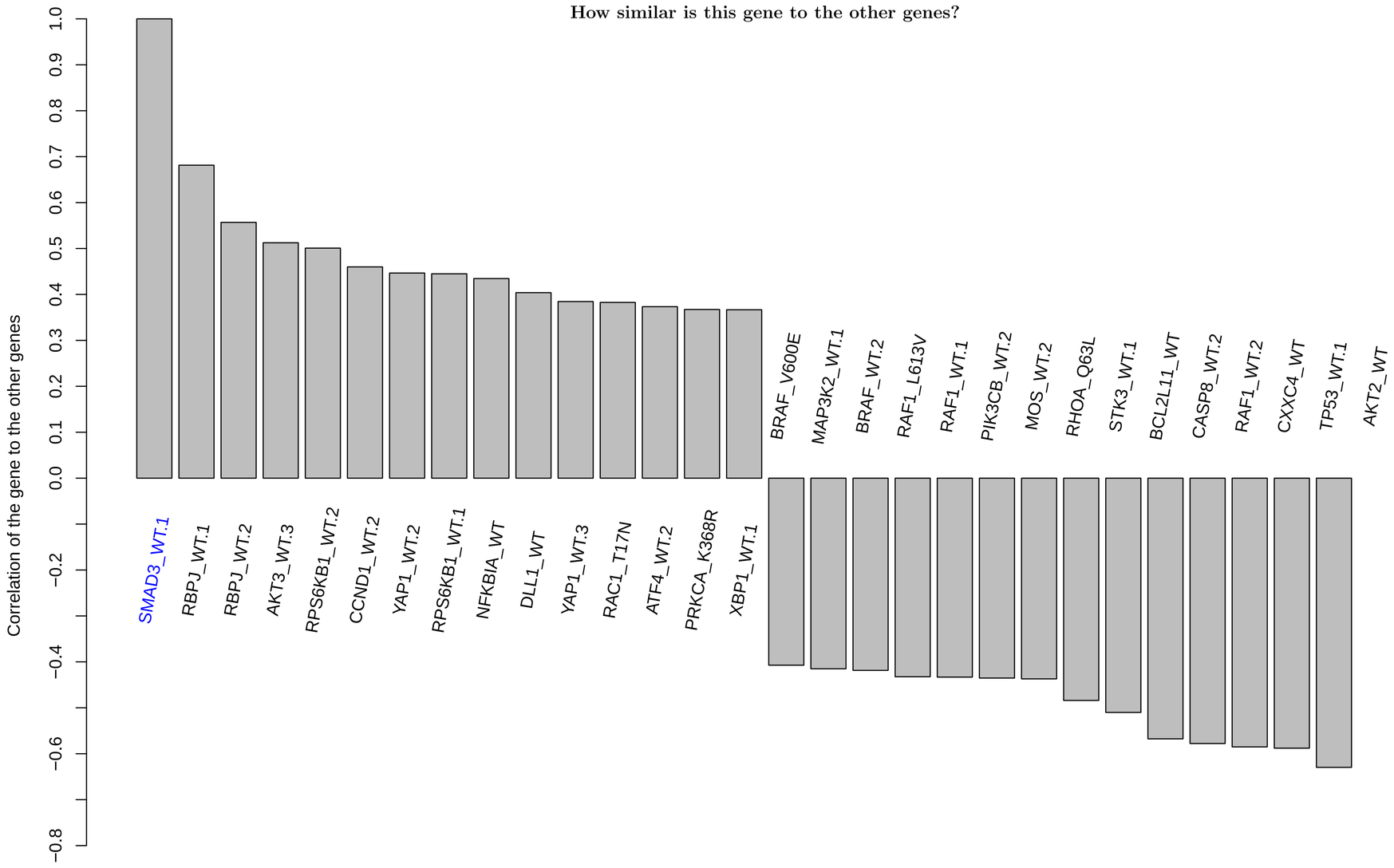
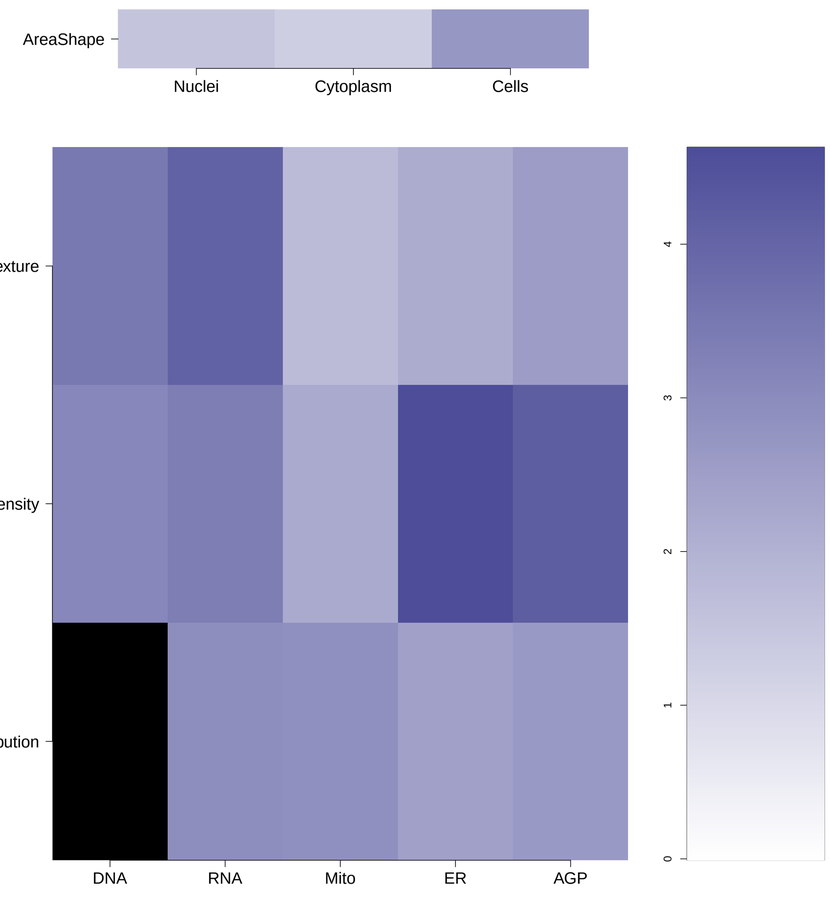
SMAD3_WT.1 - in Canonical SMAD

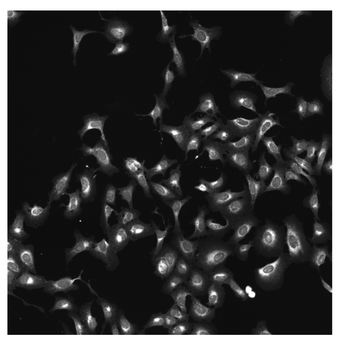
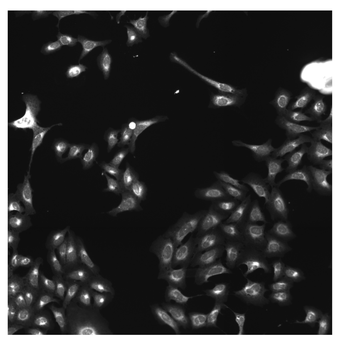
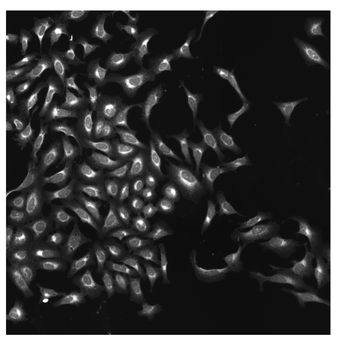
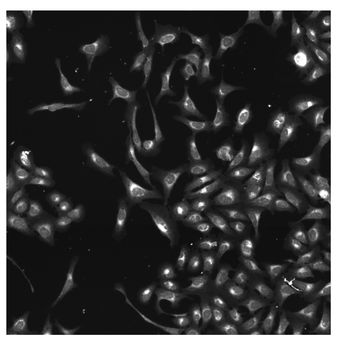
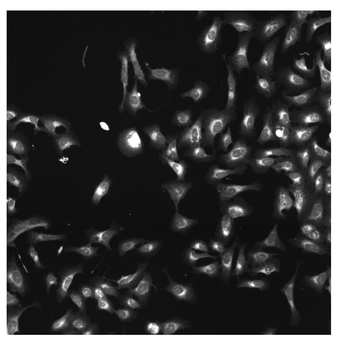
