Table 1. Database for drugs analyzed in this study.

Mechanism of action*	Drug†	NSC No.	mean -log GI50	std dev	# expts	average # lines/expt
A2	Mitomycin	26980	6.11	0.56	137	42.9
A2	Porfiromycin	56410	5.43	0.61	13	43.2
A6	Carmustine (BCNU)	409962	4.15	0.22	136	42.5
A6	Chlorozotocin	178248	3.21	0.40	10	45.8
A6	Clomesone	338947	3.72	0.38	15	43.1
A6	Lomustine (CCNU)	79037	4.35	0.31	56	38.9
A6	Mitozolamide	353451	3.93	0.31	15	43.0
A6	PCNU	95466	3.68	0.44	15	42.1
A6	Semustine (MeCCNU)	95441	4.37	0.18	15	39.9
A7	Asaley	167780	5.30	0.44	16	38.3
A7	Busulfan	750	3.22	0.36	4	54.8
A7	Carboplatin	241240	3.88	0.27	59	39.8
A7	Chlorambucil	3088	4.22	0.40	130	42.8
A7	Cisplatin	119875	5.38	0.37	127	41.4
A7	Cyclodisone	348948	4.41	0.26	14	44.1
A7	Diaminocyclohexyl-Pt-II	271674	5.51	0.50	16	44.0
A7	Dianhydrogalactitol	132313	4.33	0.51	16	40.4
A7	Diaziridinylbenzoquinone	182986	5.50	0.42	52	39.0
A7	Fluorodopan	73754	3.46	0.23	10	39.4
A7	Hepsulfam	329680	3.67	0.38	14	43.4
A7	Iproplatin	256927	4.45	0.31	16	40.0
A7	Mechlorethamine	762	5.52	0.57	56	39.9
A7	Melphalan	8806	4.56	0.38	56	38.2
A7	Piperazine mustard	344007	3.97	0.51	15	42.8
A7	Piperazinedione	135758	6.11	0.57	16	41.6
A7	Pipobroman	25154	4.16	0.28	56	38.8
A7	Spiromustine	172112	3.82	0.29	12	33.2
A7	Teroxirone	296934	4.90	0.47	15	43.3
A7	Tetraplatin	363812	5.91	0.52	13	43.8
A7	Thiotepa	6396	4.09	0.46	131	42.8
A7	Triethylenemelamine	9706	5.20	0.47	136	43.3
A7	Uracil mustard	34462	4.56	0.51	56	40.1
A7	Yoshi-864	102627	2.90	0.31	15	44.0
T1	Camptothecin	94600	7.40	0.58	9	38.3
T1	Camptothecin,7-Cl	249910	7.42	0.83	5	48.8
T1	Camptothecin,9-MeO	176323	7.10	0.97	4	52.0
T1	Camptothecin,9-NH2 (RS)	629971	7.36	0.74	5	51.2
T1	Camptothecin,9-NH2 (S)	603071	7.43	0.66	6	49.8
T1	Camptothecin,10-OH	107124	7.51	0.56	7	35.7
T1	Camptothecin,11-formyl (RS)	606172	5.69	0.69	3	50.3
T1	Camptothecin,11-HOMe (RS)	606173	5.43	0.60	2	46.5
T1	Camptothecin,20-ester (S)	606497	6.51	0.75	4	50.5
T1	Camptothecin,20-ester (S)	606985	7.42	0.79	2	51.5
T1	Camptothecin,20-ester (S)	610456	6.84	0.74	4	51.5
T1	Camptothecin,20-ester (S)	618939	7.19	0.75	3	51.7
T2	Amonafide	308847	5.49	0.21	16	39.9
T2	Amsacrine	249992	6.32	0.70	135	42.5
T2	Anthrapyrazole-derivative	355644	6.68	0.68	9	48.2
T2	Bisantrene	337766	6.76	0.67	11	39.4
T2	Daunorubicin	82151	7.10	0.58	78	45.8
T2	Deoxydoxorubicin	267469	7.34	0.55	7	49.3
T2	Doxorubicin	123127	6.84	0.56	1171	54.8
T2	Etoposide	141540	5.36	0.65	43	37.6
T2	Menogaril	269148	6.07	0.62	15	43.6
T2	Mitoxantrone	301739	7.19	0.71	13	40.1
T2	Oxanthrazole (piroxantrone)	349174	5.83	0.44	14	43.0
T2	Teniposide	122819	6.35	0.65	13	42.6
T2	Zorubicin (Rubidazone)	164011	6.59	0.49	16	40.6
Pi	L-Asparaginase	109229	-0.35	0.64	104	40.6
Db	Cyanomorpholinodoxorubicin	357704	10.29	0.32	11	46.1
Db	Hycanthone	142982	5.10	0.20	9	31.1
Db	Morpholino-adriamycin	354646	7.73	0.32	8	49.0
Db	N-N-Dibenzyl-daunomycin	268242	4.83	0.47	15	41.6
