

CompuSyn Report

Experiment Name: kh. nasirzadeh
Date: 2017
File Name: C:\Users\sng\Desktop\kh. nasirzadeh\analyzed\5-fuCin72h.cse
Description: 5flurouracill + cinaropecrin on kyse30 cell line, after 72h treatment analyzed by N. Goftari
Drug: 5-flurouracil (5-fu) [uM]
Drug: cynaropecrin (cyn) [uM]
Drug Combo: 5flurouracill + cinaropecrin (fu+cin) (5-fu+cyn [4:1])

Data for Drug: 5-fu [uM]

Dose	Effect
57.65	0.875
115.31	0.461
172.97	0.254
230.62	0.18

4 data points entered.

X-int: 2.07152

Y-int: 5.26380 +/- 0.47238

m: -2.5410 +/- 0.22303

Dm: 117.903

r: -0.9924

Data for Drug: cyn [uM]

Dose	Effect
14.43	0.826
28.87	0.589
43.3	0.386
72.17	0.198

4 data points entered.

X-int: 1.53184

Y-int: 2.82751 +/- 0.06142

m: -1.8458 +/- 0.03963

Dm: 34.0281

r: -0.9995

Data for Drug Combo: fu+cin (5-fu+cyn [4:1])

Dose A	Effect
57.6500+	0.328
115.310+	0.196
172.970+	0.078
230.62+	0.029

4 data points entered.