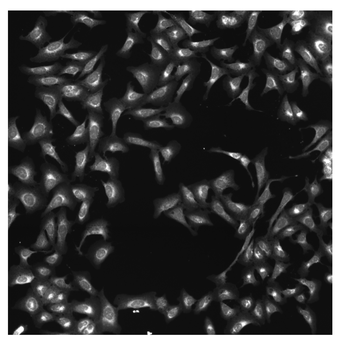
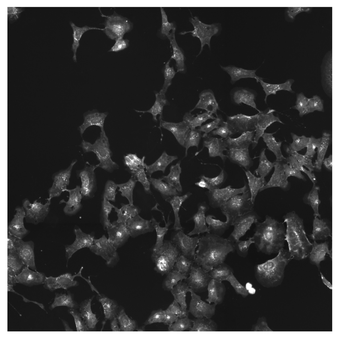
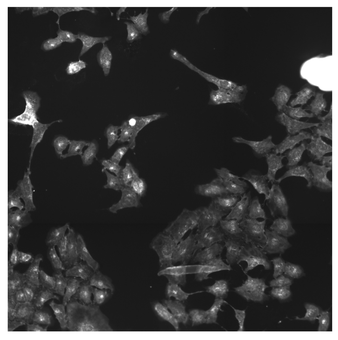
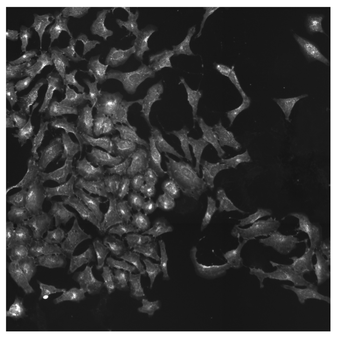
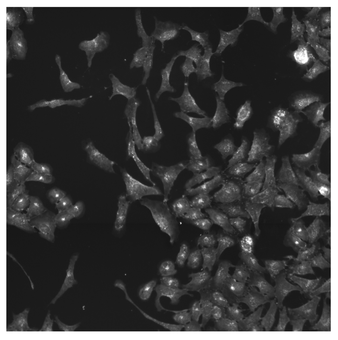
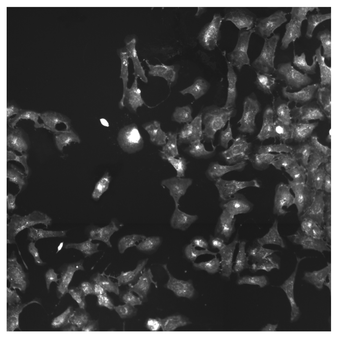
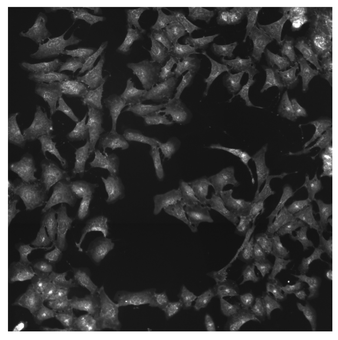
How similar is this gene to the other genes?



