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Supplementary Data

Supplementary Data 1. The statistical description and statistical results in Figure 1.

	Control	PE	P value
Fig. 1B1 (n = 15 per group)	0.377 ± 0.365	0.668 ± 0.326	0.034
Fig. 1B2 (n = 14 per group)	1.107 ± 0.844	0.554 ± 0.196	0.000
Fig. 1B3 (n = 15 per group)	1.040 ± 0.362	0.504 ± 0.363	0.001
Fig. 1C (n = 34 per group)	5.820 (3.898 – 7.803)	13.805 (10.695 – 17.695)	<0.001
Fig. 1D (n = 34 per group)	139.490 (118.860 – 153.075)	41.795 (22.643 – 67.673)	<0.001
Fig. 1E (n = 34 per group)	124.890 (110.325 – 137.280)	61.220 (41.623 – 83.203)	<0.001
Fig. 1F (n = 34 per group)	3.425 (2.215 – 4.253)	10.965 (8.420 – 13.058)	<0.001
Fig. 1K (n = 72 per group)	21.377 (6.620 – 30.229)	33.857 (24.949 – 40.840)	<0.001
Fig. 1L (n = 72 per group)	87.756 (73.125 – 104.517)	51.674 (44.075 – 59.438)	<0.001
Fig. 1M (n = 72 per group)	31.212 (15.114 – 46.174)	83.942 (79.718 – 88.336)	<0.001
Fig. 1N (n = 72 per group)	133.865 (80.453 – 151.110)	1335.615 (1150.203 – 1600.430)	<0.001
Fig. 1O (n = 72 per group)	759.375 (612.195 – 905.830)	146.465 (122.415 – 222.688)	<0.001

Note: Normally distributed quantitative data were presented as means ± SD and were analyzed by Students t-test; otherwise, they were expressed as median and 25–75% quartiles and were analyzed by the Mann-Whitney U test and $P < 0.05$ was considered to indicate a statistically significant difference.

Supplementary Data 2. The statistical description and statistical results in Figure 2.

	Sham	Erastin	P value
Fig. 2B1 (n = 8 in Sham, n = 9 in Erastin)	102.500 (98.000 – 113.000)	120.000 (115.000 – 127.000)	<0.001
Fig. 2B2 (n = 8 in Sham, n = 9 in Erastin)	71.000 (61.750 – 75.750)	75.000 (69.000 – 80.000)	0.010
Fig. 2C (n = 7 in Sham, n = 5 in Erastin)	0.459 (0.452 – 0.473)	0.973 (0.880 – 1.028)	0.003
Fig. 2D (n = 40 in Sham, n = 63 in Erastin)	1.500 (1.400 – 1.500)	1.300 (1.200 – 1.500)	<0.001
Fig. 2F (n = 40 in Sham, n = 63 in Erastin)	0.460 (0.419 – 0.579)	0.320 (0.285 – 0.365)	<0.001
Fig. 2G1 (n = 18 per group)	0.690 ± 0.263	1.074 ± 0.228	<0.001
Fig. 2G2 (n = 12 per group)	1.080 ± 0.128	0.881 ± 0.281	0.041
Fig. 2G3 (n = 18 per group)	0.695 ± 0.262	1.104 ± 0.223	<0.001
Fig. 2H (n = 5 in Sham, n = 6 in Erastin)	1.668 (1.521 – 2.020)	3.409 (2.745 – 3.856)	0.009
Fig. 2I (n = 5 in Sham, n = 6 in Erastin)	157.038 (97.038 – 173.606)	59.221 (57.555 – 64.865)	0.004
Fig. 2J (n = 5 in Sham, n = 6 in Erastin)	166.692 (121.494 – 253.020)	96.057 (70.263 – 127.063)	0.030
Fig. 2K (n = 8 in Sham, n = 6 in Erastin)	29.910 (10.315 – 40.068)	75.270 (68.288 – 85.518)	0.001
Fig. 2L (n = 8 in Sham, n = 6 in Erastin)	35.956 (30.823 – 38.503)	14.937 (12.194 – 17.445)	0.001
Fig. 2M (n = 8 in Sham, n = 6 in Erastin)	90.714 (48.304 – 115.491)	149.196 (135.357 – 169.509)	0.001
Fig. 2N (n = 8 in Sham, n = 6 in Erastin)	22.213 (16.415 – 23.090)	34.633 (23.223 – 37.080)	0.003
Fig. 2P (n = 3 per group)	1867.414 ± 132.731	1288.515 ± 167.319	0.009

