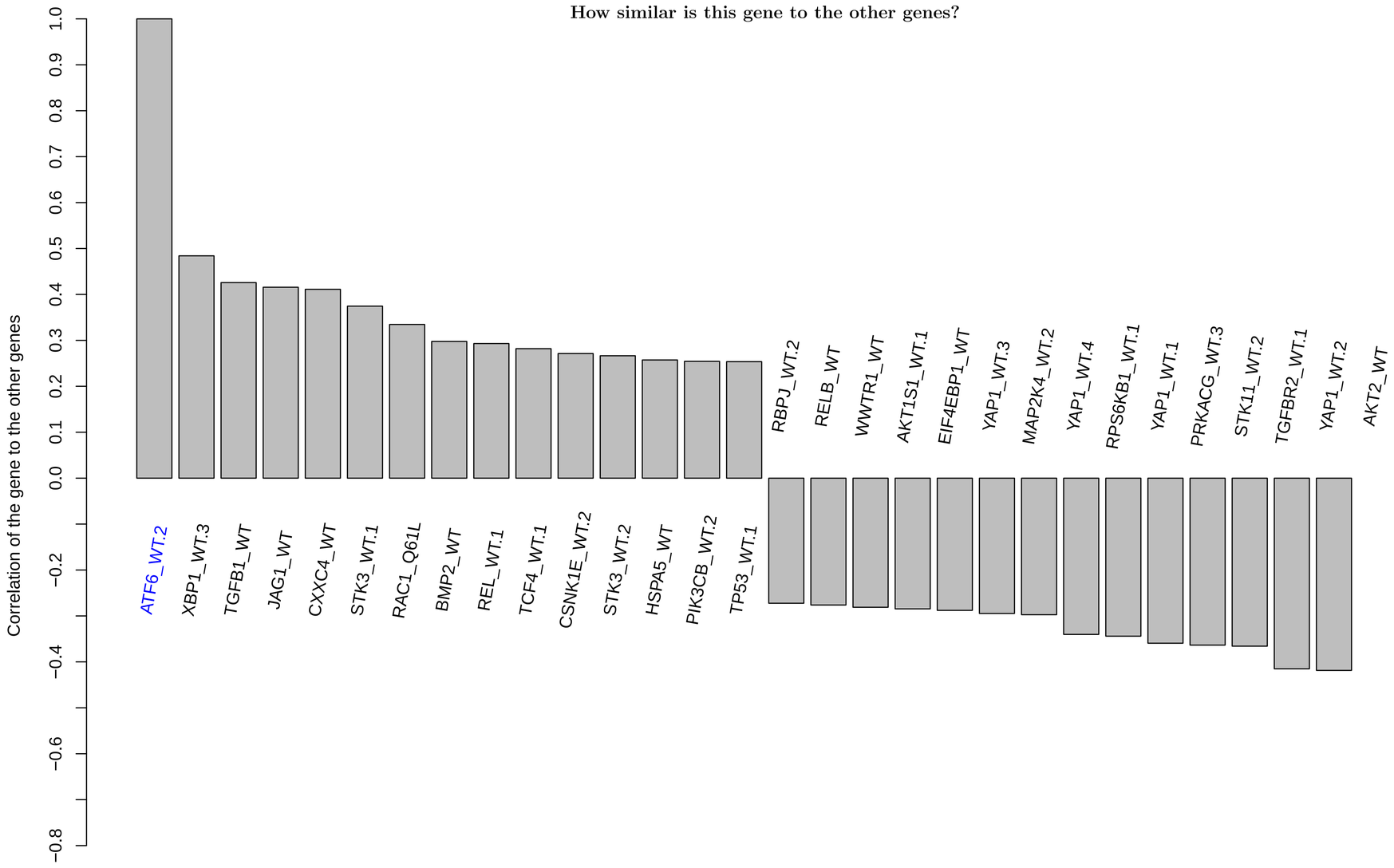
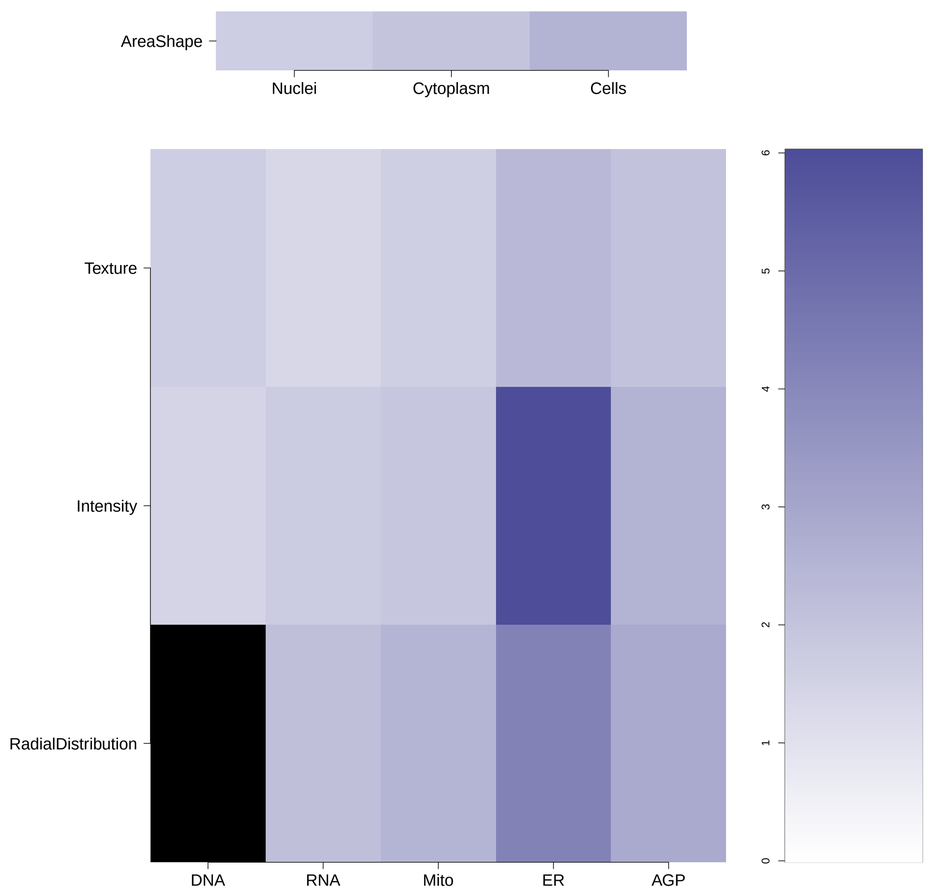
ATF6_WT.2 - in ER Stress/UPR

