

CompuSyn Report

Experiment Name: kh. nasirzadeh
Date: 2017
File Name: C:\Users\sng\Desktop\kh. nasirzadeh\analyzed\PacCin48h.cse
Description: paclitaxel + cinaroprecrin on kyse30 cell line, after 48h treatment analyzed by N. Goftari
Drug: paclitaxel (pac) [uM]
Drug: cinaroprecrin (cin) [uM]
Drug Combo: paclitaxel and cinaroprecrin (PacCin) (pac+cin [1:6])

Data for Drug: pac [uM]

Dose	Effect
2.31	0.961
4.66	0.759
7.01	0.568
9.36	0.331
11.71	0.1

5 data points entered.

X-int: 0.83168

Y-int: 2.58592 +/- 0.26203

m: -3.1093 +/- 0.31873

Dm: 6.78707

r: -0.9846

Data for Drug: cin [uM]

Dose	Effect
14.43	0.87
28.87	0.67
43.3	0.516
57.74	0.378
72.17	0.105

5 data points entered.

X-int: 1.57646

Y-int: 3.52106 +/- 0.68593

m: -2.2335 +/- 0.43020

Dm: 37.7104

r: -0.9486

Data for Drug Combo: PacCin (pac+cin [1:6])

Dose A	Effect
2.39143+	0.385
4.79+	0.191
7.18714+	0.022
9.58571+	0.01
11.9829+	0.006

5 data points entered.

