

CompuSyn Report

Experiment Name: kh. nasirzadeh
Date: 2017
File Name: C:\Users\sng\Desktop\kh. nasirzadeh\analyzed\PacCin72h.cse
Description: paclitaxel + cinaroprecrin on kyse30 cell line, after 72h treatment analyzed by N. Goftari
Drug: paclitaxel (pac) [uM]
Drug: cinaroprecrin (cin) [uM]
Drug Combo: paclitaxel and cinaroprecrin (PacCin) (pac+cin [1:6.19])

Data for Drug: pac [uM]

Dose	Effect
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2.31	0.798
------	-------

4.66	0.532
------	-------

7.01	0.289
------	-------

9.36	0.102
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4 data points entered.

X-int: 0.64208

Y-int: 1.56325 +/- 0.26530

m: -2.4347 +/- 0.35471

Dm: 4.38613

r: -0.9794

Data for Drug: cin [uM]

Dose	Effect
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14.43	0.88
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28.87	0.606
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43.3	0.329
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57.74	0.216
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4 data points entered.

X-int: 1.52344

Y-int: 3.66129 +/- 0.12908

m: -2.4033 +/- 0.08485

Dm: 33.3768

r: -0.9988

Data for Drug Combo: PacCin (pac+cin [1:6.19])

Dose A **Effect**

2.31000+ 0.355

4.66+ 0.181

7.01000+ 0.02

9.36+ 0.01

4 data points entered.