Note: Normally distributed quantitative data were presented as means ± SD and were analyzed by Students t-test; otherwise, they were expressed as median and 25–75% quartiles and were analyzed by the Mann-Whitney U test and $P < 0.05$ was considered to indicate a statistically significant difference.

Supplementary Data 3. The statistical description and statistical results in Figure 3.

	Erastin	Erastin + QCT	P value		
Fig. 3C (n = 3 per group)					
Erastin 24h vs Erastin 24h + QCT 3μM 48h	50.174 ± 1.891	100.064 ± 1.879	<0.001		
Erastin 24h vs Erastin 24h + QCT 5μM 48h	50.174 ± 1.891	104.209 ± 4.997	0.001		
Fig. 3D (n = 3 per group)					
Erastin 24h vs QCT 1μM 24h + Erastin 24h	56.171 ± 2.132	95.441 ± 2.703	<0.001		
Erastin 24h vs QCT 3μM 24h + Erastin 24h	56.171 ± 2.132	95.938 ± 5.320	<0.001		
	Control	Erastin	Erastin + QCT	P value	
				Control vs Erastin	Erastin vs Erastin + QCT
Fig. 3F (n = 3 per group)	2.122 ± 0.891	19.568 ± 1.487	2.821 ± 1.044	<0.001	<0.001
Fig. 3G					
ACSL4 (n = 4 per group)	0.743 ± 0.126	1.120 ± 0.148	0.850 ± 0.098	0.008	0.023
GPX4 (n = 5 per group)	0.925 ± 0.082	0.748 ± 0.118	0.977 ± 0.153	0.025	0.029
SLC7A11 (n = 3 per group)	1.506 ± 0.356	0.869 ± 0.173	1.333 ± 0.194	0.049	0.037
Fig. 3H (n = 3 per group)					
IL-6	1.000 ± 0.231	4.615 ± 0.063	1.559 ± 0.047	<0.001	0.002
IL-10	1.000 ± 0.041	0.287 ± 0.012	1.442 ± 0.015	<0.001	<0.001
TNF-α	1.000 ± 0.059	3.372 ± 0.060	0.814 ± 0.008	<0.001	<0.001
Fig. 3J (n = 3 per group)	25.529 ± 0.945	46.726 ± 2.299	22.910 ± 1.558	<0.001	<0.001
Fig. 3L (n = 3 per group)	4.029 ± 0.130	1.342 ± 0.022	3.020 ± 0.074	0.001	<0.001

Note: The means and standard deviations were used for statistical description, statistic test was done with Students t-test and P < 0.05 was considered to indicate a statistically significant difference.

Supplementary Data 4. The statistical description and statistical results in Figure 4.

	Control	Erastin	Erastin + QCT	<i>P</i> value	
				Control vs Erastin	Erastin vs Erastin + QCT
Fig. 4A2 (n = 4 per group)	100.000 ± 0.000	151.778 ± 15.815	104.609 ± 11.773	0.007	0.003
Fig. 4C (n = 3 per group)	12.091 ± 0.380	3.036 ± 0.385	6.761 ± 0.316	<0.001	<0.001
Fig. 4D1 (n = 3 per group)	51.682 ± 2.856	9.833 ± 0.717	26.173 ± 4.490	0.001	0.003
Fig. 4D2 (n = 3 per group)	76.073 ± 1.773	38.645 ± 0.173	75.834 ± 1.964	0.001	<0.001

Note: The means and standard deviations were used for statistical description, statistic test was done with Students t-test and $P < 0.05$ was considered to indicate a statistically significant difference.

Supplementary Data 5. The statistical description and statistical results in Figure 5.