Db	Pyrazoloacridine	366140	6.56	0.29	15	43.4
Di	5-6-Dihydro-5-azacytidine	264880	4.63	0.75	16	40.0
Di	alpha-2'-Deoxythioguanosine	71851	3.80	0.38	15	43.3
Di	Azacytidine	102816	6.11	0.29	15	44.2
Di	beta-2'-Deoxythioguanosine	71261	5.94	0.50	15	44.7
Di	Thioguanine	752	5.91	0.46	135	43.3
Df	Aminopterin	132483	6.18	1.39	3	44.3
Df	Aminopterin-derivative	134033	6.60	1.23	3	43.0
Df	Aminopterin-derivative	184692	6.67	1.55	3	47.7
Df	an-antifol	623017	7.01	1.40	2	39.0
Df	an-antifol	633713	8.17	0.80	2	50.5
Df	Baker's-soluble-antifolate	139105	6.24	1.47	5	50.6
Df	Methotrexate	740	6.94	1.28	4	53.2
Df	Methotrexate-derivative	174121	8.05	0.87	3	51.0
Df	Trimetrexate	352122	8.58	1.11	4	50.8
Dr	Guanazole	1895	2.23	0.24	15	44.1
Dr	Hydroxyurea	32065	3.14	0.42	55	39.9
Dr	Pyrazoloimidazole	51143	2.59	0.39	15	43.6
Ds	Aphidicolin-glycinate	303812	5.02	0.78	14	42.4
Ds	Cyclocytidine	145668	4.73	1.37	17	38.4
Ds	Cytarabine (araC)	63878	4.82	1.49	132	39.7
Ds	Floxuridine (FUdR)	27640	6.39	1.13	4	54.5
Ds	Fluorouracil (5FU)	19893	4.63	0.73	1149	53.6
Ds	Ftorafur	148958	2.67	0.34	4	51.8
Ds	Thiopurine (6MP)	755	5.31	0.67	134	42.4
Rs	Acivicin	163501	5.50	0.48	16	39.4
Rs	Dichloroallyl-lawsone	126771	4.97	0.50	16	41.9
Rs	DUP785 (brequinar)	368390	5.80	1.07	10	42.5
Rs	L-Alanosine	153353	5.06	0.74	16	39.8
Rs	N-phosphonoacetyl-L-aspartic-acid	224131	3.35	0.75	15	39.5
Rs	Pyrazofurin	143095	5.26	1.03	12	43.6
TU	Colchicine	757	7.26	1.17	7	45.9
TU	Colchicine-derivative	33410	7.58	0.93	7	47.3
TU	Dolastatin-10	376128	9.53	0.42	4	47.0
TU	Halichondrin B	609395	8.93	0.48	4	47.8
TU	Maytansine	153858	8.23	0.33	5	52.2
TU	Trityl-cysteine	83265	6.01	0.51	15	42.7
TU	Vinblastine-sulfate	49842	9.04	1.00	134	39.0
TU	Vincristine-sulfate	67574	6.82	0.65	60	37.8
TU	Taxol (Paclitaxel)	125973	7.35	0.59	14	55.2
TU	Taxol analog	600222	5.65	0.68	2	54.5
TU	Taxol analog	656178	5.66	0.75	2	49.5
TU	Taxol analog	658831	5.43	0.83	2	50.0
TU	Taxol analog	661746	6.86	0.60	2	51.5
TU	Taxol analog	664402	6.85	0.71	2	49.5
TU	Taxol analog	664404	7.80	1.11	2	51.0
TU	Taxol analog	666608	7.00	0.72	2	54.0
TU	Taxol analog	671867	7.59	0.93	2	52.5
TU	Taxol analog	671870	6.11	0.59	2	55.5
TU	Taxol analog	673187	6.43	0.85	2	56.0
TU	Taxol analog	673188	7.30	0.97	2	54.5
P90	Geldanamycin	330500	6.26	0.60	12	42.4
Uk	3-Hydropicolinaldehyde-thiosemicarbazone	95678	5.79	0.40	15	43.3
Uk	5-Hydroxypicolinaldehyde-thiosemicarbazone	107392	5.01	0.45	14	43.0
Uk	Inosine-glycodialdehyde	118994	3.54	0.33	16	38.4

*Alkylating agents: A2, A7 = alkylating at N-2, N-7 position of guanine, respectively; A6 = alkylating at O-6 position of guanine; T1 = topoisomerase I inhibitor; T2 = topoisomerase II inhibitor;
Db = DNA binder; Di = DNA incorporation; Df: antifols; Dr = ribonucleotide reductase inhibitor; Ds = DNA synthesis inhibitor; Rs = RNA synthesis inhibitor;
Tu = tubulin-active antimitotic agents; Pi = protein synthesis inhibitor; P90 = hsp90 binder; Uk = unknown