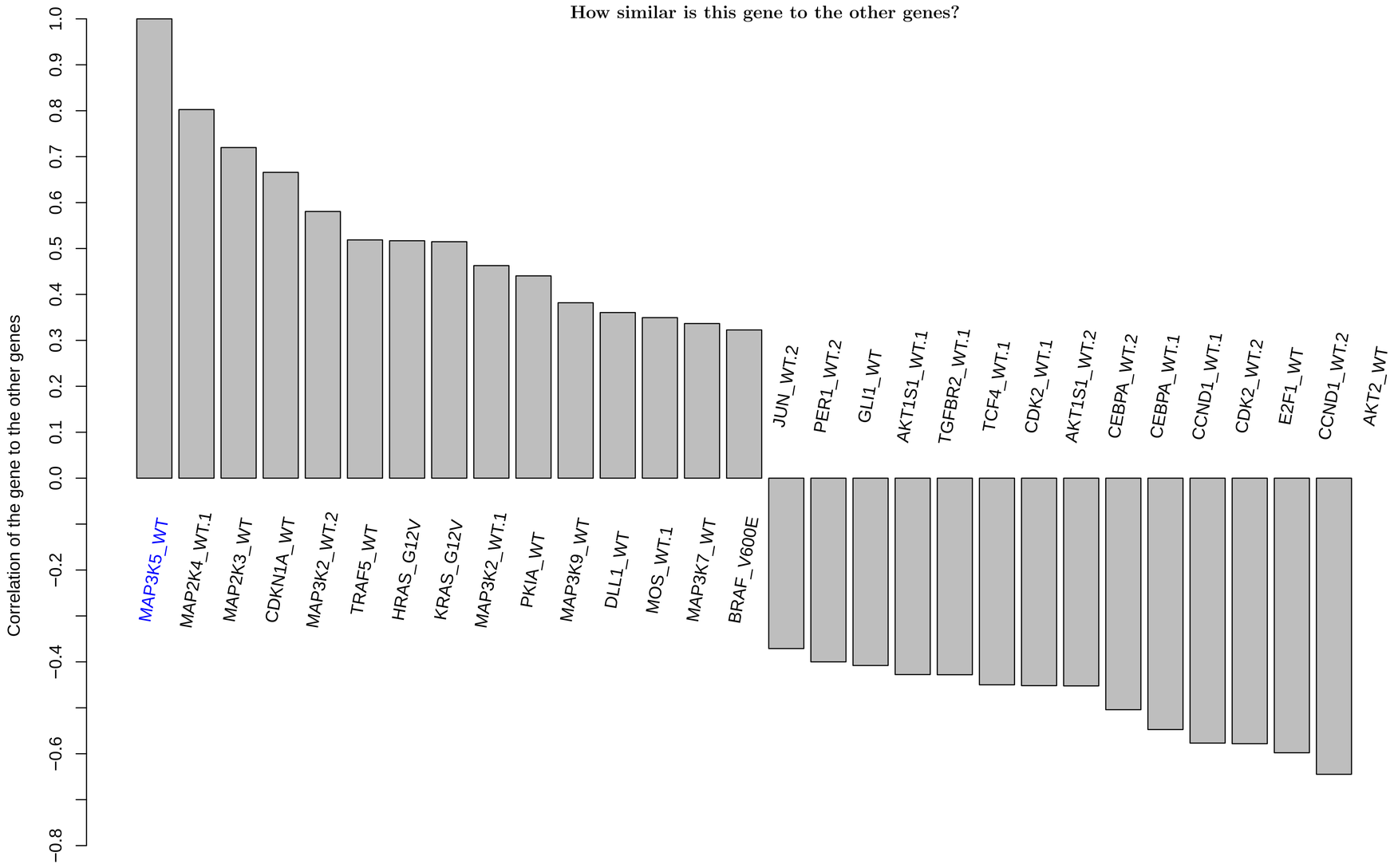
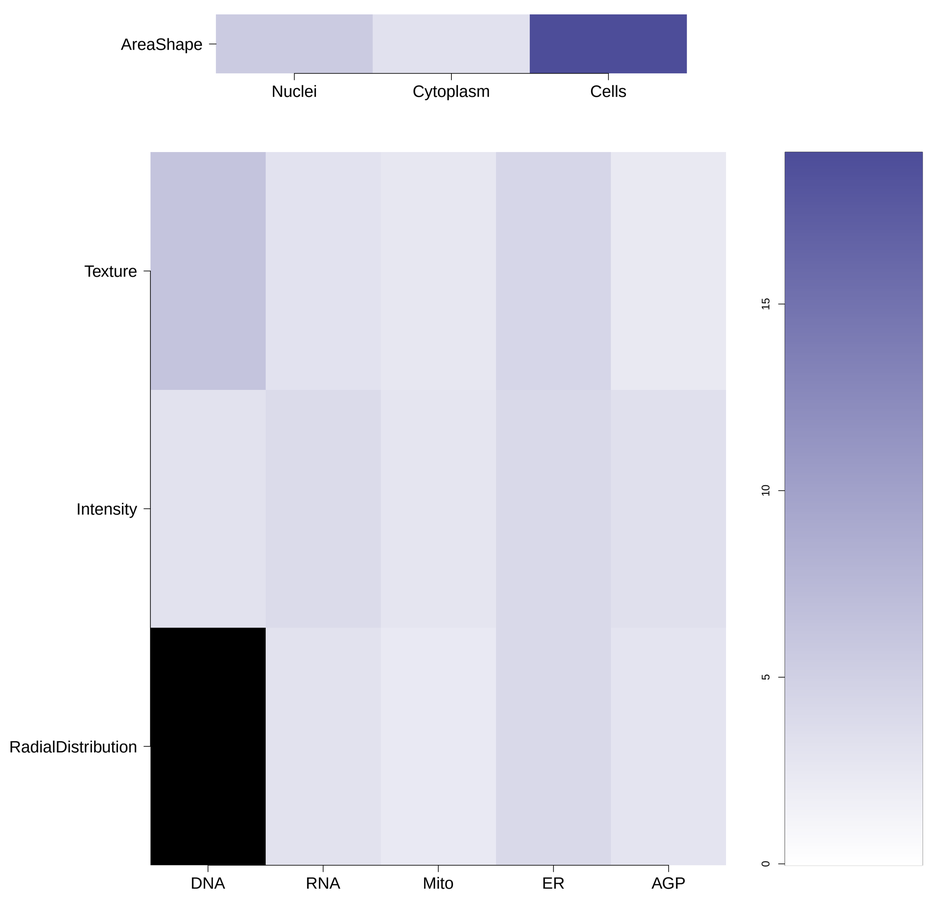
MAP3K5_WT - in Canonical MAPK

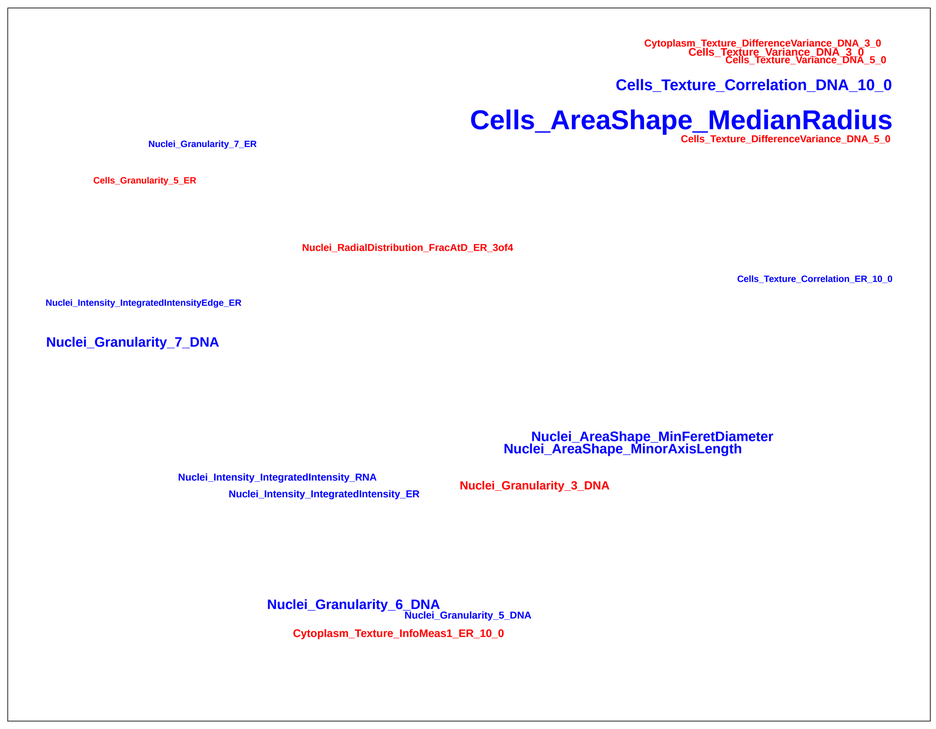
How similar is this gene to the other genes?

