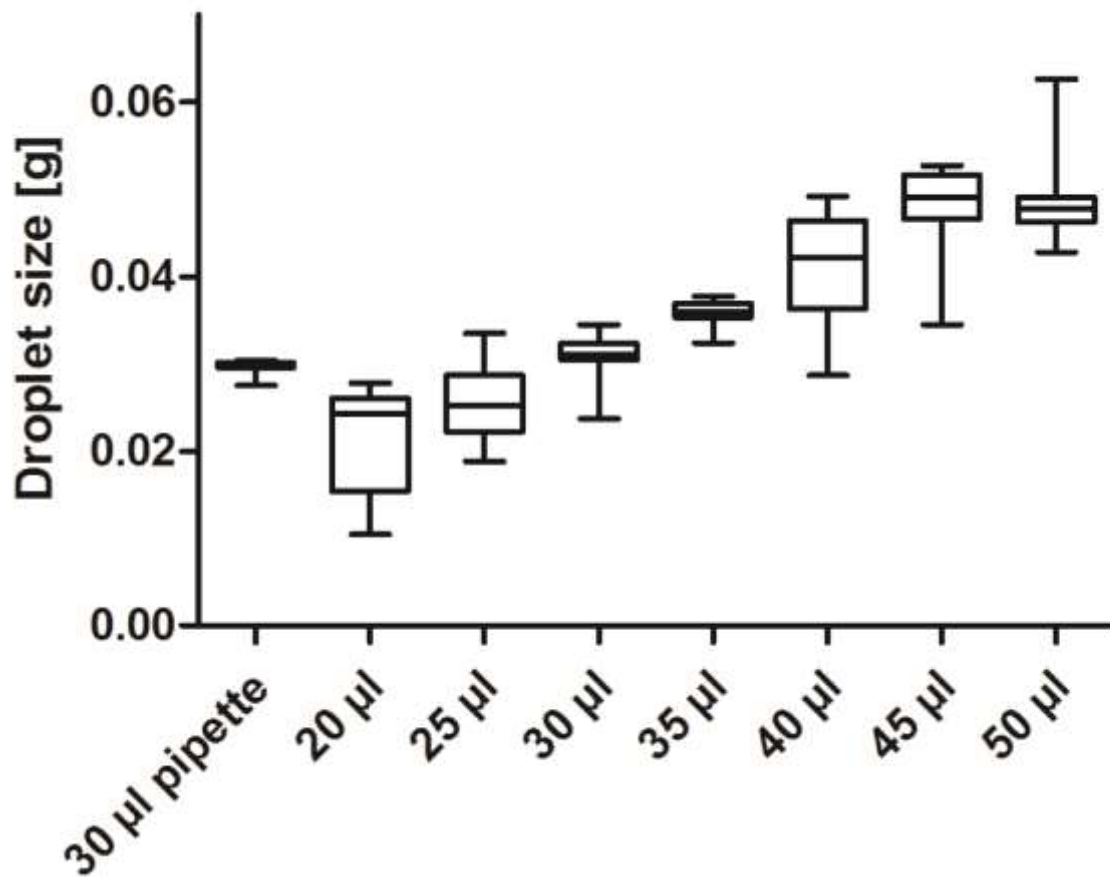
**Supplementary Figure 1: High throughput spheroid generation and screening.**

Hanging drops can be mass produced by a fully automated pipetting robot. Droplets produced by the pipetting robots are very homogeneous and are matching to manually produced ones (30 µl, pipette). Droplet volume was assessed by gravimetrical analysis of the individual droplets. N < 20.
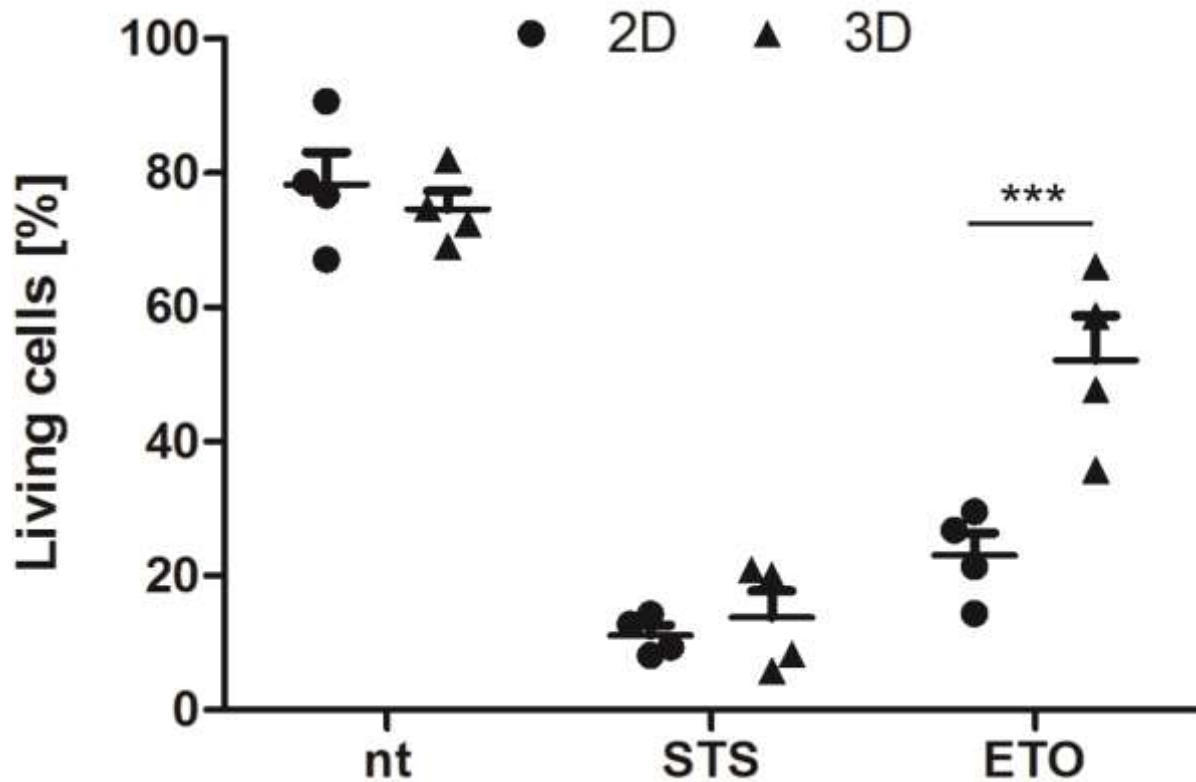
**Supplementary Figure 2: Cells change their sensitivity to drugs depending on their growth situation.**

mIMCD3 cells grown in 2D or 3D cell culture for 24 hours and then treated with Staurosporine (STS, 2 µM) or Etoposide (ETO, 20 mM) for 24 h. Cell viability was assessed by flow cytometry. N = 4, p<0.001.