Fig1

A

CN	CN+5uMDex	CN+10uMDe	CN+20uMDex
0.838	0.615	0.731	0.522
0.789	0.673	0.724	0.592
0.819	0.616	0.728	0.504
0.841	0.621	0.738	0.551
1	0.733890215	0.872315	0.622911695
1	0.852978454	0.917617	0.750316857
1	0.752136752	0.888889	0.615384615
1	0.738406659	0.877527	0.655172414

B

CN	HR	HR+5uMDex	HR+10uMDex	HR+20uMDex
0.836	0.423	0.466	0.615	0.499
0.838	0.43	0.546	0.673	0.42
0.819	0.475	0.536	0.598	0.433
0.841	0.49	0.575	0.63	0.385
1	0.505980861	0.557416	0.735645933	0.596889952
1	0.513126492	0.651551	0.803102625	0.501193317
1	0.57997558	0.654457	0.73015873	0.528693529
1	0.582639715	0.68371	0.749108205	0.457788347

C

CN	HR	HR+5uMDex	HR+10uMDex	HR+20uMDex
1.73166	3.568392	3.103008	2.407321	3.089796
1.97241	3.653406	3.223336	2.553735	3.071429
1.93981	3.664305	2.840474	2.538412	2.871429
1	2.060675848	1.791926	1.390180295	1.784296118
1	1.852251099	1.634209	1.294725651	1.557192861
1	1.889000068	1.464304	1.308586605	1.480261489

Fig2

A

CN	HR	HR+Dex
0.843	0.323	0.488
0.799	0.264	0.459
0.808	0.333	0.497
0.843	0.293	0.4
CN	HR	HR+Dex
1	0.383155397	0.578885
1	0.330413016	0.574468
1	0.412128713	0.615099
1	0.347568209	0.474496

B

CN	HR	HR+Dex
0.88424	1.611765	1.088696
0.871688	1.531765	1.182569
0.957958	1.465803	1.062009
1.005255	1.584974	1.117904
CN	HR	HR+Dex
1	1.822768705	1.231222
1	1.757239976	1.356643
1	1.530132845	1.108617
1	1.576688502	1.11206

C

Sirt1

CN	H/R	H/R+Dex
1	0.428008	0.890331
0.9999	0.469148	0.783715
1	0.460505	0.827708

FoxO3a

CN	H/R	H/R+Dex
1	0.466558	0.812612
1	0.47849	0.84786
1	0.486916	0.771669

D

BAX

CN	H/R	H/R+Dex
0.999986	1.630979	1.337122
0.999959	1.756879	1.204115
0.999977	1.545053	1.338164

BCL-2

CN	H/R	H/R+Dex
1.000001	0.53979	0.809726
0.999999	0.575266	0.860994
0.999999	0.592511	0.718087

BAX/BCL-2

CN	H/R	H/R+Dex
1.000001	2.852843	1.569483
0.999299	2.791891	1.43855
1	2.964844	1.411478

Cleared Caspase 3

CN	H/R	H/R+Dex
1.000001	0.53979	0.809726
0.999999	0.575266	0.860994
0.999999	0.592511	0.718087

E

Beclin-1

CN	H/R	H/R+Dex
1	1.666393	1.297831
1	1.780757	1.438083
1	1.601579	1.305145

P62

CN	H/R	H/R+Dex
1.000001	0.441171	0.750378
1.000012	0.585813	0.824782
0.999999	0.57871	0.744177

LC-3

CN	H/R	H/R+Dex
1	1.635637	1.140329
1	1.430461	1.263894
1	1.635699	1.319228

F

DHE

CN	HR	HR+Dex
12.532	39.489	25.625
15.321	21.321	17.583
8.456	36.304	23.358
18.408	36.981	10.731

G

MDA

CN	H/R	H/R+Dex
1.000003	2.139706	1.433824
0.999997	1.91129	1.322581
0.999998	2.244444	1.533333

