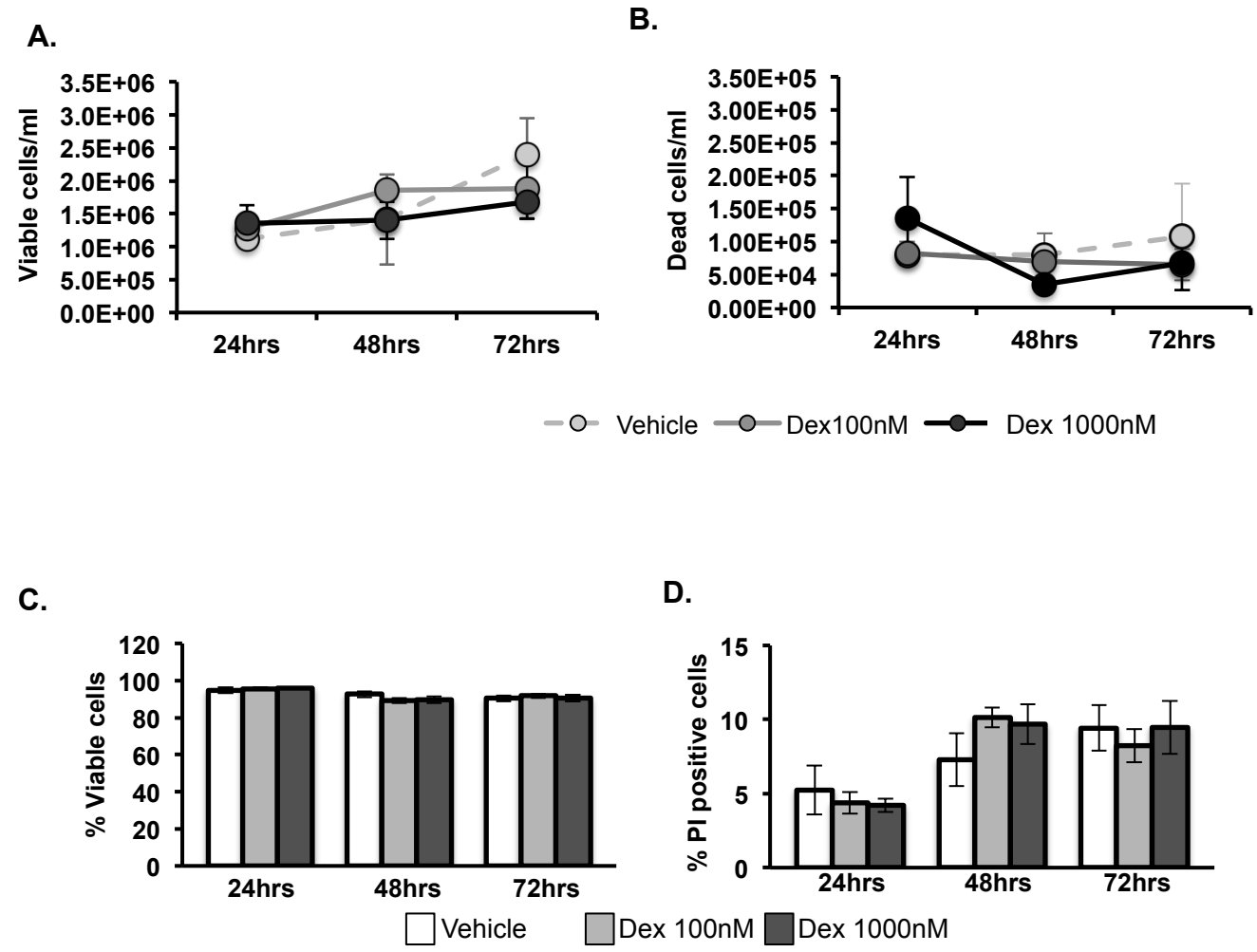
Supplemental Figure 1



Supplemental Table 1: Dexamethasone regulation of genes associated in diseases and functions involving lamellipodia.

Up regulated genes

Number	Symbol	Exp Fold Change	Exp p-value
1	BAIAP2	2.3504	8.63183E-7
2	ARHGEF6	2.12256	0.00860316
3	FGD4	2.01625	0.00166027
4	ABLIM3	1.99287	4.10288E-7
5	PVRL3	1.60381	6.32653E-4
6	DKK3	1.48976	0.00533421
7	CTGF	1.47837	1.91192E-4
8	EGFR	1.44947	1.7985E-4
9	MPRIP	1.42097	6.53886E-4
10	ABLIM1	1.39124	0.00405023
11	PXN	1.37578	0.00947868
12	TRIP10	1.36183	0.00240525
13	TSC1	1.35562	0.00283056
14	RHOB	1.33951	0.00311138
15	WASF2	1.29785	0.00561289
16	CHN1	1.20473	7.81584E-4
17	WASF1	1.19908	0.00507991
18	PLCG2	1.19	0.00731763
19	SWAP70	1.18608	2.93509E-4