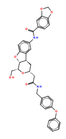
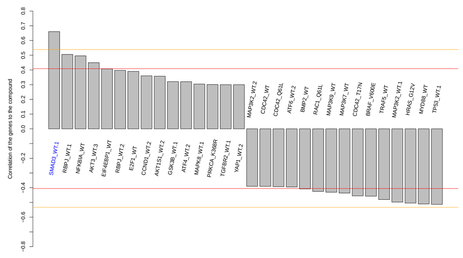
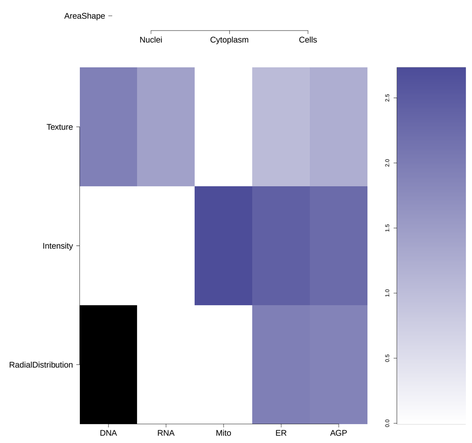
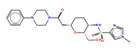
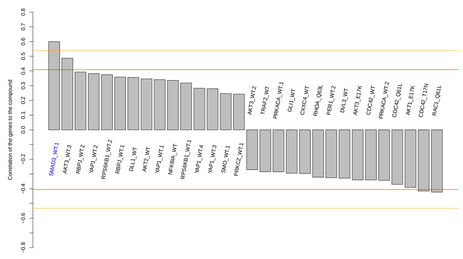
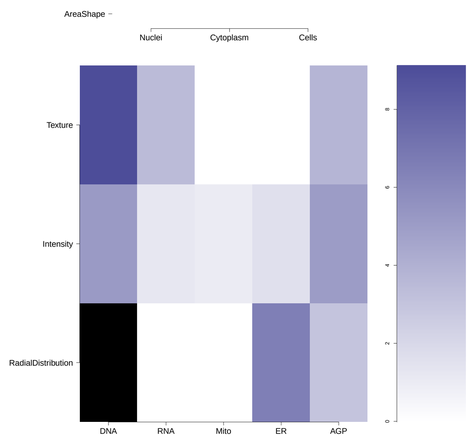
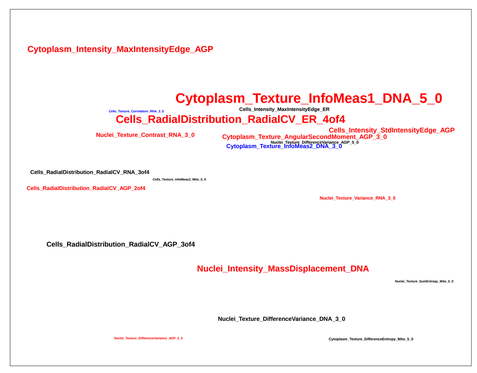
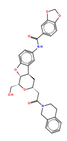
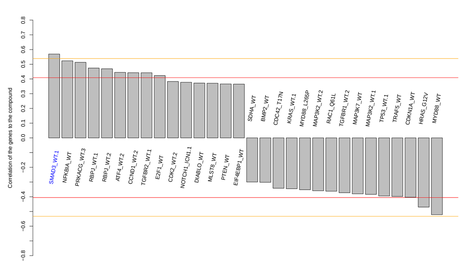
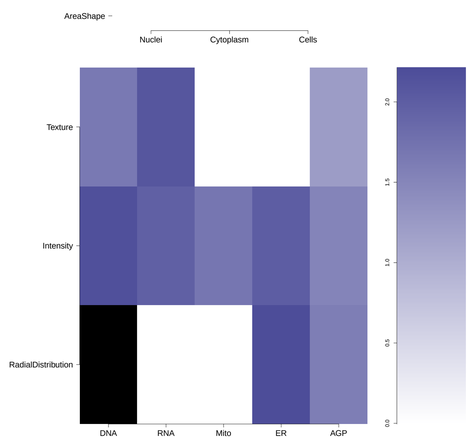
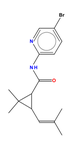
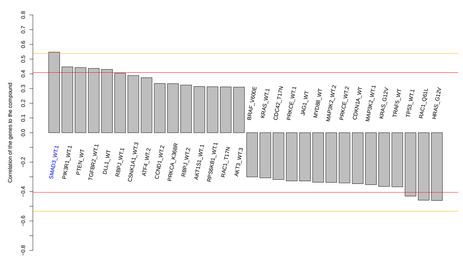
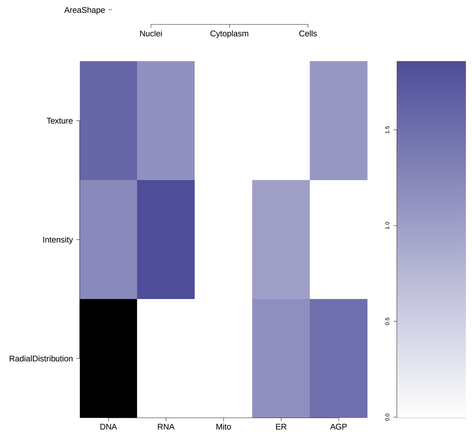
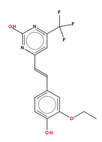
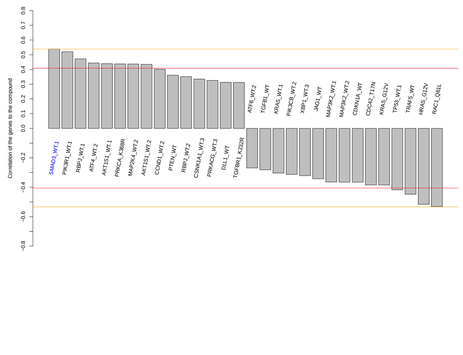