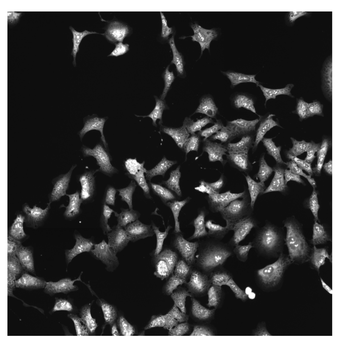
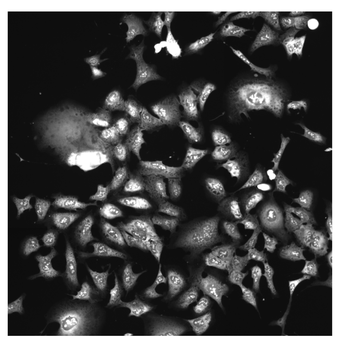
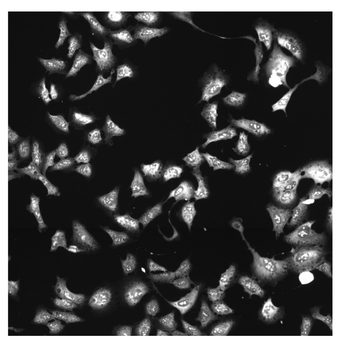
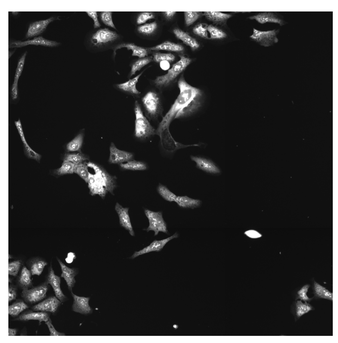
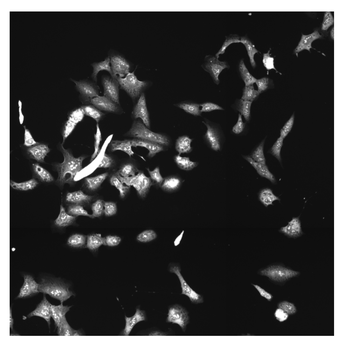
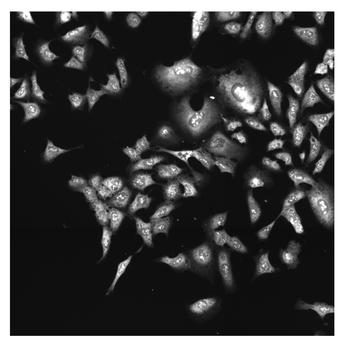
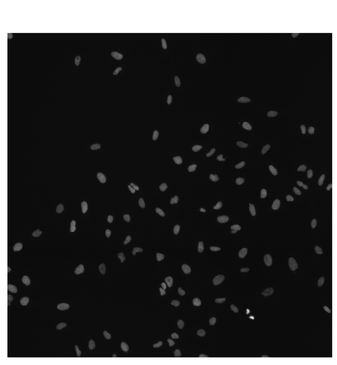
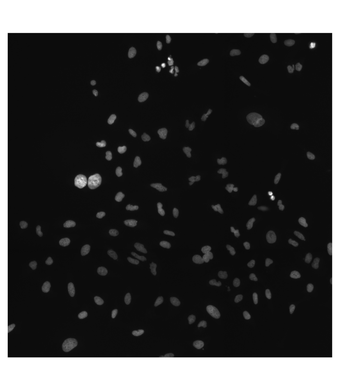
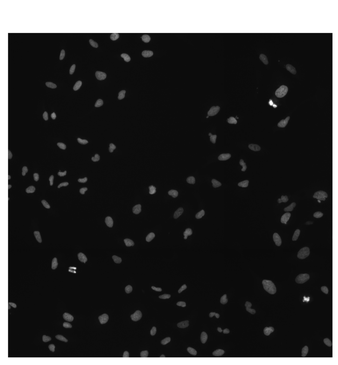
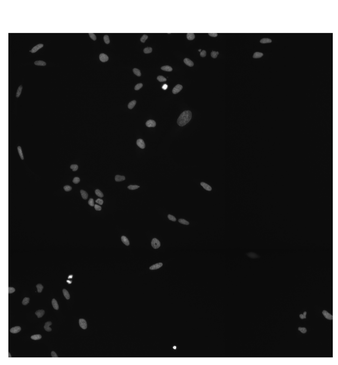
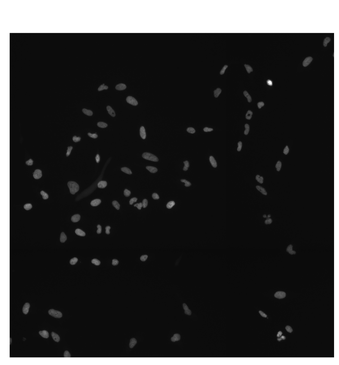
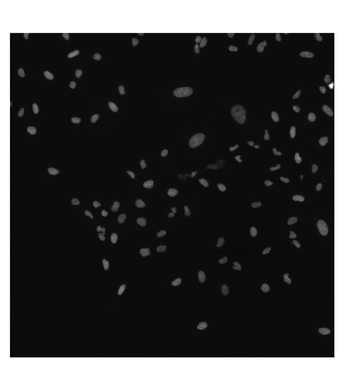


What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the category

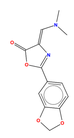
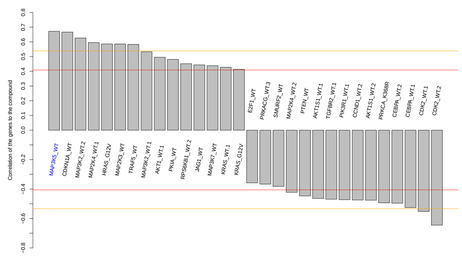
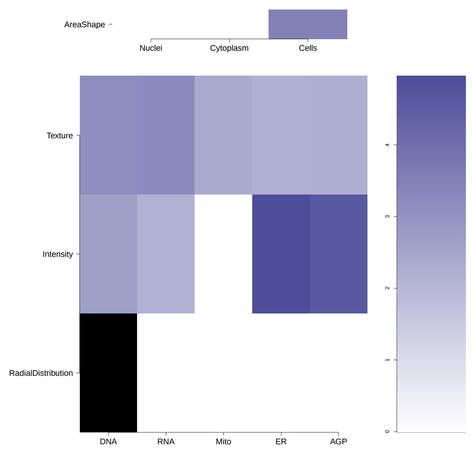
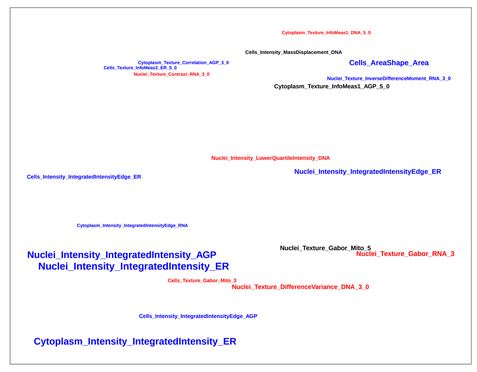
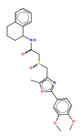
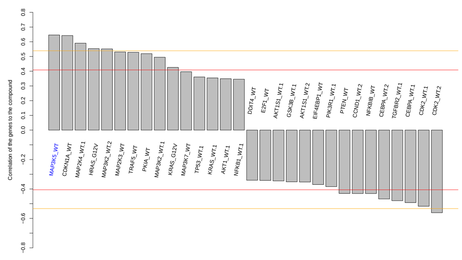
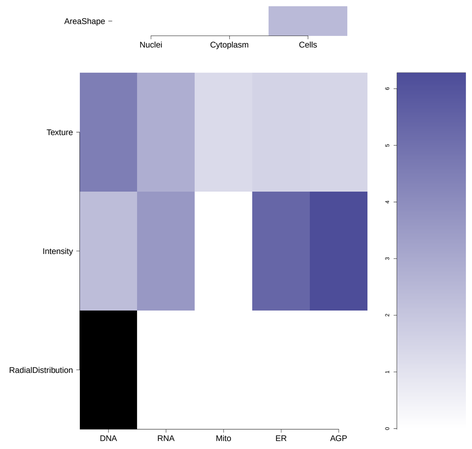
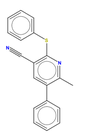
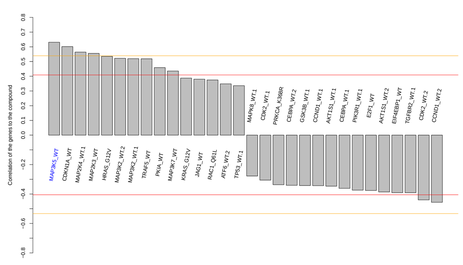
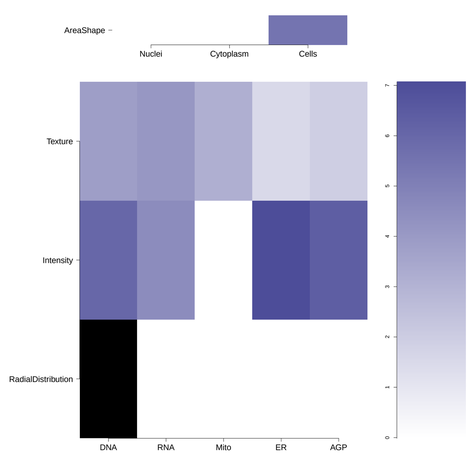
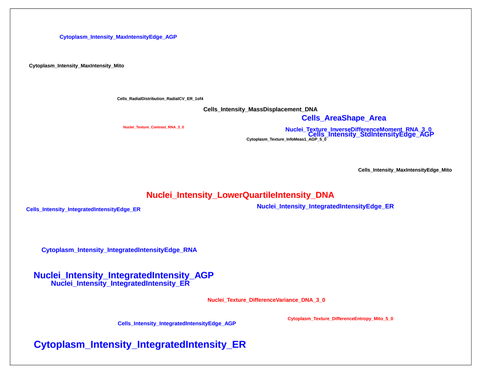
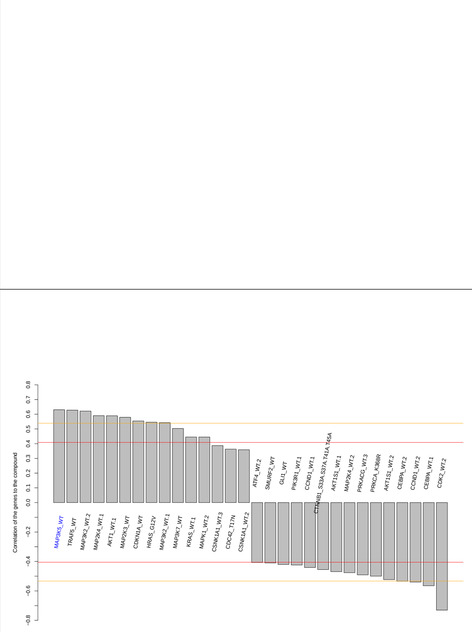
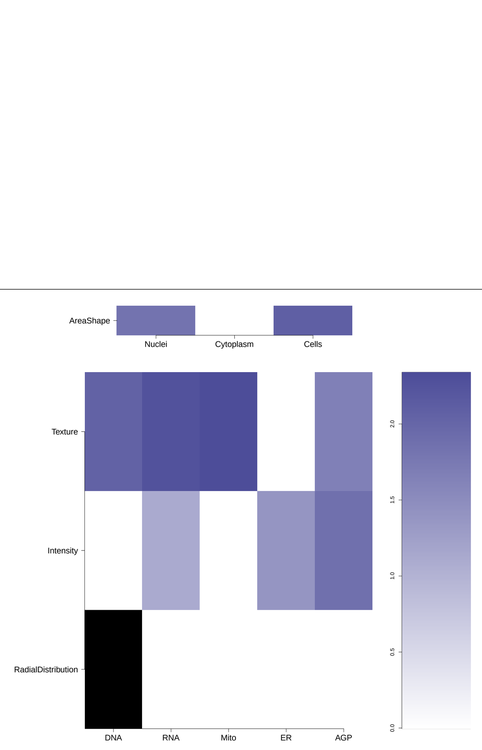
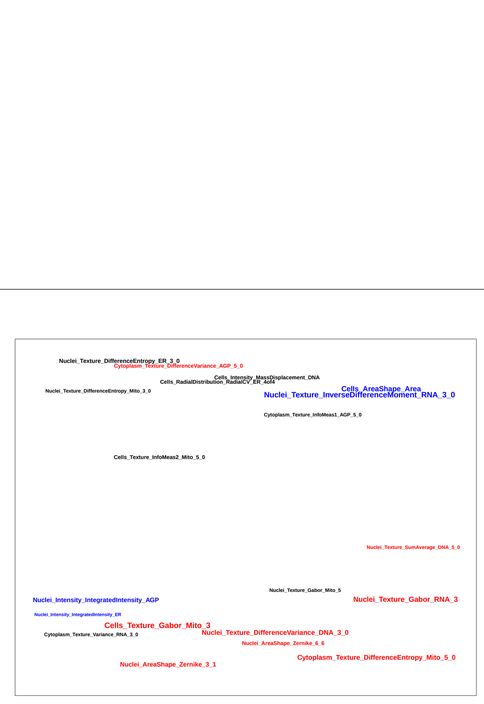


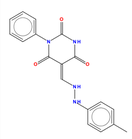
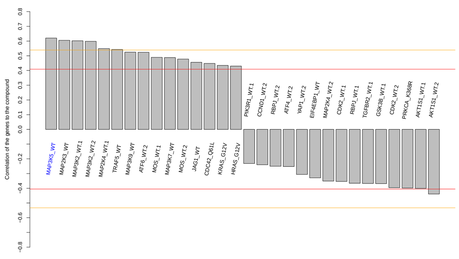
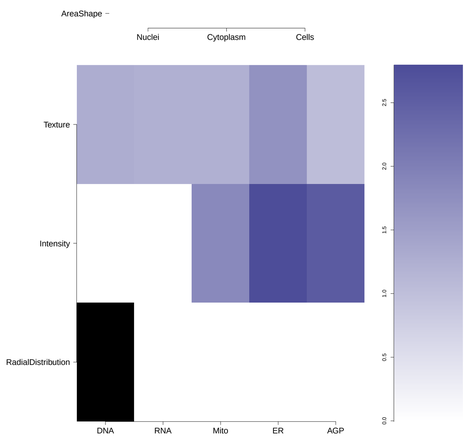
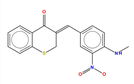
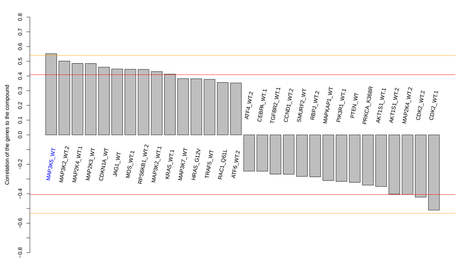
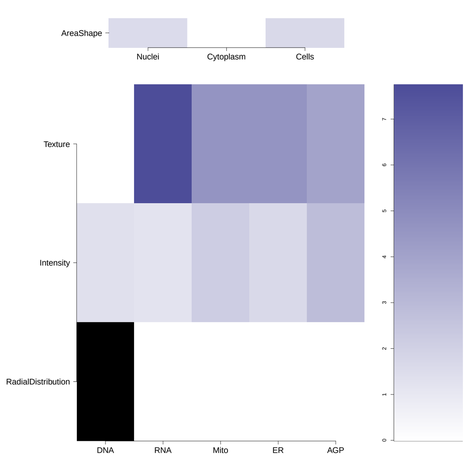
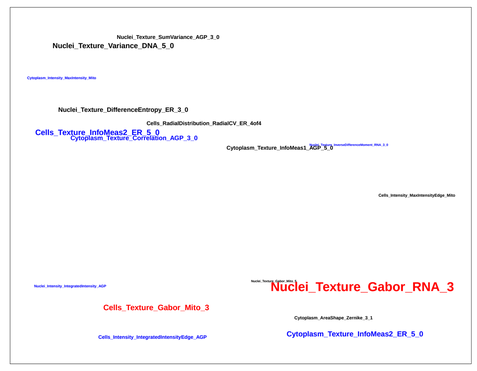
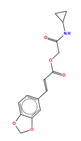
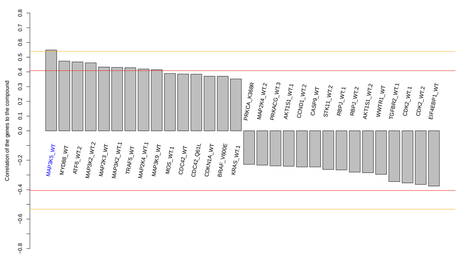
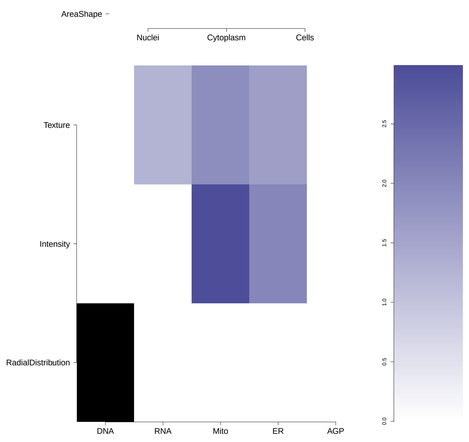
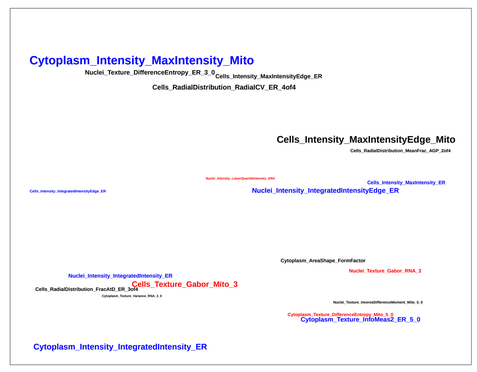
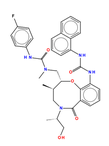
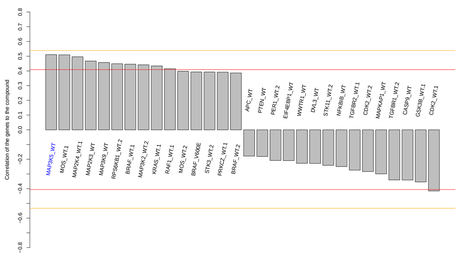
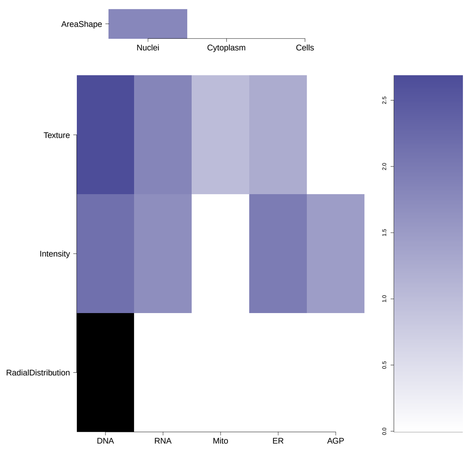
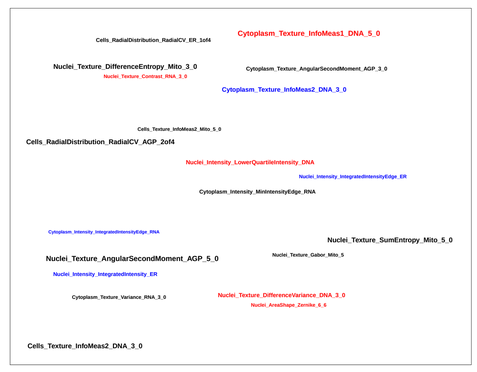
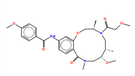
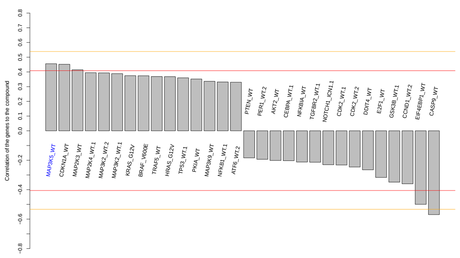
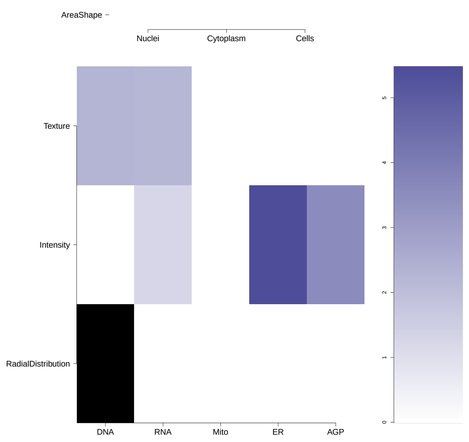
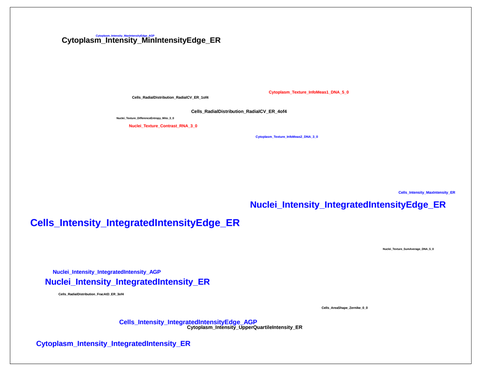
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

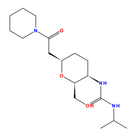
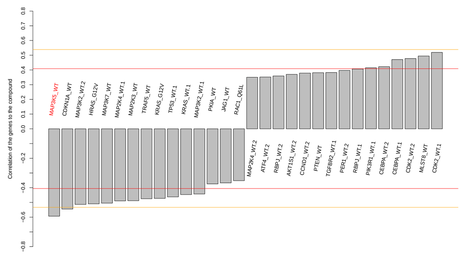
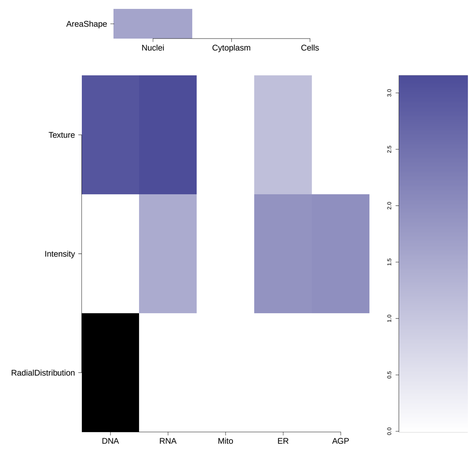
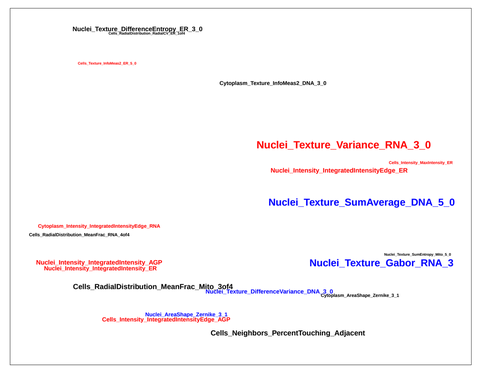
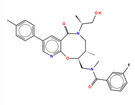
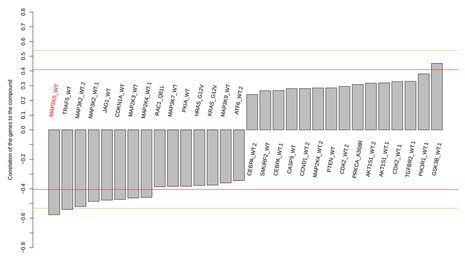
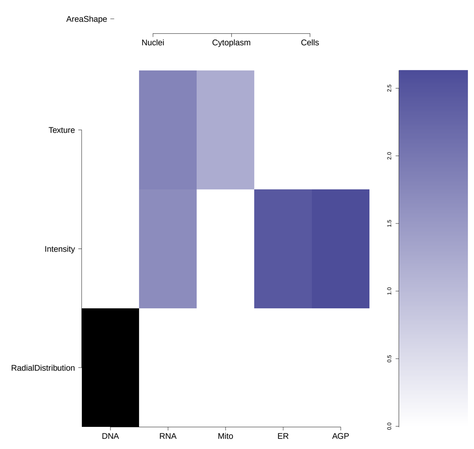
