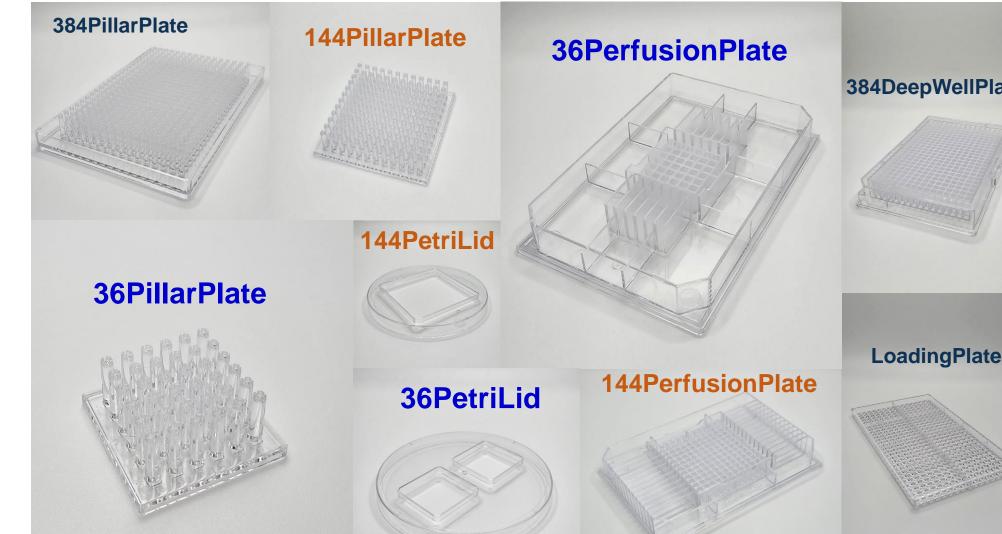


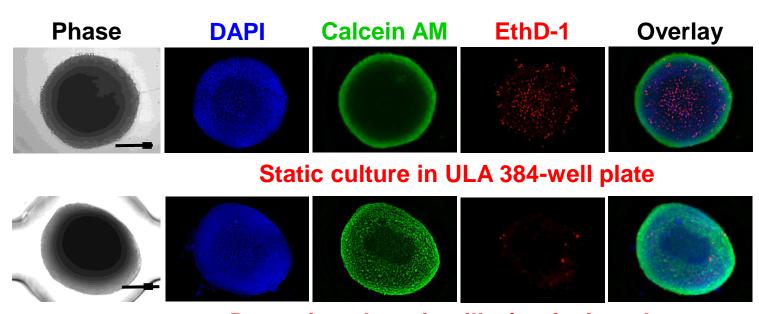


Unique Features of Our Products 384PillarPlate 144PillarPlate **36PerfusionPlate** 384DeepWellPlate



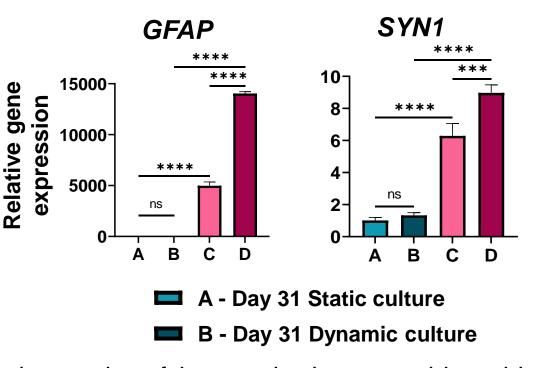
- Extremely fast and simple cell/spheroid loading by microarray **3D bioprinting and manual stamping for organoid culture**
- Reducing cell death and enhancing organoid maturity by rapid diffusion of nutrients and oxygen
- In situ organoid testing and imaging
- Scale-up organoid production with small medium volume
- User-friendly operation without using pumps and tubes
- Compatible with existing microscopes and well plate readers

Reduced cell death and enhanced organoid maturity by rapid diffusion of nutrients and oxygen

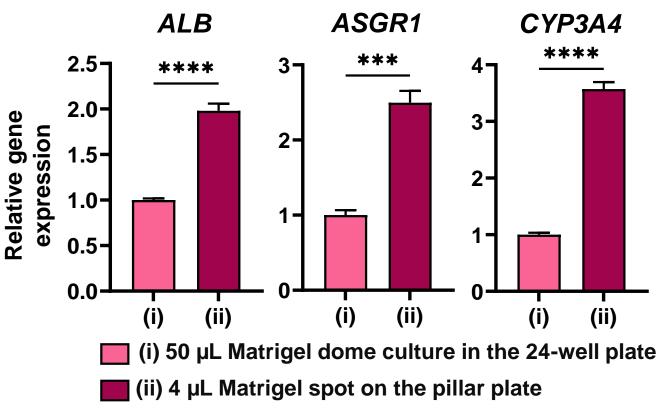


Dynamic culture in pillar/perfusion plate

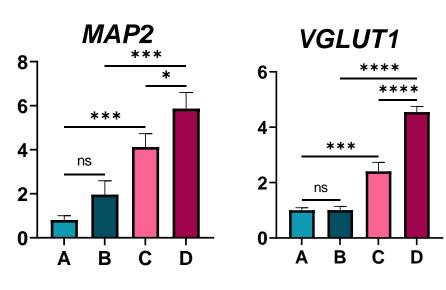
Reduced cell death in the core of Hep3B cell spheroids (necrotic core) achieved by dynamic culture in the pillar/perfusion plate. Representative images of Hep3B cell spheroids cultured for 7 days in static and dynamic conditions and stained with calcein AM and ethidium homodimer-1 (EthD-1) to assess cell death in the core. Scale bars: 350 µm. DOI: doi.org/10.1021/acsbiomaterials.4c00179



