	Name	CalceinAM positive cells	Mito Tracker positive cells	Cell count (total cells)	Average granule area per cell (JC10)	Total granule intensity (JC. 10)	Total cell area positive for CalceinAM	Average cell area (CalceinAM)	Average integrated intensity (CalceinAM)	Average nuclear area (Hoechst)	Average nuclesar intensity (Heechst)	Hits 2 pa
	Min (Ave-3stdev) Max (Ave+3stdev)	699 2001	733 2962	668 3053	80 244	863098 4103088	671017 1662865	246 1249	1693409 10019719	96 145	1486	
DMSO	Average StDev	1790 364		1055 399	162 27 17	2483093	1166941 165300		5056564 1307710	120 6	1649 54	
Nucleoside analog reverse transcriptase inhibitors (NRTI)	%stdev Abacavir Lamivudine	20 2471 2607	20 2302 2377	25 2544 2677	172 167		1393105 1397664	564 537	5100709 5266254	108 107	1652 1636	0 out of
	Stavudine Zalcitabine	2003 2007	2510 2552	2084 3129	166	2486774	1352329 1237930	483	4838715 3633366	103	1603	
	Zidovudine Tenofovir	2601 2662	2433 2266	2002 2627	163 170	2439436 2750340	1316271 1329610	471 622	3711061 3625443	102 105	1627 1679	
	Trovafloxacin Didanosine	1573 1663		1712 1700	166 160	2329067	1153355 1351175	732 817	3499725 4931298	131	1838 1701	
	Fialuridine Nevirapine	2734 1010	2478 1715	2014 1052	176 162	2297904	1377604 1361505	504 750	4622009 4659623	105 110	1640 1684 2876	
Anslings	Ketoconazole Itraconazole Miconazole	1706	1273	2281	121 101	1363998 1126168	673612 446	336	1070435 22944	155	3605 3640	7 out of
	Terbinafine HCI Econazole	1104	824	1199 1101	66	709463 196296	855290 21600	793	4012136 136709	131	1051	
	Amphotericin B Clotrimazole	2774 82	226	2978	216 36	200053	1134593 3000	49	2336788 495383	89	1642 3702	
Age as	(+)-Griseofulvin Troglitazone	1538 417	340	1692 470	163	2227719	1206724 322574	838 768 783	4794342 4400866 3921898	128 120 133	1719 2002 1761	2 out o
580	Ciglitazone Acarbose Ezetimibe	1567 2169	1620 2008	1626 2218 769	166	2678058	1220076 1320256	783 640	4343361 2300906	112	1751 1716 4176	7 out of
Se .	Niacin Simvastatin	1487	1414	1638	149	2229743	1239856	835	5464000 21996	138	1699 3005	2,000.00
S Sept	Lovastatin Atorvastatin	2283 1434	2065 1397	2377 1766	139	623765 2165065	1350645 656447	594 461	2930107 2618266	90	1932 2143	
cholesterol drups	Rosuvastatin Pravastatin	2605 2379	1652 2169	2705 2421	120 171	1899935 2811206	1320768 1404711	514 609	2997192 3645090	105	1811 1770	
Statins, C	Ciprofibrate Clofibrate	1469		538 2660	80	1037450	50500 270622	150 173	693132 607101	105 96	3344 1601	
55	Fenofibrate Gemfibrozil Aflatoxin B1	2649 1305	1997 1237	2954 1357	166 161	2468877 2393312	1017780 1169670	900 900	2196841 6819964 481892	96 141	1635 1695 2822	12 out o
	Aflatoxin G1 Sterigmatocystin	163	194	263 244	163 154	2320819 2230520	40953 6720	326 66	1162160 1618609	99 90	2310 2603	T SUR O
toons	Aflatoxin B2 Seneciophylline	1996 467	1866 342	2038 676	161 163	2420943	1310400 410523	667 813	4137102 2982666	124 122	6266 2166	
MI D	Zearalenone Fusariotoxin	156 150	233 137	372 261	160	36522 2698461	54158 17060	319	1244866 361264	93 67	2849 3237	
Known	Decoynivalenol 2,3-Dimethoxy-1,4-r	17.4 70	127 167	240 219 1092	152 113	2516765 1704608	60944 4010 642966	402 46	1563053 351484	103 88	2443 3466	
Arb-infarmatory	Nordihydroguaiaretic (*)Usnic acid Colchicine	968 165 510	137	1092 211 543	172	20989 16746 2667971	642066 87665	674 534 776	4536378 2676397 3532741	123 89 126	1673 2931 2147	