X-int: 1.18448

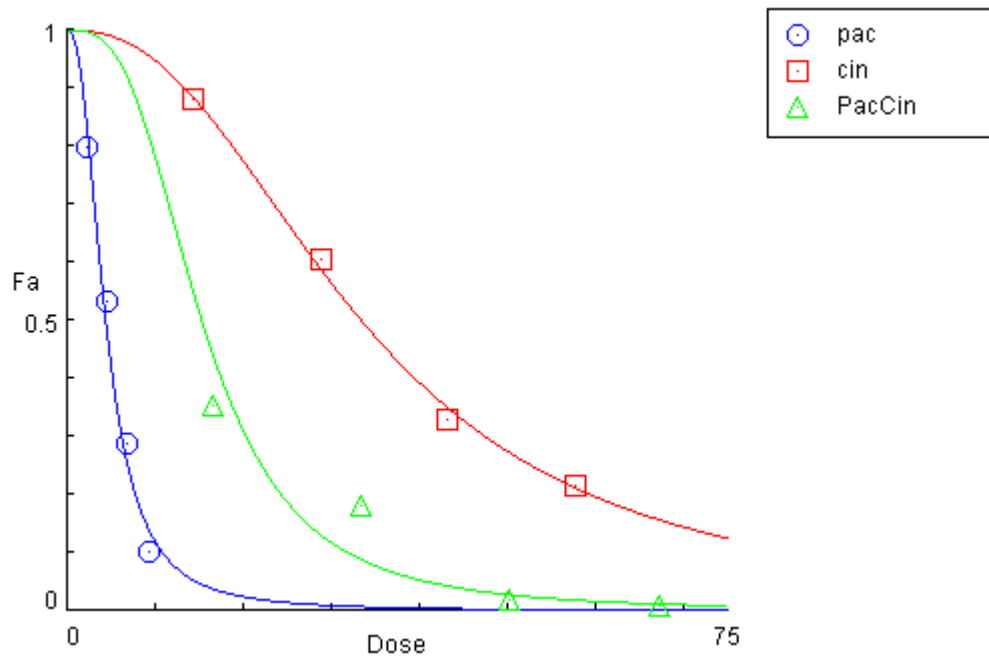
Y-int: 3.54323 +/- 1.04184

m: -2.9914 +/- 0.65711

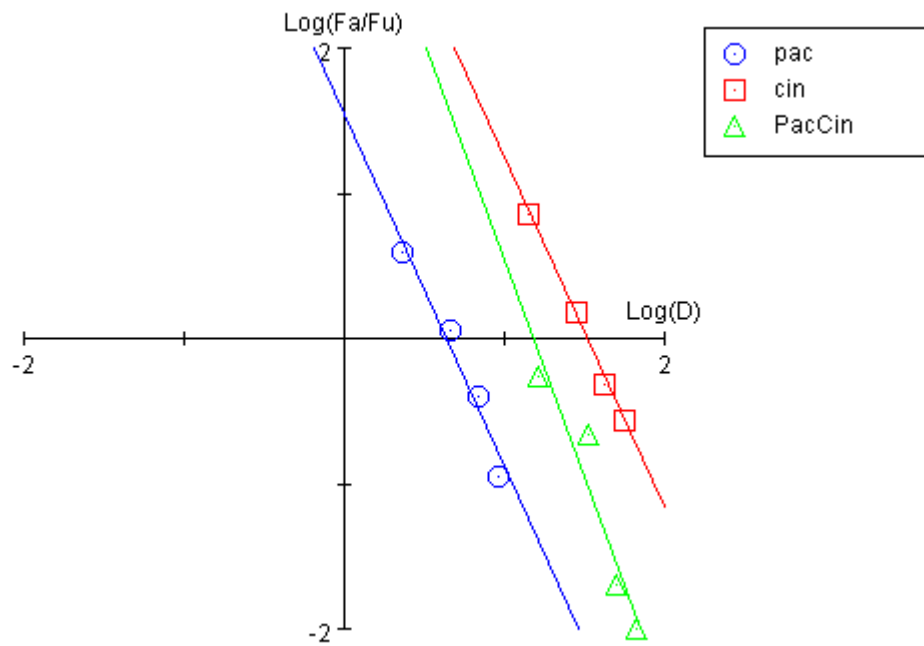
Dm: 15.2924

r: -0.9550

Dose-Effect Curve



Median-Effect Plot



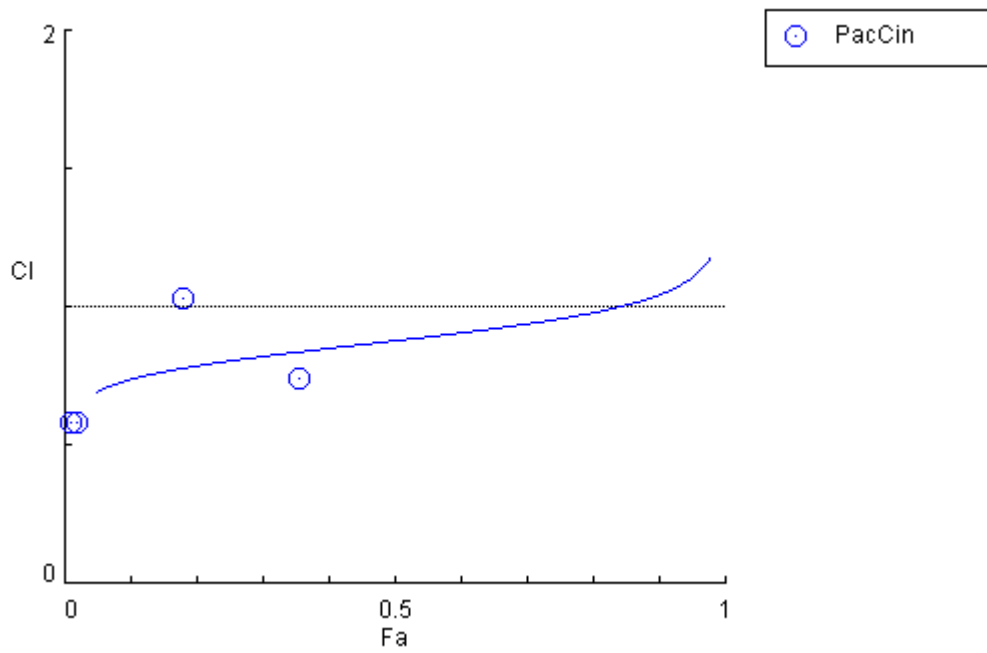
CI Data for Drug Combo: PacCin (pac+cin [1:6.19])

Fa	CI Value	Total Dose
0.05	0.69720	40.9217
0.1	0.73950	31.8766
0.15	0.76697	27.3091
0.2	0.78832	24.3075
0.25	0.80640	22.0787
0.3	0.82254	20.2996
0.35	0.83748	18.8083
0.4	0.85170	17.5122
0.45	0.86556	16.3535
0.5	0.87937	15.2924
0.55	0.89339	14.3002
0.6	0.90793	13.3539
0.65	0.92335	12.4338
0.7	0.94012	11.5203
0.75	0.95894	10.5920
0.8	0.98094	9.62080
0.85	1.00826	8.56335
0.9	1.04572	7.33634
0.95	1.10919	5.71475
0.97	1.15669	4.78421

