Count of DEGs scaled per compound and modality (row)
Comparison across Species

Qval−cutoff = 0.05

LFC−cutoff = 0.5

6 hrs

Qval−cutoff = 0.05

LFC−cutoff = 0.5

24 hrs

Compound

Compound	6 hrs CElegans	6 hrs Daphnia	6 hrs Drosophila	6 hrs Danio	6 hrs Xenopus	6 hrs HepG2	24 hrs CElegans	24 hrs Daphnia	24 hrs Drosophila	24 hrs Danio	24 hrs Xenopus	24 hrs HepG2
Propiconazole	275	86	16	168	51	779	786	298	581	1158	76	1288
Ampicillin (trihydrate)	0	0	12	69	1	39	278	148	101	209	2	146
Valproic acid	3588	167	1203	4	1399	286	2946	33	2251	31	906	4701
Tributyltin chloride	2558	0	3	4	778	3235	3731	55	1	15	na	5548
N,N−Dimethylacetamide	2767	384	1381	8	283	1727	3345	683	3312	5	371	2052
Fluoxetine (Fluoxetine Hydrochloride)	44	0	22	0	14	102	87	9	117	4	5	83
Estriol	27	1	9	7	2	37	14	5	36	26	15	12
Spironolactone	96	35	11	18	60	430	20	103	12	188	90	231
1,3−Diphenylguanidine	97	218	125	42	2	477	94	146	119	621	16	210
Triphenyl phosphate	127	331	44	38	28	2721	133	2299	25	246	27	5165
Clopyralid	0	33	1	18	0	14	0	238	2	70	2	513
Triamterene	109	128	0	0	0	123	62	32	1	13	0	1354
Clarithromycin	1	45	4	0	13	5	118	13	51	0	14	1914
Camptothecin	0	0	11	16	5	27	0	0	2	6	12	232
Prothioconazole	29	0	5	35	na	136	229	0	0	45	na	927
Vinclozolin	85	41	30	6	158	296	62	220	30	151	50	1582
Propofol	15	104	59	6	12	1141	39	456	19	38	0	3564
Retinoic acid	1	20	14	11	23	54	11	21	16	75	2	276
Testosterone	2	18	13	5	33	879	0	16	30	52	67	1954
5,5−Diphenylhydantoin	0	47	28	0	0	533	0	134	0	13	0	1017
Haloperidol	2	12	12	0	2	122	4	5	20	8	16	298
Azoxystrobin	21	0	127	1	na	388	28	4	63	0	na	918
Metyrapone	240	33	177	330	177	584	211	471	121	4054	558	6045
Nicotine	7	4	685	1	151	0	11	12	493	2	616	0
Caffeine	45	0	561	12	742	12	30	3	1025	51	545	2
N−[(2−methylpropoxy)methyl]acrylamide	972	15	987	38	294	3	1846	118	2116	67	1720	63
Azacytidine	1264	101	2694	13	81	1	1494	1	2734	57	2490	15
Imidazole	171	560	1122	871	92	1	782	847	616	na	774	0
Chloroquine	191	0	589	22	0	4	60	74	778	5	65	1
1H−imidazole−1−propylamine	123	164	1904	11	na	0	616	436	2718	8	na	0
2−ethyl−4−methyl imidazole	402	304	1879	1	237	0	1136	360	1524	13	na	0
N−methylaniline	143	10	983	201	47	190	197	9	763	449	93	39
Raloxifene	204	76	941	1	149	0	166	173	28	21	63	95
Nadolol	5	10	948	62	0	22	15	69	66	199	0	21
Flonicamid	0	0	1204	6	84	71	3	7	3673	28	199	554
1,2,4−triazole	279	1	1256	19	na	93	379	329	4257	120	na	889
Triethyltin bromide	306	1	954	17	105	1	845	2	3498	23	28	10
Hydroxyurea	247	38	1109	40	na	3	777	26	3060	221	na	1
Colchicine	36	0	71	0	0	0	34	1	3380	1	158	1
Acyclovir	4	52	48	3	0	25	14	4	1755	5	0	10
Fluconazole	4	0	166	207	14	4	422	3	1844	12	16	158
Methotrexate	0	0	187	3	0	0	56	247	821	1	1	1
Chlorantraniliprole	0	513	994	13	0	5	0	1445	3693	3	0	2
Perchloric acid	1	33	1234	648	na	20	37	91	2472	947	na	262
Atorvastatin	1	0	4	12	2	9	0	0	41	20	0	11