X-int: 1.75158

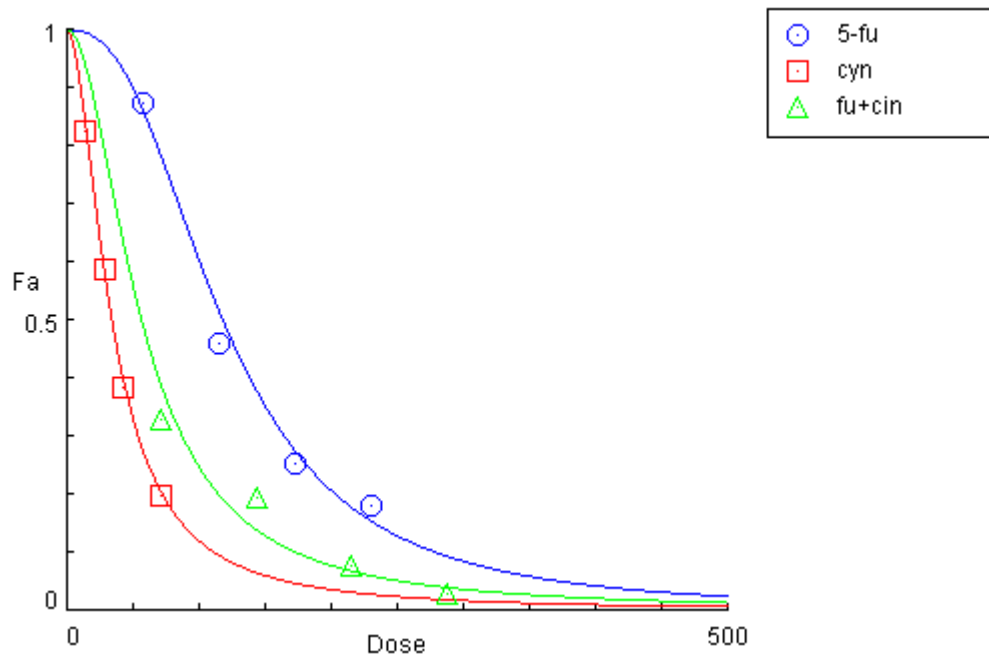
Y-int: 3.41804 +/- 0.90665

m: -1.9514 +/- 0.40944

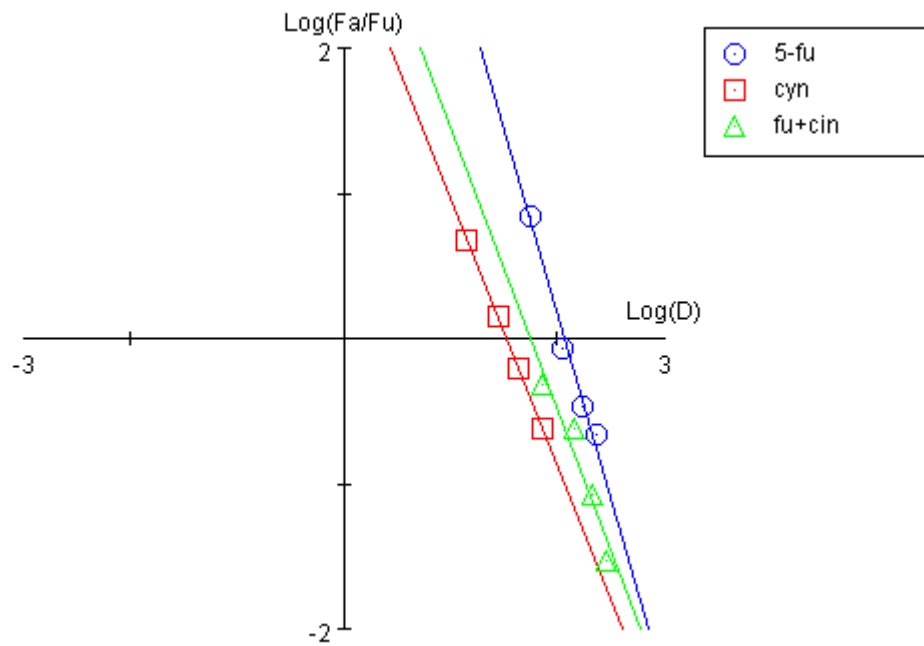
Dm: 56.4397

r: -0.9587

Dose-Effect Curve



Median-Effect Plot



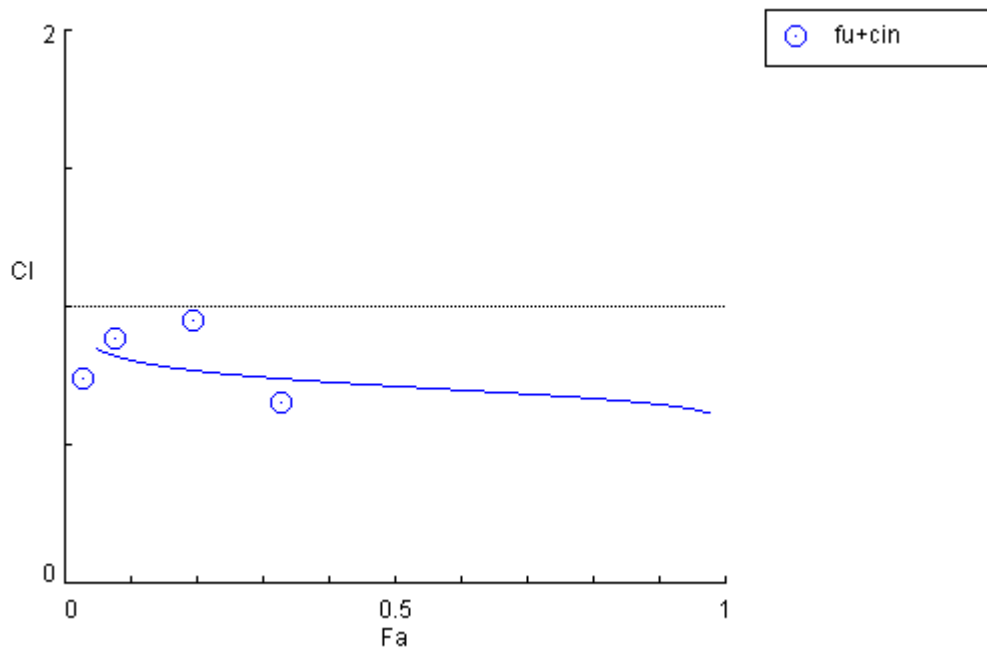
CI Data for Drug Combo: fu+cin (5-fu+cyn [4:1])

Fa	CI Value	Total Dose
0.05	0.84781	255.204
0.1	0.80834	174.016
0.15	0.78597	137.287
0.2	0.77011	114.845
0.25	0.75762	99.1031
0.3	0.74714	87.1276
0.35	0.73797	77.5096
0.4	0.72968	69.4742
0.45	0.72198	62.5526
0.5	0.71468	56.4397
0.55	0.70761	50.9242
0.6	0.70062	45.8507
0.65	0.69358	41.0974
0.7	0.68632	36.5606
0.75	0.67864	32.1427
0.8	0.67024	27.7368
0.85	0.66061	23.2027
0.9	0.64869	18.3054
0.95	0.63145	12.4820
0.97	0.62060	9.50515