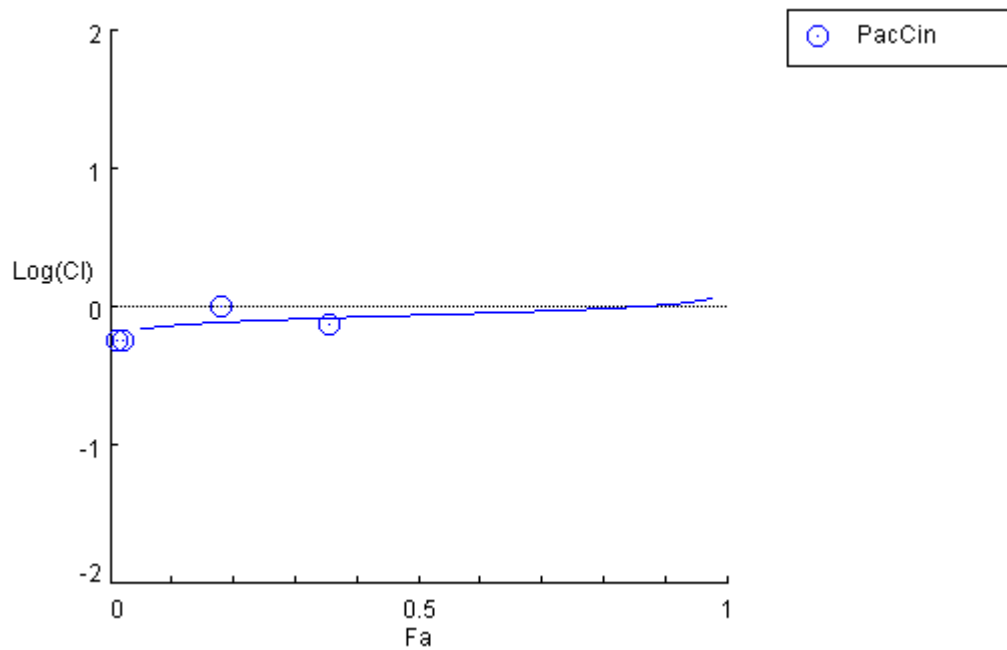
CI values for actual experimental points:

Total Dose	Fa	CI Value
16.6089	0.355	0.74627
33.5054	0.181	1.03266
50.4019	0.02	0.58060
67.2984	0.01	0.57977

Combination Index Plot



Logarithmic Combination Index Plot



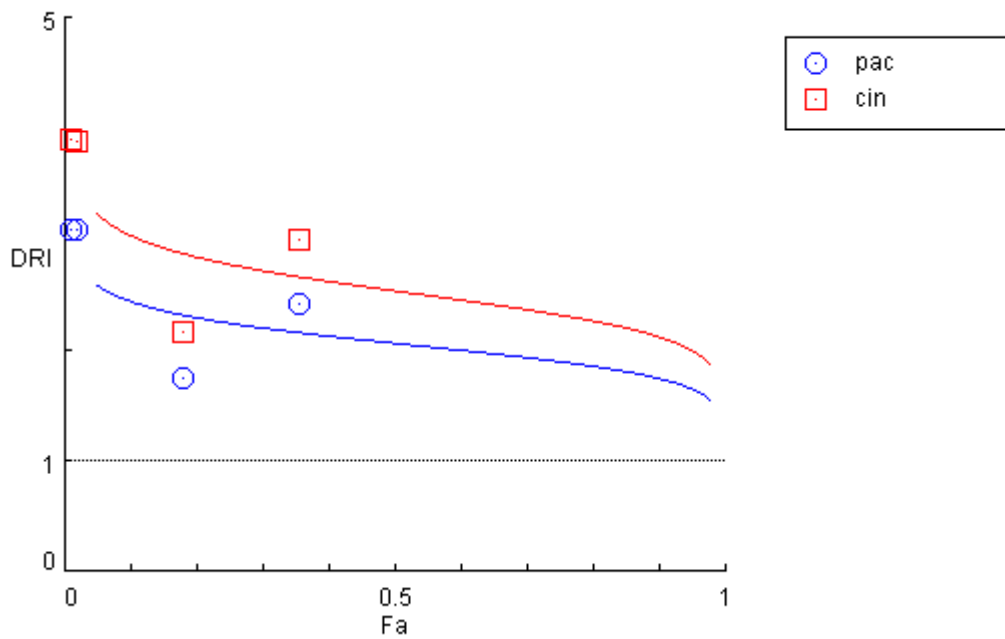
DRI Data for Drug Combo: PacCin (pac+cin [1:6.19])