Enhanced maturity of human brain organoids achieved by dynamic culture in the pillar/perfusion plate demonstrated by the increased expression of GFAP astrocyte marker, SYN1 synaptic marker, MAP2 mature neuronal marker, and VGLUT1 excitatory neuronal marker as compared to static culture in the pillar/deep well plate. DOI: doi.org/10.1101/2024.03.11.584506

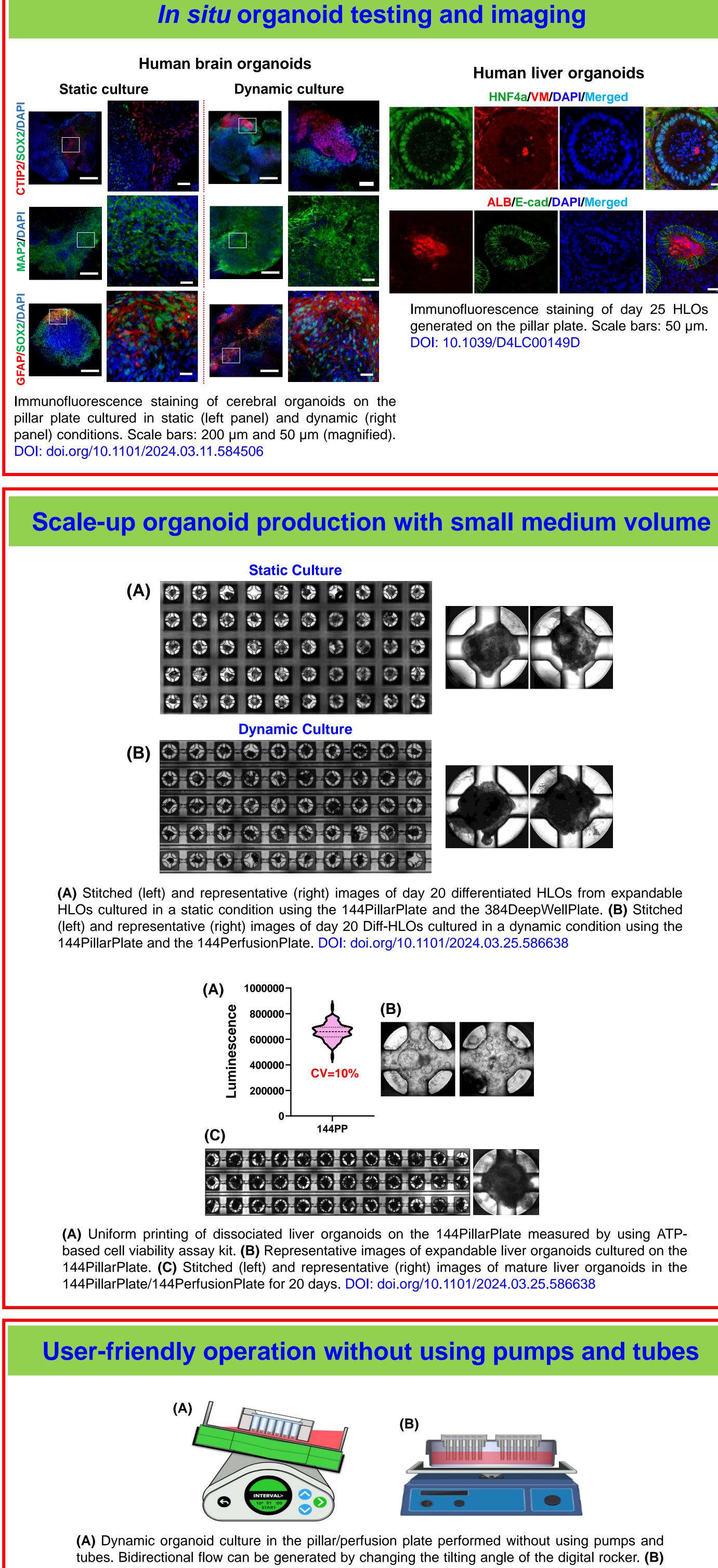


Enhanced maturity of human liver organoids achieved by static culture in the pillar/deep well plates demonstrated by the increased expression of ALB albumin marker, ASGR1 hepatocytes marker, and CYP3A4 cytochrome P450 3A4 marker as compared to static culture in the 24-well plate. DOI: 10.1039/D4LC00149D



C - Day 63 Static culture

D - Day 63 Dynamic culture



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Dynamic organoid culture on the pillar plate coupled with a petri dish on an orbital shaker.