

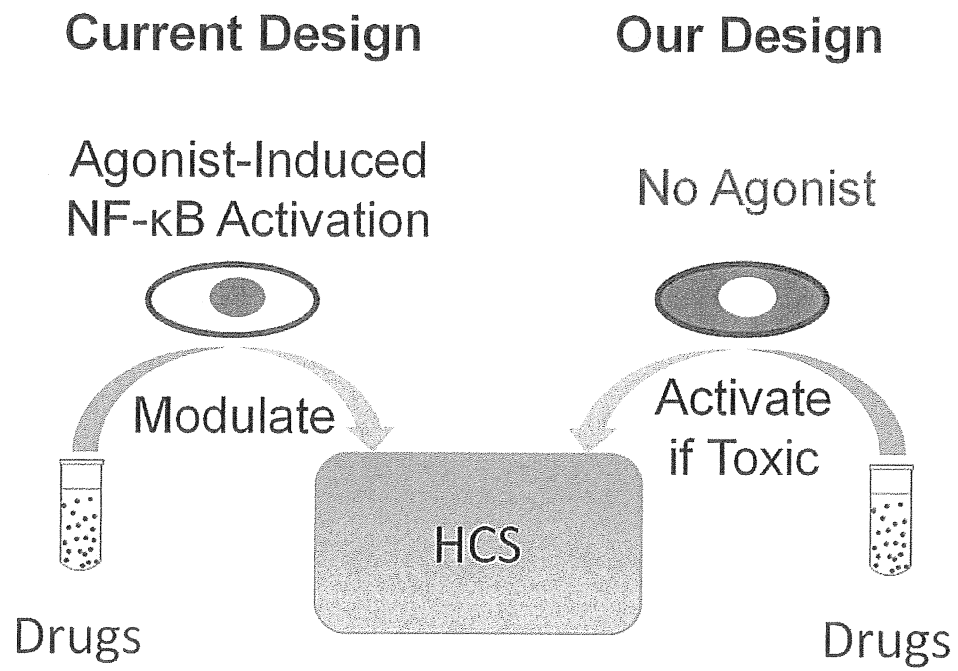


FIGURE 1

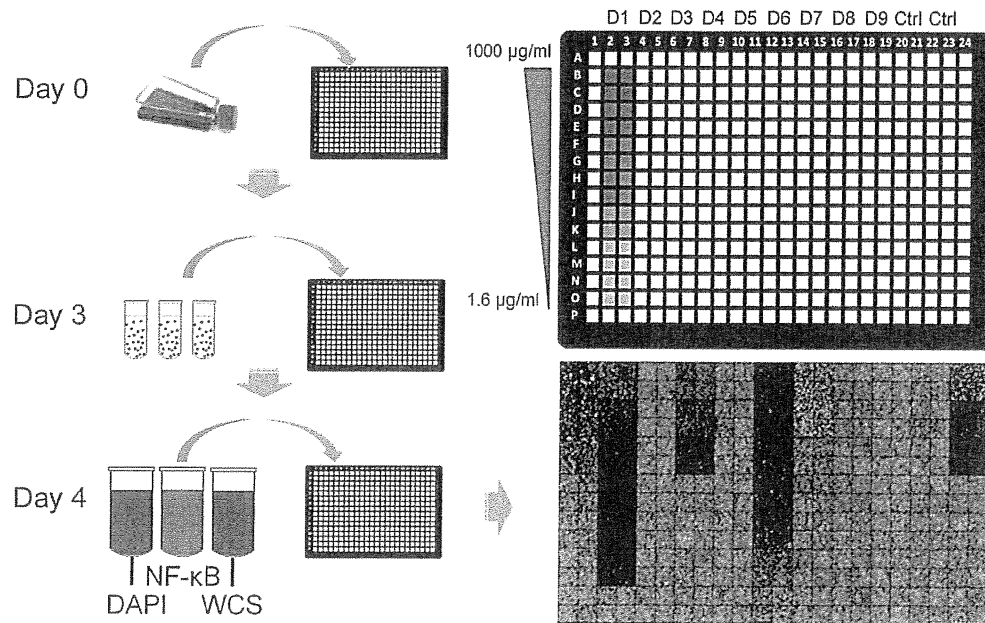


FIGURE 2

Table 1

No.	Compound	Concentration (µg/ml)							
		1000	500	250	125	63	31	16	1.6
1	Gentamicin	24	18	23	23	21	21	18	21
2	Tobramycin	22	21	17	19	19	16	20	19
3	Rifampicin	91	23	10	12	16	17	17	23
4	Tetracycline	100	96	98	98	91	78	72	68
5	Puromycin	94	98	98	99	98	98	99	97
6	Cephalosporin C	17*	25*	31*	63	75	67	63	67
7	5-Fluorouracil	32	25	28	21	19	20	23	18
8	Cisplatin	94	83	42	15	20	14	14	16
9	Ifosfamide	46	49	59	52	54	57	58	61

