

CRE

Con	PS-NPs	Cur	NPs+Cur-L	NPs+Cur-M	NPs+Cur-H
0.2162545	0.2588364	0.1965091	0.2220364	0.191309091	0.198072727
0.2051636	0.2754545	0.2164727	0.2142545	0.217381818	0.199890909
0.2046725	0.2724546	0.2046484	0.2474326	0.199753645	0.201343655

CAT

Con	PS-NPs	Cur	NPs+Cur-L	NPs+Cur-M	NPs+Cur-H
106.95915	64.268341	98.602809	85.34407	83.46715888	92.8446952
106.95915	65.397657	100.73565	84.933762	89.00049543	93.59586588
109.25246	62.236357	103.25436	79.215375	85.23547568	94.35357458

SOD

Con	PS-NPs	Cur	NPs+Cur-L	NPs+Cur-M	NPs+Cur-H
48.527568	38.966652	49.516835	42.138536	43.79217618	49.91341001
47.319213	38.694538	49.081982	42.84534	42.32310302	48.27643159
48.769239	37.606085	47.922375	41.667334	43.85402985	47.97879916

TNF- α

Con	PS-NPs	Cur	NPs+Cur-L	NPs+Cur-M	NPs+Cur-H
265.02501	609.50579	157.7958	606.43815	586.49849	565.02501
241.2508	663.9564	163.93108	595.70141	588.79922	541.2508
253.13791	636.7311	160.86344	601.06978	587.648855	553.137905

MASSON

Con	PS-NPs	Cur	NPs+Cur-L	NPs+Cur-M	NPs+Cur-H
14.048	25.575	15.926	22.118	22.034	20.078
13.457	27.987	14.724	23.763	21.052	19.724
16.836	26.726	14.835	22.092	24.724	19.981
14.246	28.983	18.346	21.846	23.098	19.135
17.763	25.136	15.146	24.835	22.162	18.872
16.36	27.726	15.826	24.156	21.76	20.815
12.983	25.983	16.136	23.714	20.725	22.815
15.857	27.167	17.872	21.093	22.762	21.921
14.842	24.92	12.267	22.761	21.135	22.134
16.093	25.169	14.425	21.826	20.357	19.267
13.873	26.721	14.237	21.035	22.816	19.427

PCR

	Con	Con	Con	PS-NPs	PS-NPs	PS-NPs	
BAX		1	1	1	1.717622395	1.699876191	1.819675393

BCL-2	1	1	1	0.690668384	0.699158228	0.537389067
Caspase 3	1	1	1	1.82972067	1.608305141	1.670331637
Caspase 9	1	1	1	1.510367515	1.462018106	1.700224122
IKK	1	1	1	1.495284019	1.585428838	1.706576089
NF- κ B P6	1	1	1	1.73547659136	1.6341546555	1.887414601
IKB α	1	1	1	0.5237534	0.614458735	0.663135473
TNF- α	1	1	1	2.506722918	2.718092999	2.4746484
IL-1 β	1	1	1	1.5374545654	1.787436534	1.812458909
IL-6	1	1	1	1.84636612	1.96083366	2.050062518

WB

	Con	Con	Con	PS-NPs	PS-NPs	PS-NPs
BAX/BCL-2	1	1	1	2.02185499	1.517239353	2.147192424
CC3/C3	1	1	1	1.640240185	1.615005097	1.614419752
CC9/C9	1	1	1	1.155260836	1.262484748	1.25901809
P-PI3K/PI	1	1	1	2.798704374	2.9885118	3.168184293
P-AKT/AKT	1	1	1	1.26250606	1.324452284	1.469501152
P-IKK/IKK	1	1	1	1.341898838	1.569427882	1.459961269
p-IKB α /I	1	1	1	1.975540912	2.402863736	2.391270617
P-P65/P65	1	1	1	1.95272061	2.196706866	2.156571684
TNF α	1	1	1	1.38779607	1.271419937	1.201538924
IL-1 β	1	1	1	1.105199295	1.291025437	1.162076507
IL-6	1	1	1	1.194595144	1.190597556	1.258900857