Down Regulated genes

Number	Symbol	Exp Fold Change	Exp p-value
1	CCL2	-3.41548	2.38816E-8
2	PLAU	-2.90533	3.11871E-8
3	SEMA3A	-2.87725	1.78089E-6
4	BDNF	-2.2454	3.22154E-4
5	GDNF	-2.02472	0.00416782
6	CD44	-1.9183	0.00475893
7	ITGB8	-1.81877	1.10001E-4
8	NGF	-1.68514	2.09892E-4
9	EGF	-1.66451	0.00323076
10	SLIT2	-1.61888	1.22335E-4
11	NRG1	-1.5487	4.79405E-5
12	PIK3CD	-1.51461	5.46577E-5
13	HSP90AA1	-1.47258	0.00594811
14	ITGA6	-1.46736	3.87133E-5
15	LCP2	-1.42448	9.43781E-5
16	AQP1	-1.4135	8.56015E-4
17	HGF	-1.40635	2.09902E-4
18	TNFRSF12A	-1.34406	0.00158715
19	KNG1	-1.32215	0.00156674
20	FGF2	-1.31569	4.50725E-4
21	VAV1	-1.30245	7.61495E-4
22	EZR	-1.25889	0.00796023
23	RAC2	-1.24535	0.00227561
24	DGKG	-1.2447	0.00468086
25	CYR61	-1.21306	0.00539672
26	C1QBP	-1.1628	0.00707416

Supplemental Table 2: Dexamethasone regulation of genes associated in diseases and functions involving filopodia.

Up regulated genes

Number	Symbol	Exp Fold Change	Exp p-value
1	BAIAP2	2.3504	8.63183E-7
2	FGD4	2.01625	0.00166027
3	SERPINE1	1.89231	3.58885E-4
4	MTSS1	1.87278	6.78846E-6
5	SRGAP3	1.87162	0.0013897
6	CSF1	1.69629	0.00105613
7	KDR	1.69116	0.00165353
8	PVRL3	1.60381	6.32653E-4
9	CRMP1	1.55331	0.00864449
10	AKAP12	1.48594	3.11512E-5
11	CTGF	1.47837	1.91192E-4
12	TSC1	1.35562	0.00283056
13	TNFRSF1A	1.34708	0.00590279
14	ZMYND8	1.34707	5.62107E-4
15	SIRPA	1.3081	9.38194E-5
16	WASF2	1.29785	0.00561289
17	NEURL1	1.28481	2.28599E-4
18	LIMK2	1.2114	2.34736E-4
19	CHN1	1.20473	7.81584E-4
20	PLCG2	1.19	0.00731763
21	CDC42BPB	1.16052	1.8909E-4

Down Regulated genes

Number	Symbol	Exp Fold Change	Exp p-value
1	IL1B	-3.74371	5.55629E-10
2	CCL2	-3.41548	2.38816E-8
3	CXCL8	-2.91859	0.00718119
4	BDNF	-2.2454	3.22154E-4
5	GDF15	-1.82966	4.4335E-5
6	VEGFA	-1.74782	0.00154423
7	DAAM1	-1.6929	2.33055E-8
8	NGF	-1.68514	2.09892E-4
9	TM4SF1	-1.60547	2.45856E-4
10	RHOF	-1.60098	1.3485E-4
11	MYO10	-1.55431	4.9701E-6
12	NRG1	-1.5487	4.79405E-5
13	ITGA6	-1.46736	3.87133E-5
14	HTR7	-1.45507	4.83415E-5
15	PTK2	-1.44795	0.0079358
16	LCP2	-1.42448	9.43781E-5
17	PACSIN1	-1.41945	0.0032234
18	HGF	-1.40635	2.09902E-4
19	PAK7	-1.37103	0.00589045
20	ICAM5	-1.37087	5.12886E-4
21	KNG1	-1.32215	0.00156674
22	FGF2	-1.31569	4.50725E-4
23	EPHX2	-1.28944	0.00431031
24	PPP1R9A	-1.2724	0.00222753
25	EZR	-1.25889	0.00796023
26	MIEN1	-1.2349	4.70729E-4
27	MYO3B	-1.21343	0.00595588
28	CYR61	-1.21306	0.00539672
29	PTEN	-1.20912	1.65806E-4
30	PPP1R9B	-1.20867	1.85981E-4
31	FGD3	-1.1831	0.00464527
32	PI4KB	-1.167	0.0056387
33	NINJ1	-1.14059	0.00172534
34	IQUB	-1.09258	0.00454985

Supplemental Table 3: Dexamethasone regulation of genes associated in diseases and functions involving permeability

