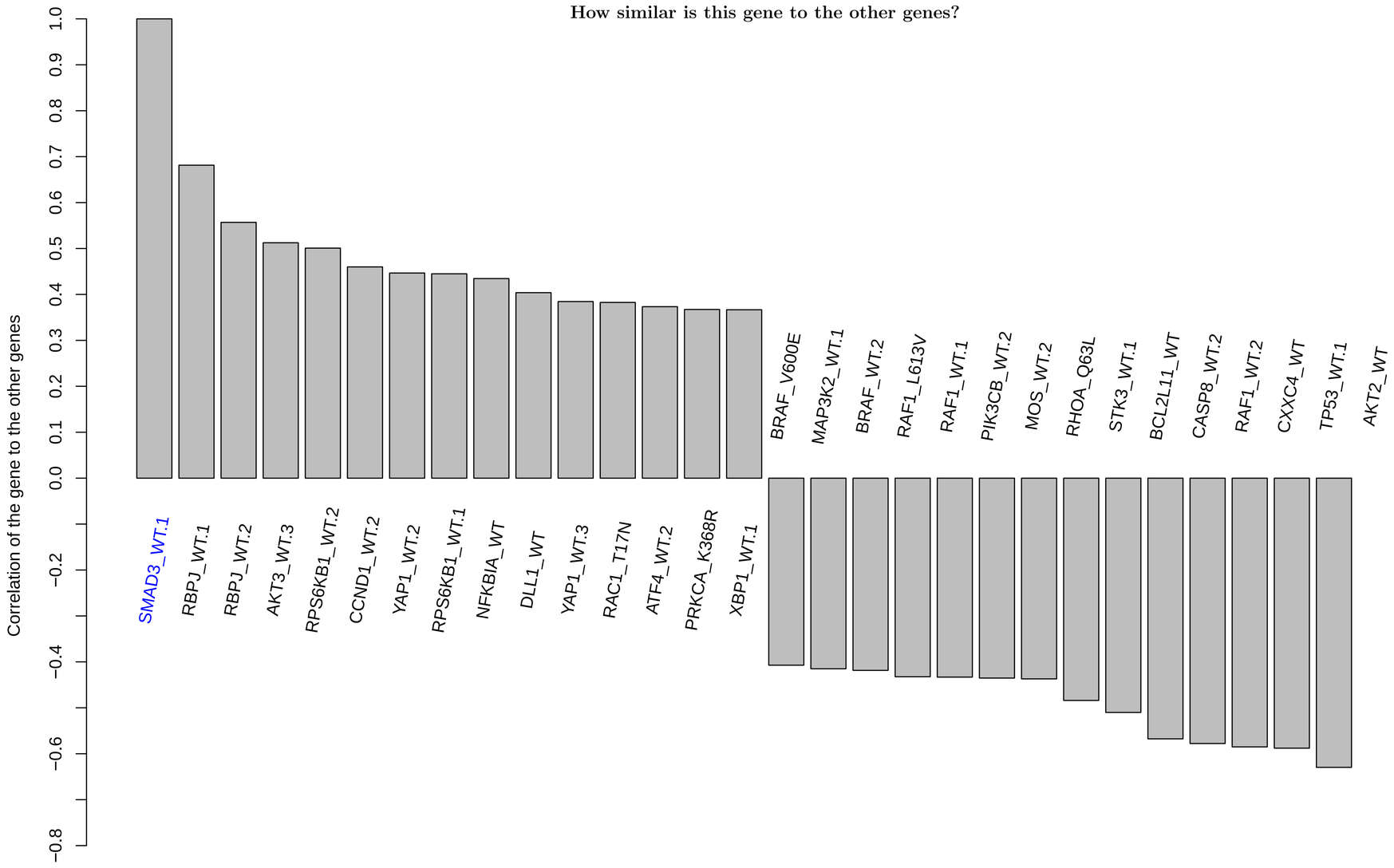
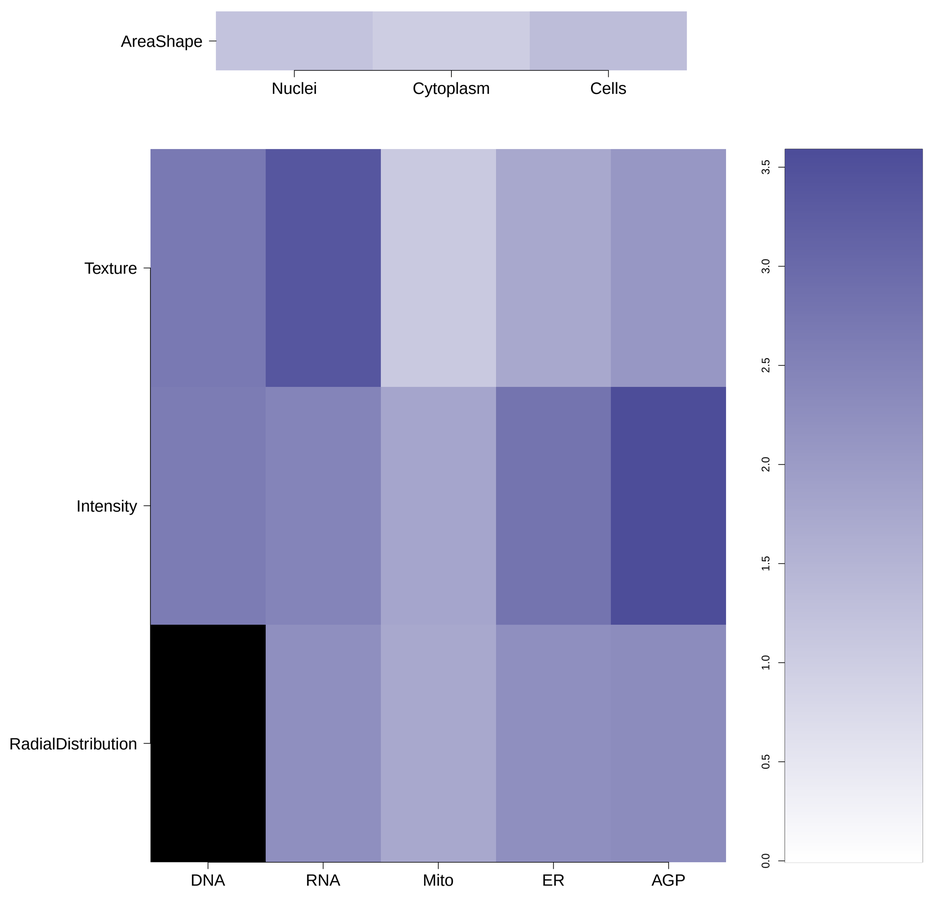
SMAD3_WT.1 - in Canonical SMAD

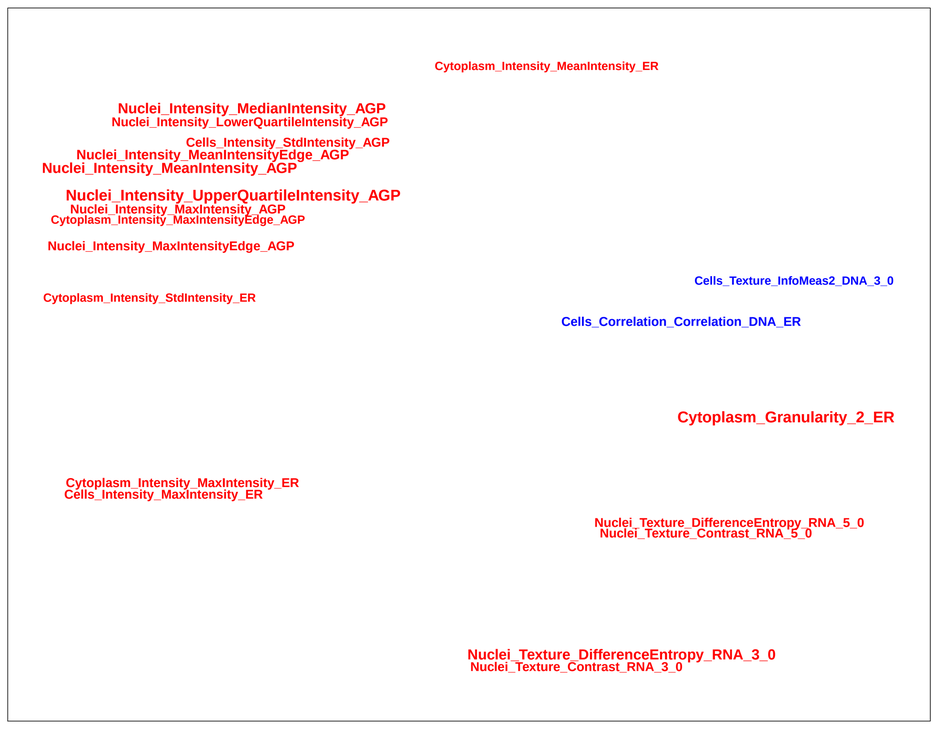
How similar is this gene to the other genes?

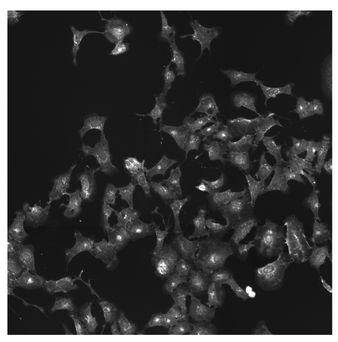
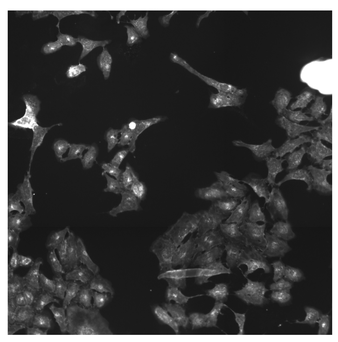
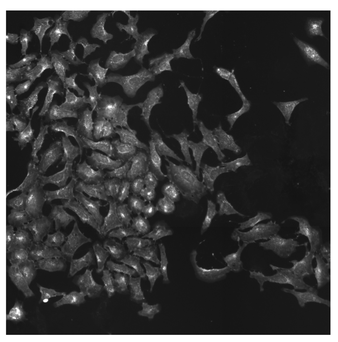
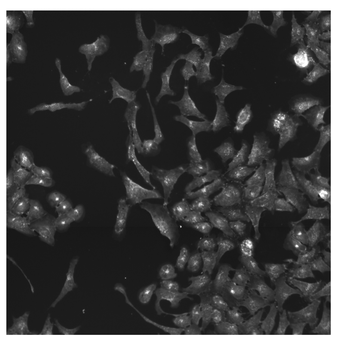
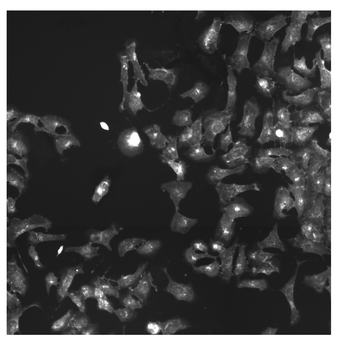
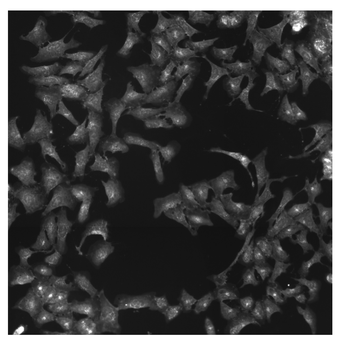
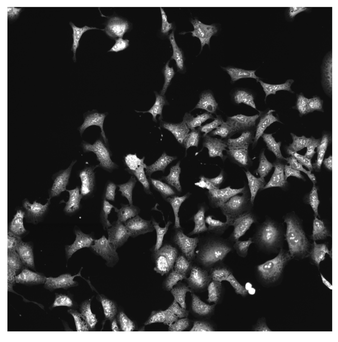
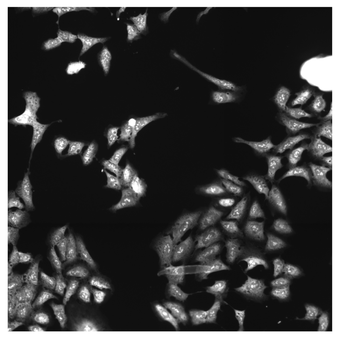
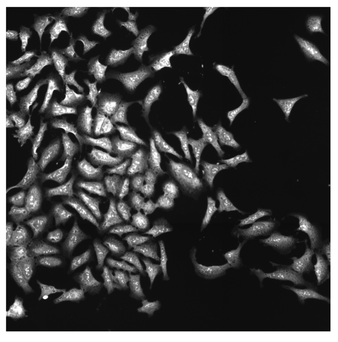
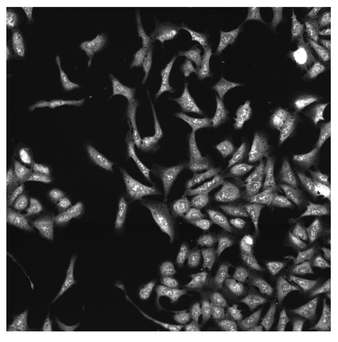
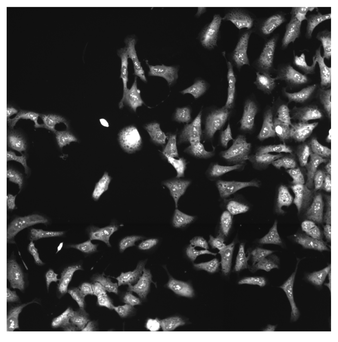
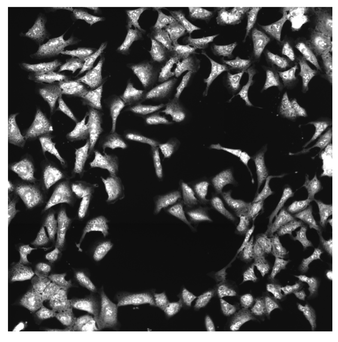


What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

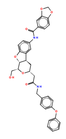
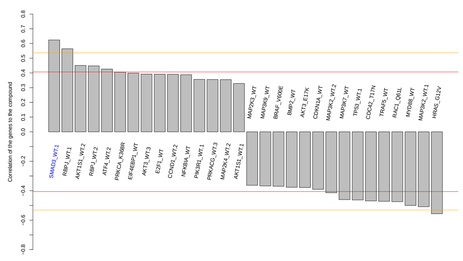
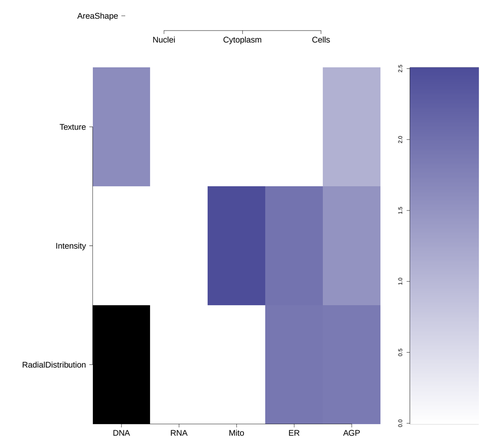
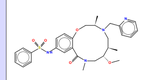
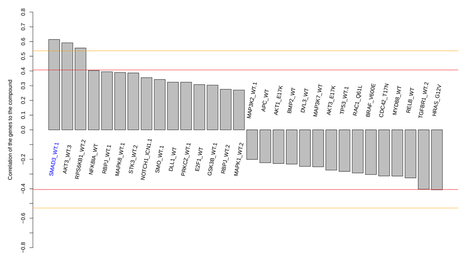
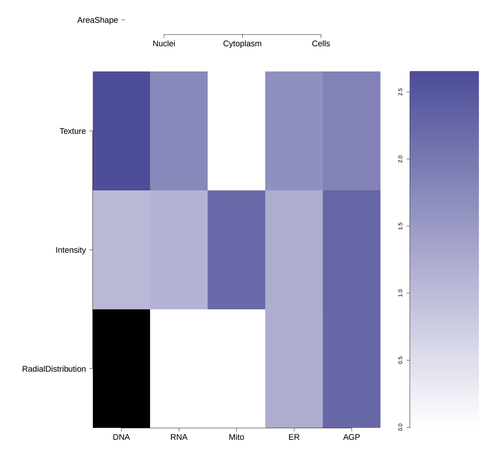
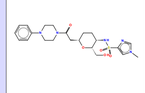
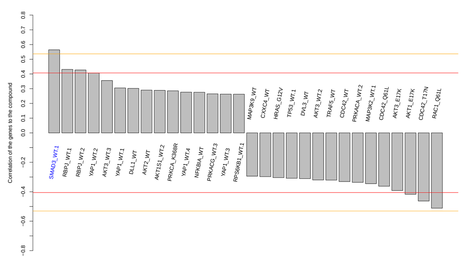
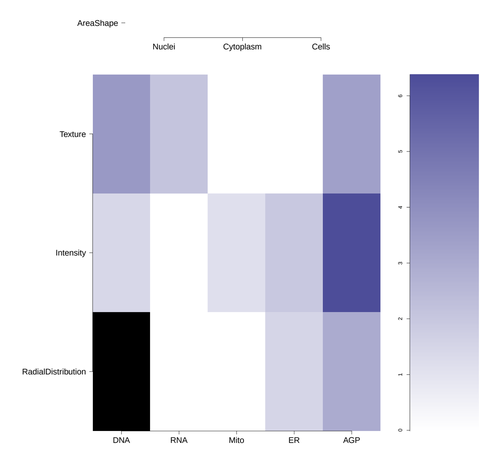
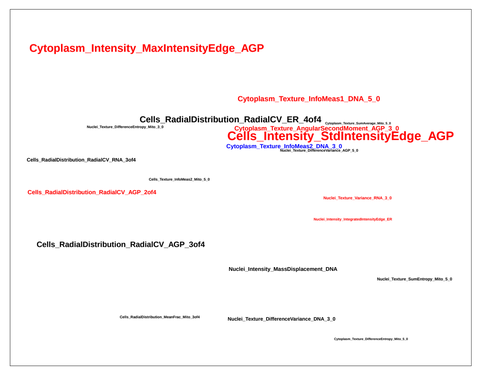
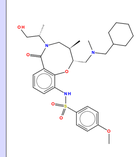
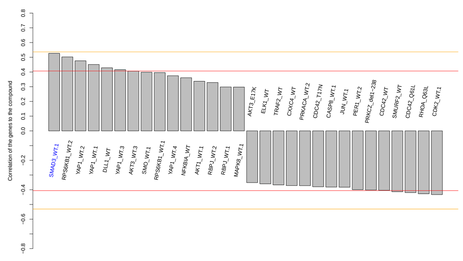