BUN

Con	PS-NPs	Cur	NPs+Cur-L	NPs+Cur-M
5.087719298	7.257309942	5.432748538	6.614035088	6.128654971
5.438596491	7.666666667	4.959064327	6.789473684	6.304093567
5.438596491	7.783625731	4.900584795	7.081871345	6.713450292

GSH-PX

Con	PS-NPs	Cur	NPs+Cur-L	NPs+Cur-M
288.457492	193.4044312	282.1954071	203.5167848	248.4497659
274.4547011	180.7910987	292.2738144	213.8639479	240.2591143
277.2552593	187.097765	268.7575305	213.8639479	251.1799831

T-AOC

Con	PS-NPs	Cur	NPs+Cur-L	NPs+Cur-M
4.071289612	2.201381662	4.19037751	3.062737048	3.471658314
4.623534577	2.374341535	4.513343665	2.564364275	3.943475426
4.745245375	2.284543466	4.942135437	2.523536454	3.733254365

IL-1 β

Con	PS-NPs	Cur	NPs+Cur-L	NPs+Cur-M
760.22968	932.96596	213.43564	975.4354	690.80848
752.47084	1173.89836	199.95976	981.96916	767.1718
756.35026	1053.43216	206.6977	978.70228	728.99014

Kidney injury score

Con	PS-NPs	Cur	NPs+Cur-L	NPs+Cur-M
2	6	1	5	5
0	8	0	6	4
2	6	0	5	5
0	7	0	5	4
0	6	0	7	4
1	5	0	5	3
0	8	1	4	5
0	9	2	5	5
0	6	0	6	3
0	5	2	5	3
0	5	1	5	4

Cur	Cur	Cur	NPs+Cur-L	NPs+Cur-L	NPs+Cur-L
1.073804227	1.058547642	1.124860551	1.47052991	1.596410156	1.68147401

1.08562231	1.137742265	1.079371843	0.693291393	0.711475048	0.783724804
1.256573233	1.097372808	1.22884715	1.582005296	1.693439781	1.764877346
1.027224763	1.151416532	1.257982896	1.59480096	1.37337015	1.42030797
1.111428	1.3061895	1.2716381	1.596266	1.463673	1.5285864
1.423405635	1.2124731478	1.200076141	1.6469134671	1.4492175478	1.5347015709
0.967351235	0.9852546	1.024376352	0.802524372	0.752416458	0.814562462
1.2935453	1.393643	1.16619608	1.95215293	1.52084012	1.6571877
1.123318734	1.2834538768	1.1735163581	1.5453834893	1.6328670138	1.5680759639
1.296328003	1.304988577	1.423354295	1.531938224	1.81001274	1.765325786

Cur	Cur	Cur	NPs+Cur-L	NPs+Cur-L	NPs+Cur-L
1.17310791	1.191349993	1.357696364	1.90228375	1.643373341	1.985409572
0.618382796	0.9052699	0.988304699	1.648522406	1.573708425	1.375959712
1.073878186	1.152500059	0.867050817	1.080187008	1.026780177	0.934944716
0.814609606	0.971363292	0.713065797	1.670061973	1.936987895	1.7806091
1.126217851	1.097111736	1.166710769	1.5215995	1.233425272	1.426852086
1.066081981	0.970017614	0.878104433	1.255212038	0.950845551	0.933625608
1.078279227	1.078250753	1.61533918	2.28103211	1.623273847	2.31496707
1.697934363	1.653589499	1.422356114	2.1503179	2.157630995	1.903807092
0.976479842	1.146982202	1.095455454	1.186347864	1.274963243	1.077402702
1.123657456	1.08181739	1.060138527	1.196663798	1.070399527	1.182889441
0.99729426	1.058841427	0.8545893	1.161286523	1.17924251	1.21605432

AKP

NPs+Cur-H	Con	PS-NPs	Cur	NPs+Cur-L
6.608187135	337.4425263	577.3980439	359.0466886	450.771693
6.81754386	353.8136401	565.4736274	390.053949	461.6897387
6.51461988	345.2046923	560.5384382	374.1156376	488.7788539