Fa	Dose pac	Dose cin	DRI pac	DRI cin
0.05	14.6997	113.639	2.58276	3.22560
0.1	10.8149	83.2721	2.43937	3.03435
0.15	8.94332	68.6910	2.35461	2.92166
0.2	7.75118	59.4235	2.29275	2.83959
0.25	6.88734	52.7196	2.24288	2.77355
0.3	6.21186	47.4851	2.20020	2.71711
0.35	5.65594	43.1826	2.16215	2.66685
0.4	5.18093	39.5107	2.12713	2.62066
0.45	4.76296	36.2833	2.09409	2.57713
0.5	4.38613	33.3768	2.06222	2.53517
0.55	4.03911	30.7030	2.03082	2.49389
0.6	3.71325	28.1951	1.99928	2.45246
0.65	3.40139	25.7976	1.96690	2.40999
0.7	3.09699	23.4602	1.93288	2.36541
0.75	2.79326	21.1308	1.89610	2.31727
0.8	2.48196	18.7469	1.85486	2.26338
0.85	2.15111	16.2177	1.80613	2.19980
0.9	1.77885	13.3779	1.74337	2.11811
0.95	1.30874	9.80307	1.64658	1.99252
0.97	1.05200	7.85755	1.58101	1.90772

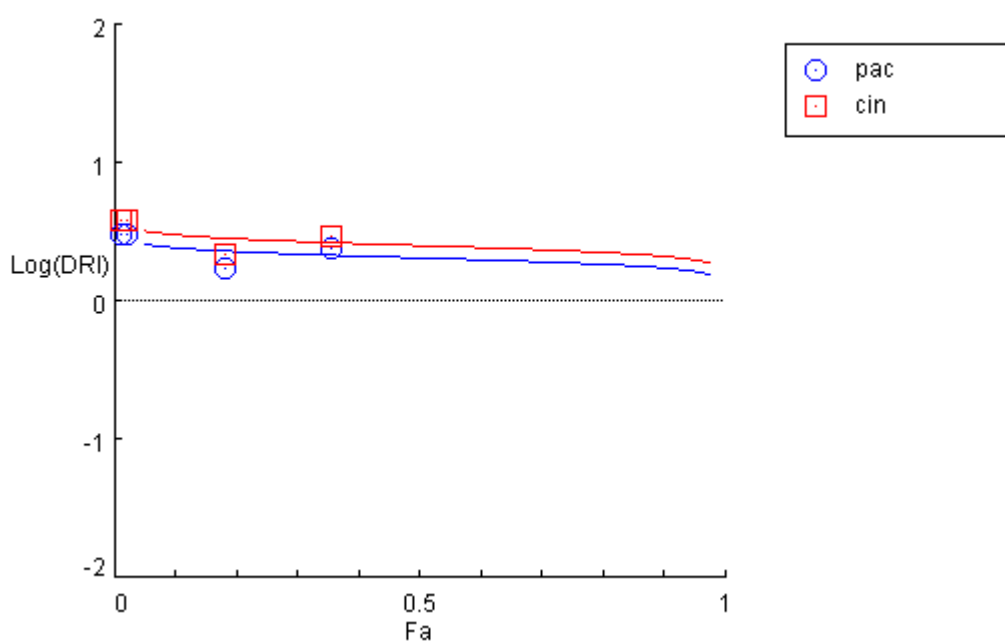
DRI values calculated at experimental points

Fa	Dose pac	Dose cin	DRI pac	DRI cin
0.355	5.60528	42.7908	2.42653	2.99259
0.181	8.15382	62.5515	1.74975	2.16851
0.02	21.6922	168.549	3.09446	3.88434
0.01	28.9573	225.848	3.09373	3.89808