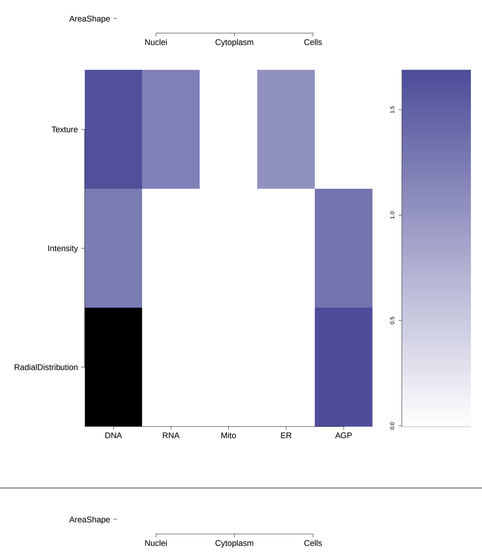
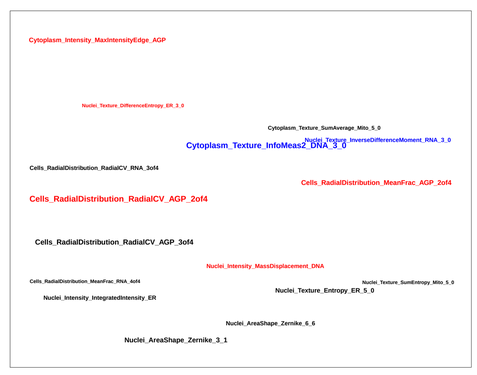
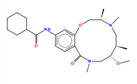
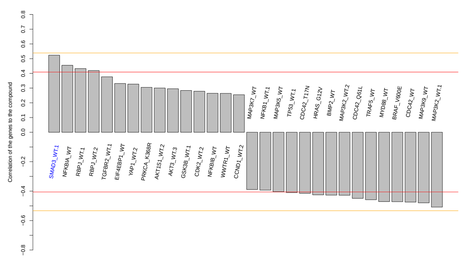
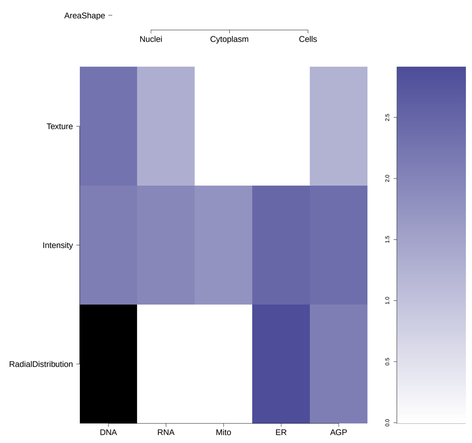
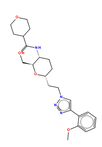
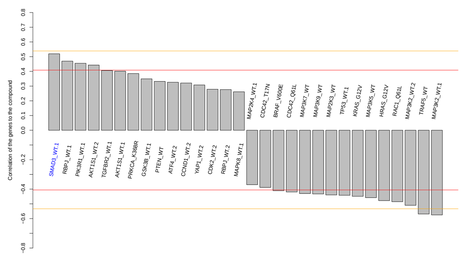
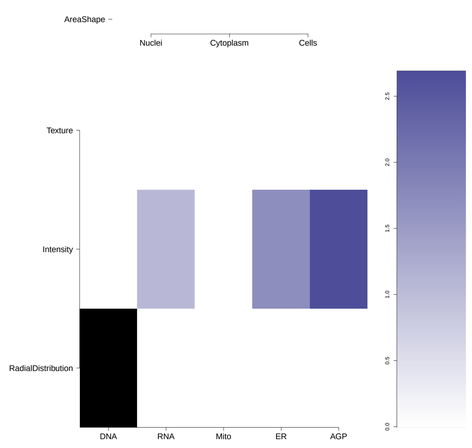
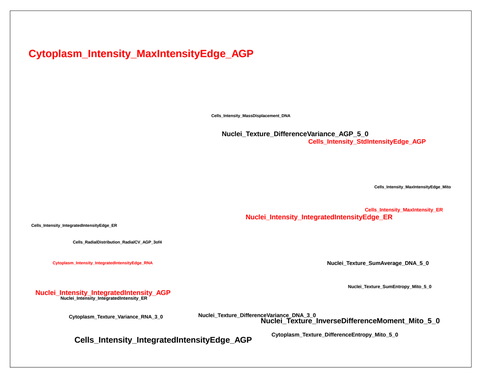
What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

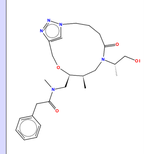
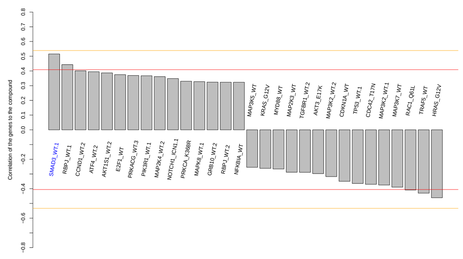
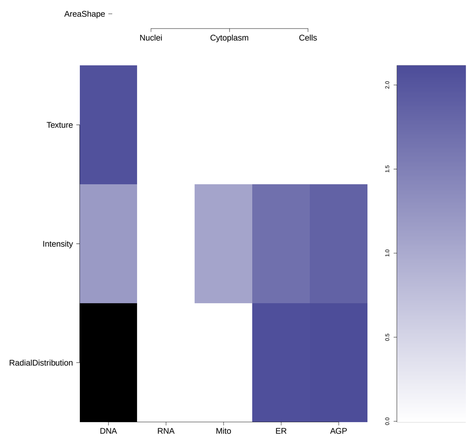
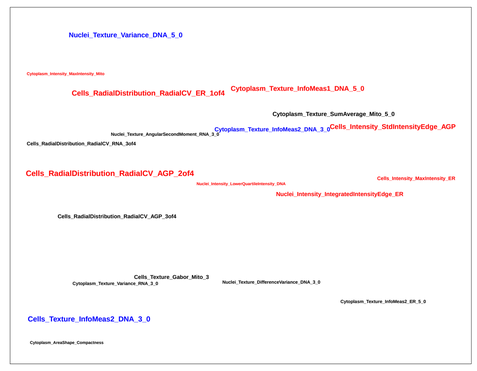