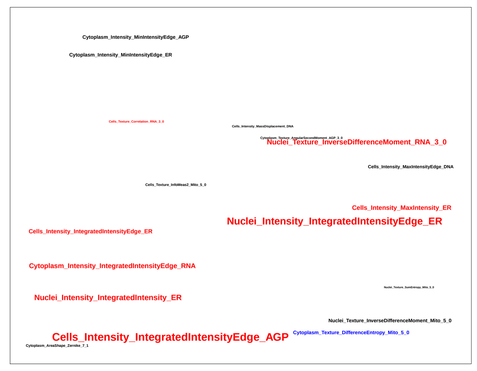
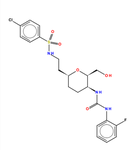
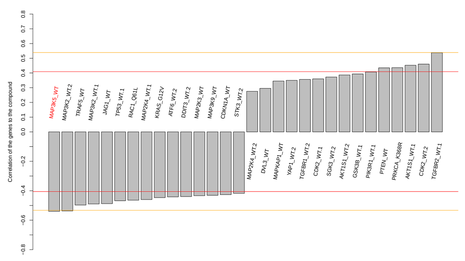
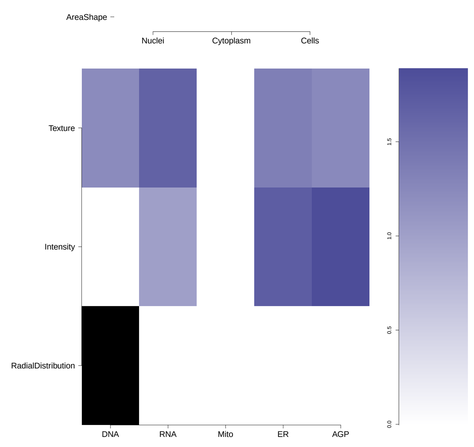
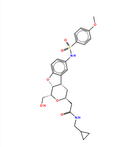
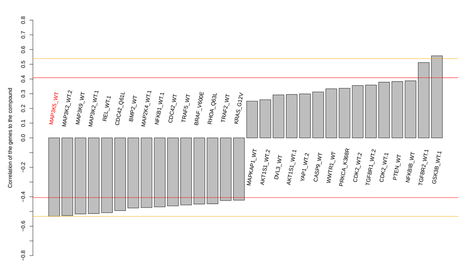
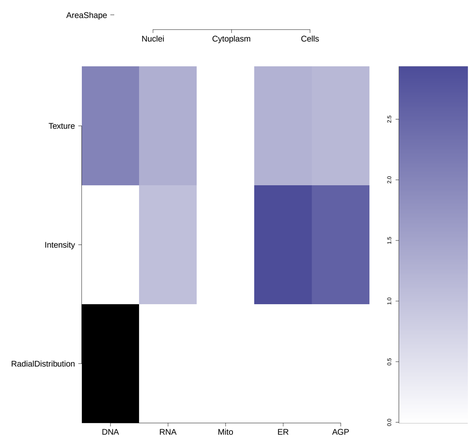
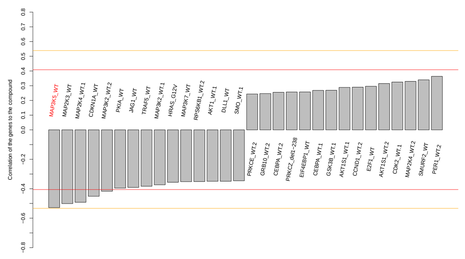
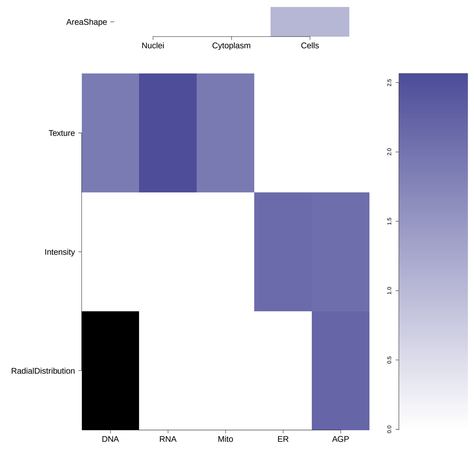


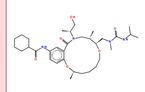
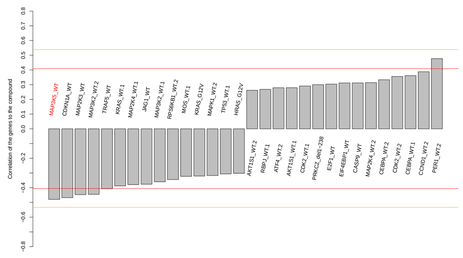
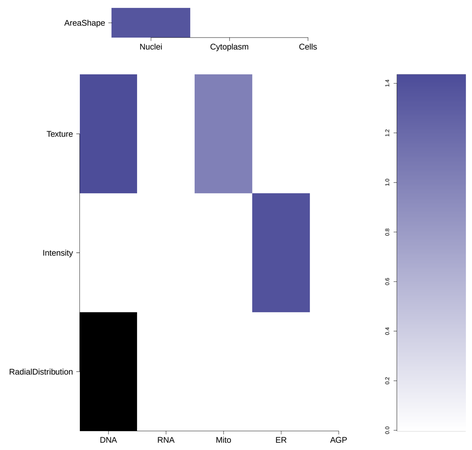
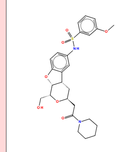
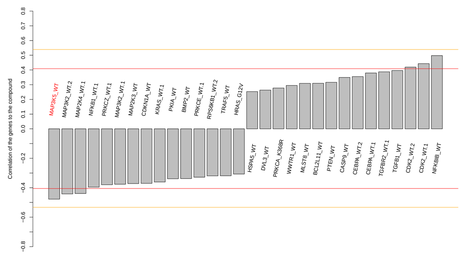
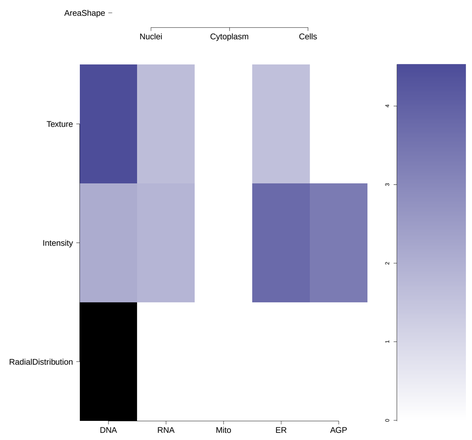
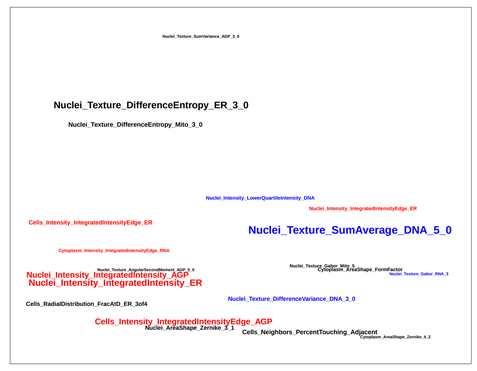
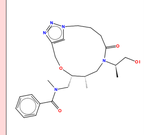
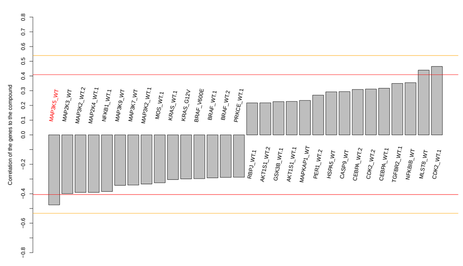
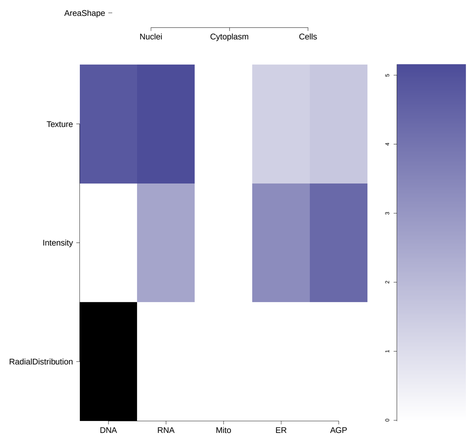
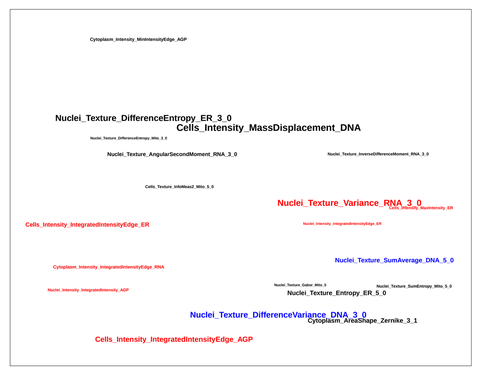
Empty	MAP3K5_WT (41744)	MAP3K5_WT (41755)	MAP3K5_WT (41756)	MAP3K5_WT (41757)	MAP3K5_WT (41754)
RNA						
DNA						

Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.52)	Correlation between compound the gene	Compound rank when scored against the gene using L1000 profiling	How similar is the compound signature to the genes in this experiment? (Yellow and red lines correspond to top/bottom 1st and 5th percentile DMSO correlation to all the genes)	Common distinguishing feature categories in the compound and the gene relative to the untreated samples	Distinguishing individual features for the compound relative to untreated samples. Black means a mismatch; i.e. active (= high z-score in magnitude) in the compound, and either inactive (= small z-score in magnitude) or oppositely active in the gene	Number of PubChem assays in which the compound was tested; assays in which the compound was active are itemized

BRD-K34142974-001-05-6 AC1LGY0M MLS000109622 HMS2275H03 ZINC448258 STK075949 ZINC00448258 SMR000105562 PubChem CID : 878657		0.71 (in 4 replicates)	0.67	NA				Total number of assays tested in: 772. Active in the following assays: • MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • Counterscreen for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis: Absorbance-based biochemical high throughput Glycerophosphate Dehydrogenase-Triosephosphate Isomerase (GDH-TPI) full deck