	Monocrotaline Sulfasalazine	1561 2469	1443 2206	1620 2567	165 164	2607937	1000343 1330913	695 542	6006158 5126634	130	1558 1607	12 out e
	Ketoprofen Cortisone	2355 2114	2158 1968	2424 2181	140 166	2126696 2399606	1315746 1333696	563 639	4262270 4618561	113	1600	
	Prednisone Methylprednisolone	1703 1531	1416	1746 1575	136 155	1951961 2274395	1322341 1136376	785 735	6188898 6387982	130 136	1647 1629	
	Leflunomide Acetaminophen	2457 1484	2190 1446	2603 1619	150	547912 2311062	1376583 1367372	560 934	3343326 6484960	100 127	1745 1672	
	Acetylsalicylic acid Cincophen	2014 1861	1908 1789 1960	2065 1900	108	1492044	1369635 1350221	605 732	6678356 5379562 4978753	120 126	1602 1639 1605	
	Gabapentin Nimesulide Dictofenac Na	2130 2089 1808	1960 1962 1706	2218 2200 1845	150 2 116	17132	1231224 1215321 1344008	618 620 767	3871214 5037639	119 116 119	1663 1621	
	Mefenamic acid Sulindac	1426	1338 1214	1472 1384	72	752768	1277456 1090847	904	7018186 5012467	139	1676 1623	
	Glafenine Tolmetin	54 1113	126 1013	613 1147	91 147	955104 2160451	1470 1092326	1316	163630 6195337	93 140	2956 1682	
	Naproxen Indomethacin	517 2647	2033	704 2940	160	1254664	884575 1040838	1347 393	6066878 2179674	132 00	1857 1547	
	Mercaptopurine hydr Phenylbutazone	2760 2531	2227 2096	3011 2025	119	1391193	1051783 977665	380 386	2084917 2111565	92 90	1524 1490	
	Quinine HCI 2H2O Piroxicam	2380 2623 2598		2511 2932 2005	109	34037	1171089 969706 1065549	492 367 408	2676245 2053584 2310981	93 93	1664 1603 1601	
82	Mesalamine Promethazine Chlorcyclizine	261	472 220	609	140	1905906	16362	67	315003 211440	0.4 0.4	3497 2609	7 out o
Anti- histamines	Famotidine Nizatidine	2780 2097	2161 1694	3066 2770	124 120	1877809	1024326 626076	369 284	2117816	00	1542 1504	
22	Zafirlukast Methapyrilene HCI	1177 2038	332 1421	1529 2692	24 84	243757	518899 542482	441 266	1801212 1225059	87 93	2476 1501	
785	Flutamide Ethinyl estradiol	1773 963	860	1005 1055	24 70	209073 706930	1006418 682829	611	4214626 4763985	123 116	1605 1841	6 out o
Homonal	Fluoxymesterone Metergoline Danazol	2136	2019 1420	2191 2176 661	166		1351672	634	7195581 2207	117 77 103	1587 4273 3476	
x	Tamovifen Diethylstilbestrol	174	766	1002	42	397356	0 50501	0 384	301705 1162674	73 100	4767 2050	
	Nicardipine Labetalol	64 2078	234 1396	278 2445	113	50564 1630600	3076 772906	42	1639061 1624504	97	3866 1602	10 out o
25.	Phentolamine Methyldopa	1841 2864	1111 2247	2694 3062	124 135	2053103	425340 1113036	231 360	949471 2321266	91	1493 1547	
Cardac drugs	Propatenone Flecainide	339 2636	#37 1809	093 2055	111		20462 906178	61 368	192218 1966686	82 86	3096 1627	
8	Amiodarone Amiodipine Coralgii	94 16	729 1261 400	832 1691	130	2342626 1680246	1722 44	10	519786 4538	108 20	4111 4862 4927	
	Coralgil rac Perhexiline Nifedipine	1860	1321 1761	2234 1902	6	33647	1317347	746	170904 4722479	70 77 121	4244 1626	
	Daxorubicin HCI Puromycin 2HCI	266	3 200	520	146 131	4634212 2142007	18291	6 60	0 264691	70 86	945 2611	12 out o
	Mitoxantrone di HCI Idarubicin HCI	0	0	0	66 63	634547 1299100	0	0	0	0 65	619	
300	Daunorubicin HCI Mitomycin C Floxuridine	630	636 2444	1236 3167	102 106 148	1426633	63867		248472	316 99	6701 2703 1692	