H

TUNEL

CN	HR	HR+Dex
12	37	25
15	31	16
8	28	27
10	32	21
16	34	20

Fig3

A

CN	H/R	H/R+Dex	H/R+Dex+EX527
1.001	0.532946	0.748062	0.633721
1	0.466	0.86	0.622
1	0.472897	0.757009	0.497196
0.999	0.478516	0.791016	0.570313

B

CN	H/R	H/R+Dex	H/R+Dex+EX527
1.001	1.851	1.302	1.566
1	1.928	1.409	1.619
0.999	2.237	1.366	1.544
1	2.05	1.369	1.474
1	1.814	1.225	1.532
1	1.926	1.197	1.646
1	2.016	1.249	1.569
1	1.867	1.34	1.506
1	1.933	1.41	1.46

C

Sirt1

CN	H/R	H/R+Dex	H/R+Dex+EX527
1.0001	0.475049	0.815985	0.324628
0.9998	0.598889	0.815985	0.355726
1	0.563526	0.783918	0.379768

FoxO3a

CN	H/R	H/R+Dex	H/R+Dex+EX527
0.999994	0.549872	0.847842	0.315499
0.999985	0.589822	1.007793	0.427597
0.99999	0.672481	0.800929	0.374468

D

Bax

CN	H/R	H/R+Dex	H/R+Dex+EX527
1	1.756879	1.204115	1.57858
1	2.069199	1.338164	1.656594
1	1.8987	1.337122	1.508092

Bax/Bcl-2

CN	H/R	H/R+Dex	H/R+Dex+EX527
1	2.049596	1.411478	1.810901
1.0001	2.321661	1.333671	2.079661
1	2.53488	1.37421	1.948351

Bcl-2

CN	H/R	H/R+Dex	H/R+Dex+EX527
1.001	0.433856	0.853118	0.654791
0.999	0.349448	0.8725233	0.521025

Cleared Caspase-3

CN	H/R	H/R+Dex	H/R+Dex+EX527
1.000003	1.729115	1.245072	1.401916
1.000001	1.850363	1.332085	1.59364

1	0.375465	0.891944	0.480551	1.000002	1.741306	1.184536	1.488881

E

Beclin-1

CN	H/R	H/R+Dex	H/R+Dex+EX527
1	1.956451	1.209302	1.653143
1	1.835222	1.325275	1.573435
1	2.15752	1.247677	1.596317

LC-3

CN	H/R	H/R+Dex	H/R+Dex+EX527
1.001	1.923853	1.405261	1.705672
1	1.818049	1.528803	1.709948
0.999	2.066299	1.510884	1.646393

p62

CN	H/R	H/R+Dex	H/R+Dex+EX527
1.00005	0.453959	0.873571	0.572094
1.00003	0.347744	0.836198	0.552582
1	0.304238	0.865316	0.660331

F

DHE

CN	H/R	H/R+Dex	H/R+Dex+EX527
14.526	35.765	14.321	33.321
17.257	34.564	20.564	49.56
9.153	47.321	23.245	32.471
19.342	40.643	28.432	35.213

G

MDA

CN	H/R	H/R+Dex	H/R+Dex+EX527
1.000002	2.12	1.384	1.536
0.999999	1.834711	1.347107	1.561983
0.999998	1.914063	1.265625	1.671875

H

Tunel

CN	H/R	H/R+Dex	H/R+Dex+EX527
12	35	25	38
4	32	26	42
11	41	32	31
9	30	29	36
18	43	20	36

Fig4

A

CN	CN+NC siRNA	CN+siRNA1	CN+siRNA3	CN+siRNA4
1.00001	1.093554	0.795248	0.556079	0.377818
1.0005	1.077244	0.789038	0.563585	0.489851
1	1.061605	0.887958	0.637553	0.382926

B

CN	H/R	H/R+Dex	H/R+Dex+siRNA4
1.0001	0.398818	0.855244	0.446086
0.9999	0.465686	0.772876	0.566993
1.0003	0.439394	0.748485	0.49697
1.0002	0.366812	0.819505	0.513828
0.9998	0.439759	0.728916	0.549699