MDA

NPs+Cur-H	Con	PS-NPs	Cur	NPs+Cur-L
276.8643054	17.30344872	21.89821108	17.47023933	18.88878087
247.6185168	17.01505791	23.36545536	15.91348533	19.73038958
258.4066851	19.3221844	21.758524	15.34594533	20.7894763

kim-1

NPs+Cur-H	Con	PS-NPs	Cur	NPs+Cur-L
4.700356815	101.2931	282.1565	119.6279	231.3151
4.934523424	127.5442	294.6587	96.7072	244.2314
4.654345265	133.7953	268.8261	107.1257	268.8173

IL-6

NPs+Cur-H	Con	PS-NPs	Cur	NPs+Cur-L
755.32936	104.970142	278.743288	82.948726	263.339714
654.46444	105.326294	288.565212	77.962598	278.832326
704.8969	105.148218	278.65425	80.455662	271.08602

NPs+Cur-H

- 1
- 3
- 2
- 1
- 2
- 2
- 1
- 2
- 1
- 2
- 1

NPs+Cur-M	NPs+Cur-M	NPs+Cur-M	NPs+Cur-H	NPs+Cur-H	NPs+Cur-H
1.394589203	1.147616461	1.200746809	1.052337576	1.058957929	1.147978162

0.822872662	0.793068032	0.595755799	1.032233758	0.8553854	0.97744183
1.300458748	1.47186766	1.488912353	1.032366379	0.937823397	0.944870508
1.3282718	1.1093529	1.24807602	1.06642425	1.021218	0.799461
1.4802591	1.1942538	1.355156	1.2963324	1.30284	1.21296
1.4325019350	1.1329507357	1.2936418036	1.139247803	1.3073519650	1.212835325
0.8242351	0.7974245	0.772543724	0.894252462	0.8745636	0.851834235
1.4964892	1.3756582	1.348869	1.243185	1.304772	1.19653
1.4983265860	1.2678196937	1.6315681527	1.2461635704	1.4136513670	1.2667057692
1.55574733	1.59886654	1.7360886	1.391983018	0.99003124	1.3936

NPs+Cur-M	NPs+Cur-M	NPs+Cur-M	NPs+Cur-H	NPs+Cur-H	NPs+Cur-H
1.317207635	1.619980187	1.354337958	1.016810913	0.976704789	1.4223978
1.577038671	1.459791051	1.218305355	1.577038671	1.459791051	1.218305355
0.866462809	1.031570575	0.85965459	0.904760771	0.973757474	0.805690489
1.26193532	1.29734438	0.927246198	0.703596569	0.87233771	0.636052174
1.369290928	1.297463534	1.21842194	1.045732565	0.959893033	1.133078424
0.9056442	0.892306606	1.056469319	0.73612519	1.056891002	0.8204767
1.533228008	1.661879202	1.66047126	0.953228752	1.012487886	1.134432483
1.63084982	1.870539111	1.9025558	1.203966967	1.254868131	0.78037576
1.2807199	1.095410065	1.171488093	1.068986669	1.190098641	0.933382998
1.07692561	1.155228348	0.903329012	0.961633	0.97521432	1.059828522
1.185396206	1.013554167	1.204879957	1.063707214	1.185823567	1.01614656

NPs+Cur-M NPs+Cur-H
437.8763 397.29336
459.62749 412.01117
443.19325 405.58568

NPs+Cur-M NPs+Cur-H
18.181958 17.555772
17.041384 18.04042
18.603679 17.365138

NPs+Cur-M NPs+Cur-H
207.1433 157.1345
192.5574 179.9671
222.9759 148.7997

NPs+Cur-M NPs+Cur-H
230.48469 230.48469
198.1639 187.30126
214.3243 208.89298

1749

Concentration of NPS

Concentra	0	3.125	6.25	12.5	25
Cell viab	1	0.99460361	0.973148458	0.91603987	0.88061004

Concentration of Cur

Concentra	0	5	10	15	20
Cell viab	1	0.938034983	0.847785635	0.791049498	0.74506885

Relative cell viablity

Cur (μ g)	0	5	10	15	20
PS-NPs (100)	100	100	100	100	100
	1	0.746683524	0.875347535	0.796750183	0.818762947
	0.9923572846	0.7286593285	0.8435428365	0.8032578265	0.7932562376
	0.9835623895	0.7632573296	0.883256833	0.7732957823	0.7723957893