**FIGURE 3**

Table 1

10	Paraquat	81	68	62	70	66	66	71	79
11	Arsenic(III)oxide	0*	0*	0*	8*	45*	82	89	91
12	Bismuth(III)oxide	63	73	70	81	78	78	81	79
13	Cadmium(II)chloride	92	91	87	87	60	67	29	30
14	Copper(II)chloride	69	99	55	38	28	15	18	24
15	Germanium(IV)oxide	28	24	25	21	22	15	23	18
16	Gold(I)chloride	96	97	64	87	76	74	73	72
17	Lead acetate	95	92	84	80	75	65	71	76
18	Potassium dichromate	44*	57*	75*	58*	67*	100	96	50
19	Tacrolimus	35*	8*	0*	8*	25*	60	58	42
20	Cyclosporin A	62	53	45	36	36	41	36	35
21	Citrinin	85	25	5	5	9	14	17	19
22	Tenofovir	30	36	39	28	33	32	28	30

100%

0%

FIGURE 3 (CONTINUED)

Table 1

23	Vancomycin	69	37	39	36	40	44	45	34
24	Phenacetin	44	5	7	15	12	13	17	16
25	Acetaminophen	21	20	25	25	24	32	30	28
26	Ibuprofen	25*	90	98	84	36	43	30	45
27	Furosemide	37	4	11	16	13	13	11	15
28	Lithium Chloride	41	24	20	25	27	30	22	28
29	Lindane	51	41	29	32	36	27	30	31
30	Ethylene glycol	24	19	17	17	20	20	21	29
31	Valacyclovir	25	27	25	22	23	18	25	34
32	Lincomycin	20	31	31	34	33	30	35	36
33	Ciprofloxacin	71	77	37	21	19	20	21	29

100%

0%

FIGURE 3 (CONTINUED)

Table 1

34	Ribavirin	31	45	41	51	63	69	66	51
35	Glycine	41	47	48	45	44	45	46	43
36	Dexamethasone	27	23	23	23	19	19	22	20
37	Melatonin	10	8	6	12	11	12	14	16
38	Levodopa (DOPA)	80	96	22	24	21	26	21	22
39	Triiodothyronine	61	48	44	41	41	45	32	38
40	Acarbose	35	31	37	36	36	39	40	41
41	Atorvastatin	0*	96	66	30	17	29	28	34

**FIGURE 3 (CONTINUED)**

Table 2

No.	Compound	EC50 (µg/ml)	Highest Percentage of Positive Cells
1	Gentamicin	>1000	24
2	Tobramycin	>1000	22
3	Rifampicin	697.4	91
4	Tetracycline	<1.6	100
5	Puromycin	<1.6	99
6	Cephalosporin C	175.9	75
7	5-Fluorouracil	>1000	32
8	Cisplatin	297.5	94
9	Ifosfamide	477.8	61
10	Paraquat	<1.6	81
11	Arsenic(III)oxide	58.4	91
12	Bismuth(III)oxide	<1.6	81
13	Cadmium(II)chloride	24.3	92
14	Copper(II)chloride	214.9	99
15	Germanium(IV)oxide	>1000	28
16	Gold(I)chloride	<1.6	97
17	Lead acetate	<1.6	95
18	Potassium dichromate	1.6	100
19	Tacrolimus	8.6	60
20	Cyclosporin A	402.3	62
21	Citrinin	709.3	85
22	Tenofovir	>1000	39

FIGURE 4

Table 2

No.	Compound	EC50 (µg/ml)	Highest Percentage of Positive Cells
23	Vancomycin	705.5	69
24	Phenacetin	>1000	44
25	Acetaminophen	>1000	32
26	Ibuprofen	80.6	98
27	Furosemide	>1000	37
28	Lithium Chloride	>1000	41
29	Lindane	962.2	51
30	Ethylene glycol	>1000	29
31	Valacyclovir	>1000	34
32	Lincomycin	>1000	36
33	Ciprofloxacin	333.0	77
34	Ribavirin	142.4	69
35	Glycine	>1000	48
36	Dexamethasone	>1000	27
37	Melatonin	>1000	16
38	Levodopa (DOPA)	344.2	96
39	Triiodothyronine	575.6	61
40	Acarbose	>1000	41
41	Atorvastatin	194.7	96

