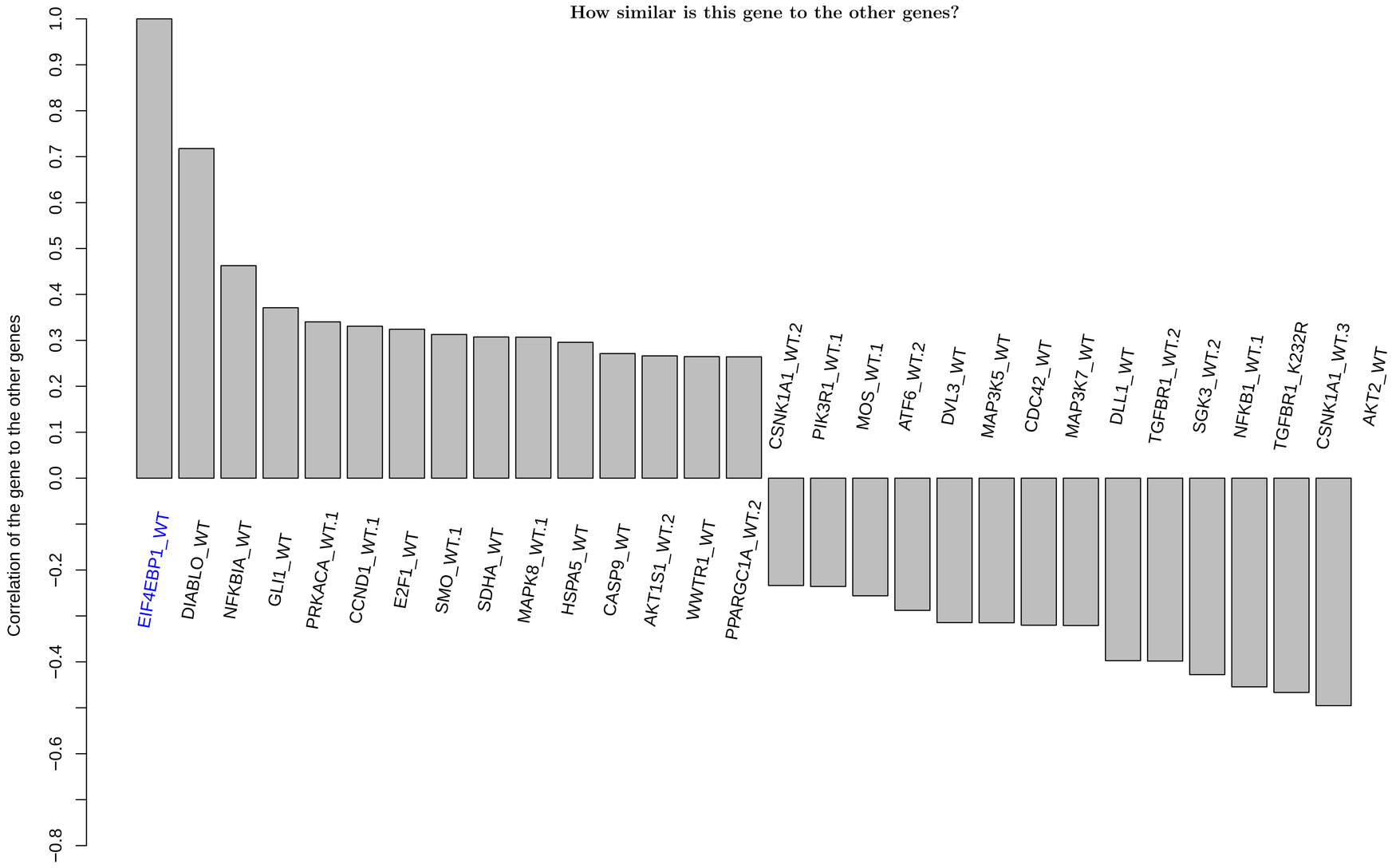
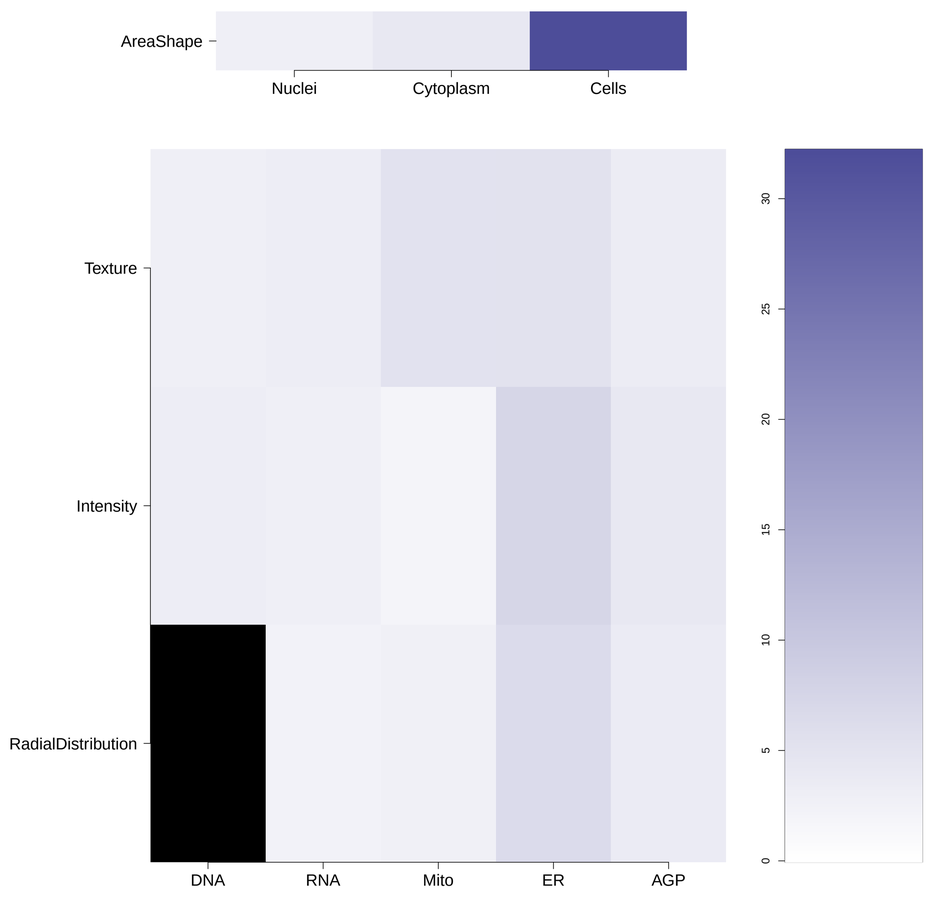
EIF4EBP1_WT - in Canonical TOR

