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
Nadolol	5	10	346	62	0	22	15	69	66	199	0	21
N−methylaniline	143	10	993	201	47	190	197	9	763	449	93	39
Triazole acetic acid	na	na	34	na	na	na	na	na	58	na	na	na
Raloxifene	204	76	941	1	na	0	166	173	28	21	na	95
2−ethyl−4−methyl imidazole	402	304	1879	1	237	0	1136	360	1524	13	na	0
1H−imidazole−1−propylamine	123	164	1904	11	na	0	616	436	2719	8	na	0
Nicotine	7	4	685	1	151	0	11	12	493	2	616	0
Caffeine	45	0	561	12	742	12	30	3	1026	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
Flonicamid	na	0	1204	6	na	71	na	7	3873	28	na	554
1,2,4−triazole	na	1	1256	19	na	93	na	329	4597	120	na	889
Methotrexate	0	0	187	3	0	0	56	247	824	1	1	1
Triethyltin bromide	306	1	954	17	105	1	845	2	3695	23	28	10
Hydroxyurea	247	38	1109	40	na	3	777	26	3980	221	na	1
Fluconazole	4	0	166	207	na	4	422	3	1844	12	na	158
Enalapril	na	na	1	na	na	na	na	na	44	na	na	na
Chloroquine	na	na	589	na	na	na	na	na	776	na	na	na
Sulfamethoxazole	na	na	1	na	na	na	na	na	99	na	na	na
Triazole alanine	na	na	90	na	na	na	na	na	108	na	na	na
Colchicine	36	0	71	0	0	0	34	1	3390	1	158	1
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
Azidothymidine	7	0	152	0	na	547	836	1	1485	1	na	610
2,6−dichlorobenzamide	na	0	131	13	na	44	na	2	451	105	na	444
Imidacloprid	26	1	1141	11	641	1091	28	11	1988	49	na	1846
Verapamil	69	na	2	11	0	4	44	na	0	47	0	118
Tributyltin chloride	2558	0	3	4	778	3235	3731	55	1	15	na	6246
Valproic acid	3588	na	1203	4	1399	286	2946	na	2251	31	906	4761
Propiconazole	275	na	16	168	51	779	786	na	581	1158	76	1298
Triphenyl phosphate	127	331	44	38	28	2721	133	2299	25	246	27	5166
Clopyralid	0	33	na	na	na	14	0	238	na	na	na	513
Vinclozolin	85	41	30	6	158	296	62	220	30	151	50	1322
Propofol	15	104	59	6	12	1141	39	456	19	38	0	3664
Retinoic acid	1	na	14	11	23	54	11	na	16	75	2	275
Triamterene	109	na	0	0	0	123	62	na	1	13	0	1054
Camptothecin	0	0	11	16	na	27	0	0	2	6	na	292
Prothioconazole	29	na	5	35	na	136	229	na	0	45	na	927
Pamidronic acid	62	0	na	na	na	43	927	360	na	na	na	3225
Testosterone	2	18	13	5	33	879	0	16	30	52	67	1564
5,5−Diphenylhydantoin	0	47	28	0	0	533	0	134	0	13	0	1017
Haloperidol	2	12	12	0	na	122	4	5	20	8	na	268
Azoxystrobin	21	0	127	1	na	388	28	4	63	0	na	915
Metyrapone	240	33	177	330	177	584	211	471	121	4054	558	6049
Spironolactone	96	35	11	18	60	432	20	103	12	188	90	231
1,3−Diphenylguanidine	97	218	125	42	na	957	94	146	119	621	na	210
Triadimenol	34	190	209	229	45	41	54	855	343	529	322	360
Aspartame	103	1059	218	210	48	60	678	855	140	261	220	1488
Penconazole	na	75	na	na	na	513	na	885	na	na	na	625
Dutasteride	0	2	8	18	2	255	1	424	4	58	15	330
Rosiglitazone	2	224	na	na	na	5	3	608	na	na	na	21
Chlorantraniliprole	0	513	na	13	na	na	0	1445	na	3	na	na
Irbesartan	0	429	19	9	na	5	0	955	4	73	na	1
Tetrabromobisphenol A	1	163	31	44	na	0	0	925	11	43	na	1
Sorafenib	0	407	12	22	22	14	0	3167	14	300	57	1
Hydroxyzine	3	444	30	0	47	0	66	2308	0	72	89	1
Cyproconazole	46	181	47	162	64	5	46	1338	160	252	362	5
Fenbuconazole	na	13	na	na	na	129	na	995	na	na	na	228
Etaconazole	na	160	na	na	na	437	na	1291	na	na	na	388
Lenvatinib	117	4	34	2	0	547	119	3117	18	9	4	1326
Phenacetin	na	217	na	na	4	86	na	932	na	na	5	260