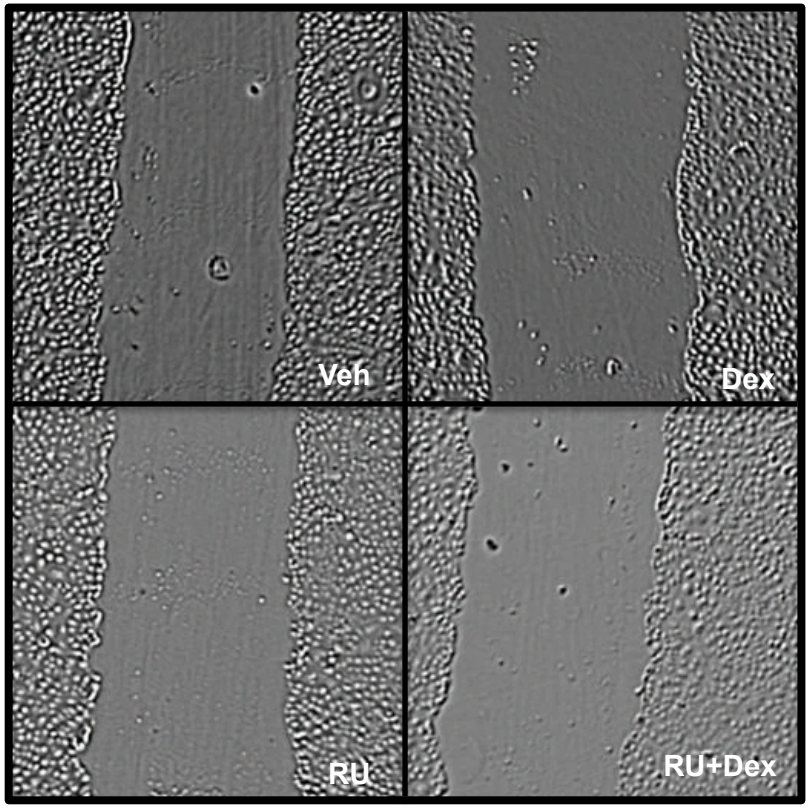
Up regulated genes

Number	Symbol	Exp Fold Change	Exp p-value
1	PRKG1	3.7749	6.92117E-6
2	PTGS2	3.6601	1.36906E-7
3	PLAT	3.26515	4.79017E-10
4	SERPINE1	1.89231	3.58885E-4
5	ESAM	1.8895	0.00801538
6	DMD	1.70442	0.00270604
7	KDR	1.69116	0.00165353
8	PRSS8	1.68866	9.35401E-4
9	CRHR2	1.44213	0.00886579
10	PXN	1.37578	0.00947868
11	TNFRSF1A	1.34708	0.00590279
12	CAV1	1.27821	0.00130795
13	ATF2	1.26929	0.00450945
14	GADD45A	1.23381	0.0017302
15	MAPK7	1.14122	0.00994044
16	SELP	1.06242	0.00398049

Down Regulated genes

Number	Symbol	Exp Fold Change	Exp p-value
1	IL1B	-3.74371	5.55629E-10
2	TRPC4	-3.47622	3.55485E-11
3	CXCL8	-2.91859	0.00718119
4	PLAU	-2.90533	3.11871E-8
5	NPPB	-2.41923	4.53185E-8
6	CCL3	-2.2262	2.02315E-6
7	F3	-2.05004	1.14942E-5
8	BDKRB2	-1.96909	6.87957E-7
9	CLDN1	-1.95484	7.20329E-5
10	VEGFA	-1.74782	0.00154423
11	NGF	-1.68514	2.09892E-4
12	VEGFC	-1.67461	1.85824E-7
13	PTX3	-1.65079	4.19167E-6
14	MMP2	-1.48914	0.00839088
15	LDLR	-1.48242	1.73334E-4
16	FGFBP3	-1.426	0.00671407
17	AQP1	-1.4135	8.56015E-4
18	ICAM1	-1.40688	1.17318E-5
19	ADORA3	-1.39827	7.81538E-5
20	CXCL2	-1.38857	0.00781852
21	DTNA	-1.38237	3.66917E-4
22	TNFRSF12A	-1.34406	0.00158715
23	KNG1	-1.32215	0.00156674
24	FGF2	-1.31569	4.50725E-4
25	PIK3CG	-1.31388	7.96332E-4
26	OCLN	-1.25226	0.00164081
27	RAG1	-1.2303	0.00748632
28	PTEN	-1.20912	1.65806E-4
29	ANXA1	-1.19311	0.00565486
30	TAC1	-1.18419	4.62211E-4
31	NR3C1	-1.16742	0.00917959
32	IQUB	-1.09258	0.00454985
33	AQP4	-1.08643	0.00423764
34	PECAM1	-1.06057	6.55198E-4

Supplemental Movie:



Movie of real-time wound healing of treated HCE cells over a period of 18 hours post wounding. Treatments were with vehicle (top left), 1000nM Dex (top right), 10uM RU486 (bottom left) and RU + Dex (bottom right).