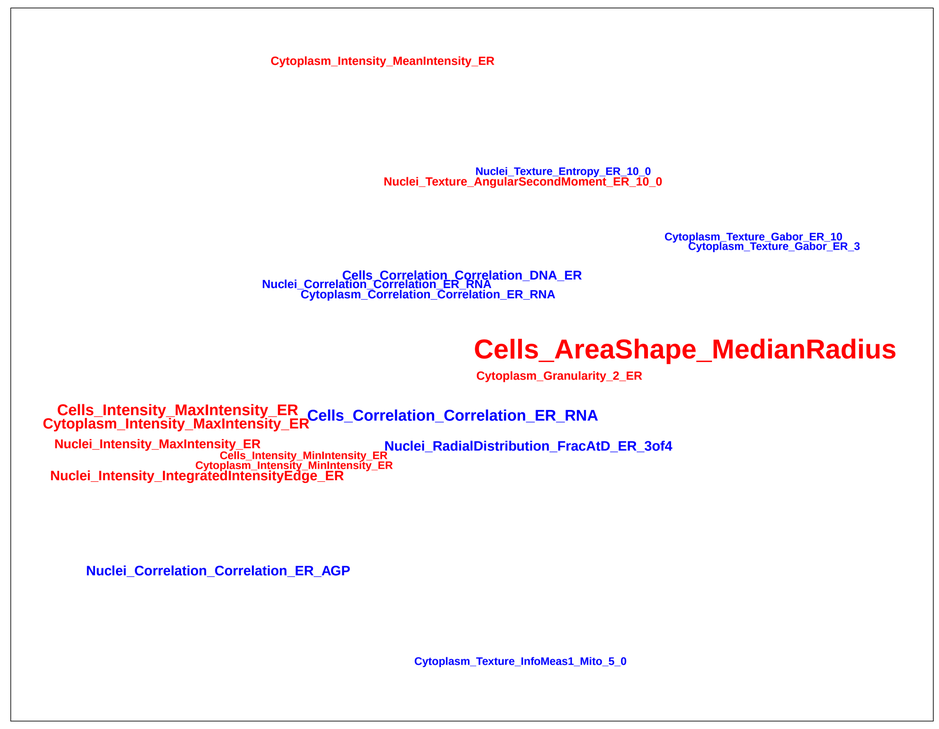
How similar is this gene to the other genes?