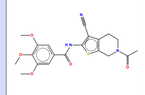
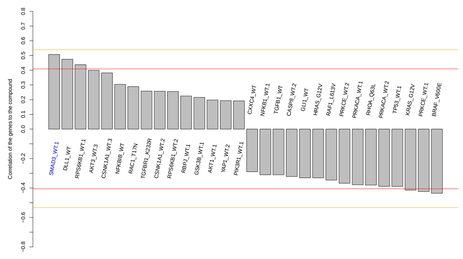
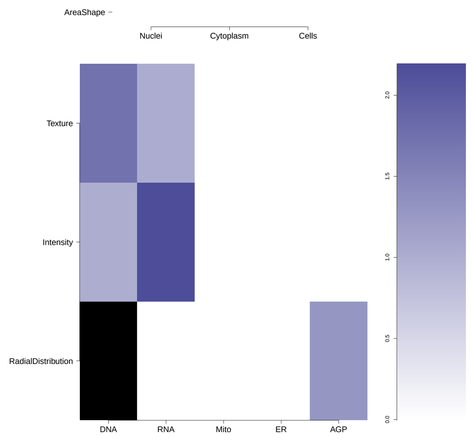
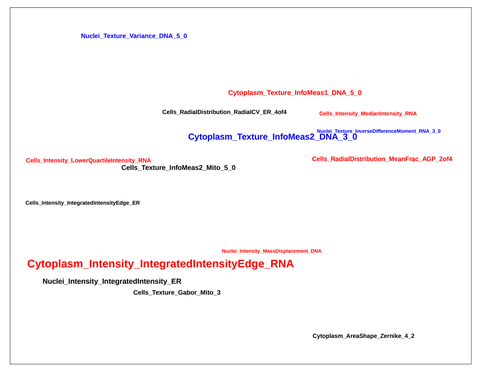
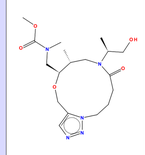
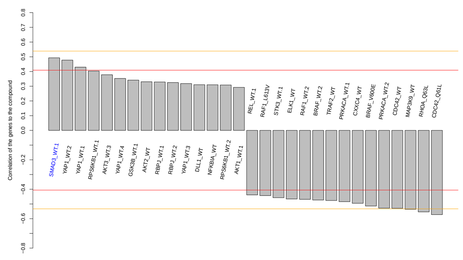
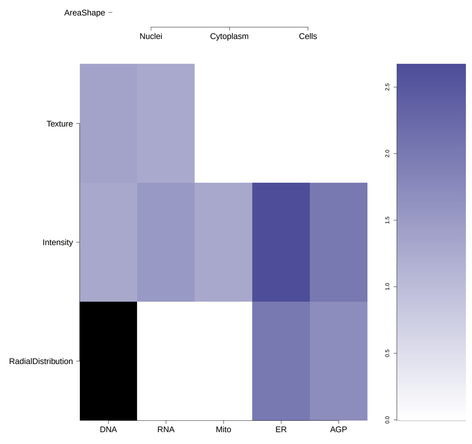
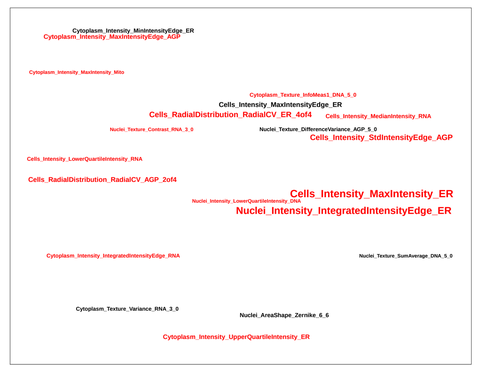
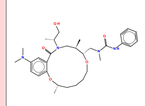
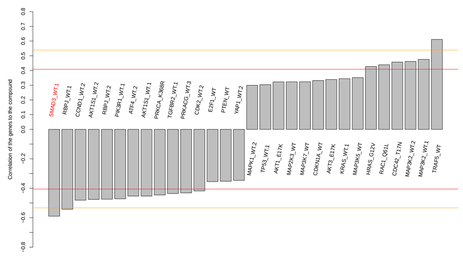
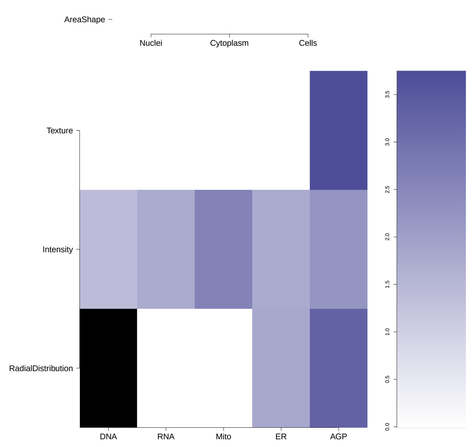
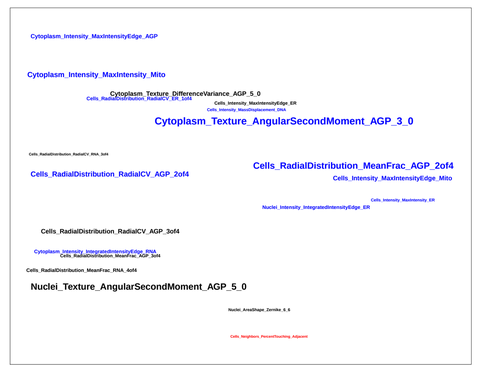
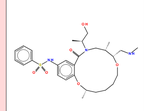
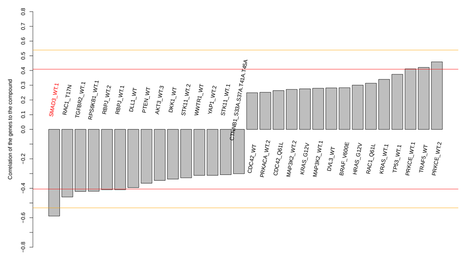
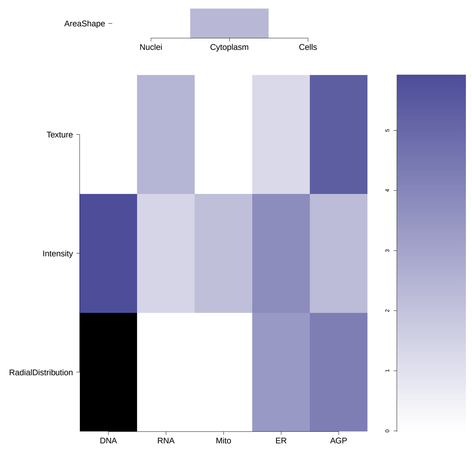
