

## SUPPLEMENTAL MATERIAL 2

### Integrated analysis of the tumor microenvironment using a reconfigurable microfluidic cell culture platform

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<b>T cell Migration Assay</b>			
<b>Marker (clone)</b>	<b>Fluorochrome</b>	<b>Purpose</b>	<b>Product Specifics</b>
CD4 (RPA-T4)	Brilliant™ Blue 515	T cell marker	BD Biosciences #564419
CD8 (RPA_T8)	PE	T cell marker	BD Biosciences #555367
<b>Flow Cytometry Panel</b>			
<b>Marker (clone)</b>	<b>Fluorochrome</b>	<b>Purpose</b>	<b>Product Specifics</b>
Ghost Dye™ Violet 510	Ex/Em ~405/510 nm	Dead cell exclusion	Tonbo Biosciences #13-0870
CD80 (L307.4)	Brilliant™ Blue 515	M1 polarization	BD Biosciences #565008
CD11b (M1/70)	Brilliant™ Violet 421	Myeloid panmarker	Biolegend #101236
CD200R (OX-108)	PE	M2 polarization	Biolegend #392305
CD14 (M5E2)	APC	Monocyte differentiation	BD Biosciences #555399
Fc Block™ (3070)	n/a	Reduce nonspecific binding	BD Biosciences #564220
<b>Fluorescent Microscopy Analysis for Apoptosis, Cytotoxicity, Prostate Organoid and Adipogenic Differentiation</b>			
<b>Marker (clone)</b>	<b>fluorochrome</b>	<b>Purpose</b>	<b>Product Specifics</b>
Calcein AM (n/a)	Ex/Em 495/515 nm	Viability detection	Thermo Fisher Scientific #C3099
NucView® 488 (n/a)	Ex/Em 500/530 nm	Apoptotic activity detection	Biotium #30073
IMAGE-iT™ DEAD Green	Ex/Em 490/508 nm	Cell death detection	Thermo Fisher Scientific #I10291
EpCAM (9C4)	Alexa 647	Epithelial cell marker	Biolegend #324212
Hoechst 33342	n/a	Nuclear stain	Life Technologies #H3570
LipidSpot™ 610	Ex/Em 592/638 nm	Adipogenic lipid drop detection	Biotium #700-69T

Supplementary Table I. Antibody and Fluorescent Reagent Specifics