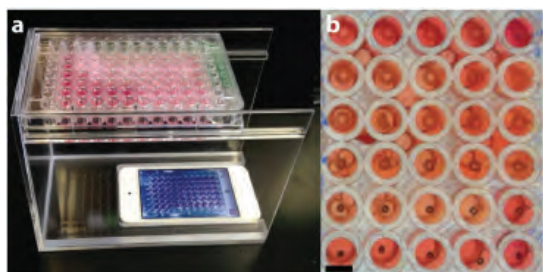
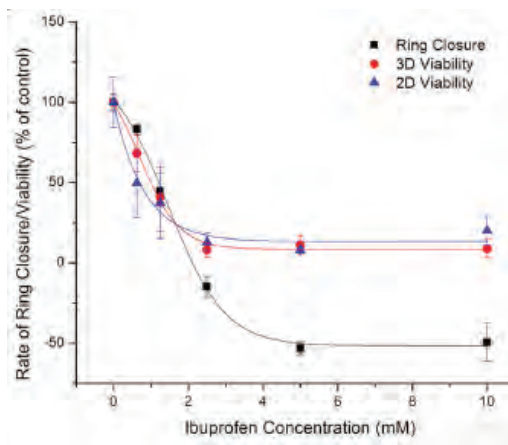


# BiO Assay: Magnetic 3D Bioprinting for High-Throughput Screening

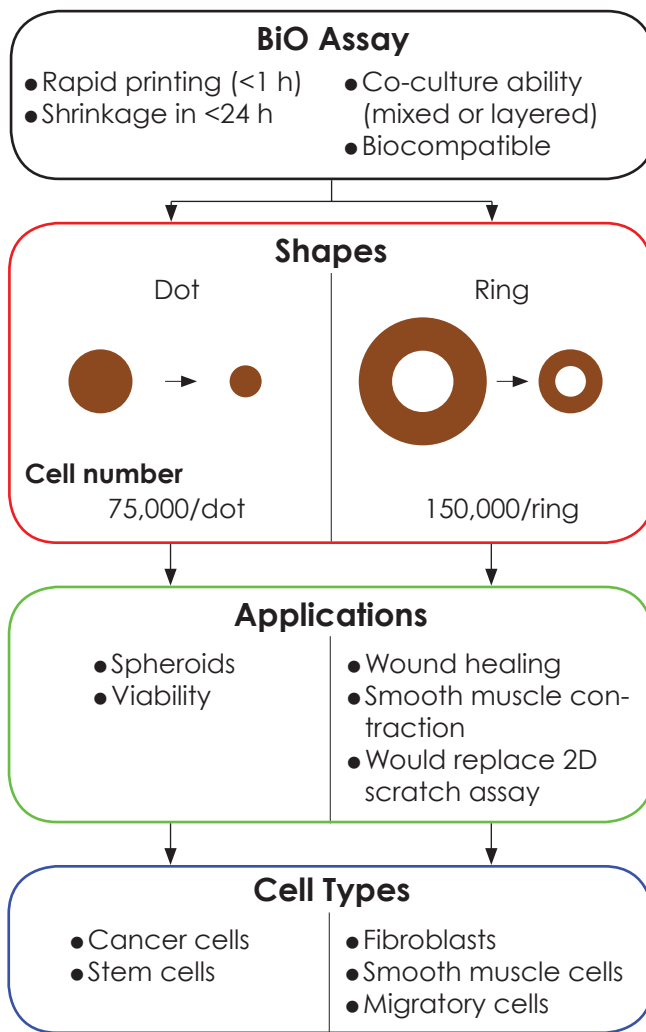
- ✓ Rapid printing of tissue-like structures
- ✓ Dose-dependent shrinkage from toxicity
- ✓ Label-free, quantitative metrics
- ✓ iPod-based imaging - set it and go
- ✓ Automated data analysis
- ✓ No specialized equipment
- ✓ High-throughput (96-well)
- ✓ High-content (genomics, proteomics)
- ✓ Ideal as organ-specific screen
- ✓ Available as service



**BiO Assay:** iPod imaging setup (a) and images taken with the iPod of HEK2993 rings exposed to ibuprofen. With higher drug concentrations (top), the rings are unable to shrink as fast. Note the resolution and contrast of the rings in the image taken by the iPod. Scale bar = 5 mm.



**Dose Response:** Dose response curves of the BiO Assay versus the CellTiter-Blue assay performed on 2D and 3D cultures of HEK2993 exposed to ibuprofen. Ring closure correlated with viability.



020-BIOCMSYS	BiO Assay - Complete system with 6 NS (w/o iPod)	\$1,699.00
020-BIOBCSYS	BiO Assay - System only (3X NS, w/o imaging system)	\$599.00
020-BIOIMGSYS	Imaging system (w/o drives or iPod)	\$599.00
020-NSBIOIPD	Nanoshuttle refill, 6-pack (w/ free iPod)	\$799.00



Timm, D. M. et al. A high-throughput three-dimensional cell migration assay for toxicity screening with mobile device-based macroscopic image analysis. *Sci. Rep.* 3, 3000 (2013).  
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