X-int: 1.20775

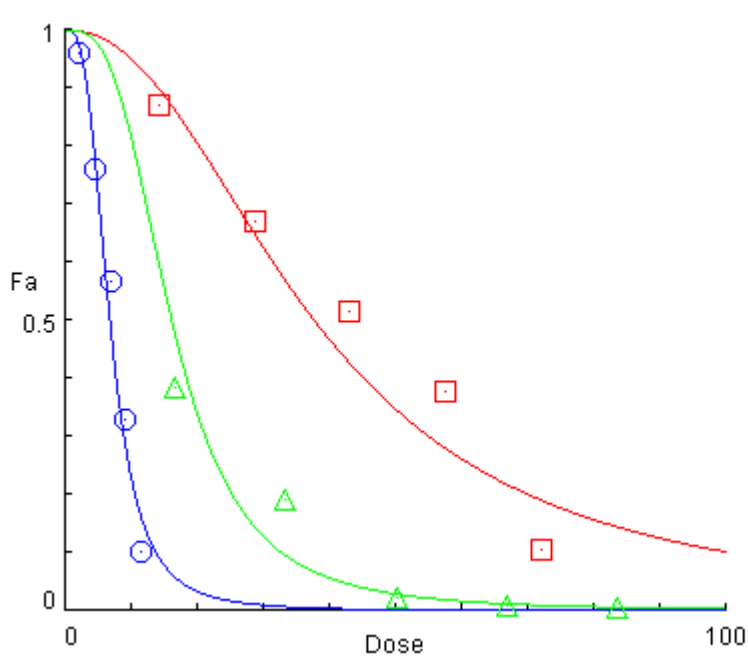
Y-int: 3.73815 +/- 0.71704

m: -3.0951 +/- 0.43227

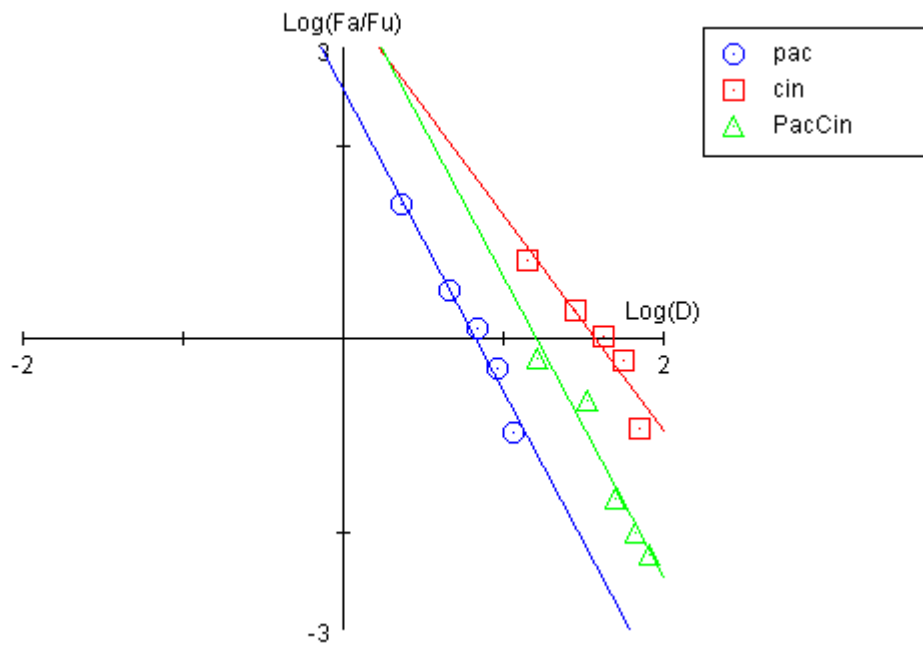
Dm: 16.1344

r: -0.9720

Dose-Effect Curve



Median-Effect Plot



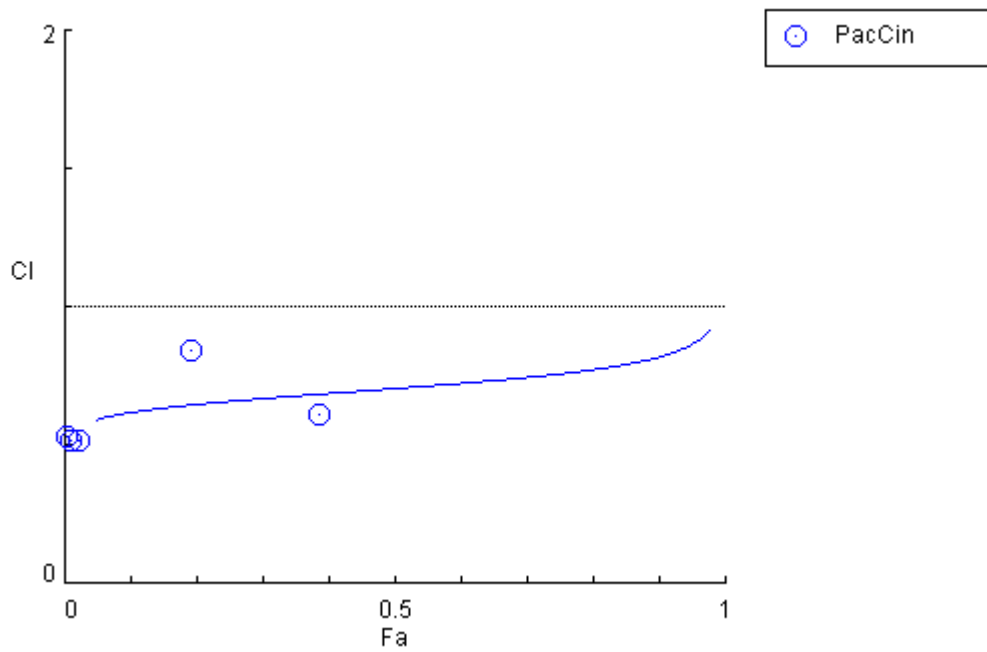
CI Data for Drug Combo: PacCin (pac+cin [1:6])

Fa	CI Value	Total Dose
0.05	0.59515	41.7736
0.1	0.61958	32.8138
0.15	0.63590	28.2581
0.2	0.64883	25.2505
0.25	0.65995	23.0093
0.3	0.67000	21.2149
0.35	0.67941	19.7066
0.4	0.68846	18.3927
0.45	0.69737	17.2151
0.5	0.70633	16.1344
0.55	0.71552	15.1215
0.6	0.72514	14.1533
0.65	0.73544	13.2096
0.7	0.74675	12.2705
0.75	0.75960	11.3136
0.8	0.77481	10.3094
0.85	0.79397	9.21213
0.9	0.82076	7.93317
0.95	0.86746	6.23162
0.97	0.90346	5.24809

