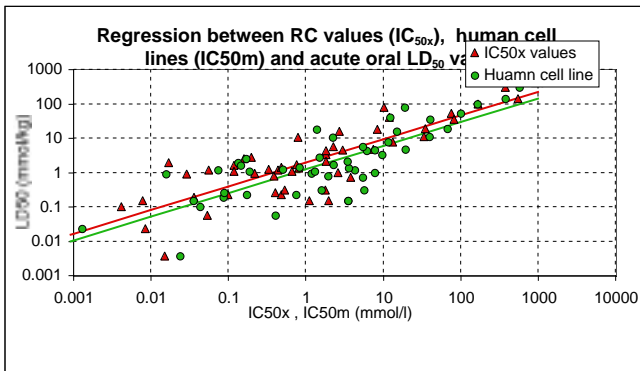
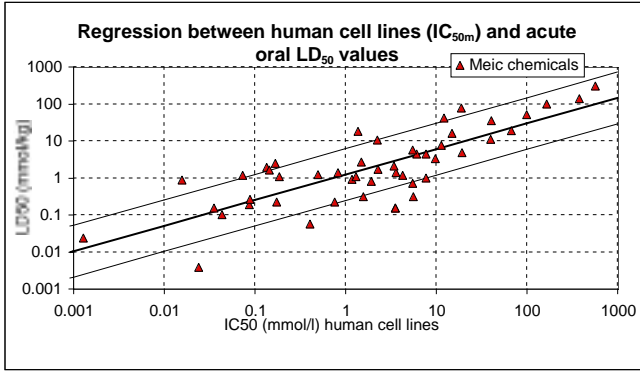
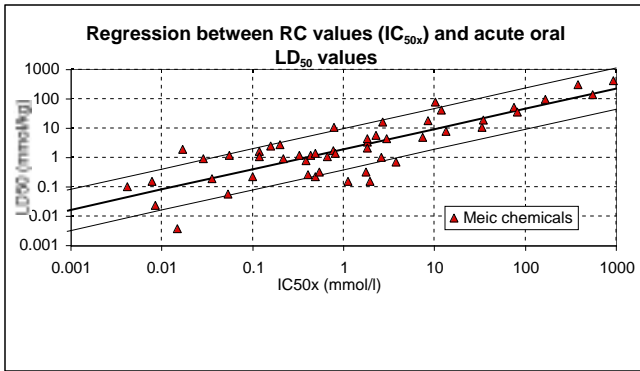
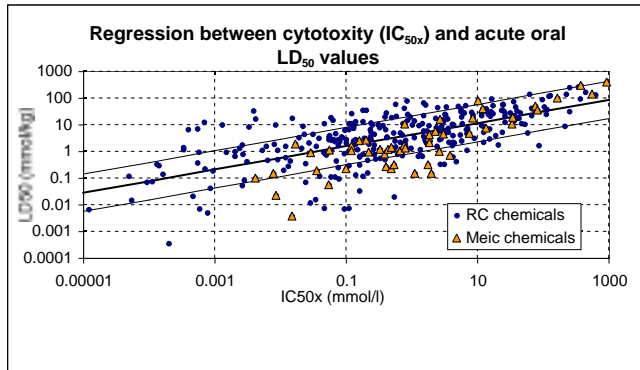


RC No	MeicNo	Chemical	IC 50x mM	Rat LD50 po (1) or Maus LD50 po
2		Actinomycin D	0.000081	0.0057
3		Aminopterin	0.000012	0.0068
132		Triphenyltin hydroxide	0.000049	0.12
6		Colchicine	0.000054	0.015
133		Cytochalasin D	0.000092	0.071
8		Digitoxin	0.00011	0.073
134		Rotenone	0.00013	0.33
9		Amethopterin	0.00014	0.3
10		Emetine	0.00016	0.14
135		2,3,7,8-Tetrachloro-dibenzo-p-	0.0002	0.00035
11		Doxorubicin * HCl	0.00033	1.2
12		Puromycin	0.00033	1.43
136		Diethyldithiocarbamate sodium	0.00039	6.66
137		Triethyltin chloride	0.00046	0.021
138		Tributyltin chloride	0.00054	0.37
139		Retinol	0.00054	6.98
140		6-Thioguanine	0.00057	0.96
13		Cycloheximide	0.00059	0.0071
141		Cytosine arabinoside	0.00068	12.9
142		Methylmercury chloride	0.00071	0.23
143		Triethylene melamine	0.00078	0.005
14		Mitomycin C	0.00084	0.042
144		Sodium bichromate VI	0.00093	0.19
15		8-Azaguanine	0.0013	9.86
145		Potassium chromate VI	0.0015	0.93
146		Potassium bichromate VI	0.002	0.65
16		Azaserine	0.002	0.98
147		Mitoxantrone	0.0024	1.32
148		Nitrogen mustard * HCl	0.0026	0.052
17		5-Fluorouracil	0.0026	1.77
149		Chromium VI trioxide	0.0027	0.8
150		Cis-platinum	0.0028	0.086
151		Hexachlorocyclopentadiene	0.0031	0.41
152		8-Hydroxyquinoline	0.0033	8.27
18		Captan	0.0039	33.3
153	26	Arsenic III trioxide	0.0042	0.1
154		Maneb	0.0042	16.9
155		Benzalkonium chloride	0.0052	1.1
156		Stearyltrimethylammoniumchlo	0.006	1.54
20		Cadmium II chloride	0.0064	0.48
157	38	Hexachlorophene	0.0079	0.15
21		6-Mercaptopurine	0.008	1.84
158		Dichlorophene	0.0083	10
22	6	Digoxin	0.0085	0.023
23		Daraprim	0.0089	0.51
159		Hexadecyltrimethylammoniumt	0.0089	1.12
25		Thio-TEPA	0.011	0.2
160		N-Methyl-N-nitro-N-nitroso- gu	0.012	0.61
26		Kelthane	0.012	1.55
161		Silver I nitrate	0.013	0.29
27		Chlorpromazine	0.014	0.44
29	28	Mercury II chloride	0.015	0.0037
162		Chlorhexidine	0.015	18.2
31	41	Chloroquine diphosphate	0.017	1.88
164		Oxatamide	0.019	3.31
163		Cetyltrimethylammonium chlori	0.021	1.31
165		Isoproterenol * HCl	0.022	8.96
166		Trisooctylamine	0.023	4.58
33		p-Chloromercuribenzoic acid	0.024	0.07
167		p,p'-DDD	0.024	0.35
168		Dicoumarol	0.027	2.11
169		Epinephrine bitartrate	0.028	0.012