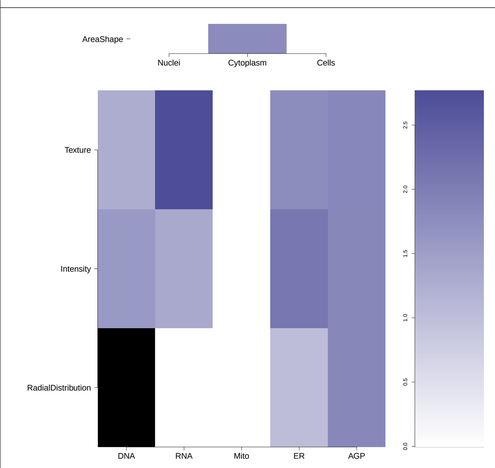
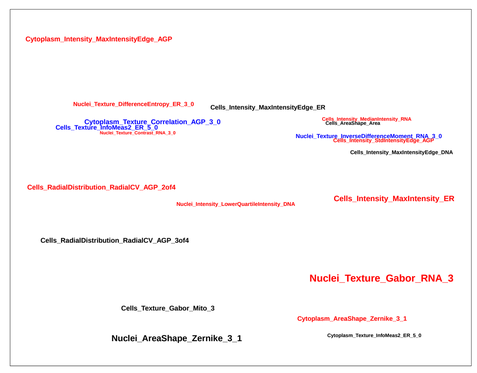


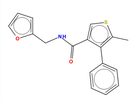
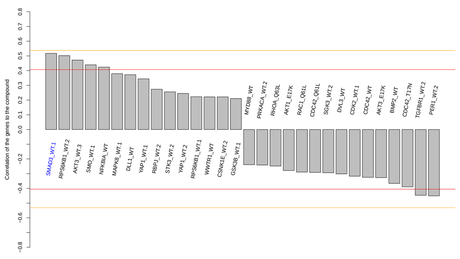
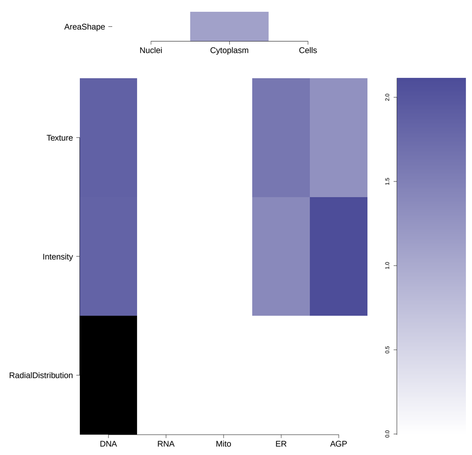
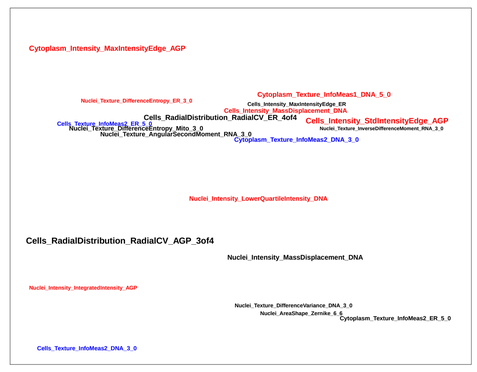
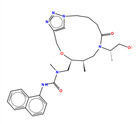
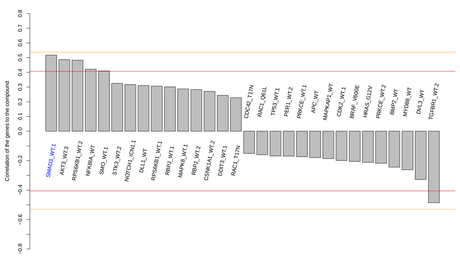
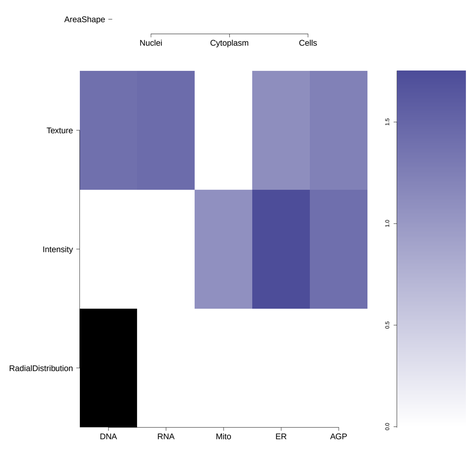
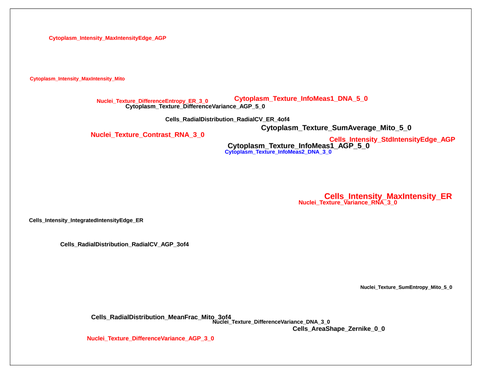
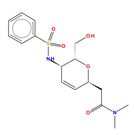
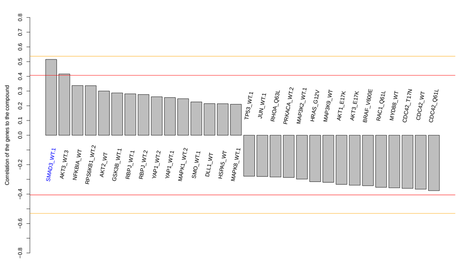
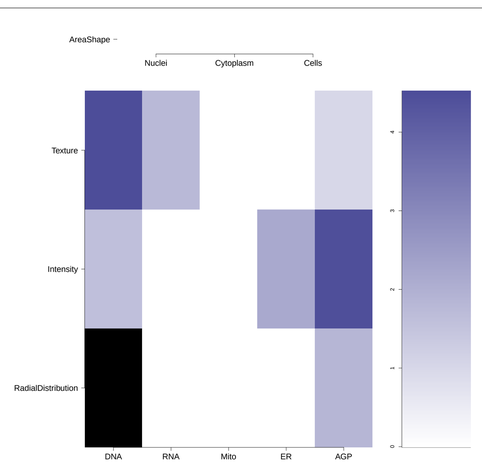
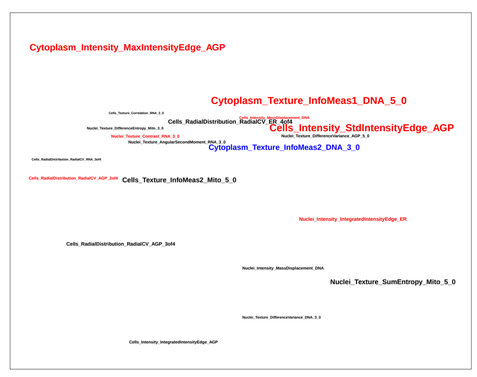
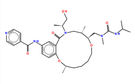
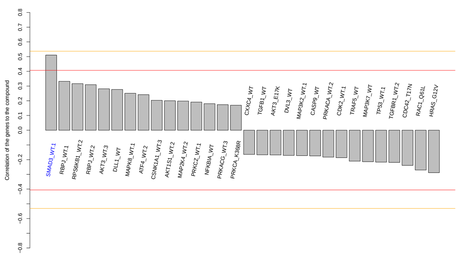
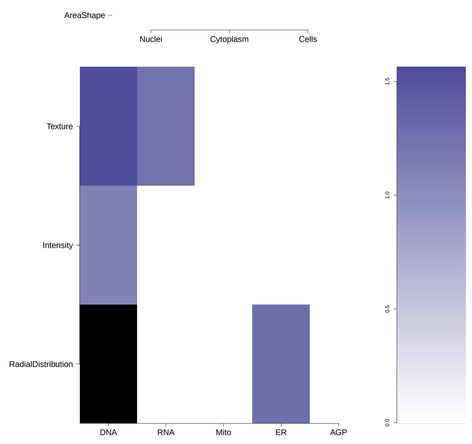
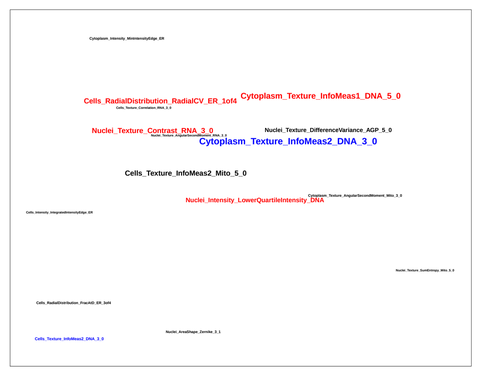
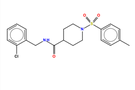
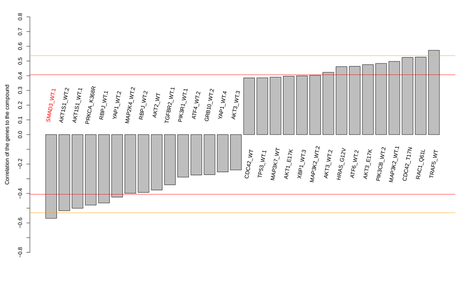
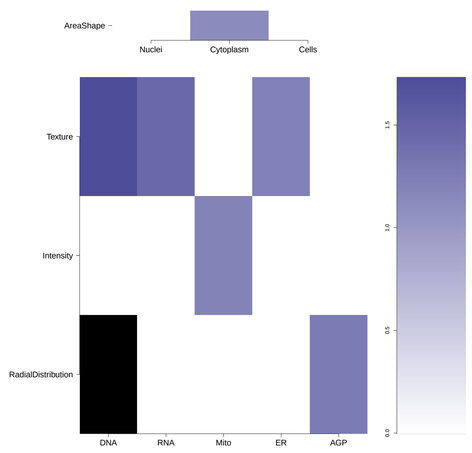
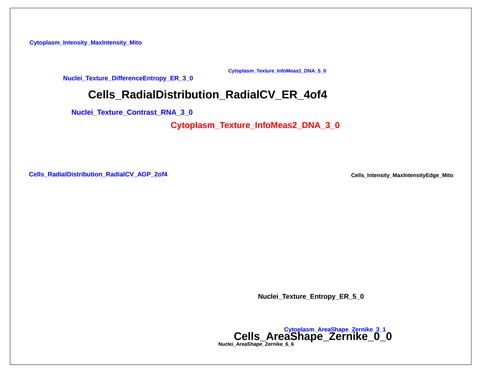
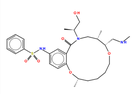
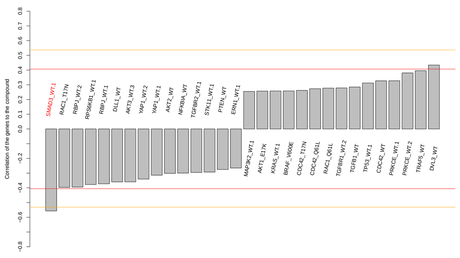
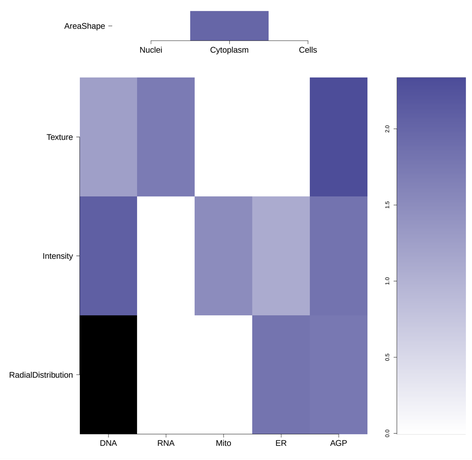
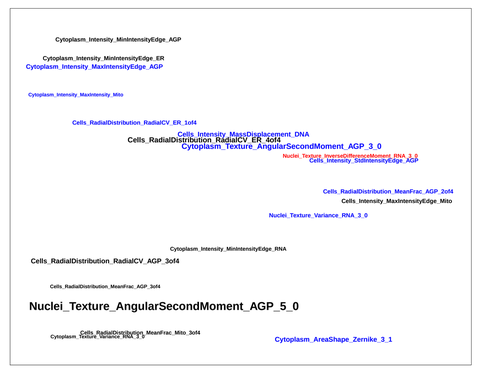
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

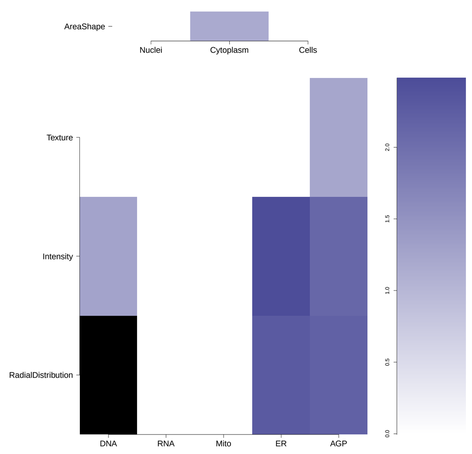
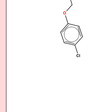
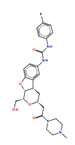
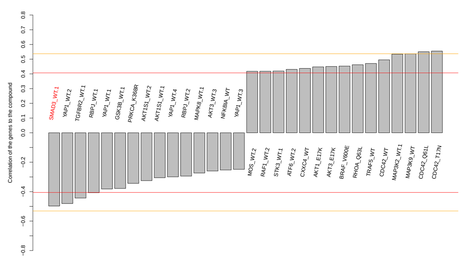