Anti-cance	Etoposide Paclitaxel	2969 3026 2624	2443	3167 3132 2974	132 04	1900769	1137973 1300379 935290		2351677 2669027 1615106	93	1711 1674	
-	Dacarbazine Bicalutamide	1683 2980	1510	1956 3074	136	1007331	832569		3356525 2927379	64 89	1074 1300 1609	
	Ifosfamide Cyclophosphamide	2040 2740	1620 2207	2269 3017	141 139		18291	484 372	2551877 2114643	62 90	1363 1666	
Neuroleptics	Chlorprothicene	2002	1006 1003	3007 1302	107	105836	0 472	364	2011776 17602	94 79	1650 4173	20 out 6
	Prochloperazine Haloperidol HCI	16 2697	2166 2266 780	2663 2060 1346	106 122	1635372	1276642	474	1992 2908866 4507	74 96 70	4800 1965 5648	
	Perphenazine Triflupromazine D,L-Venlafaxine	24 2067	1645	1345 2216 3057	127 09 154	1241050	33 72 1146831	400	4510 2521404	79 92	5640 4282 1674	
	Paroxetine Risperidone	14	545 2018	927 3041	62 113	754906 1612906	61 840501	320	5772 1697825	04	3902 1660	
	Sulpiride Clomipramine	2673 2196 79	1723 918	2060 1191	136	2100070 1624000	603666 931	275 11	1251314 10026	88 80	1517 3793	
	Desipramine Pimozide	540	1226 903	1636 1123	134	2107460 60060	27336 26	50 2	118495 6953	83 84	3224 4262	
	Thioridazine Fluphenazine Nefazodone		1312 560 94	1658 648 199	76 135 127	976614 2236716 1496716	144	5	345101 387113 276049	74 79	4706 5349 3146	
	Tolcapone Fluoxetine	454 78	387 505	526 705	127 52 146	446112	6620 402698 1424	879	275049 4445281 232706	120 120	3146 1908 3678	
	Chlorpromazine Mirtazapine	12 1672	862 1626	1209 1636	162 164	2170639	1297121	827	194130 4872742	76 119	4001 1725	
	Amitriptyline Trazodone	306 1678	427 1460	583 1632	167 143	2322820 2090010	101967 1140377	329 719	1162182 6198982	92 132	2486 1672	
	Imipramine (±)-Baclofen	519 2229	793 2048	1027 2296	167	2564391 2744054	640293 1357676	778 610	4032014 6367362	120	1914 1569	
	Bupropion Iproniazid	2289 1476	1407	2366 1499	167 166	2212654	1368442 1274905	060	5381282 6883388	112 141	1614 1605	
	Carbamazepine Phenytoin	2042 2433	1935 2151	2090 2626	165 151	2363727 1999171	1314127 1227247	645 611	6700210 4175857	120 107	1669 1669	

Supplementary Fig. S3. MPH assessment using iCell hepatocytes. Cells were treated with compounds from the Screen-Well Hepatotoxicity library (ENZO Life Sciences) for 72 h, then stained and analyzed as described in *Materials and Methods*. Data presented in the table were obtained after compound treatment with 100 μ M concentrations of compounds. Averages from duplicates presented for multiple read-outs. At the top of the table presented averages and standard deviations for the same values from dimethyl sulfoxide control wells (48 wells per plate). Table has been split into two panels (A and B) for convenience. (*continued*)

	Name	CalceinAM positive cells	Mito Tracker positive cells	Cell count (total cells)	Average granule area per cell (JC10)	Total granule intensity (JC- 10)	Total cell area positive for CalceinAM	Average cell area (CalceinAM)	Average integrated intensity (CalceinAM)	Average nuclear area (Hoechst)	Average nuclesar intensity (Hoechst)	Hits 2 par meters
	Gentamicin D Chloramphenicol	1867 2140	1809 2033	1899 2186	166 157	2584616 2253029	1425988 1393856	766 660	5493806 5607085	124 120	1677 1660	
	Chloroquine	72	271	366	174		2341	33	403982	84	2856	
	Rifampicin Quinacrine	2012 510	1875 757	2065 1096	92	1155817	1251058 38199	75	2597023 196888	114 143	1762 3980	