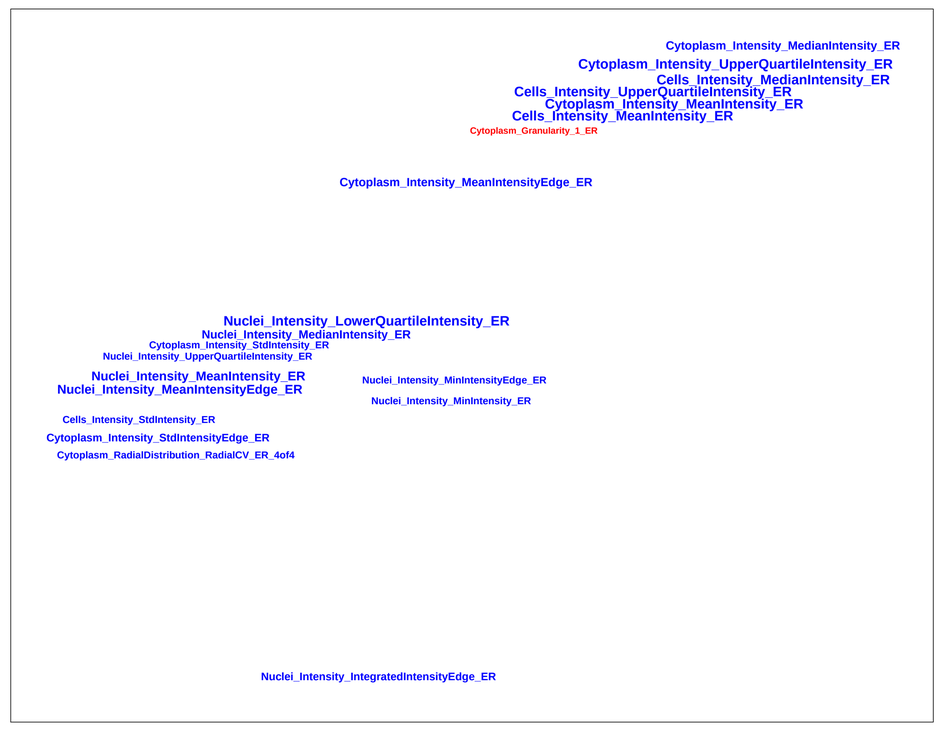
How similar is this gene to the other genes?