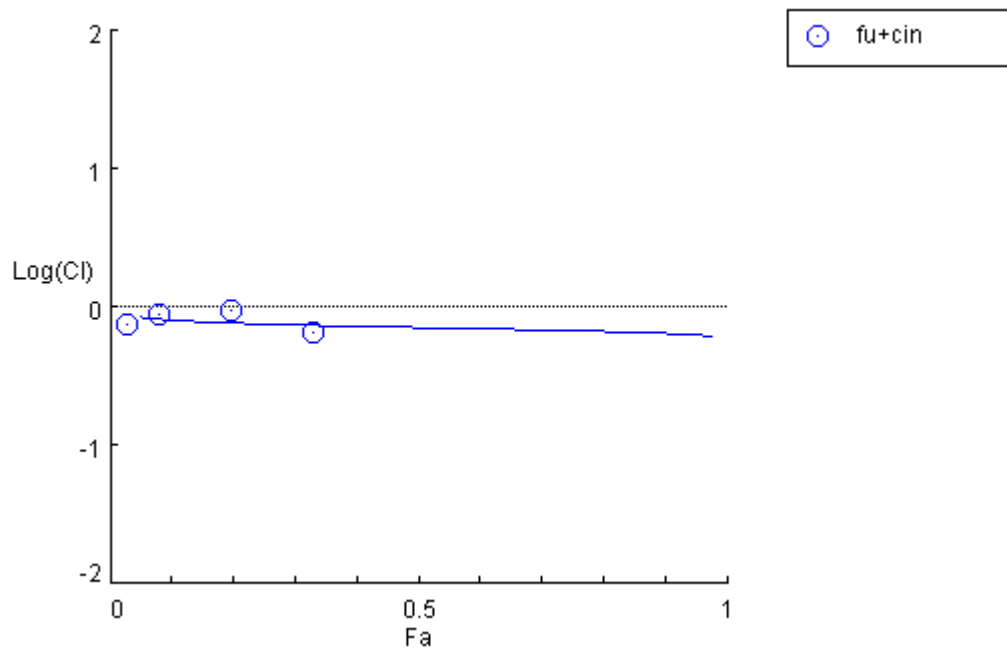
CI values for actual experimental points:

Total Dose	Fa	CI Value
72.0625	0.328	0.65589
144.138	0.196	0.95552
216.213	0.078	0.88843
288.275	0.029	0.74412

Combination Index Plot



Logarithmic Combination Index Plot



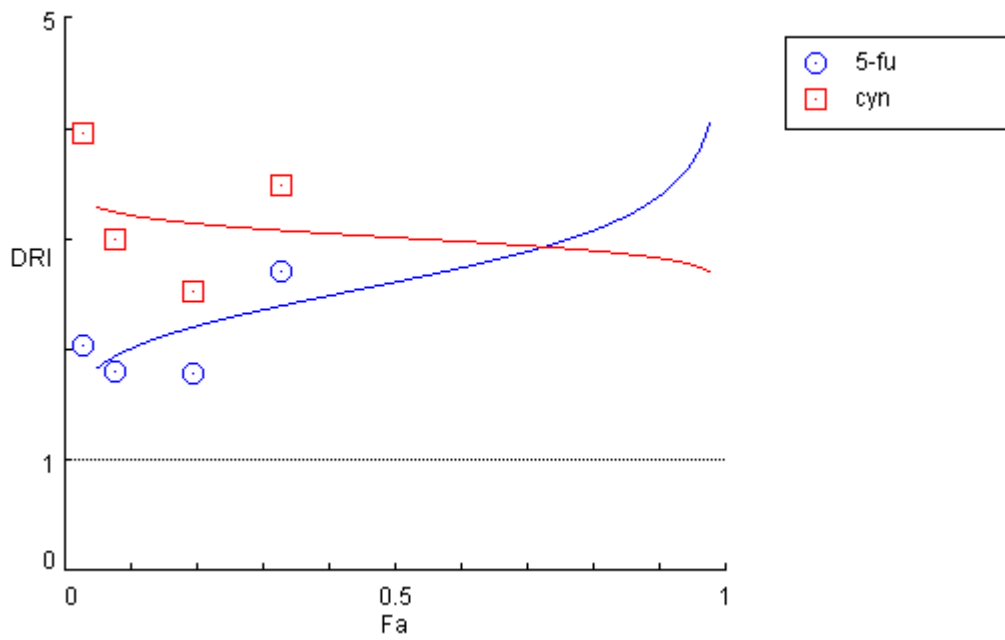
DRI Data for Drug Combo: fu+cin (5-fu+cyn [4:1])

