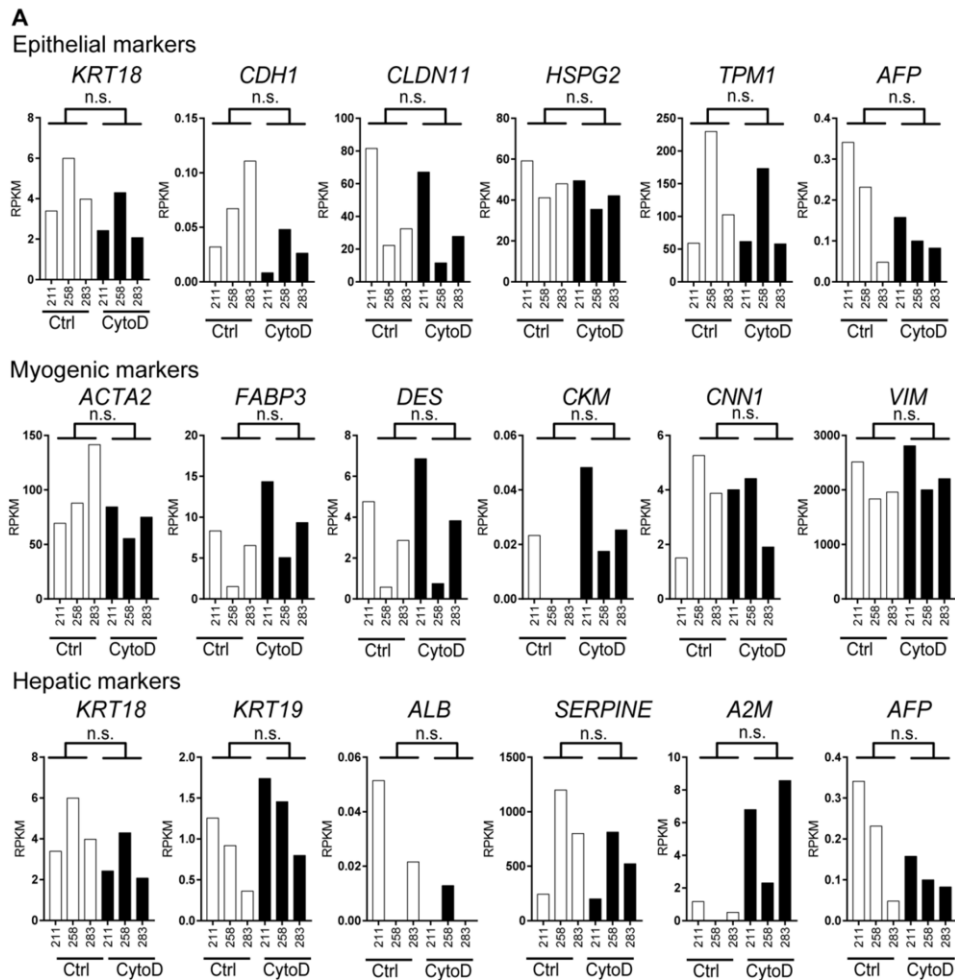


Supplementary Figure 3: A. RNA-sequencing data showing RPKM values for epithelial, myogenic, and hepatic lineages. Statistical analysis was performed by paired t-tests; n.s. indicates no significance differences, $P > 0.05$. **B.** Table summarizing the genes, gene symbols, and RPKM values for the different lineage-specific genes analyzed.



B

Tissue-specific markers		RPKM values					
Gene symbol	Gene	MSC			MSC		
		211	258	283	211	258	283
		Ctrl	Ctrl	Ctrl	CytoD	CytoD	CytoD
Epithelial markers							
Cytokeratin 18	KRT18	3.387	5.994	3.976	2.422	4.298	2.078
E-cadherin	CDH1	0.032	0.067	0.111	0.0083	0.048	0.026
Claudin 11	CLDN11	81.53	22.28	32.43	67.129	11.52	27.8
Perlecan	HSPG2	59.15	41.1	47.94	49.443	35.47	42.07
Tropomyosin 1	TPM1	59.11	229.8	102.5	61.485	173.1	57.99
AFP	AFP	0.341	0.231	0.048	0.1574	0.1	0.083
Muscle markers							
MyoD	MYOD1	0.000	0.000	0.000	0.000	0.000	0.000
Myogenin	MYOG	0.000	0.000	0.000	0.000	0.000	0.000
VE cadherin	CDH5	0.000	0.000	0.000	0.0097	0.000	0.000
GDF-8/Myostatin	MSTN	0.000	0.000	0.000	0.000	0.000	0.045
Troponin 1 (cardiac)	TNNI3	0.000	0.000	0.000	0.000	0.000	0.000
Alpha SMA	ACTA2	69.42	87.89	141.6	84.443	55.46	75.04
FABP3	FABP3	8.319	1.501	6.535	14.358	5.064	9.334
Desmin	DES	4.762	0.575	2.866	6.8641	0.759	3.827
Creatin kinase	CKM	0.023	0.000	0.000	0.0483	0.017	0.025
Calponin	CNN1	1.505	5.264	3.879	4.0076	4.415	1.905
Vimentin	VIM	2514	1834	1958	2810.7	2002	2205
Hepatic markers							
α-fetoprotein	AFP	0.341	0.231	0.048	0.1574	0.1	0.083
Cytokeratin 18	KRT18	3.387	5.994	3.976	2.422	4.298	2.078
Cytokeratin 19	KRT19	1.257	0.919	0.362	1.7392	1.456	0.799
Albumin	ALB	0.051	0.000	0.022	0.000	0.013	0.000
PAI-1	SERPINE1	243.6	1200	800.8	200.71	813.6	522.1
A2M	A2M	1.167	0.025	0.51	6.7957	2.313	8.568