assay to identify assay artifacts (AID 588335) • qHTS Assay to Identify Small Molecule Activators of BRCA1 Expression (AID 624202) • Absorbance-based biochemical primary high throughput screening assay to identify inhibitors of Methionine sulfoxide reductase A (MsrA) (AID 651718) • Absorbance-based biochemical high throughput confirmation assay to identify inhibitors of Methionine sulfoxide reductase A (MsrA) (AID 651822)
BRD-A62693435-001-05-8 SMR000094635 MLS000117687 AC1NSG0O MLS000878449 HMS1387K09 HMS2245G16 IDI1 005278 PubChem CID : 5309030		0.72 (in 3 replicates)	0.65	NA				Total number of assays tested in: 781. Active in the following assays: • Fluorescence polarization assay for PLK1 inhibitors (AID 619) • Allosteric Modulators of D1 Receptors: Primary Screen (AID 641) • Allosteric Modulators of D1 Receptors: Confirmation Screen (AID 642) • Allosteric Modulators of D1 Receptors: Secondary Assay 2 (AID 647) • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • HTS-Luminescent assay for inhibitors of ALR by detection of hydrogen peroxide production Measured in Biochemical System Using Plate Reader - 2036-02_Inhibitor_SinglePoint_HTS (AID 485317) • qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxiredoxins (AID 485364) • Fluorescence-based cell-based primary high throughput screening assay to identify inhibitors of the interaction of nucleotide-binding oligomerization domain containing 2 (NOD2) and the receptor-interacting serine-threonine kinase 2 (RIPK2) (AID 624267)
BRD-K30498580-001-06-0 MLS000325825 4J-409S SMR000169750 ZINC01388577 AC1LRRL0 BDBM73459 HMS2446M06 ZINC1388577 PubChem CID : 1476369		0.74 (in 4 replicates)	0.63	NA				Total number of assays tested in: 609. Active in the following assays: • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • Cytochrome panel assay with activity outcomes (AID 1851) • Primary cell-based high-throughput screening assay for identification of compounds that inhibit KCNQ2 potassium channels (AID 2156) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • Fluorescence Polarization Cell-Free Homogeneous Primary HTS to Identify Inhibitors of the LANA Histone H2A/H2B Interaction (AID 2629) • Primary cell-based high-throughput screening assay for