PCR

	Con	Con	Con	PS-NPs	PS-NPs
BAX	1	1	1	1.652357234	1.578345235
BCL-2	1	1	1	0.764254346	0.696352525
Caspase 3	1	1	1	1.894534267	1.832432544
Caspase 9	1	1	1	1.753245234	1.682534627
IKK	1	1	1	1.945347524	1.8634572462
NF- κ B P6	1	1	1	1.7543516483	1.7142626727
TNF- α	1	1	1	1.426485164	1.763515347
IL-1 β	1	1	1	1.3548267493	1.6351513737
IL-6	1	1	1	1.3946693413	1.4232365488

SOD

Con	PS-NPs	Cur	NPs+Cur
15.32436	4.28426	11.78347	8.82467
13.73527	7.73626	13.26846	9.73642
13.83254	5.23652	12.82463	9.83462

GSH

Con
40.33396523
44.40075828
45.71182726

TNF- α

Con	PS-NPs	Cur	NPs+Cur
5.94762	12.0829	2.87998	7.48144
5.94762	16.68436	6.71453	10.54908
2.11307	13.31599	4.797255	9.01526

IL-6

Con
1.2315
2.834184
2.032842

Tail Length

Con	PS-NPs	Cur	NPs+Cur
2	227	6	62

Tail DNA Perc

Con
4.18182836

3	252	5	53	3.240917682
3	208	7	75	3.782169196
3	189	6	57	3.428502809
3	250	2	80	4.075071619
2	233	7	54	5.441704221

ROS

Con	PS-NPs	Cur	NPs+Cur	JC-1 Con
920.959	53014.425	1668.194	41058.4	3.923468438
1002.834	48452.835	1783.835	30876.357	3.787263467
1326.832	46826.134	3925.246	38235.831	3.477714794

WB

	Con	Con	Con	PS-NPs	PS-NPs
BAX/BCL-2	1	1	1	2.02185499	1.517239353
CC3/C3	1	1	1	1.260944948	1.26989053
CC9/C9	1	1	1	1.286349972	1.246945641
P-PI3K/PI	1	1	1	1.39834684	1.430786794
P-AKT/AKT	1	1	1	1.250313992	1.348441901
P-IKK/IKK	1	1	1	1.250313992	1.345838868
P-P65/P65	1	1	1	1.448731524	1.289624791

50	100	200	400
0.831443019	0.804599899	0.667286912	0.59376626

25	30
0.627279494	0.554893934

25	30
100	100
0.749368724	0.6252239572658
0.76497582369	0.6759896298569
0.77558246598	0.663256948659247

PS-NPs	Cur	Cur	Cur	NPs+Cur	NPs+Cur	NPs+Cur
1.783264573	1.0563452	1.0247351	1.108764342	1.477423	1.445247	1.573452
0.723464574	0.974562353	1.034346458	1.012436475	0.834346	0.852435	0.724366
1.875362645	1.042154363	1.013547636	1.026583277	1.353462	1.45262791	1.4784724
1.786345264	0.965234282	0.925362647	0.892164735	1.467983	1.495749	1.532852
1.8335345765	1.2325372637	1.123543725	1.184647374	1.4365362	1.523426	1.493526
1.6346482690	1.0763626483	1.0179462353	1.105724743	1.32535721	1.42152631	1.3954656
1.5457846263	0.962346489	0.7456252474	0.864626485	1.64268341	1.46564831	1.5626168
1.4642749859	1.0752647351	1.0326746562	1.106737274	1.56264871	1.4665998	1.245769
1.3973627583	0.8772759361	0.9626271253	0.897653274	1.31589311	1.29269931	1.2472465

mda

PS-NPs	Cur	NPs+Cur	Con	PS-NPs	Cur
21.70281263	42.3327855	38.1851376	11.379071	14.95308	10.95308
25.44946631	46.08770357	40.4871136	10.95308	15.346582	10.559578
23.80756526	49.80327706	37.905928	10.772573	15.772573	9.3790714