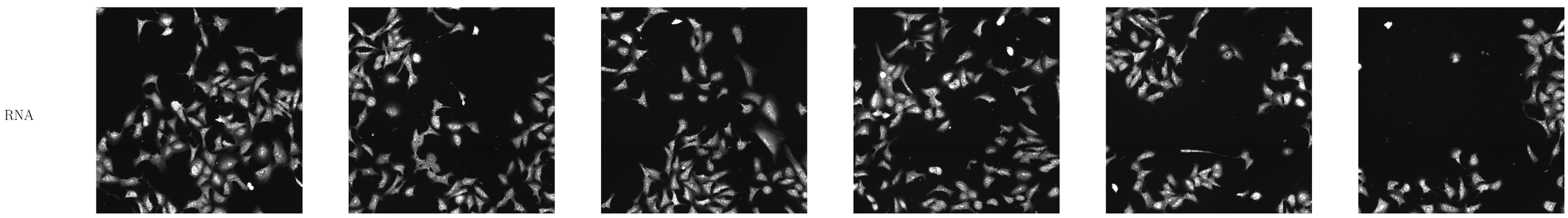


What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

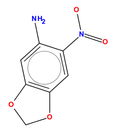
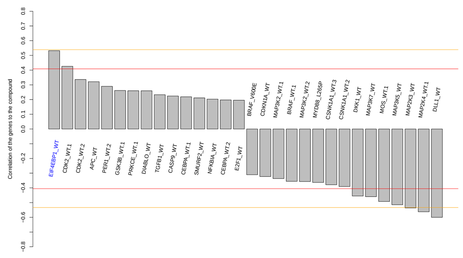
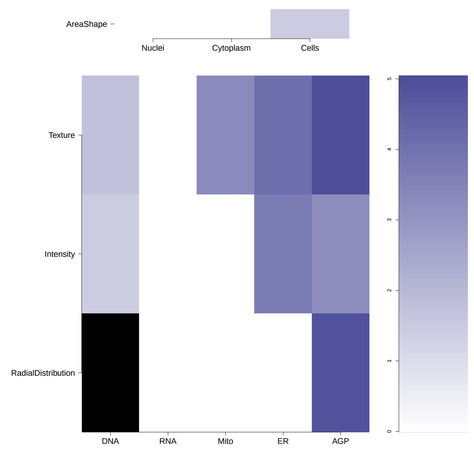
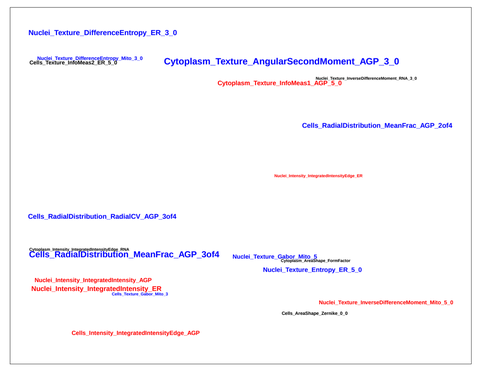
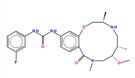
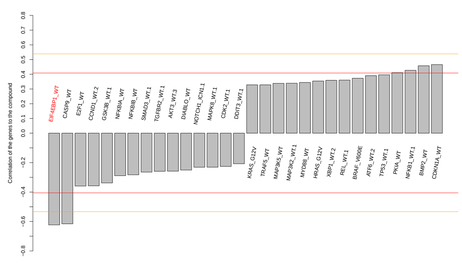