	Control	QCT	<i>P</i> value
Fig. 5H			
(n = 6 per group)			
37	0.974 (0.912 – 1.083)	1.069 (0.871 – 1.145)	0.818
41	0.717 (0.713 – 0.722)	1.106 (0.848 – 1.153)	0.009
45	0.579 (0.498 – 0.670)	0.929 (0.781 – 0.987)	0.002
49	0.422 (0.366 – 0.517)	0.716 (0.649 – 0.777)	0.009
53	0.454 (0.361 – 0.542)	0.793 (0.664 – 0.821)	0.009
57	0.373 (0.323 – 0.531)	0.673 (0.534 – 0.793)	0.065

Note: The median and 25–75% quartiles were used for statistical description, statistic test was done with Mann-Whitney U test and $P < 0.05$ was considered to indicate a statistically significant difference.

Supplementary Data 6. The statistical description and statistical results in Figure 6.

	si-NC	si-NC + Erastin	si-NC + Erastin + QCT	si-EGFR	si-EGFR + Erastin	si-EGFR + Erastin + QCT	<i>P</i> value			
							si-NC vs si-NC + Erastin	si-NC + Erastin vs si-NC + Erastin + QCT	si-EGFR vs si-EGFR + Erastin	si-EGFR + Erastin vs si-EGFR + Erastin + QCT
Fig. 6A (n = 6 per group)	0.341 ± 0.181	4.239 ± 0.610	1.140 ± 0.375	1.545 ± 0.386	6.422 ± 0.646	1.796 ± 0.404	<0.001	<0.001	<0.001	<0.001
Fig. 6B (n = 6 per group)	22.816 ± 1.204	31.260 ± 0.874	24.000 ± 1.184	26.213 ± 0.729	45.063 ± 2.125	44.874 ± 1.441	<0.001	<0.001	<0.001	0.860
Fig. 6C (n = 6 per group)	28.214 ± 2.477	6.572 ± 1.231	21.264 ± 1.622	7.101 ± 0.593	2.156 ± 0.228	2.218 ± 0.256	<0.001	<0.001	<0.001	0.670
Fig. 6D (n = 6 per group)	42.619 ± 0.879	25.532 ± 1.902	37.618 ± 0.913	32.290 ± 0.907	24.514 ± 1.565	24.883 ± 2.762	<0.001	<0.001	<0.001	0.783
Fig. 6E (n = 6 per group)	47.629 ± 3.616	24.590 ± 1.980	45.622 ± 2.142	46.564 ± 3.455	25.463 ± 3.795	25.473 ± 2.194	<0.001	<0.001	<0.001	0.995
Fig. 6F (n = 6 per group)	91.076 ± 3.024	46.724 ± 1.923	82.660 ± 3.040	87.291 ± 4.473	39.060 ± 4.358	37.592 ± 6.337	<0.001	<0.001	<0.001	0.650
Fig. 6G1 (n = 3 per group)	0.860 ± 0.044	1.035 ± 0.059	0.870 ± 0.042	/	/	/	0.015	0.017	/	/
Fig. 6G2 (n = 3 per group)	0.269 ± 0.008	0.419 ± 0.035	0.264 ± 0.064	/	/	/	0.002	0.022	/	/
Fig. 6G3 (n = 3 per group)	0.890 ± 0.123	1.165 ± 0.094	0.910 ± 0.070	0.680 ± 0.043	0.925 ± 0.016	1.010 ± 0.103	0.037	0.019	0.001	0.290
Fig. 6G4 (n = 3 per group)	1.137 ± 0.162	0.874 ± 0.146	0.969 ± 0.114	1.081 ± 0.192	0.711 ± 0.133	0.711 ± 0.137	0.105	0.426	0.052	0.997
Fig. 6G5 (n = 3 per group)	1.227 ± 0.076	0.713 ± 0.058	1.111 ± 0.053	1.076 ± 0.093	0.788 ± 0.062	0.796 ± 0.061	0.001	0.001	0.011	0.881

Note: The means and standard deviations were used for statistical description, statistic test was done with Students t-test and $P < 0.05$ was considered to indicate a statistically significant difference.