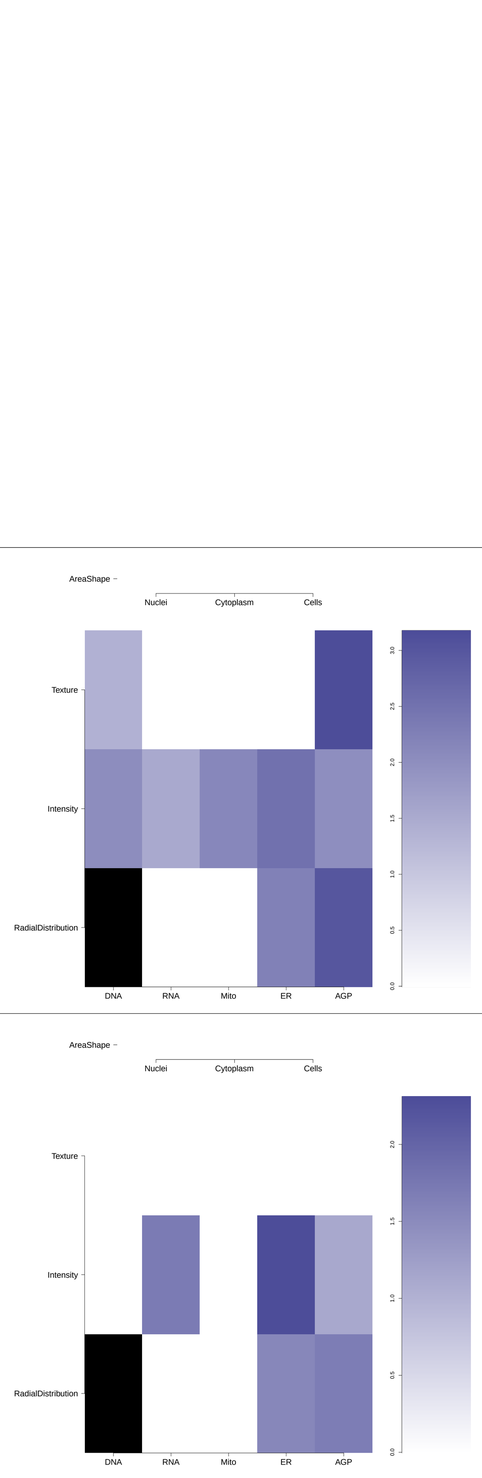
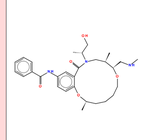
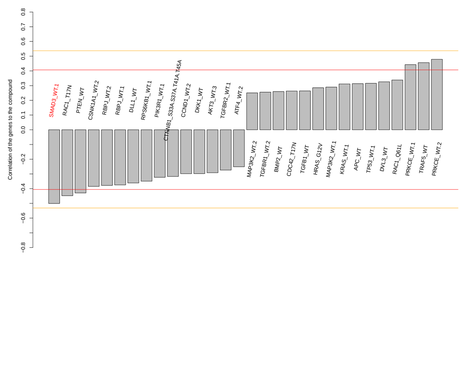


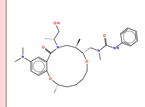
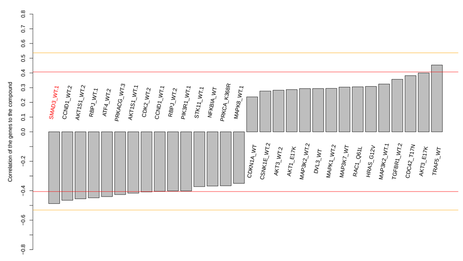
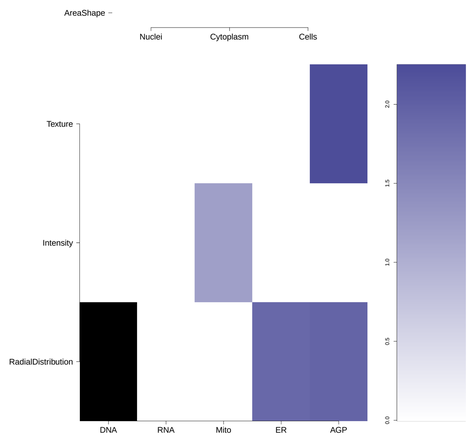
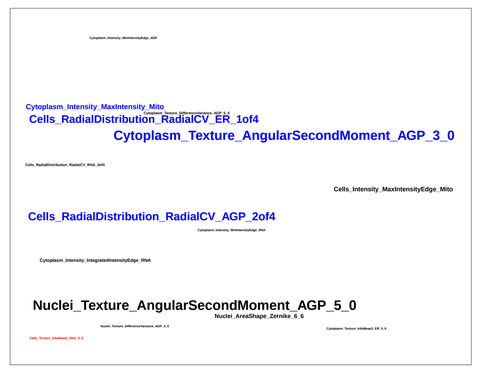
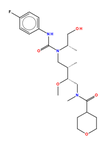
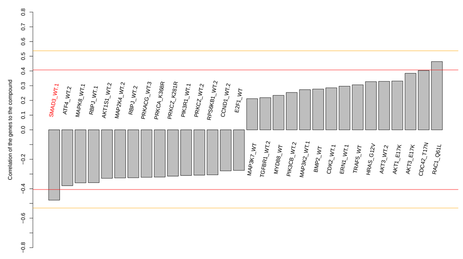
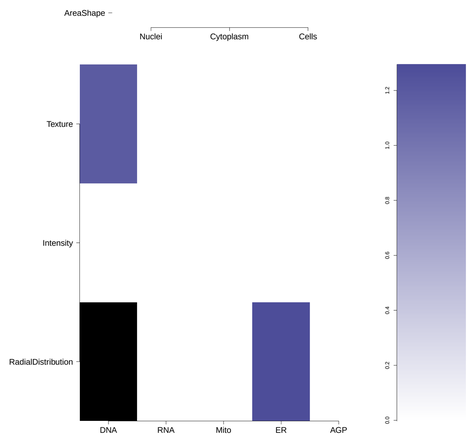
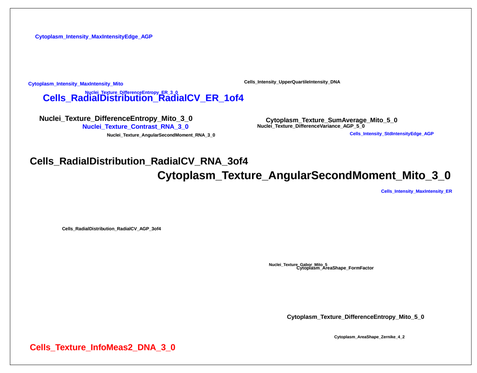
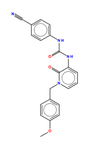
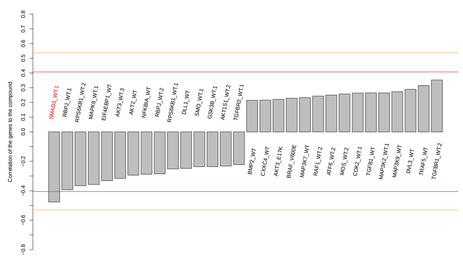
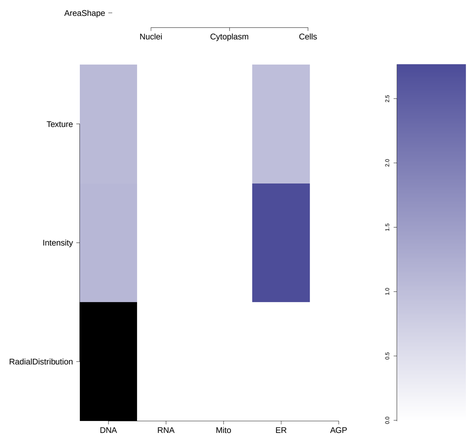
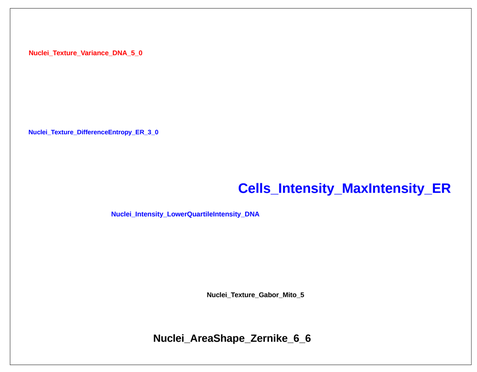
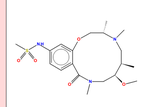
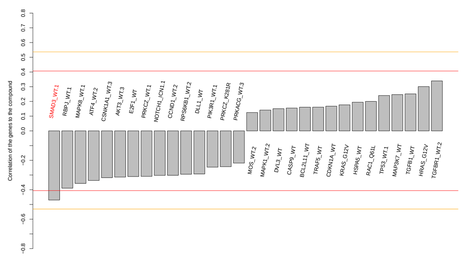
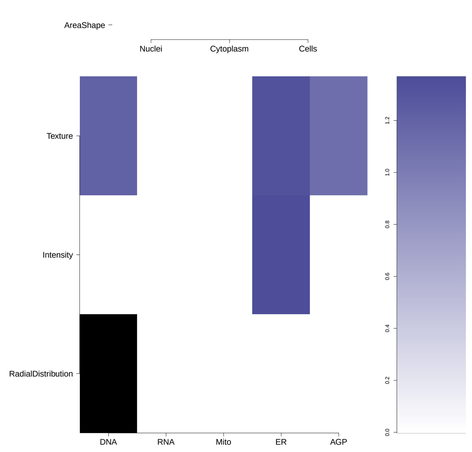
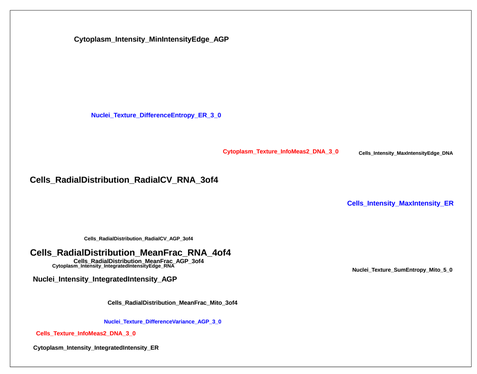
	Empty	SMAD3_WT.1 (41744)	SMAD3_WT.1 (41755)	SMAD3_WT.1 (41756)	SMAD3_WT.1 (41757)	SMAD3_WT.1 (41754)
AGP						
RNA						

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-K52184420-001-01-4 PubChem CID : 54645920		NA (in 1 replicates)	0.62	0.196				Total number of assays tested in: 44. Active in the following assays: • Inhibition of T.cruzi proliferation in culture Measured in Cell-Based System Using Plate Reader - 2138-01_Inhibitor_SinglePoint_HTS_Activity (AID 624255) • Inhibition of T.cruzi proliferation in culture Measured in Cell-Based System Using Plate Reader - 2138-01_Inhibitor_SinglePoint_CherryPick_Activity (AID 651739) • NIH/3T3 (mouse embryonic fibroblast) toxicity Measured in Cell-Based System Using Plate Reader - 2138-02_Inhibitor_SinglePoint_CherryPick_Activity_Set2 (AID 651744)
BRD-K38519440-001-01-6 PubChem CID : 54633345		NA (in 1 replicates)	0.61	0.783				Total number of assays tested in: 35.
BRD-K09541394-001-01-1 PubChem CID : 54641287		0.68 (in 3 replicates)	0.56	NA				Total number of assays tested in: 40.
BRD-K22764346-001-01-1 PubChem CID : 44499299		0.61 (in 3 replicates)	0.53	0.137				Total number of assays tested in: 47.
BRD-K68653835-001-01-9 PubChem CID : 44484476		0.68 (in 3 replicates)	0.52	0.686				Total number of assays tested in: 53.
BRD-K70039065-001-01-8 PubChem CID : 54641190		NA (in 1 replicates)	0.52	NA				Total number of assays tested in: 39.

BRD-K73391494-001-05-2 ST50874432 MLS000065770 AC1LORW4 HMS2439O03 ZINC1054406 STK462455 ZINC01054406 SMR000080451 PubChem CID : 1245893		0.78 (in 2 replicates)	0.52	NA				Total number of assays tested in: 725. Active in the following assays: • CYP2C19 Assay (AID 778) • qHTS Assay for Inhibitors of HPGD (15-Hydroxyprostaglandin Dehydrogenase) (AID 894) • High Throughput Screen to Identify Inhibitors of Mycobacterium tuberculosis H37Rv (AID 1626) • qHTS Assay for Inhibitors of DNA Polymerase Beta (AID 485314) • qHTS Assay for the Inhibitors of L3MBTL1 (AID 485360) • Heat Shock Factor-1 (HSF-1) Measured in Cell-Based System Using Plate Reader - 2038-01_Activator_SinglePoint_HTS_Activity (AID 504408) • qHTS Assay for Inhibitors of Mammalian Selenoprotein Thioredoxin Reductase 1 (TrxR1): qHTS (AID 588453) • Luminescence-based biochemical primary high throughput screening assay to identify inhibitors of the interaction of the lipase co-activator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5) (AID 602281) • Fluorescence-based cell-based primary high throughput screening assay to identify positive allosteric modulators (PAMs) of the human cholinergic receptor, muscarinic 4 (CHRM4) (AID 624126) • Counterscreen of compound fluorescence effects on High-throughput multiplex microsphere screening for inhibitors of toxin protease (AID 624483) • Luminescence-based biochemical high throughput confirmation assay for inhibitors of the interaction of the lipase co-activator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5) (AID 651612) • Counterscreen for inhibitors of the interaction of the lipase co-activator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5): Luminescence-based biochemical high throughput assay to identify inhibitors of Hepatocyte nuclear factor 4 (HNF4) dimerization (AID 651674)
BRD-K57627685-001-01-7 PubChem CID : 44486364		0.58 (in 3 replicates)	0.52	0.686				Total number of assays tested in: 37.
BRD-K03811780-001-01-6 PubChem CID : 54641191		NA (in 1 replicates)	0.51	NA				Total number of assays tested in: 38.
BRD-K80593371-001-01-1 PubChem CID : 44486435		0.53 (in 4 replicates)	0.51	0.094				Total number of assays tested in: 30. Active in the following assays: • NF-KappaB Measured in Biochemical System Using Small Molecule MicroArray - 2080-01_Other_SinglePoint_HTS_Activity (AID 624139) • SMM c-myc Measured in Biochemical System Using Small Molecule MicroArray - 2081-01_Other_SinglePoint_HTS_Activity (AID 624141)
BRD-K43089177-001-06-1 SMR000123694 MLS000123058 STK178377 AC1LL2IR BDBM73383 HMS1914K05 HMS2437P20 ZINC789542 ZINC00789542 BAS 05018824 ST50276881 K786-1645 PubChem CID : 1077699		NA (in 1 replicates)	-0.57	NA				Total number of assays tested in: 700. Active in the following assays: • Leishmania major promastigote HTS (AID 1063) • Primary screen for compounds that activate Insulin promoter activity in TRM-6 cells (AID 1296) • Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Primary Screen (AID 1456) • Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Retesting of KCC2 cells with Ouabain (AID 1717) • Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of Protein Phosphatase Methylesterase 1 (PME-1). (AID 2130) • Fluorescence polarization-based biochemical high throughput confirmation assay for inhibitors of Protein Phosphatase Methylesterase 1 (PME-1). (AID 2171) • Fluorescence Polarization Cell-Free Homogeneous Primary HTS to Identify Inhibitors of the LANA Histone H2A/H2B Interaction (AID 2629) • uHTS fluorescent assay for identification of inhibitors of ATG4B (AID 504462) • Dose response confirmation of the uHTS fluorescent assay for identification of inhibitors of ATG4B. (AID 504756) • Single concentration confirmation of inhibitors of ATG4B via a fluorescent assay (AID 504757) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834) • Dose response counterscreen of uHTS hits for ATG4B inhibitors in a Phospholipase A2 assay (AID 588400)
BRD-K57969466-001-01-8 PubChem CID : 44489309		0.70 (in 4 replicates)	-0.56	0.788				Total number of assays tested in: 46.