Fa	Dose 5-fu	Dose cyn	DRI 5-fu	DRI cyn
0.05	375.635	167.732	1.83988	3.28625
0.1	279.935	111.895	2.01084	3.21506
0.15	233.340	87.0886	2.12456	3.17177
0.2	203.451	72.1125	2.21440	3.13955
0.25	181.673	61.7054	2.29147	3.11319
0.3	164.565	53.8509	2.36098	3.09035
0.35	150.427	47.5869	2.42594	3.06974
0.4	138.300	42.3874	2.48834	3.05059
0.45	127.591	37.9361	2.54968	3.03233
0.5	117.903	34.0281	2.61125	3.01455
0.55	108.950	30.5227	2.67431	2.99688
0.6	100.514	27.3173	2.74024	2.97894
0.65	92.4106	24.3326	2.81072	2.96035
0.7	84.4714	21.5022	2.88806	2.94062
0.75	76.5168	18.7651	2.97567	2.91904
0.8	68.3263	16.0570	3.07922	2.89453
0.85	59.5742	13.2958	3.20944	2.86513
0.9	49.6581	10.3482	3.39094	2.82655
0.95	37.0068	6.90333	3.70602	2.76532
0.97	30.0202	5.17568	3.94789	2.72257

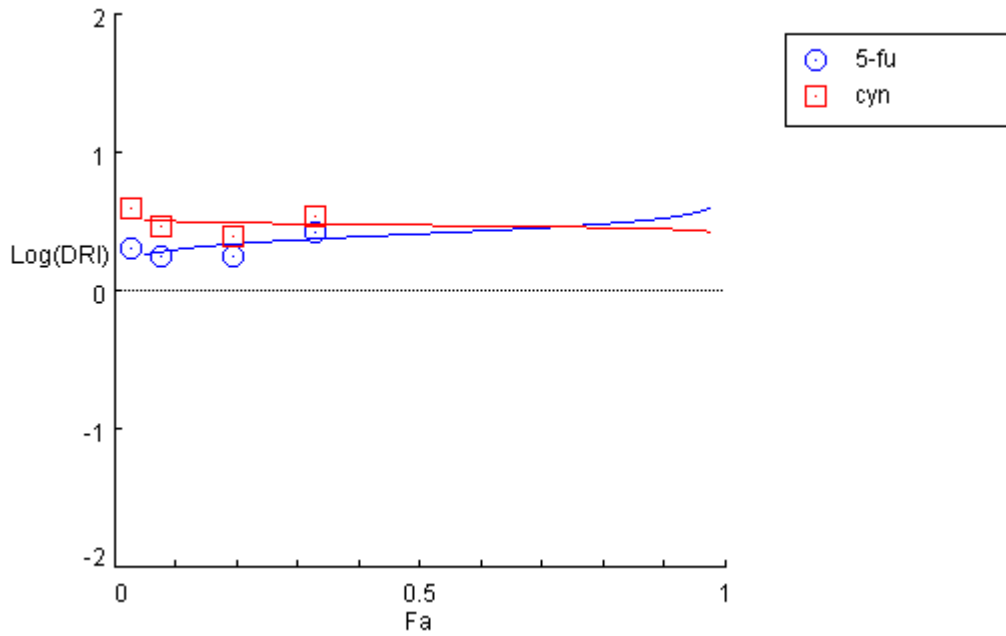
DRI values calculated at experimental points

Fa	Dose 5-fu	Dose cyn	DRI 5-fu	DRI cyn
0.328	156.354	50.1873	2.71213	3.48221
0.196	205.478	73.1034	1.78195	2.53588
0.078	311.638	129.703	1.80168	2.99943
0.029	469.466	227.996	2.03567	3.95448