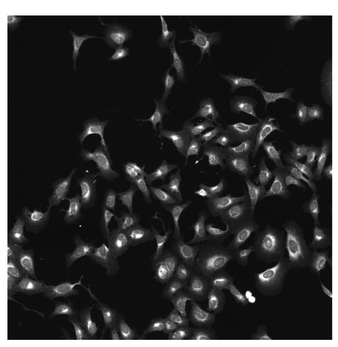
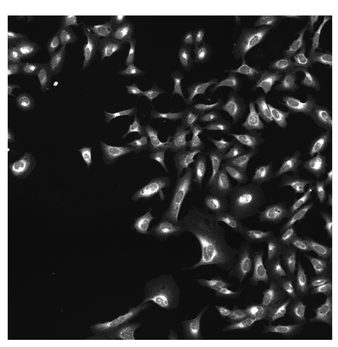
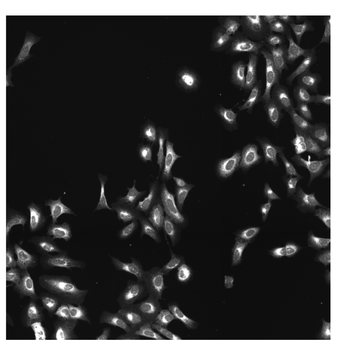
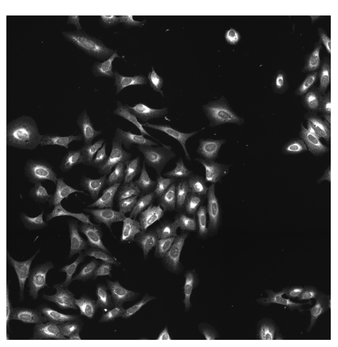
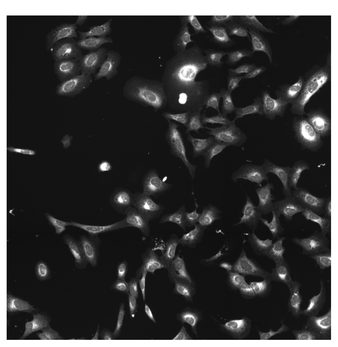
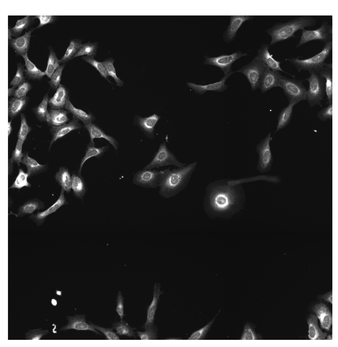
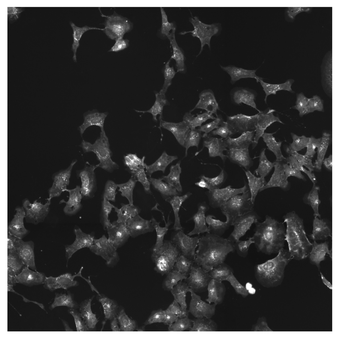
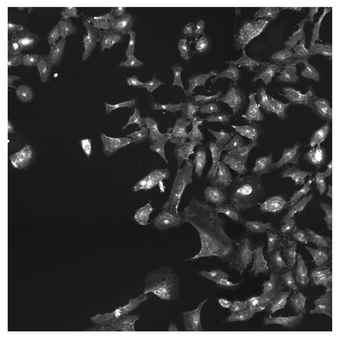
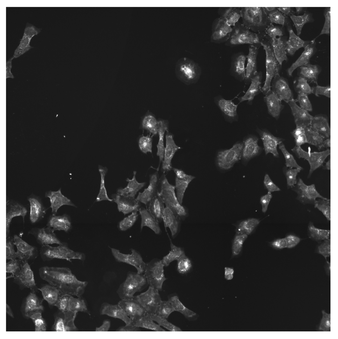
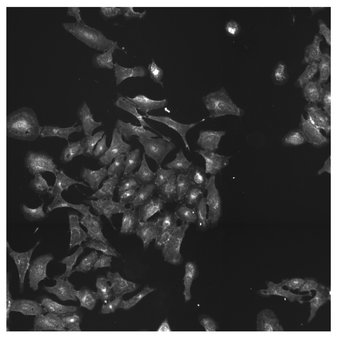
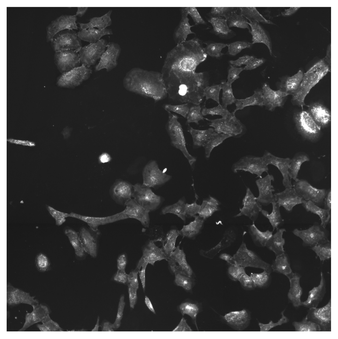
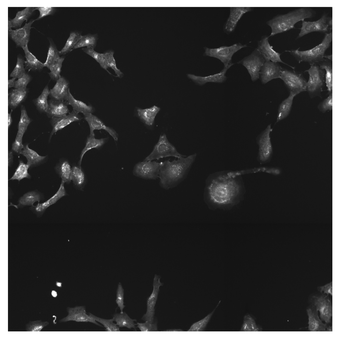


What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

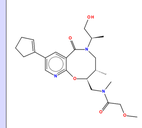
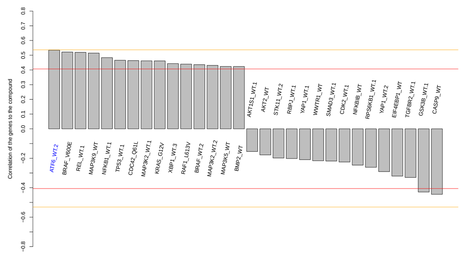
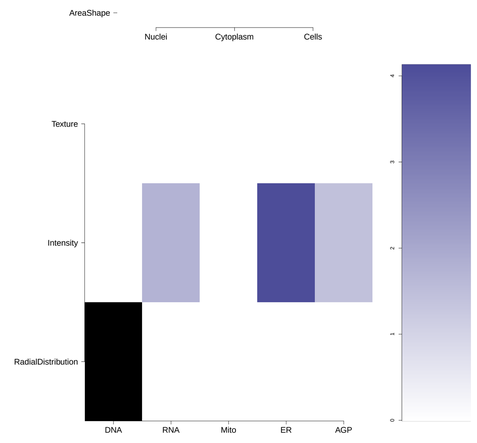
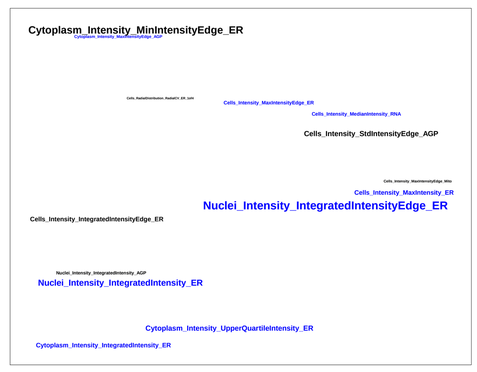
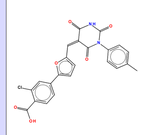
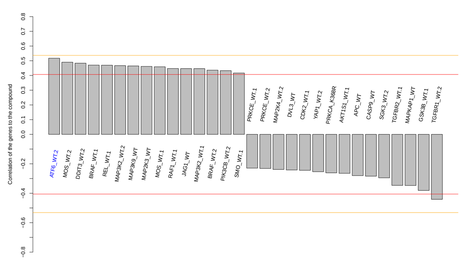
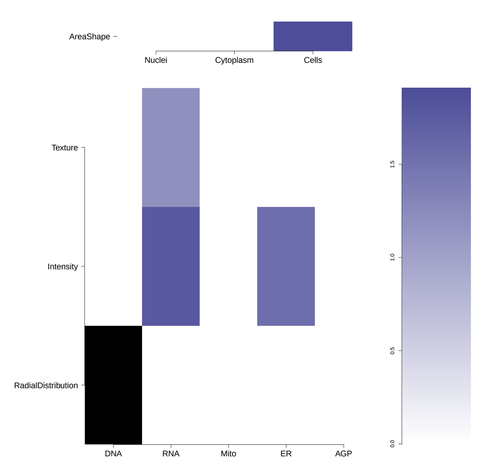
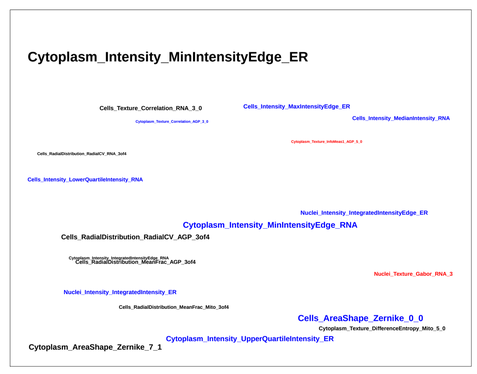
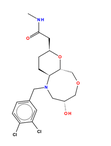
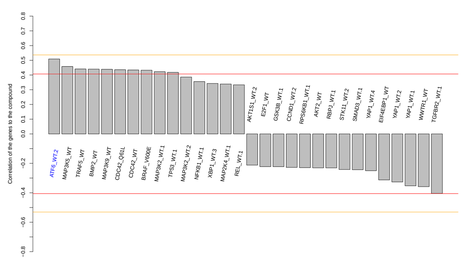