FIGURE 4 (CONTINUED)

9/18

Table 3

		Nfkb Comments	F-Actin Comments
1	Gentamicin	Negative for all concentrations	Appears the same for all concentrations
2	Tobramycin	Negative for all concentrations	Appears the same for all concentrations
3	Rifampicin	Negative for all concentrations	Less cells in the highest concentration, also appears irregular
4	Tetracycline	Positive in all concentrations	Round morphology in the 1000 and 500 concentration
5	Purromycin	Positive in all concentrations-- appears to have VERY clear positive readings!	cell morphology generally remains the same
6	Cephalosporin C	Positive in Concentrations with cells	Low number of cells in the highest concentrations
7	5-Fluorouracil	Negative	About the same
8	Cisplatin	Positive in the highest concentrations of 1000 and 500	Rounded cells in the 1000 and 500 concentrations
9	Ifosfamide	Negative	Same number of cells in the diff concentrations
10	Paraquat	Positive for all concentrations	Same for all concentrations
11	Arsenic(III)oxide	Positive	No cells in the highest concentrations, only in the bottom three rows; Cell morphology is rounded, except in VERY low concentrations
12	Bismuth(III)oxide	Positive	No cells in the highest rows
13	Cadmium(II)chloride	Hard to tell if it's positive or negative, the distinction between nucleus and cytoplasm for the staining is not very clear	Rounded cells
14	Copper(II)chloride	Lowest concentrations look negative; concentration 500 looks positive	F-Actin no longer distinct in concentrations of 1000,500,250
15	Germanium(IV)oxide	Negative	Remains the same
16	Gold(I)chloride	Positive in all concentrations	Irregular, low F-actin detection in the highest concentrations
17	Lead acetate	Positive in all concentrations	About the same
18	Potassium dichromate	Positive	No cells in most concentrations, only cells in the lowest
19	Tacrolimus	Hard to tell if it's positive or negative, the distinction between nucleus and cytoplasm for the staining is not very clear	No cells in the first 5 rows, only cells in the lowest two concentrations
20	Cyclosporin A	Hard to tell if it's positive or negative, the distinction between nucleus and cytoplasm for the staining is not very clear	About the same
21	Citronin	Negative for all concentrations, except the highest, which may be positive	Rounded cells in the 1000 and 500 concentrations
22	Tenofavor	Negative	About the same
23	Vancomycin	Negative	A bit less cells in the highest concentrations
24	Phenacetin	Negative	rounded morphology in highest concentration
25	Acetaminophen	Negative	A bit less cells in the highest concentrations

FIGURE 5

Table 3

26	Ibuprofen	Positive in concentrations 1000, 500, 250	No cells in the 1000 concentration
27	Furosemide	Negative	rounded morphology in highest concentration
28	Lithium Chloride	Negative	Remains the same
29	Lindane	Negative	Remains the same
30	Ethylene glycol	Negative	Remains the same
31	Valacyclovir	Negative	Remains the same
32	Lincomycin	Negative	Remains the same
33	Ciprofloxacin	Negative	Remains the same
34	Ribavirin	Negative; small dots speckled around the cell in higher concentrations	No significant change with varying drug concentration
35	Glycine	Negative; small dots speckled around the cell in higher concentrations	No significant change with varying drug concentration
36	Dexamethasone	Negative	Remains the same
37	Melatonin	Negative	Remains the same
38	Levodopa (DOPA)	Negative in low concentrations, positive in higher concentrations?	Remains the same
39	Triiodothyronine	Some positive in the 1000 concentration	Less cells in the highest concentration, also appears irregular
40	Acarbose	Negative; small dots speckled around the cell in higher concentrations	No significant change with varying drug concentration
41	Atorvastatin	Positive in the highest concentrations concentrations 1000, 500, 250, 125	F-Actin no longer distinct in concentrations of 1000, 500
42	Simvastatin	Positive in some concentrations, hard to tell	No cells, except in the last two rows
	PT-specific nephrotoxics		
	Non-PT-specific nephrotoxics		
	Non-nephrotoxic		
	Tris Buffer	Negative for all concentrations	Cell morphology remains the same
	5, 2% DMSO	Negative for all concentrations; only at highest concentration the cell morphology is rounded	Cell morphology remains the same
	5% ETOH	Negative for all concentrations	
	1.6% ETOH	Negative for all concentrations	