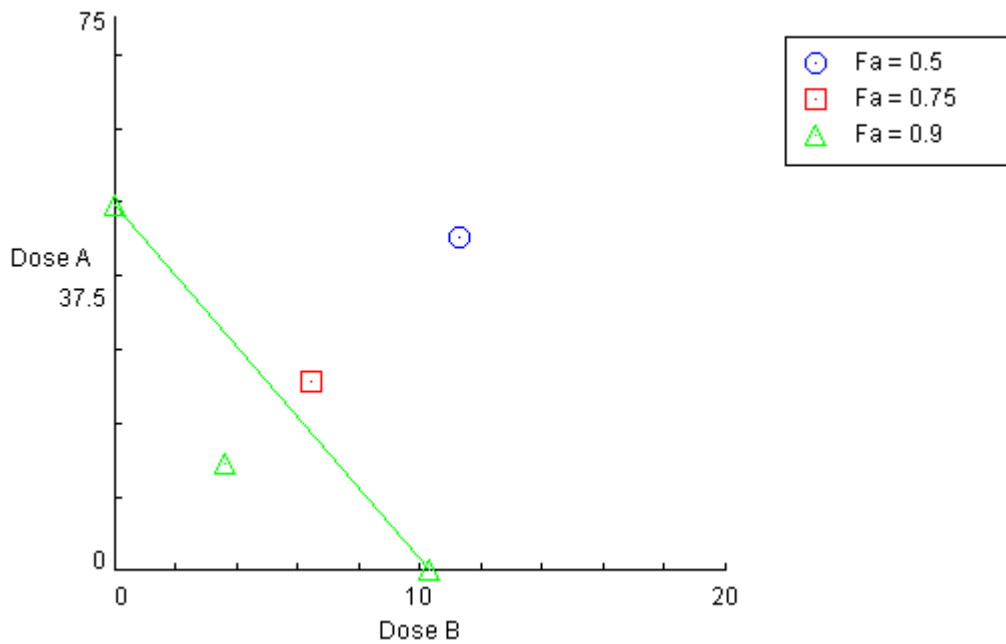
DRI Plot for Combo: fu+cin (5-fu+cyn [4:1])



Log(DRI) Plot for Combo: fu+cin (5-fu+cyn [4:1])



Isobologram for Combo: fu+cin (5-fu+cyn [4:1])



Summary Table

Experiment Name:	kh. nasirzadeh
Date:	2017
File Name:	C:\Users\sng\Desktop\kh. nasirzadeh\analyzed\5-fuCin72h.cse
Description	5flurouracill + cinaropecrin on kyse30 cell line, after 72h treatment

analyzed by N. Goftari

Drug: 5-flurouracil (5-fu) [uM]

Drug: cynaropecrin (cyn) [uM]

Drug Combo: 5flurouracill + cinaropecrin (fu+cin) (5-fu+cyn [4:1])

Drug/Combo	Dm	m	r
5-fu	117.903	-2.5410	-0.9924
cyn	34.0281	-1.8458	-0.9995
fu+cin	56.4397	-1.9514	-0.9587

CI values at:

Combo	ED50	ED75	ED90	ED95
fu+cin	0.71468	0.67864	0.64869	0.63145

Data for Fa = 0.5

Drug/Combo	CI value	Dose 5-fu	Dose cyn
5-fu		117.903	
cyn			34.0281
fu+cin	0.71468	45.1518	11.2879

Data for Fa = 0.75

Drug/Combo	CI value	Dose 5-fu	Dose cyn
5-fu		76.5168	
cyn			18.7651
fu+cin	0.67864	25.7142	6.42854

Data for Fa = 0.9

Drug/Combo	CI value	Dose 5-fu	Dose cyn
5-fu		49.6581	
cyn			10.3482
fu+cin	0.64869	14.6443	3.66108

Data for Fa = 0.95

Drug/Combo	CI value	Dose 5-fu	Dose cyn
5-fu		37.0068	
cyn			6.90333
fu+cin	0.63145	9.98557	2.49639

Data for Fa = 0.97

Drug/Combo	CI value	Dose 5-fu	Dose cyn
5-fu		30.0202	
cyn			5.17568

Drug/Combo	CI value	Dose 5-fu	Dose cyn
fu+cin	0.62060	7.60412	1.90103