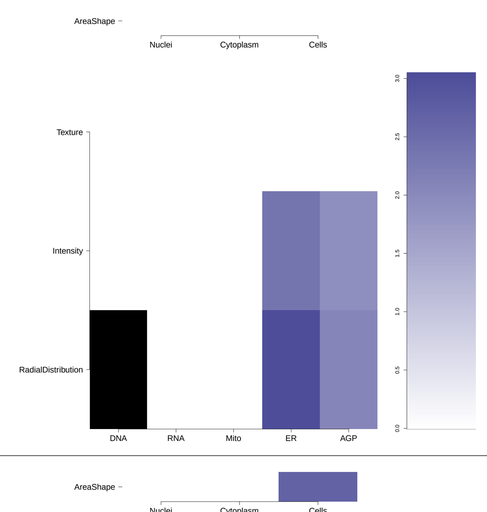
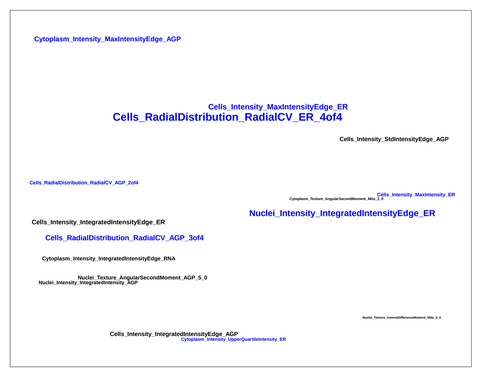
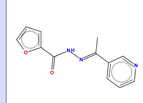
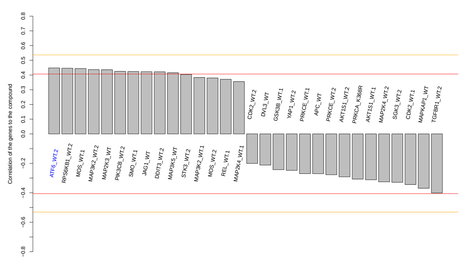
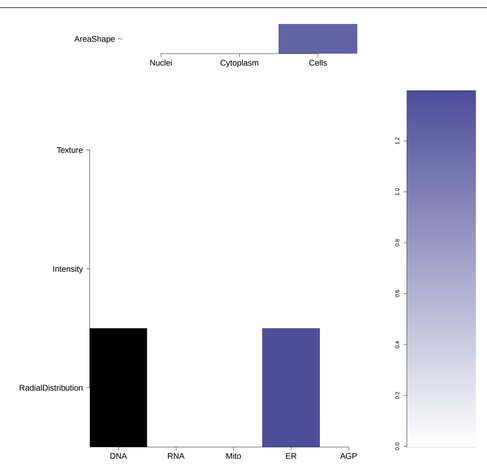
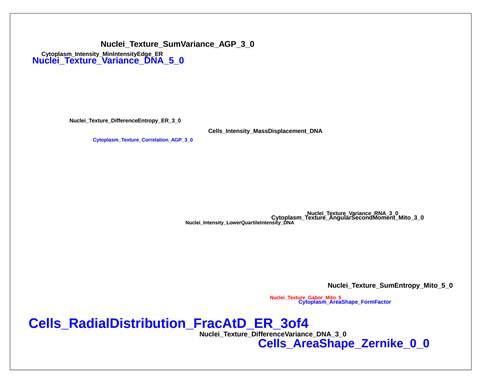


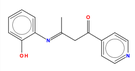
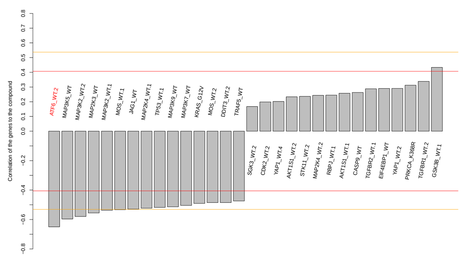
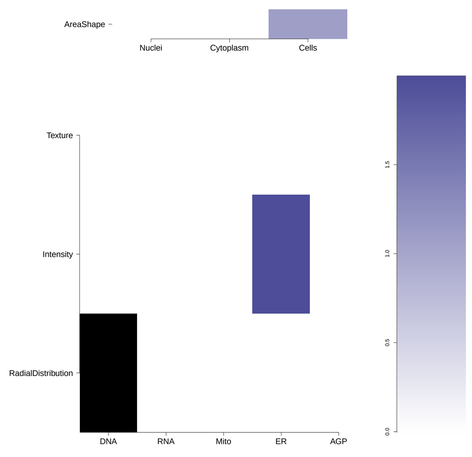
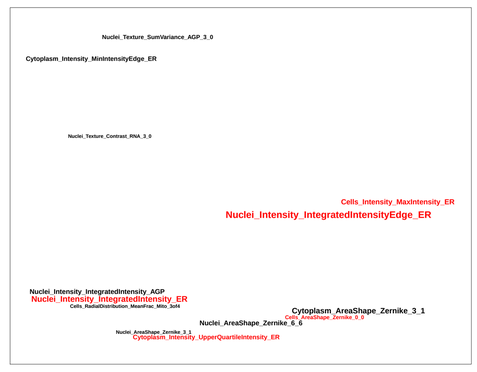
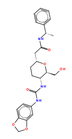
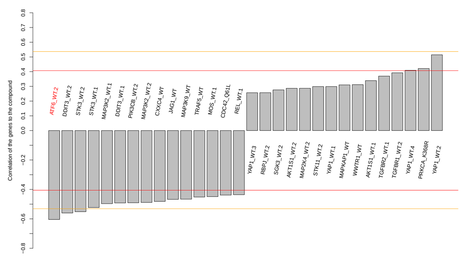
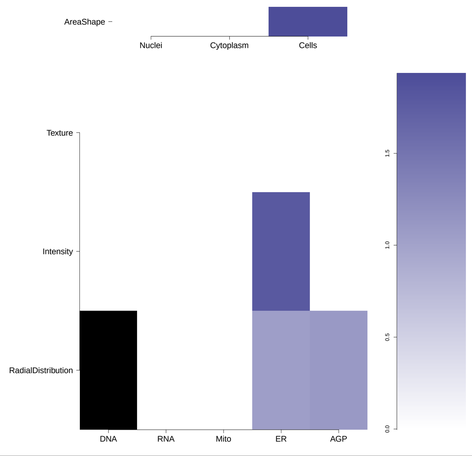
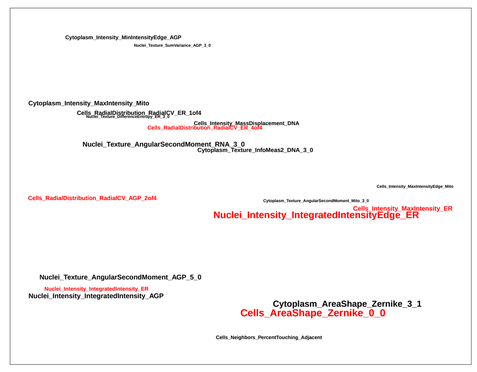
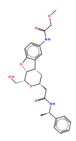
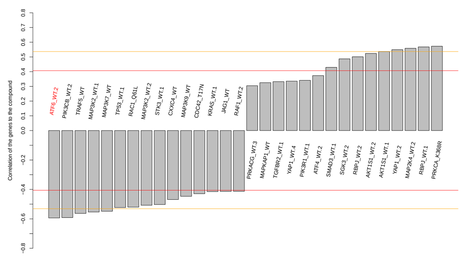
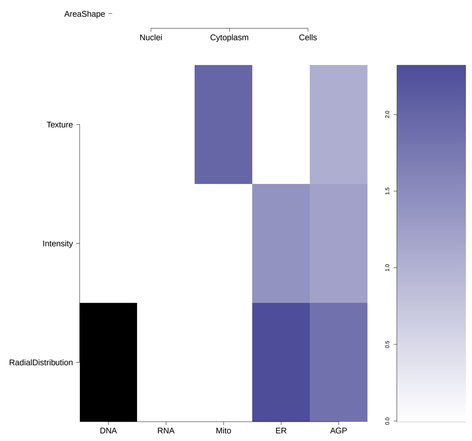
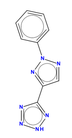
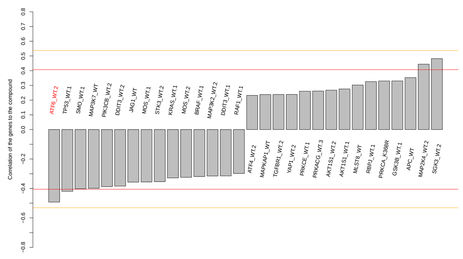
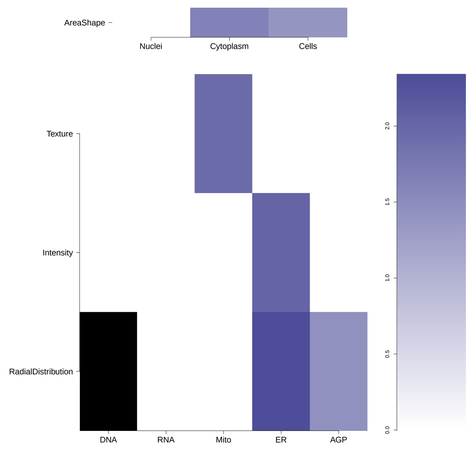
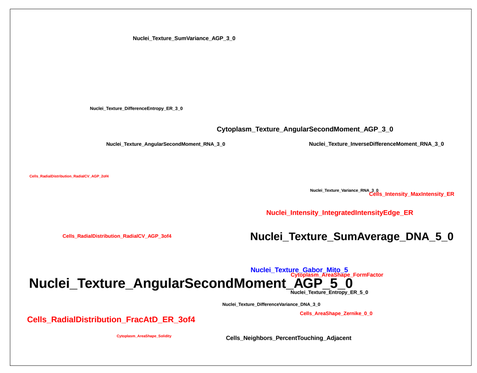
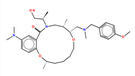
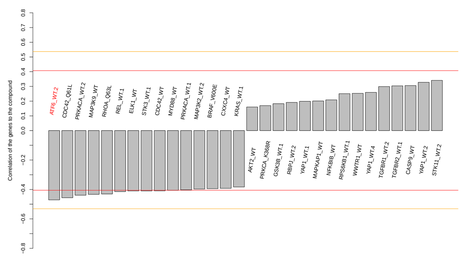
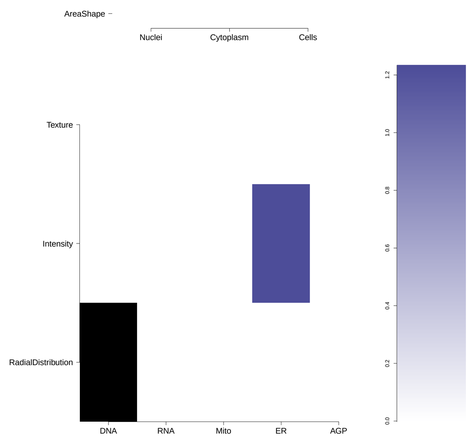