IL-1 β

PS-NPs	Cur	NPs+Cur	Con	PS-NPs	Cur
7.642236	1.2315	6.90935	26.40676	71.73472	41.51608
8.710692	3.90264	4.368412	24.77332	76.63504	34.1656
8.176464	2.56707	5.638881	25.59004	74.18488	37.84084

cent

PS-NPs	Cur	NPs+Cur
83.33870916	3.318510566	42.78315093

Tail Moment

Con	PS-NPs	Cur
2.9786369	189.17887	7.673196

91.56641661	4.339421033	77.4950529	0.6927622	189.18095	0.7445792
98.97015364	6.694153036	54.61288558	2.090481	205.85792	0.9371814
83.73842169	6.655533974	86.05670611	1.1427579	209.34605	1.4658847
75.65368886	5.70125803	65.90069071	0.0918171	150.61941	1.7720018
98.95967673	6.258467051	58.42213963	0.8523134	163.6775	0.6178006

PS-NPs	Cur	NPs+Cur
0.786271795	1.881709107	1.295084727
0.624657288	1.583427493	0.962436572
0.458289475	1.87244727	1.391472476

PS-NPs	Cur	Cur	Cur	NPs+Cur	NPs+Cur	NPs+Cur
2.147192424	1.417310791	1.191349993	1.357696364	1.022838	1.643373	1.540957
1.39033835	0.882153072	1.09330598	1.073009109	1.057156	1.112463	1.155192
1.335308794	1.15956156	1.070632	0.925789807	1.132255	1.088826	1.192514
1.410786794	0.550164655	0.89462952	0.689462952	1.143444	1.159	1.209
1.263603177	0.732505076	0.643970022	0.830947515	1.191136	1.170209	1.162663
1.263603177	1.125050762	0.964397002	1.109475148	1.119114	1.169774	1.137021
1.362082767	1.040421219	1.027515005	0.98512089	1.155018	1.069891	1.173929

NPs+LY NPs+LY NPs+LY NPs+Cur+LNPs+Cur+LNPs+Cur+LY
 1. 468234 1. 562354 1. 395453 1. 634523 1. 5624512 1. 354675
 0. 879573 0. 893424 0. 903416 0. 904246 0. 893235 0. 863826
 1. 324235 1. 243636 1. 345763 1. 424333 1. 394628 1. 3759873626748
 1. 512427 1. 535816 1. 4954189 1. 358517 1. 39752841. 47357189565235
 1. 536826 1. 464824 1. 39563511. 36483521. 39785761. 4165246425873
 1. 5031545 1. 496725 1. 47936161. 35648361. 49736831. 36628346538964
 1. 535165 1. 37570981. 69842311. 3254871 1. 464688 1. 577087
 1. 36978751. 27808791. 47665461. 37826351. 24568791. 1377078262703
 1. 13648361. 21354681. 19835131. 17679681. 14576691. 18986264978252

TAOC

NPs+Cur	Con	PS-NPs	Cur	NPs+Cur
14.166076	10.755724	5.7466537	8.7155735	8.4415808
14.166076	11.444655	5.7466537	9.9606554	9.301976
13.379071	10.755724	6.5676042	11.205737	7.4415808

NPs+Cur
 40. 291
 59. 89228
 50. 09164

NPs+Cur
 35.133978

41.072378
62.804818
49.052322
32.43191
40.644919

NPs+LY	NPs+LY	NPs+LY	NPs+Cur+LNPs+Cur+LNPs+Cur+LY	NPs+Cur+LNPs+Cur+LNPs+Cur+LY	NPs+Cur+LNPs+Cur+LNPs+Cur+LY
1. 317208	1. 61998	1. 354338	1. 016811	1. 767048	1. 422398
1. 182814	0. 972894	1. 095481	0. 952912	1. 240999	1. 08058
1. 10824	1. 144079	1. 10311	1. 1696	1. 145396	1. 059958
1. 152015	1. 208731	1. 208731	1. 208318	1. 173329	1. 123329
1. 187852	1. 150335	1. 178242	1. 14185	1. 162443	1. 207898
1. 187852	1. 098034	1. 117824	1. 14185	1. 162443	1. 078983
1. 090533	1. 209118	0. 936831	1. 093672	1. 045214	1. 080775