



Showcasing research from Professor Mohammad A. Qasaimeh's Laboratory, Division of Engineering, New York University Abu Dhabi, United Arab Emirates.

Cryopreservable arrays of paper-based 3D tumor models for high throughput drug screening

By engineering conventional filter paper with localized hydrophilic microspots for cell aggregation, dense arrays of miniaturized 3D tumor models were created for cryopreservation followed by drug screenings. With the inherent porous cellulose-based microenvironment of paper platforms, the developed technology offers a biocompatible niche for 3D cell growth and a mechanical support during cryopreservation. This simple and cost-effective high throughput platform opens the door for numerous applications in the fields of drug discovery, tissue engineering, and personalized medicine.

As featured in:



See Mohammad A. Qasaimeh *et al.*, *Lab Chip*, 2021, 21, 844.