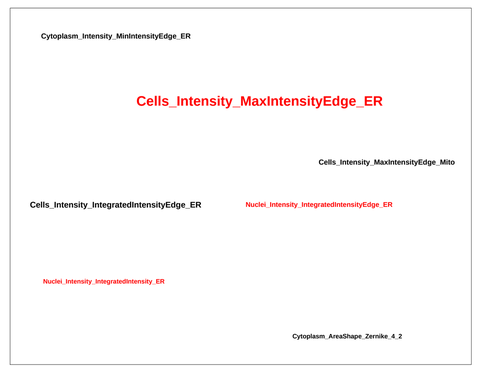
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.



	Empty	ATF6_WT.2 (41744)	ATF6_WT.2 (41755)	ATF6_WT.2 (41756)	ATF6_WT.2 (41757)	ATF6_WT.2 (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 0.52)	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-K13312254-001-01-0 PubChem CID : 54619921		0.57 (in 4 replicates)	0.53	NA				Total number of assays tested in: 32.
BRD-K91321179-001-05-9 MLS000673882 SMR000297924 AC1NSOH4 Ambcb5904359 BDBM60641 HMS2601A16 ZINC13130666 PubChem CID : 5337291		0.71 (in 2 replicates)	0.52	NA				Total number of assays tested in: 634. Active in the following assays: • Screen for Chemicals that Inhibit the RAM Network (AID 868) • qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490) • qHTS Assay for Activators of Human Muscle isoform 2 Pyruvate Kinase (AID 1631) • Fluorescence-based primary biochemical high throughput screening assay to identify inhibitors of the Hepatitis