	Ceftazidime Doxycycline	2522 1169	2113 824	2639 1439		2479879	1201459	479	2869316	95 110	1381 3696	
	Norfloxacin	2446	1919 1909	2678 2837	84	1106061 1628607	951778	300 342	2385897	103	1632	
	Sulfamethizole Erythromycin	2422 1377	1260	1422		2520366	825152 1088100	788	1763154 6643380	137	1636 1690	
900	Clindamycin Nitrofurantoin	2072 1020	1898 869	2121 1195		2534417 2244756	1302779	631 538	4750055 3049386	116	1848 2408	
Antibiotics	Trimethoprim	1394	1299	1435	157	2295187	1108038	793	14094187	131	1418	
	Sulfamethoxazole Fucidin	1414	1324 1845	1444 2073		2395837 1648020	1193003 1425430		8186949 6186439	142	1582 2215	
	Minocycline Furazolidone	330	290	407	180	24176 3273965	227615	689 833	3076385 4769330	117	2178 2058	3
	Tetracycline	1436	1327	1467	160	2422032	1232968	859	5488822	133	1738	3
	Rifamycin t Pyrazinamide	2320	2106	2400	160 161	2357721 2502899	1264220	423 545	4223399	117	2342 1626	
	Isoniazid Ritonavir	2765 459	2439 955	2839 991	162	2369351 415462	1363432 526018	494 614	4519917 5309382	103	1590 1933	
	Cyclosporin A	634	580	730		771586	669430	1047	5705996	130	1897	
_	Azathioprine Coumarin	1748 2458	1683 2187	1791 2534	157 168	2220820 2434858	1378220 1299376		7660229 4731456	139	1623 1564	6 out o
92	Acenocoumarol	2440	2082	2651	8	57619	1052405	431	3667359	102	1580	100000000000000000000000000000000000000
/ascular	Dicumarol Warfarin	2823 2456	1644 1864	3104 2913	85	972739	1070181 824009		1807530 1772833	97 87	1792 1619	
>	Hydralazine Papaverine	2880 2057	2392 1505	3155 2400		2282693 802942	1042054 741022	362 361	2095651 1922518	92. 80	1641 2699	
	Indapamide	2702	2085	2996	136		988749	366	2088726	91	1606	2
	Meloxicam Penicillin V	2214 2430	2192	2205 2525	192		1384832 1279826		5003825 4600112	116 111	1673 1602	
	Metformin Spectinomycin	2571 2458	2329 2291	2669 2542	169 179	2597205 2907052	1343990 1344705	524 551	4557312 4148348	111	1636 1664	
	Chlorpheniramine	2567	2223	2651	167	2558107	1257933	491	3694322	103	1617	
	Streptomycin Dexamethasone	2062 1733	1926 1663	2144 1768	173	2891274 2772304	1267685 1362609	650 791	4118666 4312815	118 125	1702 1764	
	β-Estradiol DL-Lactic Acid	1621 1759	1581 1695	1659 1792		1608647 2578568	1339764		4350235 3918941	132 126	1741 1784	
	Theophylline	2158	1938	2266	169	2777902	1202146	589	3081771	117	1769	
S	Sucrose Ascorbic acid	1796 2062	1738 1954	1832 2112	167 166	2557413 2450364	1374969 1332789	773 668	7091152 5873762	122 118	1600 1602	
Confr	Biotin Sorbitol	2303 2233	2142 2096	2384 2299			1330850 1350327		5437314 5906239	114 113	1576 1568	
	Adipic acid	2192	2051	2249	154		1323423	605	5509750	115	1759	
totooic	Hexylresorcinol Glucono ô-lactone	1779 1666	1657 1615	1861	147	53128 2151270	1289309 1282000		4078109 6706004	129 128	1672 1567	
on-Hepa	Aspartame	1500	1454	1527	155	2257883	1329881	887	8188716	135	1541	
	Benzoic acid Propyl gallate	1477 1119	1401 784	1510 1161	125	1762608	1276707 1181734		7037365 8519668	138 138	1610 1614	
2	Methylparaben Tartaric acid	2802 2719	2346 2254	3124 2978	124	1748488 2012884	998156 1030816		4041564 5262757	96 96	1686	
	tert-Butylhydro-quind	2187	2011	2751	130		743122		4528180	96	1534	
	Natamycin Maltol	2721	2028	1159 3075			931927		1904628	96	2538 1573	