170	29	Thioridazine * HCl	0.029	0.88
35		Flufenamic acid	0.029	0.97
171		Fumagillin	0.031	4.36
37		Aflatoxin B1	0.034	0.016
172		Nabam	0.035	1.54
173	39	Pentachlorophenol	0.036	0.19
174		Ambazone	0.038	3.16
175		Norepinephrine	0.039	0.12
176		Papaverine	0.045	0.96
177		Busulphan	0.046	0.0076
178		Salicylanilide	0.046	11.3
179		Acrolein	0.047	0.82
180		p-Phenylenediamine	0.05	0.74
181	30	Thallium I sulfate	0.054	0.057
38		Imipramine * HCl	0.054	0.96
182		Triton X-100	0.055	2.78
39		2,4-Dichlorophenol	0.055	3.56
183	5	Amitriptyline	0.056	1.15
184		Butylated hydroxytoluene	0.056	4.04
185		Heptachlor	0.059	0.11
186		Zineb	0.059	18.9
40		Chlordan	0.06	1.12
41		Chloroquine sulfate	0.06	2.6
42		p-Aminophenol	0.062	15.2
187		4-Hexylresorcinol	0.064	2.83
43		Aldrin	0.067	0.11
44		Hydroxyzine * HCl	0.067	2.31
188		t-Butyl hydroquinone	0.069	4.81
189		Antimycin	0.07	0.45



RC No	MeicNo	Chemical	IC 50x mM	Rat LD50 po (1) orMaus LD50 po
45		Quinine * HCl	0.075	1.72
190		Chlorambucil	0.076	0.25
191		Dimenhydrinate	0.076	2.81
192		1,3-Bis(2-chloroethyl)- 1-nitroso	0.078	0.093
193		5-Azacytidine	0.079	2.34
47		Naftipramide	0.084	3.45
48		Mefenamic acid	0.087	3.27
49		Parathion	0.093	0.0069
194		p-Toluyldiamine	0.094	0.83
50		Trypan blue	0.095	6.43
195		p,p'-DDA	0.099	2.1
196	40	VerapamilHCl	0.1	0.22
197		p,p'-DDE	0.1	2.77
51		Disulfoton	0.11	0.0073
198		Ioxynil	0.11	0.3
199		Cupric chloride	0.11	1.04
52		all-trans-Retinoic acid	0.11	6.66
200		Dimethylaminoethyl methacryle	0.11	11.1
53	43	Quinine sulfate	0.12	1.08
54	23	Propranolol * HCl	0.12	1.59
201		13-cis-Retinoic acid	0.12	11.3
202		Formaldehyde	0.12	26.6
55		Zinc II chloride	0.13	2.57
56		Manganese Ilchloride *4 H2O	0.13	7.5
57		L-Dopa	0.13	9.03
203		Thallium I acetate	0.14	0.13
204		Azathioprine	0.14	1.93
58		Dihydralazine sulfate	0.14	2.84
59		Tetracycline * HCl	0.14	13.4
205		Versalide	0.15	1.22
60		Indomethacin	0.16	0.034
61		p,p'-DDT	0.16	0.32
62		Cobalt II chloride	0.16	0.62
206		Diquat dibromide	0.16	0.67
63	4	Diazepam	0.16	2.49
207		Dieldrin	0.18	0.12
64		Bendiocarb	0.18	0.8
208		Undecylenic acid	0.18	13.6
209		Propylparaben	0.18	35.1
65		Oxyphenbutazone	0.19	3.08
210		p-Nitrophenol	0.2	2.52
67	15	Malathion	0.2	2.68
211		Catechol	0.2	35.3
68		2,4-Dinitrophenol	0.21	0.16
69		Secobarbital sodium	0.21	0.48
70	49	Atropine sulfate	0.22	0.92
212		p-Cresol	0.22	1.91