C Virus non-structural protein 3 helicase (NS3) (AID 1800) • Identification of SV40 T antigen inhibitors: A route to novel anti-viral reagents (AID 1903) • Fluorescence-based confirmation biochemical high throughput screening assay for inhibitors of the Hepatitis C Virus non-structural protein 3 helicase (NS3) (AID 1943) • 384-well Z-Lyte format Hck-Nef inhibitor HTS run at the PMLSC (AID 463187) • qHTS Assay for Inhibitors of Tyrosyl-DNA Phosphodiesterase (TDP1) (AID 485290) • qHTS Assay for Inhibitors of DNA Polymerase Beta (AID 485314) • 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) • uHTS Colorimetric assay for identification of inhibitors of Scp-1 (AID 493091) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • Single concentration confirmation of uHTS hits for Scp-1 phosphatase using a colorimetric assay (AID 540281) • Dose Response confirmation of uHTS hits for Scp-1 phosphatase using a colorimetric assay (AID 540297) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • qHTS for Inhibitors of Polymerase Iota (AID 588590) • qHTS for Inhibitors of Polymerase Eta (AID 588591) • Luminescence-based biochemical primary high throughput screening assay to identify inhibitors of the interaction of the lipase coactivator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5) (AID 602281) • uHTS identification of inhibitors of NadD in a Colorimetric assay (AID 602399) • qHTS for Inhibitors of Glutaminase (GLS) (AID 624170) • qHTS for Inhibitors of Polymerase Eta: Confirmatory Assay for Cherry-picked Compounds (AID 720502) • qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504) • qHTS of Trypanosoma Brucei Inhibitors: Confirmatory Assay for Cherry-picked Compounds (AID 720569) • qHTS of Trypanosoma Brucei Inhibitors: Orthogonal Assay for Cherry-picked Compounds (AID 720584)
BRD-K90163207-001-01-1 PubChem CID : 54657755		0.66 (in 4 replicates)	0.51	0.669				Total number of assays tested in: 36.