FIGURE 5 (CONTINUED)

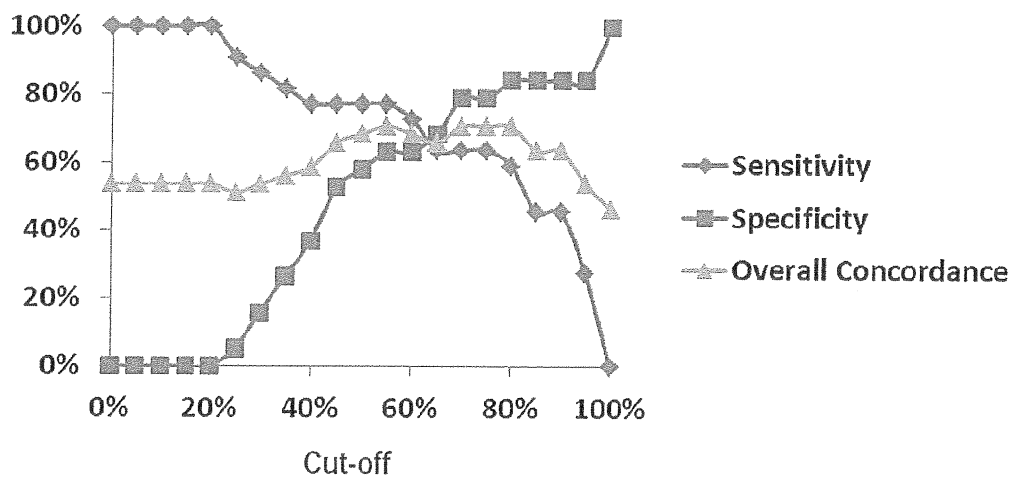


FIGURE 6

12/18

Table 4

Outer/Inner nuclear fluorescence intensity ratio

No.	Compound	HPTC 1	HPTC10	HPTC 6	HK2	LLC- PK1
1	5-Fluorouracil	0.95	0.92	0.97	0.98	0.91
2	Aristolochic acid	0.41	0.35	0.52	0.37	0.16
3	Arsenic(III)oxide	0.24	0.40	0.55	0.26	0.17
4	Bismuth(III)oxide	0.54	0.67	0.60	0.74	0.56
5	Cadmium(II)chloride	0.18	0.21	0.44	0.37	0.24
6	Cephaloridine	0.92	0.94	0.91	0.98	0.85
7	Cephalosporin C	0.29	0.42	0.39	0.28	0.31
8	Cephalothin	0.98	1.00	0.95	0.99	0.68
9	Cisplatin	0.67	0.72	0.73	0.64	0.48
10	Citrinin	0.47	0.53	0.55	0.46	0.26
11	Copper(II)chloride	0.36	0.50	0.49	0.48	0.20
12	Cyclosporin A	0.61	0.53	0.52	0.78	0.51
13	Gentamicin	0.94	1.00	0.99	0.98	0.92
14	Germanium(IV)oxide	0.87	0.70	0.89	0.87	0.62
15	Gold(I)chloride	0.47	0.49	0.52	0.24	0.16
16	Lead acetate	0.91	1.00	1.00	0.93	0.73
17	Ochratoxin A	0.26	0.26	0.31	0.22	0.48
18	Paraquat	1.00	0.97	0.95	1.00	0.19
19	Potassium dichromate	0.39	0.44	0.44	0.13	0.34
20	Puromycin	0.21	0.33	0.31	0.37	0.18
21	Rifampicin	1.00	1.01	1.05	0.56	0.64
22	Tacrolimus	0.14	0.26	0.15	0.29	0.28
23	Tenofovir	0.95	0.95	0.97	0.97	0.97
24	Tetracycline	0.38	0.57	0.63	0.53	0.59