213		Ammonium persulfate	0.23	3.59
214		Thymol	0.23	6.52
71		Diphenhydramine * HCl	0.24	2.93
215		Chlorotetracycline	0.24	5.22
72		Butylated hydroxyanisole	0.24	12.2
216		Refortan	0.25	10.1
73		Carbaryl	0.26	1.24
74		Nickel II chloride	0.27	0.81
75		Trichlorfon	0.27	1.75
76		Sodium dodecyl sulfate	0.27	4.45
217		Amrinone	0.28	0.54
218		o-Phenylenediamine	0.31	9.89
78		6-Methylcoumarin	0.31	10.5
79		Phenylbutazone	0.32	1.22
80		2-Thiouracil	0.32	7.8
219		Hydralazine	0.33	0.56
81	27	Cupric sulfate * 5 H2O	0.33	1.2
238		Imidazolidinyl urea	0.36	9.34
220		m-Dinitrobenzene	0.39	0.49
82	44	Diphenylhydantoin	0.39	0.79
221		2-Nitro-p-phenylene-diamine	0.39	20.1
222		Glibenclamide	0.4	6.58
223	32	Lindane	0.41	0.26
224		n-Butyl benzoate	0.41	28.8
225		Ammonium sulfide	0.42	3.29
226		Dodecylbenzene sodiumsulfon	0.42	3.62
227	46	Sodium oxalate	0.44	1.16
228		2,4,5-Trichlorophen- oxyacetic	0.44	1.17
229	22	Dextropropoxyphene * HCl	0.49	0.22
230	42	Orphenadrine * HCl	0.49	1.39
231		Tween 80	0.49	19.1
232		o-Cresol	0.52	1.12
233		Ibuprofen	0.52	4.89
234		Phenylthiourea	0.54	0.02
235	25	Paraquat	0.54	0.31
83		Thiopental	0.55	2.48
84		Amobarbital	0.56	1.52
236		Hydrogen peroxide 90%	0.56	58.8
85		Metamizol	0.58	21.5
237		Beryllium II sulfate	0.61	0.78
239		m-Cresol	0.66	2.24
240		Pentoxifylline	0.66	4.98
86	31	Warfarin	0.67	1.05
241		Sodium azide	0.71	0.69
87		Pentobarbital sodium	0.71	0.81
242		1,2,4-Trichlorobenzene	0.71	4.17
243		p-Anisidine	0.73	11.4
244		Doxylamine succinate	0.75	1.21
88		Dibutyl phthalate	0.76	43.1
89	16	2,4-Dichlorophenoxy- acetic ac	0.77	1.67
90		Iproniazid	0.79	2.04

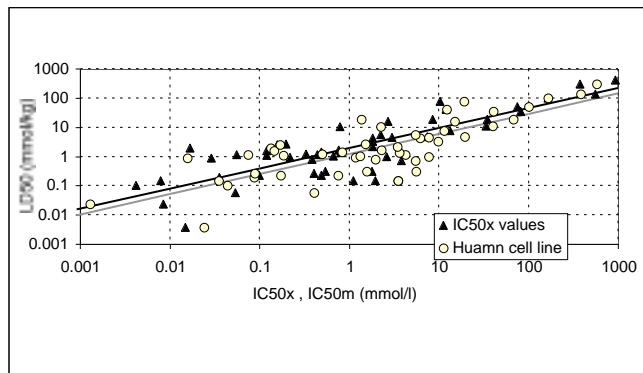


figure: Regression between RC values (IC50x), human cell lines (IC50m) and acute oral LD50 values

RC No	MeicNo	Chemical	IC 50x mM	Rat LD50 po (1) orMaus LD50 po
91	45	Chloramphenicol	0.79	10.5
245		Resorcinol	0.8	2.73
246	37	Barium II nitrate	0.81	1.36
247		(+)-Thalidomide	0.81	1.55
92		Di(2-ethylhexyl)phthalate	0.84	79.4
93		Sulfisoxazole	0.85	25.4
248		m-Aminophenol	0.86	15.2
94		Menthol	0.95	20.3
249		3-Cyano-2-morpholino-5-(pyrid	0.96	1.3
250		Valproate sodium	1	10.2
251		Scopolamine * HBr	1.08	3.3
95		Salicylamide	1.08	13.8
252	19	Potassium cyanide	1.12	0.15
96		Cygon	1.24	0.66
97		Phenacetin	1.27	9.21
253		Isoxepac	1.33	0.74
254		Buflomedil	1.35	1.19
98		Methylparaben	1.42	11.5