	Xylitol Citric acid	2699 2255	2149 1882	3148 3061	126 123	1771032 1684524	843816 767952	313 250	1673463 1147734	96 95	1615 1593	
	Sorbic acid	1759	1434	3040	125	1745013	703361		619814	99	1542	
	2-Phenylphenol D-Leucine	1883 1709	1450 1403	3019 2687	112	1538569	781899	258	3161777	97 105	1568 1564	
	Blank Blank	2004 1200	1872 1098	2148 1237	152 160	2259713 2441326	1093305 1208108	544 1014	4197579 6439395	123	1582 1645	2
s yc	Phenformin-HCI	1791	1084	2357	115	1611182	557807	312	1276630	83	2523	2 out o
hypoglyc	Tolazamide Tolbutamide	2789 2730	2321 2150	3138 3027	143	2064276 1706430	982331 1016293	349 368	2075384 2193918	91 89	1660 1607	
E	Thiabendazole	2083	1541	2776	97	1357967	596057	286	1421174	95	1560	
tors	Lisinopril Dihydrate Losartan potassium	2381 2556	2217 2285	2461 2636	168	2580158	1370233 1349178	528	5336777 3998267	112 105	1609 1644	
inhibitors	Captopril Enalapril	2106 2469	2002 2216	2165 2549	162 156	2346087 2236729	1326058 1258658		6284343 4885643	119 109	1565	
ACE:	Irbesartan	1282	1196	1330	110	1429696	1157463	905	7081655	145	1637	
⋖	Zileuton Propylthiouracil	2014 2723	1875 2275	2054 2932		2088922 2140422	1392312 1092120	700 401	8201360 2355382	120	1563 1502	2
convul	Dantrolene Valproic acid	1699 1859	1613 1774	1738 1890	130	1317833 2461218	1310025 1320068	775 712	4736268 3770574	130 122	1715 1756	
Other compound classes	Chlorzoxazone	2418	2128	2493	134	1811020	1301300	565	4291533	111	1609	
	Tretinoin Isotretinoin	2762 2546	1867 2394	2884 2980		47461 436693	1253952 823404		2536341 1516508	98 106	1671 1667	
	Pyrimethamine Disulfiram	2577 2510	2002	2696 2808	70	797744 509911	1113616 919909	432	2224737 1911734	91 95	1496 1636	
	(±) Kavain	2008	1901	2051	160	2395298	1381348	699	6303782	118	1610)
	Methylsticin Dihydromethylsticin	2156 2671	2046 2391	2212 2784		1982844 2421741	1323982 1249066		6424848 4038922	114	1548 1607	
	Yangonin	1977	1597 1888	2286 2205		1440423 1850605	1014378 1145650		962518 2410059	283 110	17411 1707	
	(+)-Pulegone	2127 1963	1840	2010	151	2285745	1298395	669	5176400	123	1600	
	Scopolamine HBr Salvinorin A	1421 857	1095 772	1479 909		2160803 2057164	871456 962655		5732987 7525914	143 143	1502	
	Diethyl 1,4-dihydro-2	1650	1616	1683	93	1037102	1398972	850	5658388	130	1655	5
	Forskolin Cholic acid	1424 1665	1427 1595	1621 1706	134	1908047	870054 1296717	780	3290687 5287366	130 130	2035 1613	3
	Diltiazem HCI Collidine	1443 1392	1406 1281	1516 1432		2128325 2049719	1224170 1188432		5625680 6045356	129 143	1669 1643	
	Methotrexate	918	825	964	147	2022974	1075471	1171	6438031	145	1763	1
	Glibenclamide Buspirone HCI	2099 2439	2074 2212	2152 2491	132 163		1283475 1337064		4811926 3654355	118	1664 1778	
	Bosentan	1968 1267	1921 1215	2073 1324	122		1093588 1168030	559	3933230 6508202	115 140	1667 1657	
	Lithocholic acid Tauroursodeoxy cho	1137	1042	1182	158	2413882	1127717	997	6536572	144	1644	
	Thiobenzamide Furosemide	902 2101	870 2008	940 2158		1522075 2442641	833119 1369319		6241159 6002015	131	1756 1581	
	Diethylcarbamazine	1682	1611	1736	142	2007275	1193950	712	14931628	128	1446	
	Tacrin HCI Letrozole	1463 1582	1426 1501	1497 1621		2125393 2496364	1312383 1276366		7648866 5954563	128 133	1660 1643	
	Zoledronic acid (±) Clopidogrel	1157 2037	1100 1875	1205 2149		2429888	1086459		3705255 3289804	138	1833 1671	3