Low nuclear and
high cytoplasmic
NF-κB

High nuclear and low
cytoplasmic NF-κB

FIGURE 7

Table 4**Outer/Inner nuclear fluorescence intensity ratio**

No.	Compound	HPTC 1	HPTC10	HPTC 6	HK2	LLC- PK1
25	Acarbose	0.99	1.00	0.99	0.99	0.88
26	Acetaminophen	1.02	1.00	1.02	0.99	0.98
27	Ciprofloxacin	0.62	0.41	0.40	0.81	0.61
28	Dexamethasone	0.99	0.93	1.00	0.97	0.84
29	Ethylene glycol	0.97	0.99	0.97	0.97	0.80
30	Furosemide	0.91	0.68	0.90	0.92	0.78
31	Glycine	1.00	0.96	0.99	0.97	0.75
32	Ibuprofen	0.37	0.49	0.51	0.33	0.28
33	Levodopa (DOPA)	0.57	0.58	0.65	0.76	0.18
34	Lincomycin	0.94	0.96	0.97	0.99	0.70
35	Lindane	0.64	0.55	0.61	0.64	0.58
36	Lithium chloride	0.97	1.00	0.97	0.98	0.93
37	Melatonin	0.91	0.84	0.98	1.02	0.89
	Metformin					
38	hydrochloride	0.86	0.93	0.91	1.02	0.79
39	Phenacetin	0.90	0.81	0.95	1.01	0.92
40	Ribavirin	0.94	0.96	0.97	1.05	0.91
41	Triiodothyronine	0.80	0.89	0.94	0.74	0.29
42	Valacyclovir	0.98	0.86	0.97	0.97	0.91
43	Vancomycin	0.77	0.80	0.76	0.83	0.56

Low nuclear and
high cytoplasmic
NF- κ B

High nuclear and low
cytoplasmic NF- κ B

FIGURE 7 (CONTINUED)

Table 5

	HPTC 1	HPTC10	HPTC 6	HK2	LLC- PK1
Sensitivity	63%	67%	63%	63%	83%
Specificity	79%	74%	79%	84%	58%
Balanced accuracy	71%	70%	71%	73%	71%