255		Sodium monochloroacetate	1.45	0.65
99		Nalidixic acid	1.5	5.81
256		Tin II chloride	1.51	3.69
257		Isononylaldehyde	1.52	22.8
100		L-Ascorbic acid	1.52	67.6
101		Glutethimide	1.56	2.76
102		Acrylamide	1.61	2.39
258		Diethyl sebacate	1.63	56
259		Methyl salicylate	1.7	5.83
260		Coumarin	1.71	2
103	18	Nicotine	1.79	0.31
104		Tolbutamide	1.81	9.62
105	21	Theophylline	1.83	3.33
261	3	Ferrous sulfate	1.85	2.1
106	14	Sodium I fluoride	1.85	4.29
262	47	Amphetamine sulfate	1.97	0.15
107	2	Acetylsalicylic acid	2.27	5.55
108		Gibberellic acid	2.3	18.2
109		Frusemide	2.33	7.86
110		Acrylonitrile	2.42	1.54
263		Acetaldehyde	2.45	43.8
111		Clofibric acid	2.61	5.82
112	48	Caffeine	2.64	0.99
264		Chloral hydrate	2.65	2.9
113	1	Acetaminophen	2.71	15.9
265		Streptomycin sulfate	2.73	0.34
114		Natulan * HCl	2.74	3.04
266		Potassium hexacyanoferrate II	2.82	9.02
267		p-Hydroxybenzoic acid	2.92	15.9
115	12	Phenol	3.01	4.4
268		1-Octanol	3.06	13.7
116		Cyclophosphamide * H2O	3.12	0.34
269		Potassium I fluoride	3.13	4.22
117		Di(2-ethylhexyl)adipate	3.15	24.6
270		Propionaldehyde	3.25	24.3
271		Styrene	3.3	48
272		Salicylic acid	3.38	6.45
273		Bromobenzene	3.46	17.2
274		L-Cysteine	3.56	5.45
275		Nitritriacetic acid	3.61	7.69
276		Ambuphylline	3.67	2.23
118	24	Phenobarbital	3.81	0.7
277		Potassium cyanate	4.14	10.4
278		Phenylephrine * HCl	4.16	1.72
279		Thioacetamide	4.17	4.01
280		Theophylline sodium acetate	4.19	2.22
281		1,2-Dibromomethane	4.2	0.62
119		Sodium salicylate	4.33	9.99
282		(-)-Phenylephrine	4.45	2.09
283		Milrinone	4.77	0.43
120		5-Aminosalicylic acid	5.07	50.6
121		Aminophenazone	5.39	4.32
284		Ammonium chloride	5.52	30.8
122		Diethyl phthalate	5.52	38.7
285		Caffeine sodium benzoate	5.67	2.54
286		Benzylpenicillin sodium	5.73	19.4
287		Benzylalcohol	5.81	11.4
288		1-Heptanol	6.25	28
289		Tetrachloroethene	6.54	53.4
290		Sodium sulfite	6.78	6.51
291		Aniline	6.9	4.72
292		Allylalcohol	6.94	1.1
293		Diisopropylamine dichloroacet	7	7.39
123	35	Isoniazid	7.49	4.74
294		Trichloroacetic acid	8.19	30.6
295		2,5-Hexanedione	8.45	23.7
124		Acetazolamide	8.49	19.3
125	34	Carbon tetrachloride	8.51	18.2
296		Homatropine methylbromide	9	3.24
297	11	1,1,1-Trichloroethane	10.3	77.2
298		Dichloroacetic acid	11.5	21.9
299		Imidazole	11.5	27.6
300		Antipyrine	11.6	9.56
301	17	Xylene	12	40.5
302		Nitrobenzene	12.2	5.2