C

CN	H/R	H/R+Dex	H/R+Dex+siRNA4
1.0001	1.83613	1.286278	1.625864
0.9997	2.096878	1.371367	1.659849
1.0002	1.755941	1.243144	1.579525
0.9999	1.970348	1.399796	1.546012

D

Sirt1

CN	H/R	H/R+Dex	H/R+Dex+siRNA4
1.000002	0.451948	0.850957	0.681371
1	0.418194	0.746993	0.682927
0.999999	0.363662	0.630574	0.739351

FoxO3a

CN	H/R	H/R+Dex	H/R+Dex+siRNA4
0.999977	0.510283	0.817957	0.468442
0.999996	0.635595	0.791124	0.382451
1.000002	0.569564	0.746686	0.325261

E

Bax

CN	H/R	H/R+Dex	H/R+Dex+siRNA4
1	1.938499	1.386731	1.682649
1	2.2051	1.24389	1.599
1	1.830433	1.291135	1.666315

Bax/Bcl-2

CN	H/R	H/R+Dex	H/R+Dex+siRNA4
1.0001	3.3757	1.550058	2.823536
0.9997	4.423548	1.581095	2.303968
1	3.375368	1.798343	2.750434

Bcl-2

CN	H/R	H/R+Dex	H/R+Dex+siRNA4
1	0.731784	1.031888	0.702187
1	0.619774	0.883832	0.572312
1	0.770589	0.994449	0.802435

Cleared Caspase-3

CN	H/R	H/R+Dex	H/R+Dex+siRNA4
0.999991	1.79396	1.159084	1.455766
1.000002	1.811868	1.033918	1.488881
1.000001	1.585313	1.001935	1.305379

F

Beclin-1

CN	H/R	H/R+Dex	H/R+Dex+siRNA4
1	1.888767	1.21493	1.641953
1	1.943666	1.239061	1.660169
1	2.164812	1.354029	1.79925

LC-3

CN	H/R	H/R+Dex	H/R+Dex+siRNA4
0.9999	1.418846	0.896551	1.339071
1.0002	1.443618	1.005863	1.333529
1	1.392945	0.826024	1.292812

p62

CN	H/R	H/R+Dex	H/R+Dex+siRNA4
1	0.507213	0.921959	0.460643
1	0.597189	0.93886	0.515664
1	0.67998	1.093263	0.457175

G

DHE

CN	H/R	H/R+Dex	H/R+Dex+siRNA4
14.235	35.389	24.573	32.478
3.542	36.378	25.398	28.752
8.368	44.256	16.654	46.57
18.209	41.256	31.452	42.129
12.503	39.581	27.83	36.861

H

CN	H/R	H/R+Dex	H/R+Dex+siRNA4
1.000001	1.760181	1.303167	1.303167
0.9999	1.995763	1.279661	1.279661
1.000001	2.087336	1.331878	1.331878

I

CN	H/R	H/R+Dex	H/R+Dex+siRNA4
17	44	24	32
6	32	16	43
10	40	29	39
8	39	28	37

Fig5

A

CN	H/R	H/R+Dex	H/R+siRNA4	H/R++Dex+siRNA4	H/R++Dex+siRNA4+EX527

1.001	0.255	0.47	0.187	0.262	0.191
0.999	0.316	0.523	0.175	0.388	0.225
1	0.376	0.601	0.195	0.295	0.247
1	0.337	0.364	0.184	0.27	0.141
1	0.298	0.302	0.213	0.343	0.226
1	0.383	0.38	0.12	0.353	0.215

B

CN	H/R	H/R+Dex	H/R+siRNA4	H/R++Dex+siRNA4	H/R++Dex+siRNA4+EX527
1.001	1.308	1.082	1.654	1.124	1.517
1	1.27	0.924	1.508	1.219	1.423
0.999	1.214	1.02	1.633	1.18	1.477
1	1.224	1.034	1.637	1.161	1.379

C

CN	H/R	H/R+Dex	H/R+siRNA4	H/R+Dex+siRNA4	H/R++Dex+siRNA4+EX527
0.999	1.424604	0.967475	1.756058	1.307822	1.66722
1	1.39154	0.900298	1.635532	1.343966	1.624082
0.999	1.387272	0.875387	1.545269	1.255381	1.547616