FIGURE 8

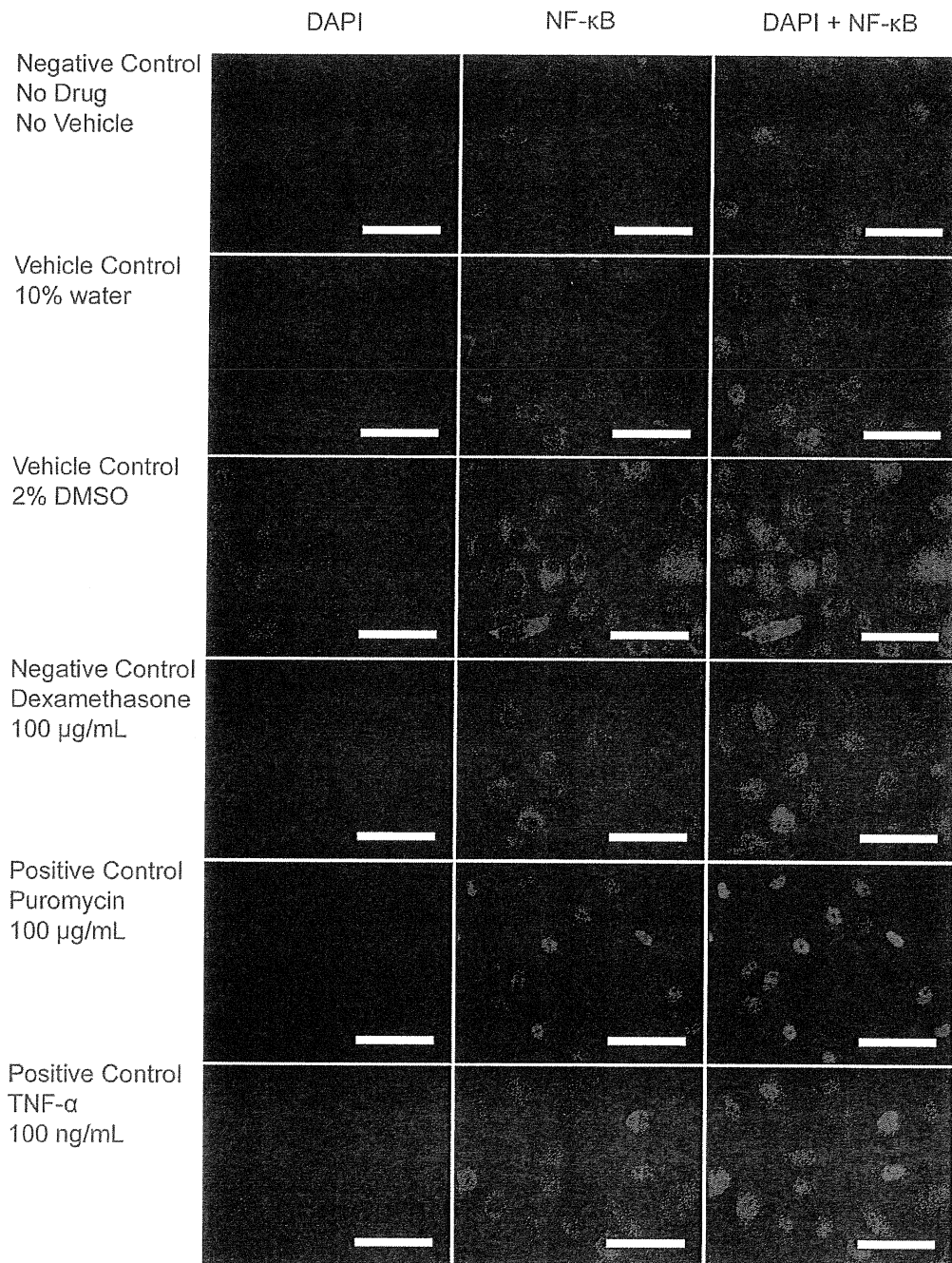


FIGURE 9