Pamidronic acid	62	0	915	2	96	43	927	360	3745	67	948	3225
2,6−dichlorobenzamide	16	0	131	13	14	44	34	2	551	105	26	444
Azidothymidine	7	0	152	0	30	547	836	1	1455	1	54	610
Imidacloprid	26	1	1141	11	641	1091	28	11	1098	49	na	1846
Pentamidine	55	25	11	0	2	0	55	31	8	21	5	1
2,4−Dichlorophenoxyacetic acid	308	206	18	10	0	0	467	100	83	32	15	0
Ethylparaben	721	125	29	34	33	142	1078	521	4	480	30	535
Cyclophosphamide	4787	52	867	40	254	17	4812	2823	1934	181	903	27
Butoxyethanol	830	270	291	4	0	17	1133	617	831	10	27	63
N,N−Dimethylformamide	2096	1149	512	1146	562	5	2355	1815	1055	815	833	11
Flecainide	117	1	3	0	4	2	22	79	3	1	0	41
atrazine (ATZ)	3134	252	73	3	817	92	1881	681	12	13	1161	91
Rotenone	1357	16	128	30	1374	59	2130	626	196	1	na	75
Tamoxifen	488	0	26	17	238	0	462	75	205	59	340	0
Lithium (cation)	4126	0	712	17	1125	82	6082	0	2003	6	5065	618
Ethanol	1717	3	292	0	240	25	1202	0	718	61	108	358
Bromodeoxyuridine	3838	21	168	1	1	1	3598	584	1451	15	15	571
Sulisobenzone	5072	930	1883	30	na	273	5126	725	4042	63	na	1291
Cyclosporin A	3429	0	0	0	37	0	3420	77	3324	31	345	0
5−Fluorouracil	3588	74	585	9	126	1	3660	687	3232	9	361	3
Perfluorohexanoic acid	2660	279	35	6	0	4	4395	157	93	3	5	0
Acetaminophen	941	4	137	0	38	9	1741	209	289	76	7	3
Citalopram	4540	0	33	18	0	63	5386	3	3	132	0	115
Pimozide	412	3	71	2	2	0	1083	0	285	25	23	1
Naproxen	849	7	30	98	17	53	2748	20	5	299	8	205
Enniatin B1	89	7	25	1	1	0	463	89	329	82	na	2
Cytosinearabinoside	253	0	77	18	48	1	2126	0	1205	45	11	0
Chlorpromazine	254	0	26	61	6	59	491	4	328	9	1	14
Tetracycline	0	2	0	6	0	1	612	19	20	17	1	20
Sulfadiazine	1	54	67	38	0	0	786	0	64	68	0	0
Toluene−2,5−diamine	66	4	94	2	na	78	403	140	1	8	na	83
Fingolimod	2	0	0	6	1	33	155	28	0	31	16	0
Phenacetin	136	217	633	14	4	86	2241	932	120	96	5	260
Carbendazim	44	113	94	10	31	1	269	63	9	18	0	2
MCPA	77	185	2	14	30	2	137	89	4	26	0	4
Ketoconazole	339	1001	20	59	56	26	1536	431	12	185	37	694
Aspartame	103	1059	218	210	48	60	678	855	140	261	220	1424
Methacrylamide	2026	2951	1435	41	638	709	2802	4084	1746	111	1908	1355
Enalapril	44	0	1	33	2	0	52	100	44	29	78	23
Sulfamethoxazole	170	0	1	0	1	10	414	336	99	24	160	2
Acrylamide	579	38	286	14	3	13	3019	2648	1275	60	953	0
Metformin (hydrochloride)	1930	323	1486	1	262	3	4519	3259	1044	5	na	413
Etaconazole	197	160	3	53	42	437	1054	1201	20	259	53	388
Thiabendazole	44	64	2	80	177	23	150	98	7	110	231	53
17alpha−Ethinylestradiol	19	0	0	16	40	1	58	0	2	63	64	0
Cyprodinil	476	230	0	90	146	3	687	227	0	674	518	11
2−methyl imidazole	915	397	915	12	15	0	2169	536	610	1774	2135	0
Tigecycline	72	13	14	0	0	0	705	325	17	0	597	1
Ciprofloxacin	2	0	0	2	78	122	748	34	148	299	492	292
Levonorgestrel	0	0	0	0	0	2	8	0	0	5	1	0
Methimazole	3782	0	1577	1178	2043	521	3674	58	4338	3176	na	708
2−ethylimidazole	2171	243	896	22	109	35	2801	1209	2140	3881	na	144