HC yellow 13	0	334	70	245	0	0	0	2587	143	221	0	877
Finasteride	35	109	7	13	436	4	38	1161	3	359	422	15
6PPD	na	1078	na	na	432	55	na	2904	na	na	1891	38
Cyproterone acetate	97	145	331	59	255	39	75	728	2	163	564	72
Fulvestrant	0	19	90	32	4	14	0	155	29	7	46	1
Difenoconazole	7	16	na	na	321	48	7	388	na	na	na	70
Fenitrothion	333	47	7	47	na	1	71	1955	21	181	2591	3
Adefovir dipivoxil	na	89	na	na	6	79	na	1578	na	na	1458	294
17beta−Trenbolone	45	28	4	107	270	27	29	800	19	29	1167	548
Tramadol	21	267	101	5	na	1	18	364	338	15	na	1
Anastrozole	35	37	59	5	0	1	2	63	6	25	0	1
Imidazole	171	560	1152	871	92	1	782	847	616	na	774	0
N,N'−methylenediacrylamide	1172	34	449	37	5	13	3100	4964	2537	978	621	0
Acrylamide	579	38	286	14	3	13	3619	2648	1275	60	953	0
Diclofenac	188	3	1	48	2	0	175	732	519	33	1	7
Methacrylamide	2026	2951	1435	41	638	709	2802	4964	1746	111	1908	1355
Furosemide	0	828	63	1	na	0	3	469	3	18	na	0
DEET	127	1746	na	197	na	na	114	935	na	745	na	na
Amoxicillin	0	449	10	0	na	0	201	294	1	37	na	152
Tenofovir	11	219	na	na	na	35	2	83	na	na	na	60
Bisphenol Z	0	538	na	9	na	na	1	77	na	6	na	na
Acyclovir	4	92	na	na	na	25	14	4	na	na	na	10
Tetraethylthiuram disulfide	44	7	1	67	3676	20	35	37	690	3	1163	10
Mebendazole	0	2	84	38	1575	0	0	287	23	183	na	0
Chlorpyrifos	0	0	43	336	1595	323	0	0	0	1189	na	48
Amitriptyline	81	na	0	1	401	49	99	na	4251	102	na	49
Clomipramine	2	1	23	114	413	22	0	52	91	82	535	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
Thiabendazole	na	64	na	na	177	23	na	98	na	na	231	53
Genistein	4	na	0	13	1045	396	104	na	0	116	984	12
Droperidol	0	na	0	2	100	50	11	na	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	16	6
Chlorpyrifos oxon	0	151	8	0	319	108	35	3	181	10	598	8
Thiamethoxam	93	2	638	121	427	136	275	0	1762	894	4065	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	1076	513
Terbutryn	na	17	na	na	783	216	na	66	na	na	2497	216
Omeprazole	403	na	26	56	878	28	529	na	40	249	3150	104
Hexachlorophene	129	3	0	na	833	4	440	4	409	na	2010	0
Itraconazole	195	na	0	43	16	99	73	na	1	28	1876	103
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	5239	56
Tebuconazole	59	20	0	37	158	1	45	12	3	120	250	15
Dexamethasone	56	0	6	195	388	51	93	1	0	596	913	424
Methylparaben	96	na	0	14	48	30	33	na	1	143	157	20
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
Cortisol	1	0	23	342	207	45	9	26	13	505	588	74
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	2787	112	0
Mifepristone	76	na	117	43	38	30	48	na	21	140	12	63
Pregnenolone	53	27	64	176	160	18	122	281	28	887	123	0
Bisphenol A	151	119	13	154	164	0	372	470	2	2256	613	0
Prochloraz	213	50	8	527	na	10	164	847	0	1519	na	43
Imazalil	275	392	19	514	375	0	362	2606	6	5018	401	0
Fipronil	55	6	2	687	368	41	43	2	207	1359	356	9
5alpha−Dihydrotestosterone	21	0	9	192	96	32	15	71	21	535	131	22
PFOA	156	100	200	882	2	0	1027	344	693	3630	193	2
2,2−Bisphenol F	107	na	669	889	126	388	586	na	653	4798	1507	1078
Picoxystrobin	0	1	0	2	1	8	0	6	6	87	1	0
Iopanoic acid	0	45	18	190	2	258	1	52	18	1748	41	17
Epoxiconazole	1	na	25	333	na	321	2	na	80	2273	na	672
Progesterone	15	1	3	663	216	23	5	48	5	1662	38	9
Ibuprofen	36	530	3	1684	na	2	23	604	14	4340	na	1