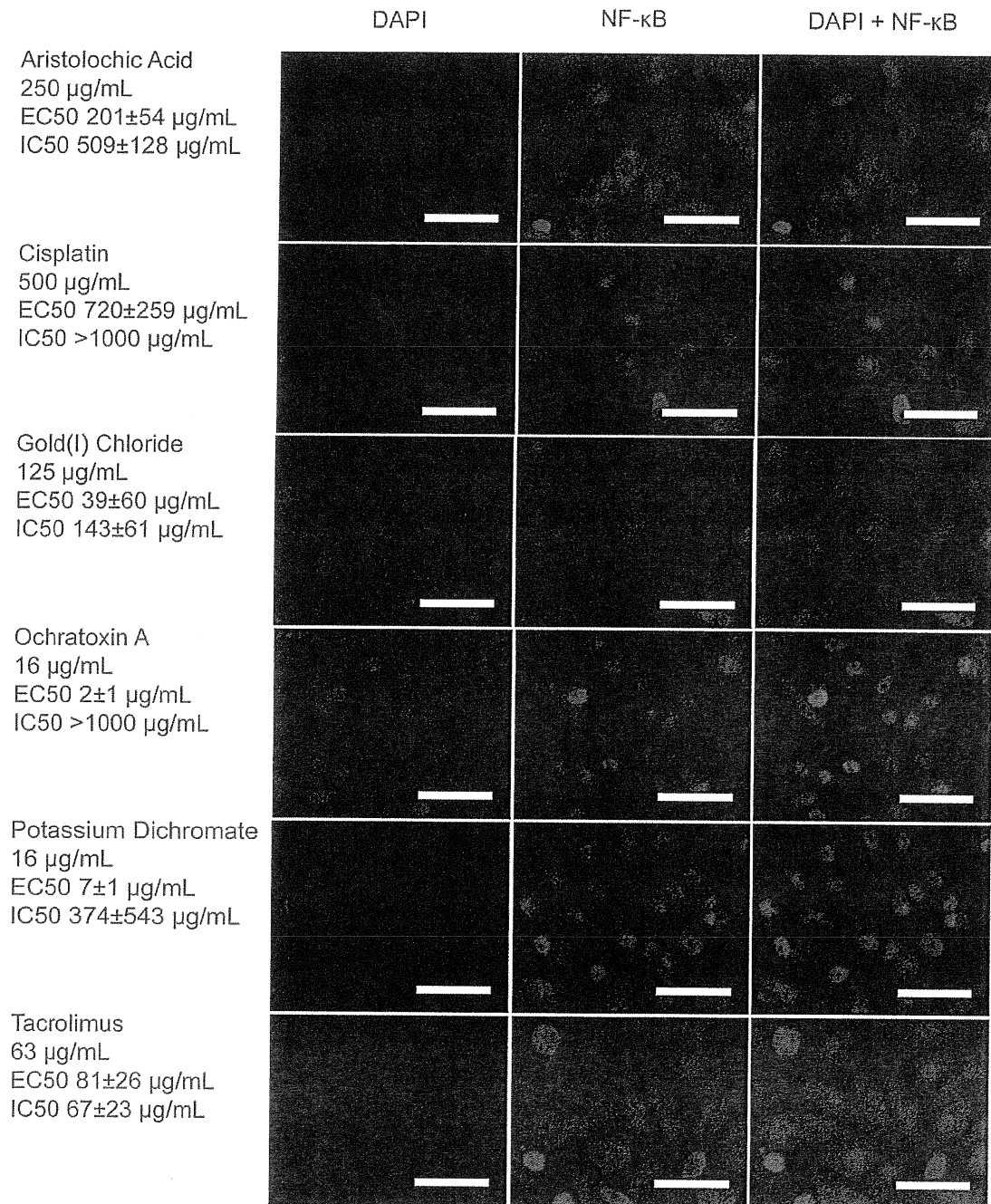


FIGURE 10

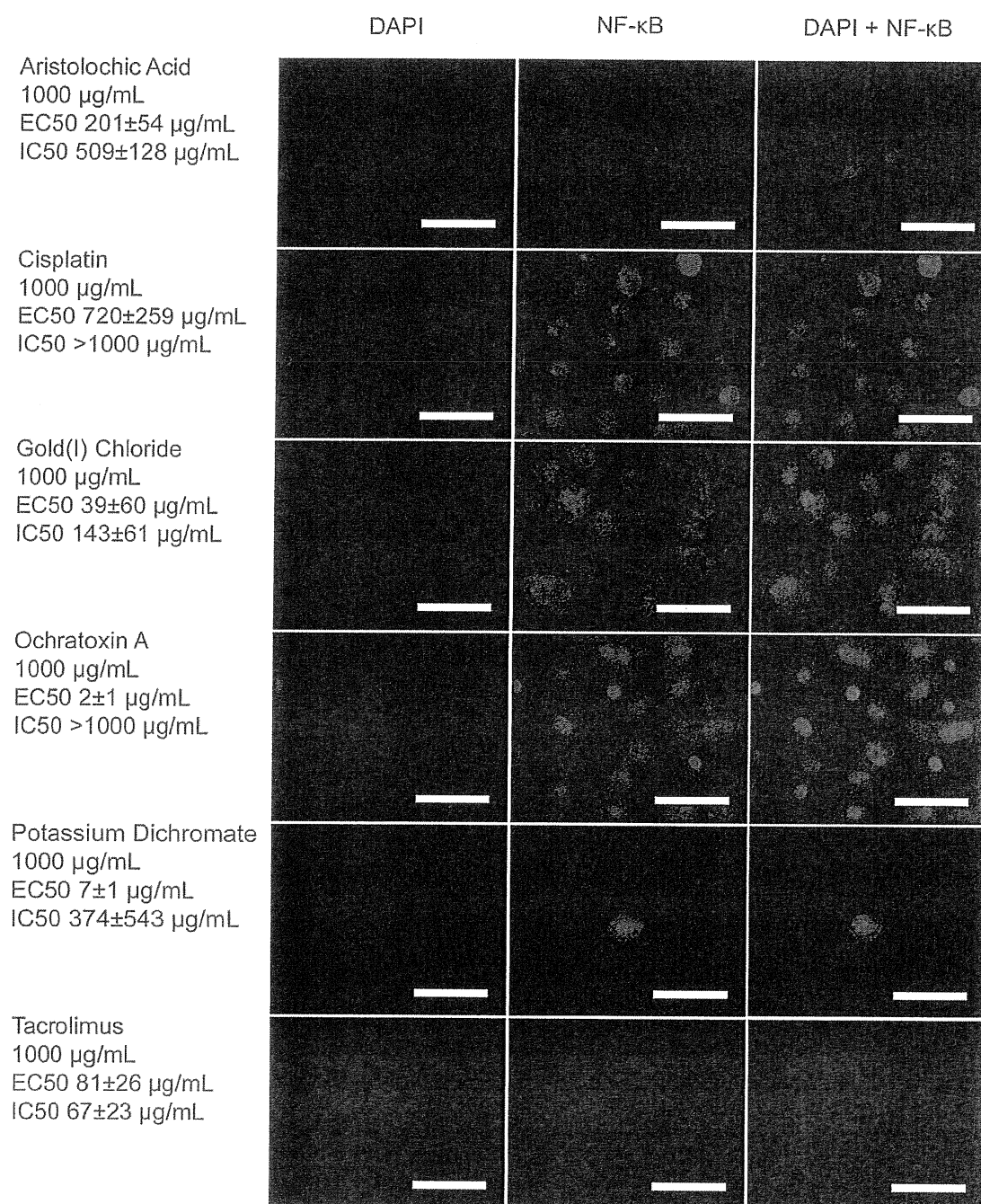