BRD-K65416179-001-05-9 MLS000096952 STK127773 SMR000074749 ZINC01130712 AC1LPEM9 BDBM33059 HMS2275C11 ZINC1130712 PubChem CID : 1305820		0.55 (in 2 replicates)	-0.51	NA				Total number of assays tested in: 749. Active in the following assays: • HIV-1 RT-RNase H MLSCN HTS MH077605 (AID 565) • Primary Antimicrobial Assay for E. coli BW25113 and 8710;tolC::kan Protocol for 384-well HTS (AID 573) • Antimicrobial Assay for E. coli BW25113 and 8710;tolC::kan - Dose Response (AID 617) • HIV-1 RT-RNase H MLSCN HTS MH077605 Confirmation Assay (AID 651) • HIV-1 RT-RNase H MLSCN MH077605 Probe Assessment: Dose response Assay (AID 652) • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • qHTS Assay for Inhibitors of HADH2 (Hydroxyacyl-Coenzyme A Dehydrogenase, Type II) (AID 886) • qHTS Assay for Inhibitors of 15-hLO (15-human lipoxygenase) (AID 887) • qHTS Assay for Inhibitors of HSD17B4, hydroxysteroid (17-beta) dehydrogenase 4 (AID 893) • qHTS Assay for Inhibitors of HPGD (15-Hydroxyprostaglandin Dehydrogenase) (AID 894) • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • HTS identification of compounds inhibiting phosphomannose isomerase (PMI) via a fluorescence intensity assay. (AID 1209) • Chemical Genetic Screen to Identify Inhibitors of Mitochondrial Fusion - Primary Screen (AID 1362) • qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490) • HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732) • HTS Assay for Allosteric Antagonists of the Human D2 Dopamine Receptor: Primary Screen for Antagonists (AID 485344) • Elucidation of physiology of non-replicating, drug-tolerant Mycobacterium tuberculosis (AID 488890) • A Cell Based Secondary Assay to Explore Compounds that Modulate Non-Replicating, Drug-tolerant Compounds in Replicating H37Rv TB of Mycobacterium tuberculosis (AID 492952) • Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of human platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (PAFAH1B2) (AID 492953) • uHTS identification of APOBEC3G DNA Deaminase Inhibitors via a fluorescence-based single-stranded DNA deaminase assay (AID 493012) • Fluorescence polarization-based biochemical high throughput confirmation assay for inhibitors of human platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (PAFAH1B2) (AID 493034) • Single concentration confirmation of uHTS for APOBEC3G DNA Deaminase Inhibitors via a fluorescence-based single-stranded DNA deaminase assay (AID 493152) • uHTS identification of small molecule inhibitors of Plasmodium falciparum Glucose-6-phosphate dehydrogenase via a fluorescence intensity assay (AID 504690) • Inhibitors of the vitamin D receptor (VDR): qHTS (AID 504847) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a: Hit Confirmation (AID 588344) • qHTS for Inhibitors of the vitamin D receptor (VDR): Hit Validation in Primary Screen (AID 602199) • 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) • qHTS for Inhibitors of WRN Helicase (AID 651768) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979) • qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504)
BRD-K90429860-001-01-4 PubChem CID : 54614935		0.84 (in 4 replicates)	-0.50	0.006				Total number of assays tested in: 19.
BRD-K85264253-001-01-7 PubChem CID : 54647901		0.63 (in 2 replicates)	-0.50	NA				Total number of assays tested in: 36.
BRD-K19184974-001-05-7 5N-373S MLS000544852 AC1LRZYI CTK7C6774 HMS1365O07 HMS2340I06 ZINC4023716 SBB099830 RP13941 HE014497 KB-99379 SMR000126609 KB-117968 TR-071207 3B3-032047 PubChem CID : 1480186		0.54 (in 4 replicates)	-0.49	NA				Total number of assays tested in: 689. Active in the following assays: • qHTS Assay for Activators of Human alpha-Glucosidase as a Potential Chaperone Treatment of Pompe Disease (AID 2242) • uHTS identification of inhibitors of Rpn11 in a Fluorescent Polarization assay (AID 588493) • Fluorescence-based biochemical primary high throughput screening assay to identify inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 588726) • HTS for suppressors of simvastatin-induced mytoxicity in differentiated C2C12 cells Measured in Cell-Based System Using Plate Reader - 2112-01_Suppressor_SinglePoint_HTS_Activity (AID 602340)

BRD-K86946907-001-01-8 PubChem CID : 44494582		0.66 (in 4 replicates)	-0.49	0.922				Total number of assays tested in: 34. Active in the following assays: • MLPCN PGC1a Modulators Measured in Cell-Based System Using Plate Reader - 2139-01_Activator_SinglePoint_HTS_Activity (AID 651723) • MLPCN PGC1a Modulators Measured in Cell-Based System Using Plate Reader - 2139-01_Activator_Dose_CherryPick_Activity_Set6 (AID 720513)
BRD-K49919280-001-01-8 PubChem CID : 54649041		0.61 (in 2 replicates)	-0.48	0.314				Total number of assays tested in: 33.
BRD-K97097354-001-05-6 SMR000000922 ZINC04375259 AC1LCOJA MLS000068042 MLS002538165 HMS2328P17 ZINC4375259 ASN 10013985 PubChem CID : 653490		NA (in 1 replicates)	-0.48	NA				Total number of assays tested in: 782. Active in the following assays: • qHTS Assay for Inhibitors of HSD17B4, hydroxysteroid (17-beta) dehydrogenase 4 (AID 893) • Luminescence-based cell-based primary high throughput screening assay to identify biased ligands of the melanocortin 4 receptor (MC4R): agonists of MC4R (AID 540308) • qHTS Assay for Activators of ClpP (AID 651965)
BRD-K80044183-001-01-3 PubChem CID : 54633866		0.59 (in 3 replicates)	-0.47	0.772				Total number of assays tested in: 36.