Supplementary Data 7. The statistical description and statistical results in Figure 7.

	Sham	sRUPP	sRUPP + Fer-1	sRUPP + QCT	P value		
					Sham vs sRUPP	sRUPP vs sRUPP + Fer-1	sRUPP vs sRUPP + QCT
Fig. 7B1 (n = 8 in Sham, n = 10 in sRUPP, n = 6 in sRUPP + Fer-1, n = 8 in sRUPP + QCT)	102.500 (98.000 – 113.000)	152.000 (144.000 – 162.000)	108.500 (103.750 – 119.000)	110.500 (101.250 – 116.750)	<0.001	<0.001	<0.001
Fig. 7B2 (n = 8 in Sham, n = 10 in sRUPP, n = 6 in sRUPP + Fer-1, n = 8 in sRUPP + QCT)	71.000 (61.750 – 75.750)	110.000 (100.000 – 120.000)	84.000 (80.750 – 87.500)	81.000 (70.500 – 83.750)	<0.001	<0.001	<0.001
Fig. 7C (n = 7 in Sham, n = 7 in sRUPP, n = 6 in sRUPP + Fer-1, n = 8 in sRUPP + QCT)	0.459 (0.443 – 0.533)	0.974 (0.855 – 1.297)	0.543 (0.427 – 0.652)	0.530 (0.473 – 0.605)	0.001	0.001	<0.001
Fig. 7E (n = 74 in Sham, n = 52 in sRUPP, n = 24 in sRUPP + Fer-1, n = 51 in sRUPP + QCT)	23.217 (19.283 – 26.935)	8.646 (4.239 – 14.434)	19.458 (14.419 – 23.209)	22.800 (19.219 – 27.508)	<0.001	<0.001	<0.001

Note: The median and 25–75% quartiles were used for statistical description, statistic test was done with Mann-Whitney U test and $P < 0.05$ was considered to indicate a statistically significant difference.

Supplementary Data 8. The statistical description and statistical results in Figure 8.

	Sham	sRUPP	sRUPP + Fer-1	sRUPP + QCT	<i>P</i> value		
					Sham vs sRUPP	sRUPP vs sRUPP + Fer-1	sRUPP vs sRUPP + QCT
Fig. 8A1 (n = 8 per group)	0.587 ± 0.219	0.962 ± 0.183	0.735 ± 0.135	0.526 ± 0.240	0.002	0.013	0.001
Fig. 8A2 (n = 9 per group)	1.101 ± 0.341	0.808 ± 0.226	1.036 ± 0.140	1.145 ± 0.327	0.048	0.023	0.022
Fig. 8A3 (n = 11 per group)	0.728 ± 0.329	0.462 ± 0.249	0.970 ± 0.403	0.785 ± 0.291	0.045	0.002	0.011
Fig. 8B (n = 7 in Sham, n = 7 in sRUPP, n = 5 in sRUPP + Fer-1, n = 5 in sRUPP + QCT)	1.471 (1.285 – 1.926)	3.827 (2.074 – 4.080)	1.882 (1.344 – 2.362)	1.465 (1.075 – 1.810)	0.006	0.028	0.012
Fig. 8C (n = 7 in Sham, n = 7 in sRUPP, n = 5 in sRUPP + Fer-1, n = 5 in sRUPP + QCT)	157.038 (102.356 – 161.721)	66.875 (57.221 – 70.952)	142.067 (111.216 – 151.630)	156.164 (116.255 – 161.159)	0.002	0.004	0.004
Fig. 8D (n = 7 in Sham, n = 7 in sRUPP, n = 5 in sRUPP + Fer-1, n = 5 in sRUPP + QCT)	166.692 (154.001 – 233.550)	78.159 (54.575 – 112.187)	128.891 (86.630 – 210.755)	164.006 (92.834 – 193.623)	0.006	0.088	0.042
Fig. 8E (n = 7 in Sham, n = 9 in sRUPP, n = 6 in sRUPP + Fer-1, n = 8 in sRUPP + QCT)	31.486 (10.315 – 40.946)	88.333 (73.468 – 102.973)	49.324 (40.653 – 60.068)	35.766 (35.203 – 50.856)	0.001	0.002	0.001
Fig. 8F (n = 7 in Sham, n = 10 in sRUPP, n = 6 in sRUPP + Fer-1, n = 8 in sRUPP + QCT)	30.470 (27.179 – 32.821)	9.436 (6.928 – 12.453)	38.621 (26.748 – 41.050)	37.837 (35.212 – 40.384)	0.001	0.001	<0.001
Fig. 8G (n = 7 in Sham, n = 9 in sRUPP, n = 6 in sRUPP + Fer-1, n = 8 in sRUPP + QCT)	64.089 (28.375 – 89.089)	175.089 (145.625 – 204.107)	111.339 (99.152 – 126.563)	49.821 (48.705 – 79.732)	0.001	0.003	0.001
Fig. 8H (n = 8 in Sham, n = 9 in sRUPP, n = 6 in sRUPP + Fer-1, n = 8 in sRUPP + QCT)	11.996 (10.910 – 14.669)	37.133 (33.303 – 38.702)	19.019 (16.007 – 21.013)	19.311 (18.168 – 21.067)	0.001	0.001	0.001
Fig. 8J (n = 3 per group)	1591.036 ± 123.249	1094.304 ± 128.892	1314.659 ± 96.601	1475.257 ± 170.047	0.008	0.077	0.036