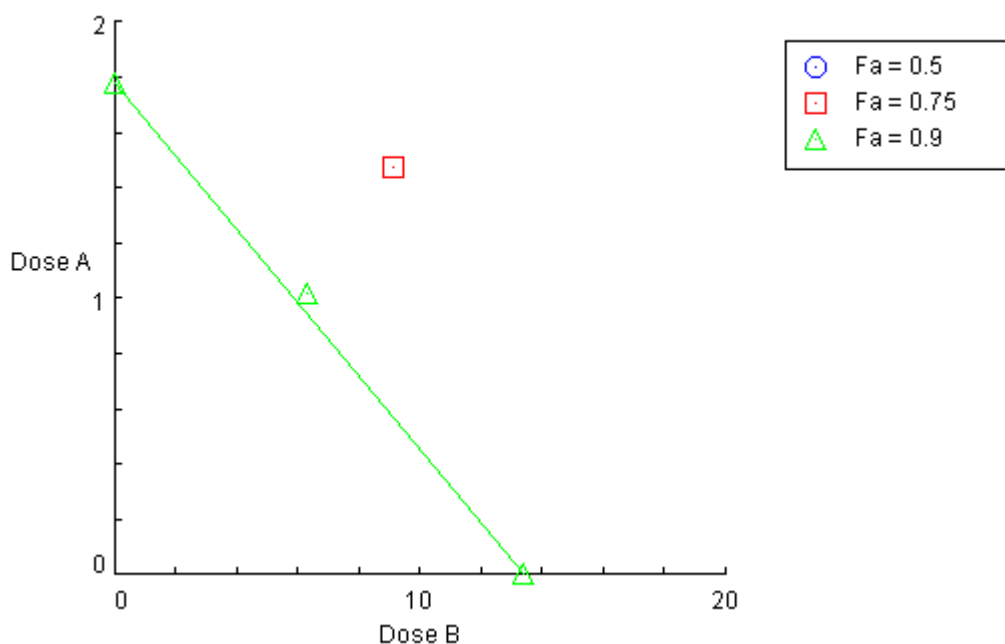
DRI Plot for Combo: PacCin (pac+cin [1:6.19])



Log(DRI) Plot for Combo: PacCin (pac+cin [1:6.19])



Isobologram for Combo: PacCin (pac+cin [1:6.19])



Summary Table

Experiment Name: kh. nasirzadeh
Date: 2017
File Name: C:\Users\sng\Desktop\kh. nasirzadeh\analyzed\PacCin72h.cse
Description: paclitaxel + cinaropecrin on kyse30 cell line, after 72h treatment analyzed by N. Goftari
Drug: paclitaxel (pac) [uM]
Drug: cinaropecrin (cin) [uM]
Drug Combo: paclitaxel and cinaropecrin (PacCin) (pac+cin [1:6.19])

Drug/Combo	Dm	m	r
pac	4.38613	-2.4347	-0.9794
cin	33.3768	-2.4033	-0.9988
PacCin	15.2924	-2.9914	-0.9550

CI values at:

Combo	ED50	ED75	ED90	ED95
PacCin	0.87937	0.95894	1.04572	1.10919

Data for Fa = 0.5

Drug/Combo	CI value	Dose pac	Dose cin
pac		4.38613	

Drug/Combo	CI value	Dose pac	Dose cin
cin			33.3768
PacCin	0.87937	2.12690	13.1655

Data for $F_a = 0.75$

Drug/Combo	CI value	Dose pac	Dose cin
pac		2.79326	
cin			21.1308
PacCin	0.95894	1.47316	9.11883

Data for $F_a = 0.9$

Drug/Combo	CI value	Dose pac	Dose cin
pac		1.77885	
cin			13.3779
PacCin	1.04572	1.02035	6.31598

Data for $F_a = 0.95$

Drug/Combo	CI value	Dose pac	Dose cin
pac		1.30874	
cin			9.80307
PacCin	1.10919	0.79482	4.91993

Data for $F_a = 0.97$

Drug/Combo	CI value	Dose pac	Dose cin
pac		1.05200	
cin			7.85755
PacCin	1.15669	0.66540	4.11881