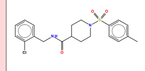
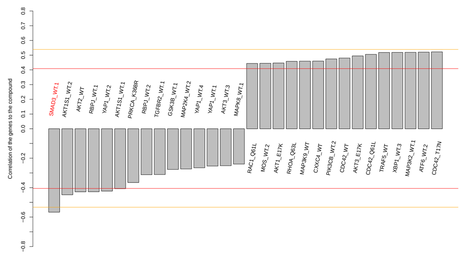
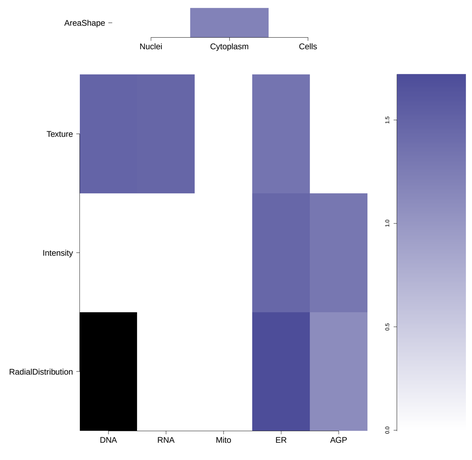


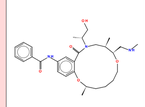
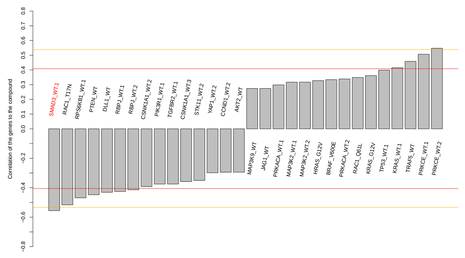
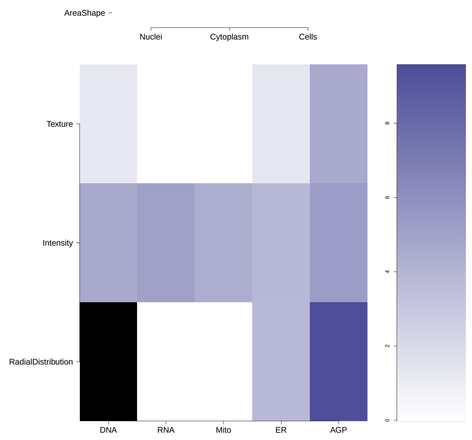
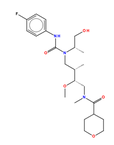
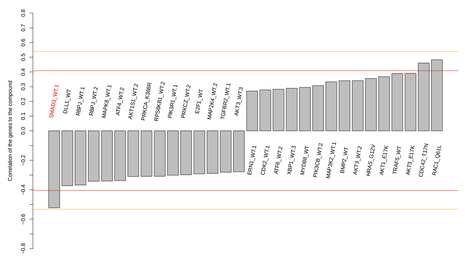
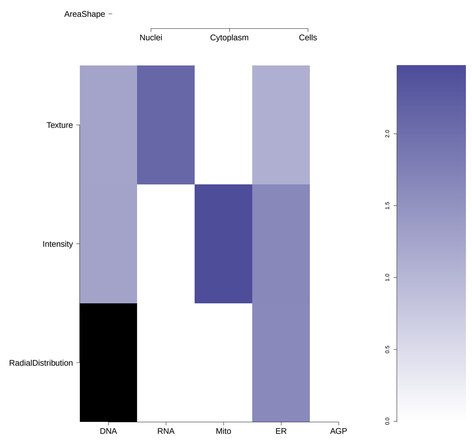
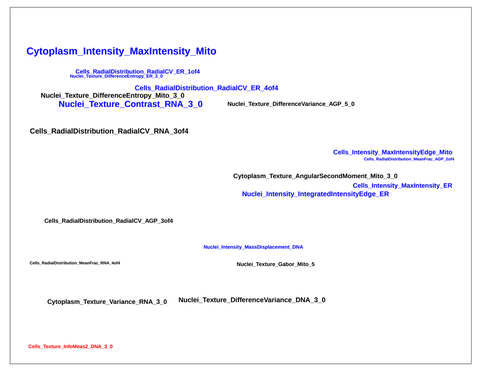
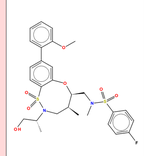
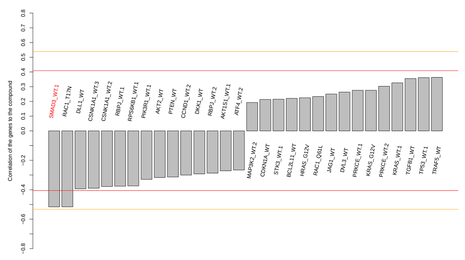
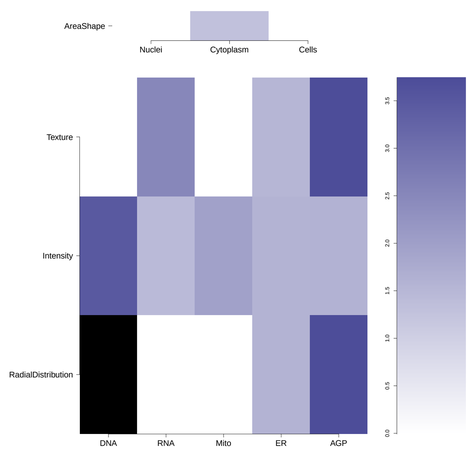
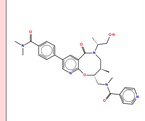
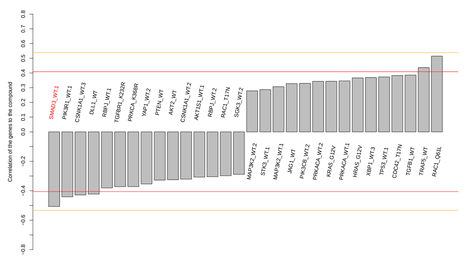
