3D APPLICATIONS

Cancer Invasion

MATERIAL: TeloCol-6 , TeloCol-4

CELL LINE: MDA-MB-231

CONSTRUCT TYPE: Droplet-in-Droplet

VESSEL TYPE: 96 well-plate

INNER DROPLET: 1 µL

OUTER DROPLET: 5 µL

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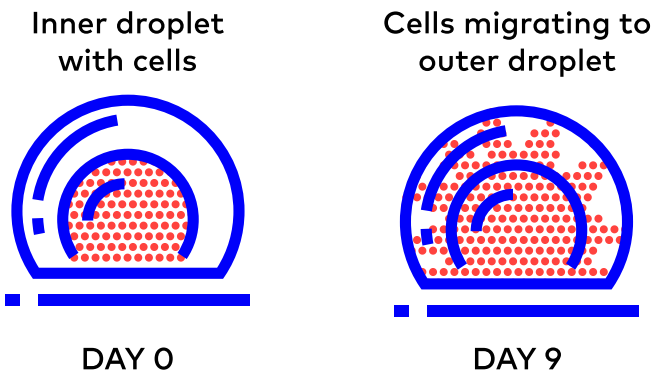
Understand what causes cancer cells to migrate from diseased to healthy tissue. The droplet-in-droplet method, made possible by 3D biodispensing, enables researchers to create models to understand cancer invasion mechanics. In this proof of concept cancer cells embedded in TeloCol-6 were deposited and then a subsequent droplet of TeloCol-4 was dispensed around to surround the first drop and create a cancerous core.



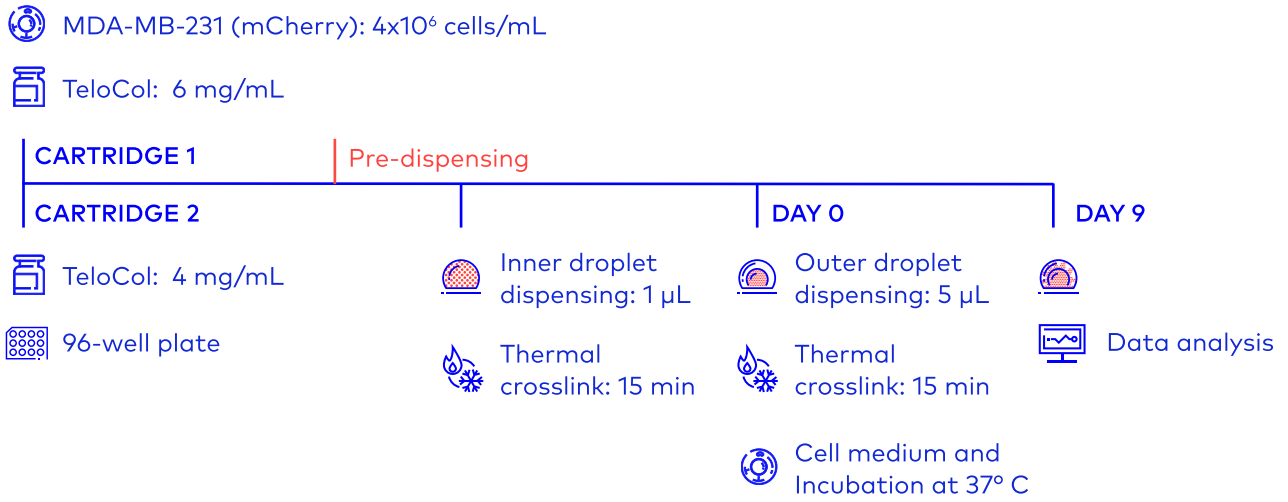


FIGURE 1: General workflow for TeloCol-10 biodispensing of cancer cell invasion (droplet-in-droplet) model and analysis capable on systems like the BIO CELLX.

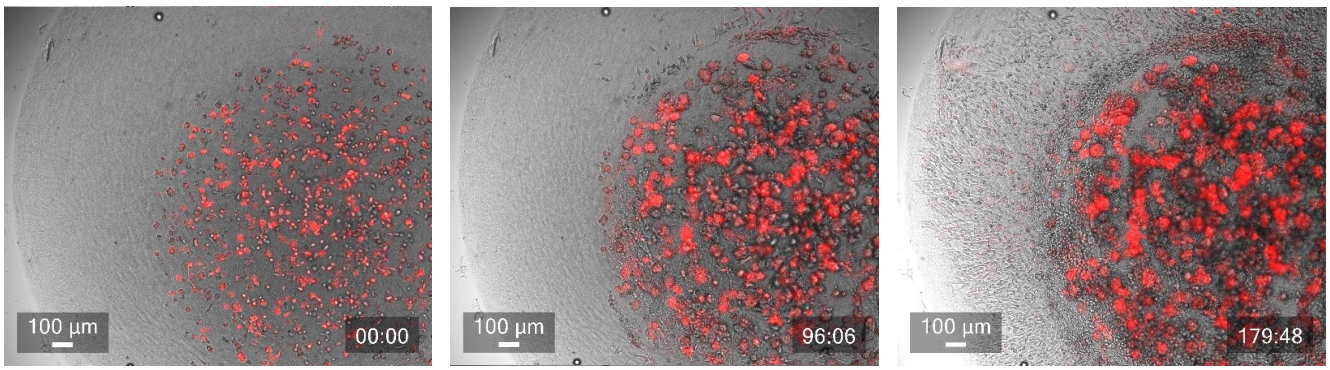


FIGURE 2: Droplet-in-droplet model for cancer cell migration. The live cancer cells in red are embedded in the inner droplet at day 1 and migrated out to the outer layer during the 9 days incubation time.

MORE DETAILS ABOUT THE TUMOR SPHEROIDS

Read more in the full application note

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