Tunicamycin	na	17	na	111	na	na	0	54	na	497	na	na
Aldosterone	9	0	na	81	na	na	2	7	na	539	na	na
Myclobutanil	16	1073	na	388	na	na	16	1019	na	1028	na	na
Carbamazepine	18	59	33	61	28	5	22	139	47	169	0	16
Diuron	252	1055	na	989	na	na	200	392	na	2123	na	na
Bisphenol E	3	592	na	194	na	na	2	283	na	847	na	na
Ethofumesate	51	1010	na	683	na	na	72	264	na	926	na	na
Niflumic acid	53	3	6	964	119	11	726	151	2	1345	69	4
Lidocaine	223	0	96	2872	2	4	200	1	1	3866	30	10
1−Vinylimidazole	429	1	898	2570	na	2	1507	134	813	2574	na	4
Estrone	1	24	7	992	0	3	1	9	33	59	0	0
Clofibric acid	2724	0	93	3140	9	418	3718	0	148	3820	8	2716
Linuron	468	10	9	2129	596	43	428	394	18	279	508	5
Diphenylamine	335	61	0	3369	1042	55	201	267	8	na	na	11
Cyclosporin A	3428	0	0	0	37	0	3428	77	3234	31	345	0
5−Fluorouracil	3684	74	585	9	126	1	3600	687	3232	9	361	3
Methimazole	3782	0	1577	1178	2043	521	4974	58	4338	3176	na	708
Cyclophosphamide	4767	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	2886	1149	512	1146	562	5	2355	1815	1055	815	833	11
Tamoxifen	489	0	26	17	238	0	462	75	205	59	340	0
Lithium (cation)	4126	0	712	17	1125	82	5982	0	2003	6	5065	618
atrazine (ATZ)	4284	252	73	3	817	92	1881	681	12	13	1161	91
Rotenone	1357	16	128	30	1374	59	2130	626	196	1	na	75
Sulisobenzone	5672	930	na	na	na	273	6125	725	na	na	na	1291
Citalopram	4540	0	33	18	0	63	5386	3	3	132	0	115
Pentamidine	55	na	11	0	2	0	67	na	8	21	5	1
Ethanol	1717	3	292	0	na	25	1202	0	718	61	na	358
Bromodeoxyuridine	3638	21	168	1	1	1	3588	584	1451	15	15	571
Flecainide	117	na	na	na	na	na	22	na	na	na	na	na
N,N−Dimethylacetamide	2767	384	1381	8	283	1727	3226	683	3512	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
2−methyl imidazole	915	397	915	12	15	0	3150	536	610	1774	2135	0
17alpha−Ethinylestradiol	19	0	0	16	40	1	58	0	2	68	84	0
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	2934	2187	0
Cyprodinil	476	230	0	90	na	3	887	227	0	674	na	11
2−ethylimidazole	2171	243	896	22	109	35	2801	1209	2140	3891	na	144
Ethylparaben	721	125	29	34	33	142	1070	521	4	480	30	535
Levonorgestrel	0	0	0	0	0	2	6	0	0	5	1	0
Carbendazim	44	113	94	10	31	1	258	63	9	18	0	2
2,4−Dichlorophenoxyacetic acid	308	206	18	10	na	0	457	100	83	32	na	0
Pimozide	412	na	71	2	2	0	1089	na	285	25	23	1
Naproxen	849	7	30	98	17	53	2748	20	5	299	8	205
Perfluorohexanoic acid	2660	279	35	6	na	4	4385	157	93	3	na	0
Acetaminophen	941	4	137	0	38	9	4741	209	289	76	7	3
Enniatin B1	89	na	25	1	1	0	483	na	329	82	na	2
Cytosinearabinoside	253	0	77	18	48	1	2126	0	1205	45	11	0
Chlorpromazine	254	0	26	61	6	59	481	4	328	9	1	14
Fenhexamid	17	na	na	na	na	na	120	na	na	na	na	na
Clarithromycin	1	na	na	na	na	na	118	na	na	na	na	na
MCPA	77	na	na	na	na	na	132	na	na	na	na	na
Metformin (hydrochloride)	1930	na	na	na	na	na	4509	na	na	na	na	na
Pentachlorophenol	23	na	na	na	na	na	178	na	na	na	na	na
Tetracycline	0	2	0	6	0	1	412	19	20	17	1	20
Sulfadiazine	1	54	na	na	na	0	786	0	na	na	na	0
Toluene−2,5−diamine	66	4	94	2	na	78	923	140	1	8	na	83
Fingolimod	2	0	0	6	1	33	133	28	0	31	16	0
Ciprofloxacin	2	0	na	na	na	122	746	34	na	na	na	292
Ampicillin (trihydrate)	0	0	na	na	na	39	270	148	na	na	na	146

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