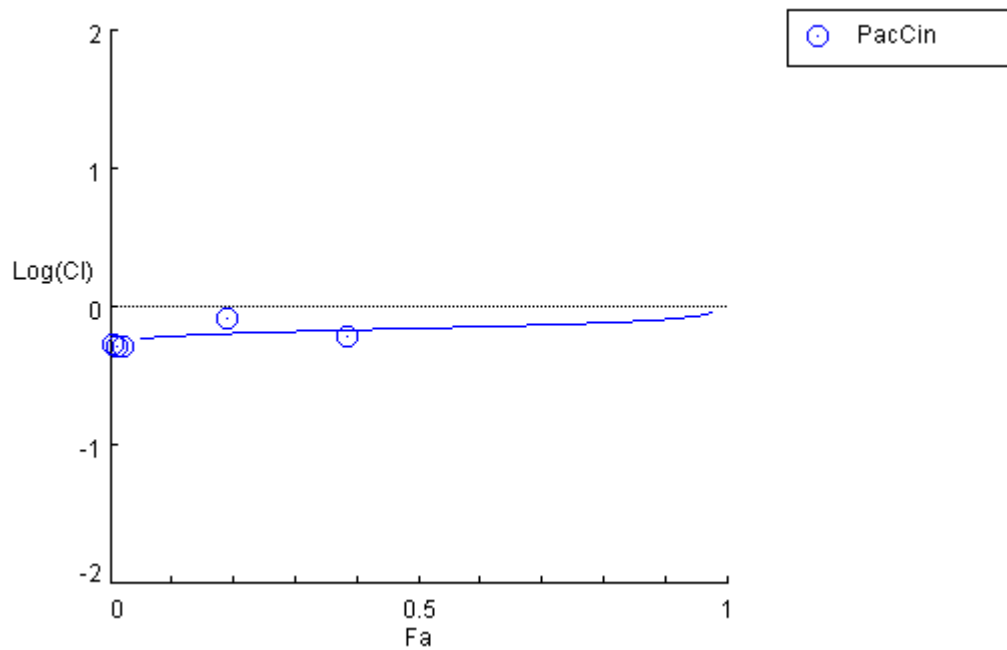
CI values for actual experimental points:

Total Dose	Fa	CI Value
16.74	0.385	0.61159
33.53	0.191	0.84297
50.31	0.022	0.52165
67.1	0.01	0.51709
83.88	0.006	0.53478

Combination Index Plot



Logarithmic Combination Index Plot



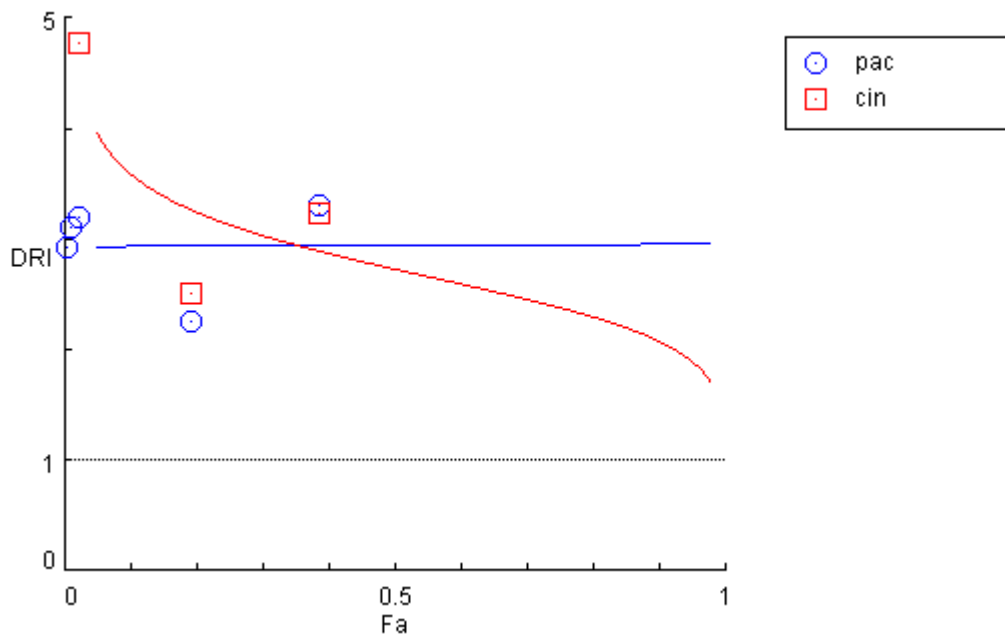
DRI Data for Drug Combo: PacCin (pac+cin [1:6])