D

Sirt1

CN	H/R	H/R+Dex	H/R+siRNA4	H/R++Dex+siRNA4	H/R++Dex+siRNA4+EX527
1	0.562162	0.948506	0.500319	0.898806	0.576245
1.0001	0.558971	0.874705	0.647835	0.830935	0.593188
0.9999	0.514613	0.90591	0.612585	0.865716	0.481935

Fox03a

CN	H/R	H/R+Dex	H/R+siRNA4	H/R++Dex+siRNA4	H/R++Dex+siRNA4+EX527
1	0.522893	0.946826	0.380226	0.666774	0.33852
1.0001	0.63795	0.846617	0.41526	0.617719	0.368418
1.00001	0.532877	0.915986	0.414866	0.662402	0.418426

Fig6

A

Sham	I/R	I/R+Dex	I/R+Dex+EX527
0	53	40	55
0	56	38	57
0	51	43	54
0	54	42	56

B

LVEF

Sham	I/R	I/R+Dex	I/R+Dex+EX527
91.42	71.073	82.54	68.741
94.762	70.68	81.23	67.795
93.541	68.385	83.352	63.433
92.531	67.046	81.374	66.678

B

LVFS

Sham	I/R	I/R+Dex	I/R+Dex+EX527
63.215	41.602	48.521	30.439
70.212	38.353	48.454	35.552
68.231	36.273	47.431	33.631
63.304	37.743	46.145	34.307

C

LDH

Sham	I/R	I/R+Dex	I/R+Dex+EX527
1	3.69675738	2.6000074	3.53042027
1	3.224058497	2.5343564	3.3296911
1	2.967229556	2.6090492	2.780106971
1	2.862710537	2.313172	3.000759388
1	3.5786534	2.467847	2.98134754
1	3.3596235	2.5911623	3.08145234
1	3.0438813	2.3432457	3.17968964
1	3.4532456	2.5673214	2.8561234

D

Sirt1

Sham	I/R	I/R+Dex	I/R+Dex+EX527
0.999996	0.333798	1.24166	0.527468
1.00001	0.4818	1.131051	0.642419
1.000089	0.380674	1.369406	0.542792

Fox03a

Sham	I/R	I/R+Dex	I/R+Dex+EX527
1.0001	0.319101	2.889904	1.385049
0.9998	0.334005	2.332895	1.121909
1.0002	0.401749	2.714102	1.789731

E

Bax

Sham	I/R	I/R+Dex	I/R+Dex+EX527
0.999	1.7832	1.369	1.73
1.003	1.9124	1.257	1.6509
1	2.13851	1.4072	1.8921

Bax/Bcl-2

Sham	I/R	I/R+Dex	I/R+Dex+EX527
1	3.049596	1.311478	1.903
1.0001	2.921661	1.432	2.031
1	2.63488	1.381	1.981

Bcl-2

Sham	I/R	I/R+Dex	I/R+Dex+EX527
1.001	0.4724	0.842557	0.606287
0.999	0.4952	0.8392592	0.543789
1	0.375	0.891944	0.580551

Cleared Caspase-3

Sham	I/R	I/R+Dex	I/R+Dex+EX527
0.999991	1.99396	1.365794	1.455766
1.000002	1.811868	1.225161	1.595138
1.000001	1.734673	1.302636	1.617049

F

Beclin-1

Sham	I/R	I/R+Dex	I/R+Dex+EX527
1	1.94616	1.235716	1.677984
1	1.866081	1.339519	1.719483
1	2.012088	1.316353	1.567087

LC-3

Sham	I/R	I/R+Dex	I/R+Dex+EX527
1	1.91158	1.369858	1.636738
1	1.820449	1.203203	1.524627
1	1.995713	1.377135	1.547231

p62

Sham	I/R	I/R+Dex	I/R+Dex+EX527
1.001	0.424568	0.774526	0.632559
0.999	0.408439	0.883165	0.515664
1	0.358103	0.879804	0.657175