Note: Normally distributed quantitative data were presented as means ± SD and were analyzed by Students t-test; otherwise, they were expressed as median and 25–75% quartiles and were analyzed by the Mann-Whitney U test and *P* < 0.05 was considered to indicate a statistically significant difference.

Supplementary Data 9. The statistical description and statistical results in Supplementary

Figure 1.

	Sham	Erastin	<i>P</i> value
Supplementary Fig. 1B (n = 32 in Sham, n = 39 in Erastin)	24.619 (22.739 – 28.325)	8.772 (6.784 – 13.675)	<0.001
Supplementary Fig. 1D (n = 6 per group)	1.000 (0.975 – 1.000)	0.889 (0.862 – 0.958)	0.021
Supplementary Fig. 1F (n = 51 in Sham, n = 89 in Erastin)	3.600 (3.200 – 3.700)	2.000 (1.800 – 2.300)	<0.001
Supplementary Fig. 1G (n = 51 in Sham, n = 89 in Erastin)	3.980 (3.599 – 4.114)	0.794 (0.746 – 1.264)	<0.001

Note: The median and 25–75% quartiles were used for statistical description, statistic test was done with Mann-Whitney U test and $P < 0.05$ was considered to indicate a statistically significant difference.

Supplementary Data 10. The statistical description and statistical results in Supplementary Figure 3.

	Control	QCT	<i>P</i> value
Supplementary Fig. 3 (n = 6 per group)	100.000 ± 18.328	112.829 ± 28.819	0.379

Note: The means and standard deviations were used for statistical description, statistic test was done with Students t-test and $P < 0.05$ was considered to indicate a statistically significant difference.

Supplementary Data 11. The statistical description and statistical results in Supplementary Figure 4.

	Control	QCT	<i>P</i> value
Supplementary Fig. 4B (n = 5 per group)			
37	1.110 (0.653 – 1.292)	1.047 (0.868 – 1.109)	0.690
41	1.034 (0.701 – 1.546)	0.561 (0.365 – 1.011)	0.151
45	0.760 (0.561 – 1.316)	1.050 (0.878 – 1.525)	0.222
49	0.404 (0.268 – 0.749)	0.772 (0.533 – 1.115)	0.151
53	0.336 (0.229 – 0.372)	0.436 (0.317 – 1.174)	0.222
57	0.175 (0.112 – 0.243)	0.426 (0.314 – 0.902)	0.016

Note: The median and 25–75% quartiles were used for statistical description, statistic test was done with Mann-Whitney U test and $P < 0.05$ was considered to indicate a statistically significant difference.