303		Theophylline sodium	12.4	2.19
304		Calcium II chloride	12.4	9.01
305		n-Butanal	12.8	34.5
306		Anisole	13.2	34.2
307		2-Ethylbutanal	13.2	39.7

RC No	MeicNo	Chemical	IC 50x mM	Rat LD50 po (1) orMaus LD50 po
308	33	Chloroform	13.4	7.61
309		Isobutanol	13.5	39
126		Triethyl citrate	14.7	25.3
310		Tributylamine	15.4	2.91
311		1-Hexanol	15.4	7.04
312		Benzoic acid	15.7	20.7
313		Xanthinol nicotinate	15.8	32.5
314		Saccharin	16.4	92.8
315		Isobenzoic furano dione	17	27.1
316		Toluene	17.1	54.3
317		Barbital sodium	18.6	3.88
318		Trifluoroacetic acid	20.5	1.75
127		Dimethyl phthalate	23.4	35.5
319		Methylpentinol	23.8	5.35
320		N,N-Dimethylacetamide	24.2	58.4
321		Acetic acid	24.3	55.1
322		1-Pentanol	24.9	34.4
323		Urethan	25.9	28.1
324		2-Butoxyethanol	26	12.5
325		Cyclohexanol	26.3	20.6
326		Halothane	31.1	28.8
327	20	Lithium I sulfate	33.7	10.8
328	36	Dichloromethane	34.9	18.8
329		Sodium cyclamate	35.4	75.8
330		Sulfuric acid	36	21.8
331		Strontium II chloride	36.4	14.2
332		1,4-Dioxane	38.1	47.7
333		Lithium I chloride	38.6	17.9
334		Isobutanol	40.1	33.2
335		Potassium hexacyano- ferrate	42.3	17.4
336		Nicotinamide	44.4	28.7
337		Pyridine	46.9	11.3
338		1-Butanol	52.5	10.7
339		1-Nitropropane	57.9	5.11
340		Diethylene glycol	62.1	139
341		Lactic acid	66	41.4
342		Piperazine	67.2	22.1
343		Magnesium II chloride * 6 H2O	70.4	39.8
344	13	Sodium chloride	75.9	51.3
345		Sodium I bromide	77.4	33.4
346	50	Potassium I chloride	82	34.9
347		Thiourea	86	1.64
348		1-Propanol	96.5	89.8
349		Ethyl methyl ketone	104	47.1
350		Tetrahydrofurfuryl alcohol	111	24.5
351		Dimethylformamide	114	38.3
352		1,2,6-Hexanetriol	123	119
353		Ethyl acetate	128	125
128	10	2-Propanol	167	97.2
354		1,3,5-Trioxane	213	8.88
355		D-Glucose	226	143
356		2-Methoxyethanol	251	32.3
129		Dimethyl sulfoxide	252	252
357		Propylene glycol	342	263
358		Acetonitrile	368	92.5
130	9	Ethanol	379	304
359		Acetone	444	168
360	7	Ethylene glycol	555	138
131		Glycerol	624	137
361	8	Methanol	930	406
1		Trenimon	0.000033	
4		Vincristine sulfate	0.000015	
5		K-Strophantin	0.000044	
7		Ouabain	0.000072	
19		Cytochalasin B	0.005	
24		Ethylenediamine-tetraacetic ac	0.01	
28		Aldosterone	0.014	
30		Sodium arsenate, dibasic	0.015	
32		Hydrocortisone	0.022	
34		Diethylstilbestrol	0.025	
36		Progesterone	0.03	
46		Lead II chloride	0.043	
66		Cortisone	0.19	
77		Cinchophen	0.27	