N,N'−diethylacrylamide	635	151	1461	1012	722	800	1257	909	2368	1664	2395	222
4−methyl imidazole	711	598	1580	681	580	0	1868	614	2021	2834	2187	0
Tiratricol	61	48	18	673	90	20	107	445	0	1646	2114	401
Levothyroxine	2	1	0	154	40	12	336	0	0	1014	1756	76
Terbutryn	225	17	67	283	783	216	148	66	19	3495	2497	216
Cortisol	1	0	23	342	207	45	9	26	13	505	555	74
Tebuconazole	59	20	0	37	158	1	45	12	3	120	250	15
Aldosterone	9	0	43	81	239	0	2	7	2	333	595	0
Dexamethasone	56	0	6	195	388	51	93	1	0	596	913	424
Ethofumesate	51	1010	22	683	427	295	72	264	4	926	1809	1459
Thiamethoxam	93	2	638	121	427	136	275	0	1762	894	4085	1009
1−ethyl−1H−imidazole	219	154	544	107	61	10	285	1073	686	974	2011	199
Propylthiouracil	97	80	156	118	304	610	193	506	159	388	1078	513
o−Aminophenol	80	0	165	97	136	21	289	45	20	158	1032	0
N,N'−bis−(2−hydroxyethyl)−2−nitro−p−phenylenediamine	95	1	127	63	177	1	96	0	4	43	597	7
N−(butoxymethyl)acrylamide	1163	37	874	71	588	17	2527	455	1271	242	6236	56
Omeprazole	403	121	26	56	878	28	529	59	40	249	3150	104
Hexachlorophene	129	3	0	na	833	4	440	4	409	na	2010	0
Tunicamycin	na	17	112	111	175	0	0	54	155	497	4770	74
Clomipramine	2	1	23	114	413	22	0	52	91	82	565	14
17−Methyltestosterone	71	7	0	43	378	3	61	58	3	110	629	0
Flutamide	8	7	6	17	324	22	0	19	7	52	375	38
Dasatinib monohydrate	81	0	0	3	3559	235	64	0	2	46	3200	316
Droperidol	0	0	0	2	100	50	11	44	0	26	120	6
Ethylenethiourea	598	124	295	100	1433	18	756	1	114	39	1235	60
PCB28	0	11	1	0	11	0	0	0	3	0	15	6
Chlorpyrifos oxon	0	151	8	0	319	108	35	3	181	10	508	8
Tetraethylthiuram disulfide	44	7	1	67	3575	20	35	37	690	3	1163	10
Mebendazole	0	2	84	38	1075	0	0	287	23	183	na	0
Chlorpyrifos	0	0	43	336	1595	323	0	0	0	1199	na	48
Amitriptyline	81	0	0	1	401	49	99	1	428	102	na	49
Niflumic acid	53	3	6	964	119	11	726	151	2	1993	69	4
1−Vinylimidazole	429	1	898	2570	na	2	1507	134	813	2574	na	4
Clofibric acid	2724	0	93	7140	9	418	3718	0	148	3820	8	2716
Estrone	1	24	7	92	0	3	1	9	33	59	0	0
Linuron	468	10	9	2129	596	43	428	394	18	279	508	5
Diphenylamine	335	61	0	3365	1042	55	201	267	8	na	na	11
Trichlorfon	0	0	246	346	0	2	6	226	276	1458	25	49
Triazole acetic acid	0	45	64	135	19	0	0	140	58	393	0	0
PFOA	156	100	200	882	2	0	1027	344	693	3530	193	2
Bisphenol A	151	119	13	154	164	0	372	470	2	2256	613	0
2,2−Bisphenol F	107	144	669	889	126	388	586	1042	653	4748	1507	1078
Picoxystrobin	0	1	0	2	1	8	0	6	6	61	1	0
Iopanoic acid	0	45	18	190	2	258	1	52	18	1736	41	17
Difenoconazole	7	16	17	157	321	48	7	386	8	1890	na	70
Epoxiconazole	1	148	25	333	na	321	2	301	80	2219	na	672
Prochloraz	213	50	8	527	na	10	164	847	0	1510	na	43
Imazalil	275	392	19	514	375	0	362	2606	6	5018	401	0
Pregnenolone	53	27	64	176	160	18	122	281	28	687	123	0
Ibuprofen	36	530	3	1684	9	2	23	604	14	4340	5	1
Fenhexamid	17	207	0	3808	51	26	120	846	46	10898	26	48