identification of compounds that inhibit KCNQ1 potassium channels (AID 2642) • Primary cell-based high-throughput screening assay for identification of compounds that potentiate/activate regulator of G-protein signaling 4 (RGS4) (AID 463111) • Validation (re-confirmation) assay for identification of compounds that inhibit KCNQ1 potassium channels (AID 588353) • uHTS identification of antagonists of the CRF-binding protein and CRF-R2 receptor complex (AID 588475) • Primary cell-based high-throughput screening for identification of compounds that allosterically activate MrgX1 receptor signaling (AID 588675) • Dose Response confirmation of uHTS hits for small molecule antagonists of the CRF-binding protein and CRF-R2 receptor complex (AID 602180) • Validation assay for identification of compounds that activate the regulator of G-protein signaling 4 (RGS4) (AID 602282) • Counter screen for identification of compounds that activate the regulator of G-protein signaling 4 (RGS4): Non-induced cells with the primary screen assay (AID 602283) • Validation for compounds that inhibit KCNQ1 potassium channels on automated electrophysiology assay (AID 624120) • Specificity screen against KCNQ2 for identification of compounds that inhibit KCNQ1 potassium channels (AID 651746) • Specificity screen against KCNQ1/KCNE1 for identification of compounds that inhibit KCNQ1 potassium channels (AID 652147)
BRD-K90126707-001-05-4 F0643-0459 MLS000045436 AC1LGAHT HMS2383L06 ZINC246109 CCG-29170 ZINC00246109 SMR000027199 ST50129652 PubChem CID : 767828		NA (in 1 replicates)	0.63	NA				Total number of assays tested in: 783. Active in the following assays: • CYP2C19 Assay (AID 778) • HTS Assay for Activators of Cytochrome P450 2A9 (AID 1024) • Multiplex HTS Assay for Inhibitors of MEK Kinase PB1 Domains, specifically MEK5 MEK Kinase3 Wildtype (AID 1529)
BRD-K69464508-001-05-7 SMR000148196 AC1MT1T7 MLS000557279 HMS2405J05 STL303957 ZINC13144315 PubChem CID : 3543597		0.62 (in 3 replicates)	0.63	NA				Total number of assays tested in: 683. Active in the following assays: • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • Chemical Genetic Screen to Identify Inhibitors of Mitochondrial Fusion - Confirmatory Screen (AID 1361) • Chemical