Supplementary Data 12. The statistical description and statistical results in Supplementary Figure 5.

	si-NC	si-EGFR ^{#1}	si-EGFR ^{#2}	si-EGFR ^{#3}	<i>P</i> value		
					si-NC vs si-EGFR ^{#1}	si-NC vs si-EGFR ^{#2}	si-NC vs si-EGFR ^{#3}
Supplementary Fig. 5A (n = 3 per group)	1.000 ± 0.045	1.326 ± 0.551	0.369 ± 0.148	1.151 ± 0.148	0.414	0.012	0.213
Supplementary Fig. 5C (n = 3 per group)	0.892 ± 0.090	0.935 ± 0.132	0.610 ± 0.139	0.944 ± 0.153	0.663	0.042	0.637

Note: The means and standard deviations were used for statistical description, statistic test was done with Students t-test and $P < 0.05$ was considered to indicate a statistically significant difference.

Supplementary Data 13. The statistical description and statistical results in Supplementary

Figure 7.

	Sham	sRUPP	sRUPP + Fer-1	sRUPP + QCT	<i>P</i> value		
					Sham vs sRUPP	sRUPP vs sRUPP + Fer-1	sRUPP vs sRUPP + QCT
Supplementary Fig. 7B (n = 6 in Sham, n = 6 in sRUPP, n = 5 in sRUPP + Fer-1, n = 6 in sRUPP + QCT)	1.000 (0.975 – 1.000)	0.738 (0.082 – 0.893)	0.950 (0.654 – 1.000)	0.714 (0.098 – 1.000)	0.013	0.140	0.684
Supplementary Fig. 7D (n = 51 in Sham, n = 37 in sRUPP, n = 43 in sRUPP + Fer-1, n = 38 in sRUPP + QCT)	3.600 (3.200 – 3.700)	2.500 (2.000 – 2.900)	2.500 (1.900 – 2.700)	2.700 (2.300 – 2.825)	<0.001	0.263	0.636
Supplementary Fig. 7E (n = 51 in Sham, n = 32 in sRUPP, n = 57 in sRUPP + Fer-1, n = 37 in sRUPP + QCT)	3.980 (3.599 – 4.114)	2.299 (1.001 – 2.534)	1.558 (1.325 – 2.210)	1.915 (1.534 – 2.386)	<0.001	0.317	0.456
Supplementary Fig. 7F (n = 40 in Sham, n = 15 in sRUPP, n = 36 in sRUPP + Fer-1, n = 17 in sRUPP + QCT)	1.500 (1.400 – 1.500)	1.400 (1.300 – 1.500)	1.300 (1.225 – 1.500)	1.300 (1.300 – 1.400)	0.023	0.381	0.267
Supplementary Fig. 7H (n = 40 in Sham, n = 15 in sRUPP, n = 28 in sRUPP + Fer-1, n = 16 in sRUPP + QCT)	0.460 (0.419 – 0.579)	0.391 (0.338 – 0.463)	0.378 (0.286 – 0.416)	0.350 (0.311 – 0.391)	<0.001	0.308	0.155

Note: The median and 25–75% quartiles were used for statistical description, statistic test was done with Mann-Whitney U test and $P < 0.05$ was considered to indicate a statistically significant difference.

Supplementary Data 14. The statistical description and statistical results in Supplementary

Figure 8.

	Sham	sRUPP	sRUPP + Fer-1	sRUPP + QCT	<i>P</i> value		
					Sham vs sRUPP	sRUPP vs sRUPP + Fer-1	sRUPP vs sRUPP + QCT
Supplementary Fig. 8B (n = 3 per group)							
EGFR	0.197 ± 0.037	0.337 ± 0.004	0.348 ± 0.010	0.292 ± 0.012	0.031	0.231	0.008
pEGFR	0.187 ± 0.039	0.344 ± 0.008	0.357 ± 0.004	0.296 ± 0.019	0.027	0.104	0.029

Note: The means and standard deviations were used for statistical description, statistic test was done with Students t-test and $P < 0.05$ was considered to indicate a statistically significant difference.