Progesterone	15	1	3	663	216	23	5	48	5	1662	38	9
Lidocaine	223	0	96	2872	2	4	200	1	1	3866	30	10
Fipronil	55	6	2	687	368	41	43	2	207	4358	356	9
5alpha−Dihydrotestosterone	21	0	9	192	96	32	15	71	21	325	131	22
Diuron	252	1055	34	989	311	20	200	392	15	2124	1238	54
1−methylimidazole	258	244	1841	1145	88	0	717	544	1609	3427	113	0
1,2−dimethylimidazole	123	186	1148	13	1	0	296	348	1577	3230	112	0
Sorafenib	0	407	12	22	22	14	0	3105	14	300	57	1
Hydroxyzine	3	444	30	0	47	0	66	2508	0	72	89	1
Cyproconazole	46	181	47	162	64	5	46	1030	160	252	362	5
Doxorubicin	23	45	17	0	222	4	103	781	40	0	na	25
Verapamil	69	438	2	11	0	4	44	573	0	47	0	118
Irbesartan	0	429	19	9	0	5	0	865	4	73	0	1
Pentachlorophenol	23	142	134	102	0	94	118	2469	5	90	0	1169
Lenvatinib	117	4	34	2	0	547	119	3117	18	9	4	1326
HC yellow 13	0	334	70	245	0	0	0	2387	143	221	0	877
Penconazole	50	75	4	11	na	513	67	885	3	38	na	625
Dutasteride	0	2	8	18	2	255	1	424	4	58	15	330
Triazole alanine	1	0	90	4	1	132	26	344	188	47	4	1
Fulvestrant	0	19	90	32	4	14	0	185	29	7	46	1
N,N'−methylenediacrylamide	1172	34	449	37	5	13	3100	4903	2537	978	621	0
Diclofenac	188	3	1	48	2	0	175	702	519	33	1	7
Tramadol	21	267	101	5	36	1	18	384	238	15	16	1
Fenbuconazole	117	13	21	52	na	129	168	598	182	794	na	228
Carbamazepine	18	59	33	61	28	5	22	139	47	189	0	16
Triadimenol	34	190	209	229	45	41	54	622	343	529	322	360
Mifepristone	76	53	117	43	38	30	48	185	21	140	12	63
Anastrozole	35	37	58	5	0	1	2	63	6	25	0	1
Tetrabromobisphenol A	1	163	31	44	357	0	0	325	11	43	233	1
Genistein	4	349	0	13	1045	396	104	1843	0	116	964	12
Rosiglitazone	2	224	25	25	65	5	3	608	49	151	204	21
Finasteride	35	109	7	13	436	4	38	1161	3	359	422	15
Methylparaben	96	80	0	14	48	30	33	346	1	143	157	20
6PPD	452	1078	3	142	432	55	591	2904	11	690	1891	38
Cyproterone acetate	97	145	331	59	255	39	75	788	2	163	564	72
Acetochlor	615	1843	123	219	1619	5	360	2632	11	846	4364	1
Itraconazole	195	474	0	43	16	99	73	2307	1	28	1876	103
Adefovir dipivoxil	14	89	67	8	6	79	8	1579	48	63	1458	294
Fenitrothion	333	47	7	47	na	1	71	1955	21	181	2591	3
17beta−Trenbolone	45	28	4	107	270	27	29	800	19	29	1167	548
Tenofovir	11	218	0	85	0	35	2	83	8	138	0	60
Bisphenol E	3	592	138	194	35	22	2	283	35	847	79	128
Myclobutanil	16	1074	28	388	38	825	16	1019	46	1028	138	40
Furosemide	0	626	63	1	11	0	3	469	3	18	29	0
DEET	127	1746	70	197	169	1	114	935	28	745	577	9
Amoxicillin	0	449	10	0	0	0	201	294	1	37	3	152
Bisphenol Z	0	538	4	9	na	18	1	77	24	6	na	49

CElegans Daphnia Drosophila Danio Xenopus HepG2 | CElegans Daphnia Drosophila Danio Xenopus HepG2

Cardiotoxicity Genotoxicity Hematotoxicity Hepatotoxicity Immunotoxicity Nephrotoxicity Neurotoxicity Ototoxicity

DEGs scaled
1.00
0.75
0.50
0.25
0.00

value
TRUE
FALSE

Use
Endogenous
Food and other consumption
Industry and consumer goods
Personal care products
Pesticide
Pharmaceutical
NA