Genetic Screen to Identify Inhibitors of Mitochondrial Fusion - Primary Screen (AID 1362) • qHTS Assay for Antagonists of the Neuropeptide S Receptor: cAMP Signal Transduction (AID 1461) • Cytochrome panel assay with activity outcomes (AID 1851) • Primary cell-based high-throughput screening assay for identification of compounds that inhibit KCNQ2 potassium channels (AID 2156) • Primary cell-based high-throughput screening assay for identification of compounds that allosterically potentiate transient receptor potential cation channel C4 (TRPC4) (AID 2227) • VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) • HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732) • Nrf2 qHTS screen for inhibitors (AID 504444) • qHTS for Inhibitors of binding or entry into cells for Lassa Virus (AID 540256) • qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820) • qHTS Assay for Activators of ClpP (AID 651965) • qHTS of TDP-43 Inhibitors (AID 652104)

BRD-K40164621-001-06-7 AC1O4AX7 MLS000622103 HMS1645F16 HMS2709P10 ZINC3913397 SMR000311030 PubChem CID : 6383755		0.58 (in 4 replicates)	0.62	NA				Total number of assays tested in: 648. Active in the following assays: • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • Leishmania major promastigote HTS (AID 1063) • HTS identification of compounds activating phosphomannose isomerase (PMI) via a fluorescence intensity assay using a near- saturating concentration of mannose 6-phosphat (AID 1216) • qHTS for Inhibitors of Tau Fibril Formation, Thioflavin T Binding (AID 1460) • Luminescence-based primary biochemical high throughput screening assay to identify inhibitors of the Heat Shock Protein 90 (HSP90) (AID 1789) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • Luminescence Cell-Based Primary HTS to Identify Inhibitors of Cancer Stem Cells (AID 2717) • Luminescence Cell-Based Dose Retest to Confirm Inhibitors of Cancer Stem Cells (AID 449748) • Dose Response HTS Screen to Identify Cytotoxic Compounds of HMLE_sh_eGFP (AID 463074) • qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxiredoxins (AID 485364) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • Luminescence-based cell-based primary high throughput screening assay to identify inverse agonists