Fa	Dose pac	Dose cin	DRI pac	DRI cin
0.05	17.4966	140.926	2.93191	3.93582
0.1	13.7589	100.855	2.93513	3.58583
0.15	11.8568	81.9869	2.93713	3.38492
0.2	10.6003	70.1485	2.93863	3.24112
0.25	9.66349	61.6709	2.93987	3.12697
0.3	8.91314	55.1078	2.94096	3.03054
0.35	8.28225	49.7542	2.94194	2.94554
0.4	7.73244	45.2170	2.94286	2.86816
0.45	7.23955	41.2554	2.94375	2.79588
0.5	6.78707	37.7104	2.94462	2.72682
0.55	6.36287	34.4701	2.94549	2.65947
0.6	5.95728	31.4500	2.94637	2.59244
0.65	5.56181	28.5820	2.94730	2.52435
0.7	5.16814	25.8053	2.94828	2.45354
0.75	4.76684	23.0591	2.94937	2.37788
0.8	4.34558	20.2724	2.95062	2.29413
0.85	3.88506	17.3452	2.95213	2.19667
0.9	3.34795	14.1002	2.95414	2.07359
0.95	2.63275	10.0910	2.95738	1.88920
0.97	2.21896	7.95343	2.95969	1.76807

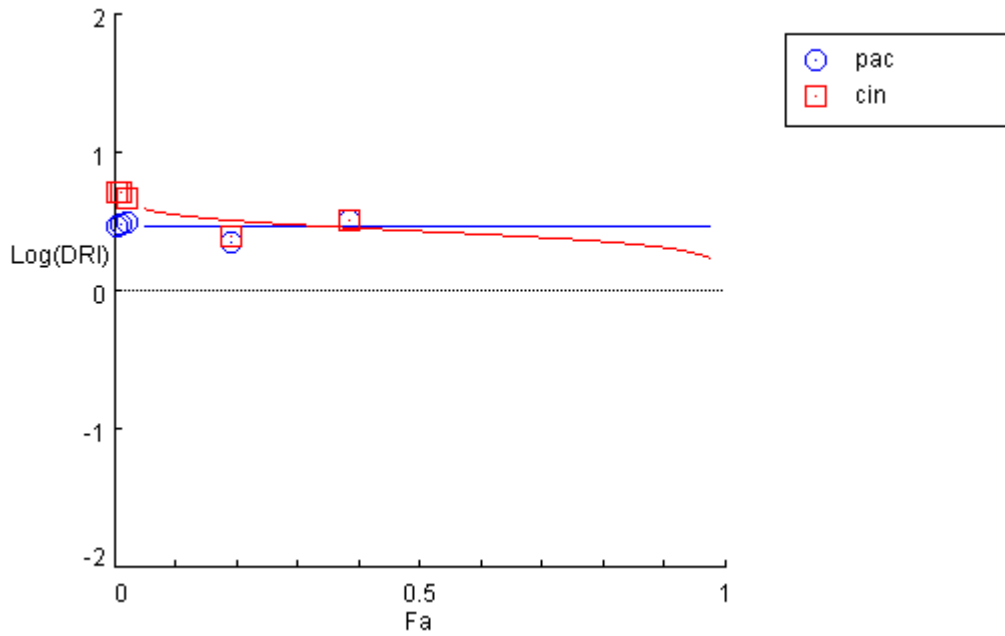
DRI values calculated at experimental points

Fa	Dose pac	Dose cin	DRI pac	DRI cin
0.385	7.89050	46.5088	3.29949	3.24135
0.191	10.7972	71.9691	2.25411	2.50415
0.022	22.9977	206.193	3.19984	4.78152
0.01	29.7521	295.091	3.10379	5.13073
0.006	35.1101	371.592	2.93002	5.16838

