

Supplementary table 1. The GEO accession numbers of 73 compounds studies in human HepG2 cells.

GEO accession numbers	Compound	Abbreviation	Sample Number (Test/Control)
GSE28878	Lindane	γ -HCH	3/3
	Cyclosporine A	CsA	3/3
	Cisplatin	cisPt	3/3
	Azathioprine	AZA	3/3
	Eugenol	EuG	3/3
	Diazinon	DZN	3/3
	Coumaphos	COU	3/3
	Benzo[a]pyrene	Bap	3/3
	Mitomycine C	MMC	3/3
	8-Quinolinol	8HQ	3/3
	Resorcinol	RR	3/3
	Cyclophosphamide	CP	3/3
	Dimethyl nitrosamine	DMN	3/3
	Bromodichloro methane	BDCM	3/3
	Diethylstilbestrol	DES	3/3
	l-Ascorbic acid	VitC	3/3
	Pentachlorophenol	PCP	3/3
	Ethylacrylate	EtAc	3/3
	Nitrobenzene	NBZ	3/3
	p-Anisidine	Anis	3/3
	Diethylnitrosamine	DEN	3/3
	2-Chloroethanol	2-Cl	3/3
	Aflatoxin B1	AFB1	3/3
	4,4'-Methylenebis(2-chloroaniline)	MOCA	3/3
	Progesterone	Prog	3/3
	Curcumin	Cur	3/3
	Chlorambucil	Cb	3/3
	Quercetin	Que	3/3

	Benzidine	BZ	3/3
	Ethylbenzene	EthylB	3/3
	7,12-Dimethyl benzantracene	DMBA	3/3
	2-(Chloromethyl) pyridine hydrochloride	2CMP	3/3
	Simazine	Sim	3/3
	Diclofenac	Diclo	3/3
	Ampicillin trihydrate	AmpC	3/3
	Caprolactam	CAP	3/3
	1-Ethyl-1-nitrosourea	ENU	3/3
	Tetradecanoyl phorbol acetate	TPA	3/3
	d-Mannitol	Dman	3/3
	Phenacetin	Phen	3/3
	Tetrachloroethylene	TCE	3/3
	Di(2-ethylhexyl) phthalate	DEHP	3/3
	4-Aminobiphenyl	ABP	3/3
	Acesulfame-K	ASK	3/3
	2-Acetyl aminofluorene	2AAF	3/3
	17beta-estradiol	E2	3/3
	Reserpine	Res	3/3
	1,1,1-Trichloro-2,2-di-(4-chlorophenyl) ethane	DDT	3/3
	4-Acetyl aminofluorene	4AAF	3/3
	Phenol	Ph	3/3
	2,3,7,8-Tetrachloro dibenzo-p-dioxin	TCDD	3/3
	Carbon tetrachloride	CCl4	3/3
	Furan	Fu	3/3
	2-Amino-3-methylimidazo[4,5-f] quinolone	IQ	3/3
	Acetaminophen	APAP	3/3
	Wy 14643	Wy	3/3
	Tributylinoxide	TBTO	3/3
	o-Anthranilic acid	AnAc	3/3
	Phenobarbital	phB	3/3
GSE40117	4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone	NNK	3/3

	cyclophosphamide	CYCLO	3/6
	phenobarbital sodium	SPB	3/3
	diclofenac sodium	SDF	3/3
	clonidine	CND	3/6
	2-nitrofluorene	2NF	3/3
	nifedipine	NIF	3/3
GSE6878	2,2',4,4',5,5'-hexachlorobiphenyl	PCB153	3/3
	3,3',4,4'-tetrachlorobiphenyl	PCB77	3/3
GSE4465	Trichostatin A	TSA	3/3
GSE51952	ethinyl estradiol	EE	3/3
GSE5230	5-aza-2'-deoxycytidine	5-aza-dC	4/4
GSE12161	Tumor Necrosis Factor a	TNF alpha	3/3
GSE25547	2-(4-(2-(1-cyclohexanebutyl)-3-cyclohexylureido)ethyl)phenylthio)-2-methylpropionicacid	GW7647	3/3