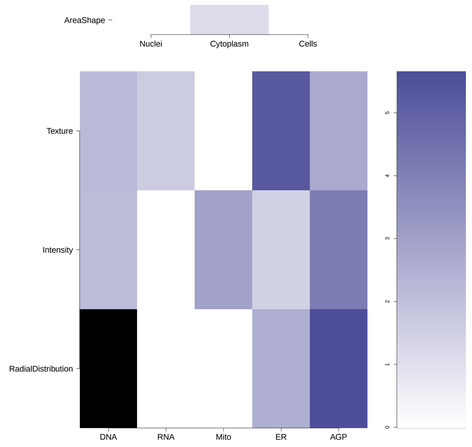
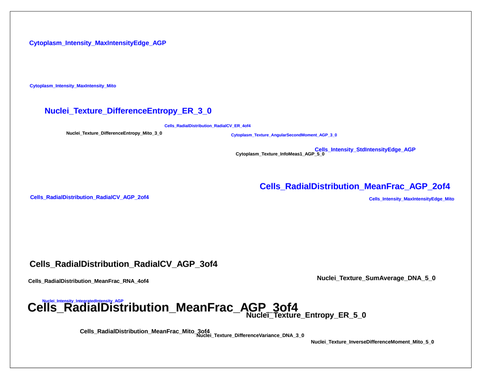
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

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

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 0.51)	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)	0.66	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-K09541394-001-01-1 PubChem CID : 54641287		NA (in 1 replicates)	0.60	NA				Total number of assays tested in: 40.
BRD-K78761249-001-01-8 PubChem CID : 54645870		NA (in 1 replicates)	0.57	0.063				Total number of assays tested in: 42.