BRD-K29154868-001-05-7 AC1NUGOL MLS000720005 ZINC13571506 SMR000304534 PubChem CID : 5502355		0.61 (in 4 replicates)	0.45	NA				Total number of assays tested in: 617. Active in the following assays: • Luminescence-based cell-based primary high throughput screening assay to identify activators of the function of SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2, BRM) (AID 652017)

BRD-K25642624-001-05-0 STK086138 AC1NSJLK HMS2277A09 PubChem CID : 5310870		NA (in 1 replicates)	-0.65	NA				Total number of assays tested in: 764. Active in the following assays: • Human H69AR Lung Tumor Cell Growth Inhibition Assay - 86K Screen (AID 598) • CYP2C19 Assay (AID 778) • Primary cell based high-throughput screening assay for antagonists of neuropeptide Y receptor Y2 (NPY-Y2) (AID 793) • qHTS Assay for Inhibitors of HPGD (15-Hydroxyprostaglandin Dehydrogenase) (AID 894) • qHTS Assay for Anthrax Lethal Toxin Internalization (AID 912) • Leishmania major promastigote HTS (AID 1063) • High Throughput Screen to Identify Compounds that increase expression of NF-kB in Human Neuronal Cells - Primary Screen (AID 1239) • Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Primary Screen (AID 1456) • Primary cell-based high-throughput screening assay for identification of compounds that protect hERG from block by proarrhythmic agents (AID 1511) • High Throughput Screen to Identify Inhibitors of Mycobacterium tuberculosis H37Rv (AID 1626) • Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Secondary Assay with KCC2 cells (AID 1713) • Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Secondary Assay 3 with KCC2 cells (AID 1714) • Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Counterscreen with HEK cells (AID 1716) • Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Counterscreen 2 with HEK cells (AID 1718) • qHTS Assay for Inhibitors and Activators of Human alpha-Glucosidase Cleavage of Glycogen (AID 2100) • Inhibitors of Cav3 T-type Calcium Channels: Primary Screen (AID 449739) • FRET-based cell-based primary high throughput screening assay to identify antagonists of the orexin 1 receptor (OX1R; HCRTR1) (AID 485270) • Elucidation of physiology of non-replicating, drug-tolerant Mycobacterium tuberculosis (AID 488890) • Inhibitors of T-Type Calcium Channel (AID 489005) • A Cell Based Secondary Assay to Explore Compounds that Modulate Non-Replicating, Drug-tolerant Compounds in Replicating H37Rv TB of Mycobacterium tuberculosis (AID 492952) • Confirmation screen for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504848) • Confirmation screen for delayed death inhibitors of the malarial parasite plastid, 48 hour incubation (AID 504850) • qHTS of Nrf2 Activators (AID 624171) • Beta-Arrestin HTS for Positive Allosteric Modulators of the Human D2 Dopamine Receptor: Antagonists (AID 624463) • Beta-Arrestin HTS for Positive Allosteric Modulators of the Human D2 Dopamine Receptor: Potentiators (AID 624464) • Confirmed inhibitors of the Cav3 T-type Calcium Channel (AID 1053190)
BRD-K55748528-001-01-4 PubChem CID : 54641116		0.61 (in 2 replicates)	-0.60	NA				Total number of assays tested in: 38.
BRD-K62943397-001-01-0 PubChem CID : 54646065		NA (in 1 replicates)	-0.59	0.793				Total number of assays tested in: 39.
BRD-K28173112-001-05-2 ST039328 SMR000109255 AC1LE5CY Ambcb7094725 MLS000113354 HMS2188D04 ZINC353605 CCG-4997 STK678746 PubChem CID : 706621		NA (in 1 replicates)	-0.49	NA				Total number of assays tested in: 735. Active in the following assays: • qHTS Assay for Inhibitors of HSD17B4, hydroxysteroid (17-beta) dehydrogenase 4 (AID 893) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • Counterscreen for activators of the calcium sensitivity of cardiac Regulated Thin Filaments (RTF): Fluorescence-based biochemical assay to identify fluorescence artifacts (AID 504382) • Fluorescence-based biochemical high throughput confirmation assay for activators of the calcium sensitivity of cardiac Regulated Thin Filaments (RTF) (AID 504383)
BRD-K60653414-001-01-6 PubChem CID : 44620777		0.54 (in 4 replicates)	-0.47	0.817				Total number of assays tested in: 44. Active in the following assays: • HTS for the detection of C. neoformans cell lysis via adenylate kinase (AK) release Measured in Microorganism System Using Plate Reader - 2162-01_Inhibitor_SinglePoint_HTS_Activity (AID 651654)