of heterodimerization of the mu 1 (OPRM1) and delta 1 (OPRD1) opioid receptors (AID 504357) • qHTS screen for small molecules that inhibit ELG1-dependent DNA repair in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504467) • C. difficile toxins: HTS for inhibitors of TcdB glycohydrolase activity Measured in Biochemical System Using Plate Reader - 7074-01_Inhibitor_SinglePoint_HTS_Activity (AID 652162) • qHTS for induction of synthetic lethality in tumor cells producing 2HG: qHTS for the HT-1080-IDH1KD cell line (AID 686971) • C. difficile toxins: HTS for inhibitors of TcdB glycohydrolase activity Measured in Biochemical System Using Plate Reader - 7074-01_Inhibitor_Dose_CherryPick_Activity (AID 720512) • C. difficile toxins: Counterscreen in absence of substrate UDPG Measured in Biochemical System Using Plate Reader - 7074-02_Inhibitor_Dose_CherryPick_Activity (AID 720650)
BRD-K77548756-001-05-6 T5325483 ZINC05939735 AC1O6RLU MLS000394586 HMS2736E23 ZINC5939735 SMR000262044 PubChem CID : 6532801		NA (in 1 replicates)	0.55	NA				Total number of assays tested in: 636. Active in the following assays: • Counter Screen for Luciferase-based Primary Inhibition Assays (AID 1006) • Leishmania major promastigote HTS (AID 1063) • HCS to Identify Inhibitors of Dynein Mediated Cargo Transport on Microtubules. (AID 1381) • qHTS for Inhibitors of Tau Fibril Formation, Thioflavin T Binding (AID 1460) • uHTS luminescence assay for the identification of compounds that inhibit NOD1 (AID 1578) • uHTS identification of small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 463190) • uHTS identification of small molecule inhibitors of tim10 yeast via a luminescent assay (AID 463195) • Single concentration confirmation of small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 463213) • qHTS Assay for Inhibitors of BAZ2B (AID 504333) • qHTS Assay for Inhibitors of JMJD2A-Tudor Domain (AID 504339) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • Fluorescence polarization-based biochemical primary high throughput screening assay to identify inhibitors that disrupt the binding of a cyclic peptide (Tn6) to the fibrin proteolytic product D-Dimer and fragment E complex [DD(E)] (AID 720509)