FIGURE 11

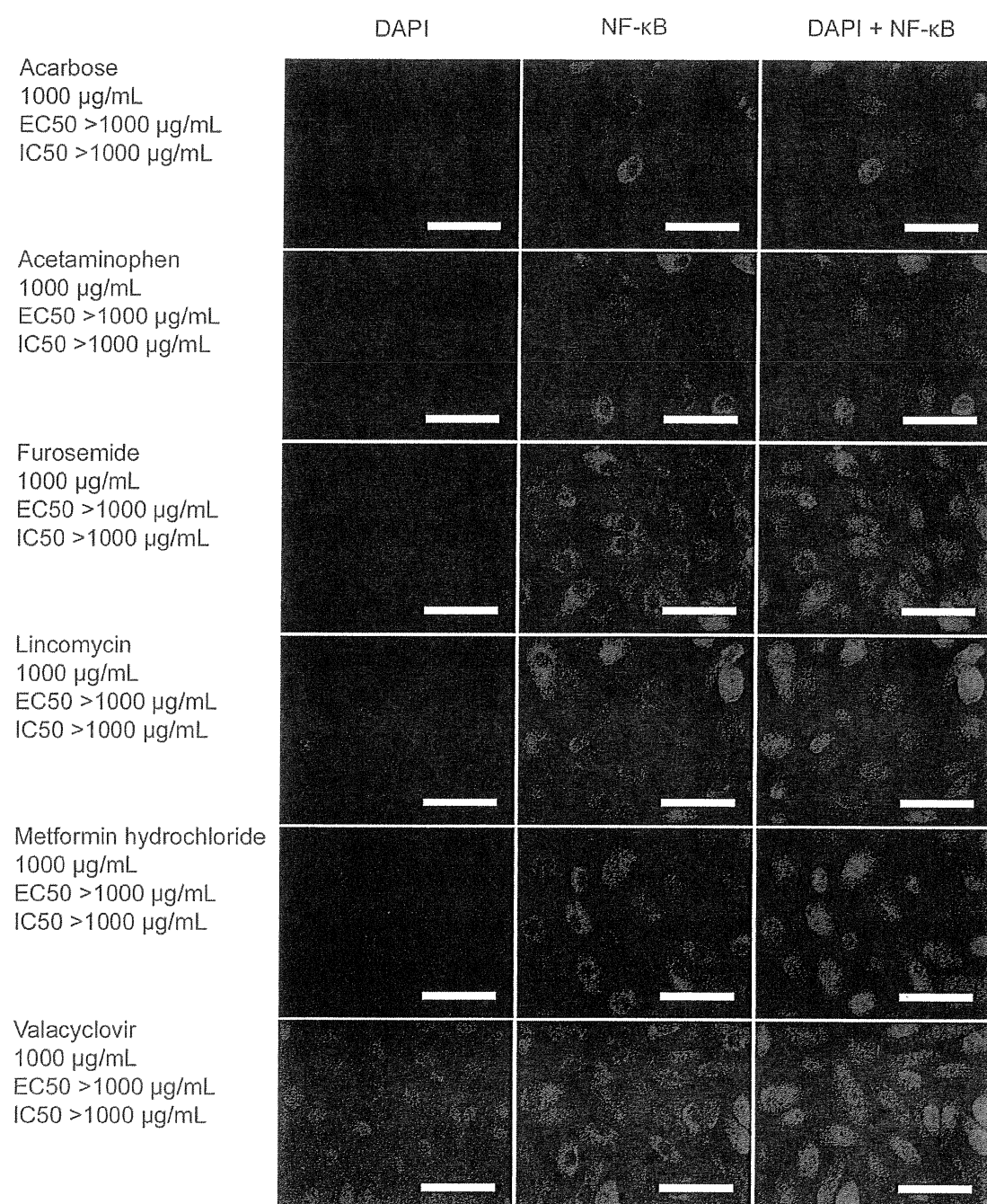


FIGURE 12