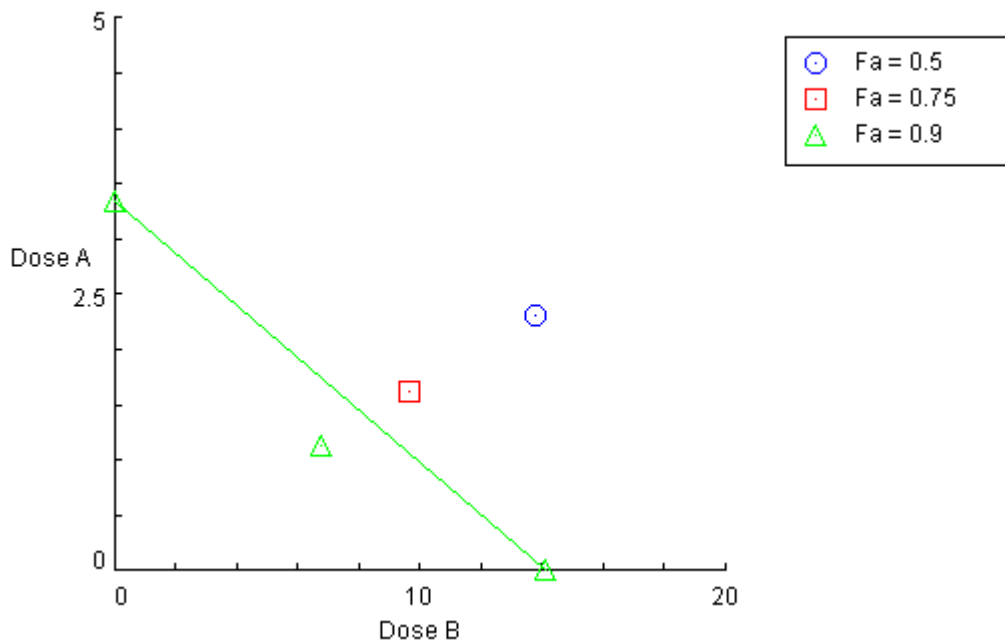
DRI Plot for Combo: PacCin (pac+cin [1:6])



Log(DRI) Plot for Combo: PacCin (pac+cin [1:6])



Isobologram for Combo: PacCin (pac+cin [1:6])



Summary Table

Experiment Name:	kh. nasirzadeh
Date:	2017
File Name:	C:\Users\sng\Desktop\kh. nasirzadeh\analyzed\PacCin48h.cse
Description	paclitaxel + cinaroprecrin on kyse30 cell line, after 48h treatment

analyzed by N. Goftari

Drug: paclitaxel (pac) [uM]

Drug: cinaroprecrin (cin) [uM]

Drug Combo: paclitaxel and cinaroprecrin (PacCin) (pac+cin [1:6])

Drug/Combo	Dm	m	r
pac	6.78707	-3.1093	-0.9846
cin	37.7104	-2.2335	-0.9486
PacCin	16.1344	-3.0951	-0.9720

CI values at:

Combo	ED50	ED75	ED90	ED95
PacCin	0.70633	0.75960	0.82076	0.86746

Data for Fa = 0.5

Drug/Combo	CI value	Dose pac	Dose cin
pac		6.78707	
cin			37.7104
PacCin	0.70633	2.30491	13.8294

Data for Fa = 0.75

Drug/Combo	CI value	Dose pac	Dose cin
pac		4.76684	
cin			23.0591
PacCin	0.75960	1.61622	9.69734

Data for Fa = 0.9

Drug/Combo	CI value	Dose pac	Dose cin
pac		3.34795	
cin			14.1002
PacCin	0.82076	1.13331	6.79986

Data for Fa = 0.95

Drug/Combo	CI value	Dose pac	Dose cin
pac		2.63275	
cin			10.0910
PacCin	0.86746	0.89023	5.34139

Data for Fa = 0.97

Drug/Combo	CI value	Dose pac	Dose cin
pac		2.21896	
cin			7.95343

Drug/Combo	CI value	Dose pac	Dose cin
PacCin	0.90346	0.74973	4.49836