BRD-K07985176-001-05-7 T5230605 ZINC02635165 AC1M1IDN MLS000335051 HMS2605P06 ZINC2635165 SMR000249809 PubChem CID : 2097776		0.62 (in 4 replicates)	0.55	NA				Total number of assays tested in: 643. Active in the following assays: • Non-Nucleoside Inhibitor of Measles Virus RNA-Dependent RNA Polymerase Complex Activity HTS Single Point (MLSMR Library) (AID 841) • Primary cell-based high-throughput screening assay for identification of compounds that protect hERG from block by proarrhythmic agents (AID 1511) • Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of human platelet activating factor acetylhydrolase 2 (PAFAH2) (AID 492956) • Fluorescence polarization-based biochemical high throughput confirmation assay for inhibitors of human platelet activating factor acetylhydrolase 2 (PAFAH2) (AID 493030)
BRD-K36149853-001-01-4 PubChid : 44492433		0.53 (in 3 replicates)	0.51	0.688				Total number of assays tested in: 61.
BRD-K18350116-001-01-3 PubChid : 54631701		0.63 (in 4 replicates)	0.46	0.214				Total number of assays tested in: 31.

BRD-K30417169-001-01-0 PubChem CID : 54641225		NA (in 1 replicates)	-0.59	NA				Total number of assays tested in: 37.
BRD-K29392777-001-01-2 PubChem CID : 54619553		0.57 (in 4 replicates)	-0.58	0.243				Total number of assays tested in: 40.
BRD-K90201499-001-01-6 PubChem CID : 54641127		NA (in 1 replicates)	-0.54	NA				Total number of assays tested in: 37.
BRD-K59755197-001-01-5 PubChem CID : 54646601		0.82 (in 3 replicates)	-0.53	0.781				Total number of assays tested in: 36.
BRD-M59406954-001-01-6 PubChem CID : 54660642		0.54 (in 3 replicates)	-0.53	0.312				Total number of assays tested in: 30.
BRD-K37513668-001-01-5 PubChem CID : 44505866		0.69 (in 3 replicates)	-0.51	0.935				Total number of assays tested in: 26.
BRD-K80362711-001-01-0 PubChem CID : 54646591		0.81 (in 4 replicates)	-0.50	0.126				Total number of assays tested in: 37.

BRD-K67787765-001-01-0 PubChem CID : 44619149		0.58 (in 4 replicates)	-0.48	NA				Total number of assays tested in: 35.
BRD-K10210954-001-01-2 PubChem CID : 54646564		0.89 (in 4 replicates)	-0.48	0.312				Total number of assays tested in: 36.
BRD-K31039264-001-01-5 PubChem CID : 44486352		0.85 (in 3 replicates)	-0.48	0.283				Total number of assays tested in: 34.