BRD-A87928000-001-05-4 MLS000109722 SMR000105661 AC1MESLY BDBM37503 HMS2309H09 STL356738 BAS 00728538 PubChem CID : 2883391		NA (in 1 replicates)	0.55	NA				Total number of assays tested in: 760. Active in the following assays: • Dose Response Assay for S1P3 Antagonists (AID 484) • Primary HTS Assay for S1P3 Antagonists (AID 485) • Primary biochemical high-throughput screening assay for inhibitors of Focal Adhesion Kinase (FAK) (AID 727) • qHTS Assay for Agonists of the Thyroid Stimulating Hormone Receptor: Activators of Intracellular cAMP Concentrations in Parental HEK 293 (AID 938) • uHTS for Calpain Inhibitors (AID 1236) • HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732) • Elucidation of physiology of non-replicating, drug-tolerant Mycobacterium tuberculosis (AID 488890) • A Cell Based Secondary Assay to Explore Cytotoxicity in THP-1 Cells of Compounds that Modulate Non-Replicating, Drug-tolerant Mycobacterium tuberculosis (AID 489025)
BRD-K19768759-001-05-8 AC1NSO3D MLS000713592 HMS2637L15 SMR000273073 PubChem CID : 5337126		NA (in 1 replicates)	0.54	NA				Total number of assays tested in: 626. Active in the following assays: • qHTS for Inhibitors of Tau Fibril Formation, Thioflavin T Binding (AID 1460) • MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) • Identification of SV40 T antigen inhibitors: A route to novel anti-viral reagents (AID 1903) • qHTS Assay for Inhibitors and Activators of Human alpha-Glucosidase Cleavage of Glycogen (AID 2100) • A biochemical assay using the ADP-Hunter methodology, purified TAg, and ATP to identify compounds that inhibit the ATPase activity of Tag - Counter Screen (AID 2501) • 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) • Nrf2 qHTS screen for inhibitors (AID 504444) • Confirmation screen for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504848) • qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279)
BRD-K93927229-001-01-0 PubChem CID : 54634118		0.54 (in 3 replicates)	0.52	0.251				Total number of assays tested in: 19.
BRD-K55011281-001-01-4 PubChem CID : 54641249		NA (in 1 replicates)	0.52	NA				Total number of assays tested in: 37.

BRD-K23349860-001-01-6 PubChem CID : 44487412		0.56 (in 3 replicates)	0.52	0.131				Total number of assays tested in: 33.
BRD-K27320766-001-05-9 MLS000530041 SMR000127084 F1298-0851 ZINC04275185 AC1N85XG BDBM74745 HMS2249O05 ZINC4275185 PubChem CID : 4338730		NA (in 1 replicates)	0.51	NA				Total number of assays tested in: 697. Active in the following assays: • Human H69AR Lung Tumor Cell Growth Inhibition Assay - 86K Screen (AID 598) • Screening for Modulators of Post-Golgi Transport, Control Strain (AID 738) • uHTS identification of compounds inhibiting the binding between the RUNX1 Runt domain and CBFb-SMMHC via a fluorescence resonance energy transfer (FRET) assay. (AID 1434) • Fluorescence Cell-Free Homogeneous Primary HTS to Identify Inhibitors of the RanGTP-Importin-beta complex (AID 2216) • Fluorescence Cell-Free Homogeneous Dose Retest to Identify Inhibitors of the RanGTP-Importin-beta complex (AID 2823) • Fluorescence Cell-Free Homogeneous Counterscreen to Identify Inhibitors of the RanGTP-Importin-beta complex. (AID 435026) • HTS using DiI-HDL to assay lipid transfer in ldlA[SR-BI] cells Measured in Cell-Based System Using Plate Reader - 2085-01_Inhibitor_SinglePoint_HTS_Activity (AID 488896) • qHTS for Agonist of gsp, the Etiologic Mutation Responsible for Fibrous Dysplasia/McCune-Albright Syndrome: qHTS (AID 624287) • Luminescence-based cell-based high throughput confirmation assay for inverse agonists of the liver receptor homolog-1 (LRH-1; NR5A2) (AID 651613) • Counterscreen for inverse agonists of the liver receptor homolog-1 (LRH-1; NR5A2): Luminescence-based cell-based high throughput assay to identify inverse agonists of the Steroidogenic Factor 1 Nuclear Receptor (SF1; NR5A1) (AID 651614)
BRD-K89796490-001-02-5 MLS003129769 SMR001834215 PubChem CID : 44492578		0.53 (in 3 replicates)	0.49	0.082				Total number of assays tested in: 229.
BRD-K86946907-001-01-8 PubCID : 44494582		0.72 (in 4 replicates)	-0.59	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-K57969466-001-01-8 PubCID : 44489309		0.80 (in 4 replicates)	-0.59	0.788				Total number of assays tested in: 46.
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-K90429860-001-01-4 PubChem CID : 54614935		0.91 (in 4 replicates)	-0.56	0.006				Total number of assays tested in: 19.
BRD-K49919280-001-01-8 PubChem CID : 54649041		0.65 (in 2 replicates)	-0.52	0.314				Total number of assays tested in: 33.
BRD-K49258369-001-01-5 PubChem CID : 54618911		0.69 (in 3 replicates)	-0.52	0.314				Total number of assays tested in: 41. 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) • MLPCN SirT-5 Measured in Biochemical System Using Imaging - 7044-01_Inhibitor_SinglePoint_HTS_Activity_Set5 (AID 652115)
BRD-K06295532-001-01-0 PubChem CID : 54618628		0.90 (in 4 replicates)	-0.51	0.688				Total number of assays tested in: 36.
BRD-K51762600-001-02-8 MLS003129301 SMR001833747 PubChem CID : 44505038		0.94 (in 3 replicates)	-0.46	0.762				Total number of assays tested in: 229.
BRD-K75648723-001-01-5 PubChem CID : 54614898		0.90 (in 4 replicates)	-0.46	0.314				Total number of assays tested in: 37.
BRD-K48042736-001-01-0 PubChem CID : 44497522		0.74 (in 3 replicates)	-0.46	0.934				Total number of assays tested in: 43.