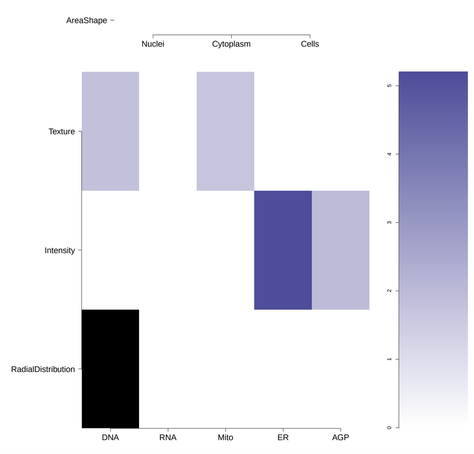
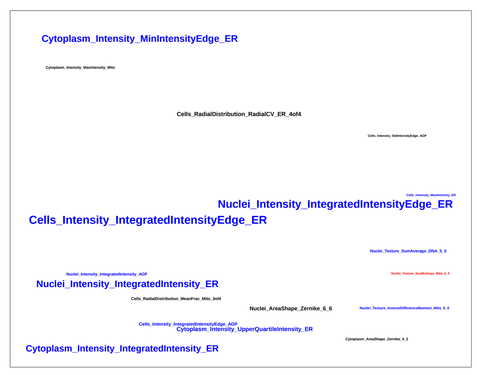
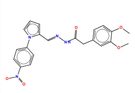
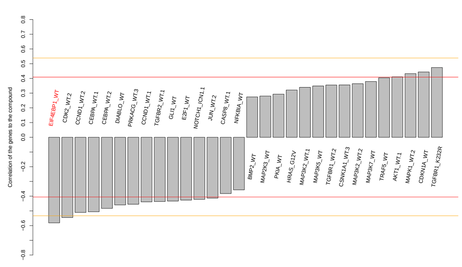
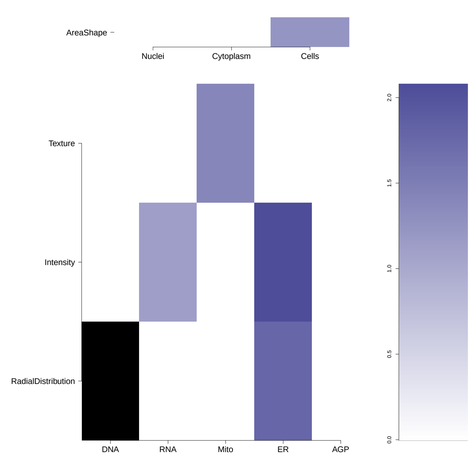
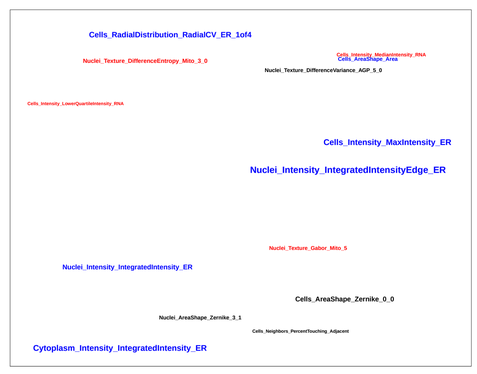
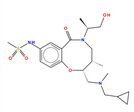
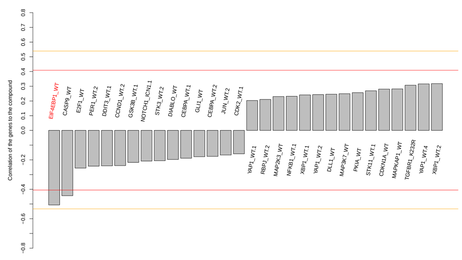
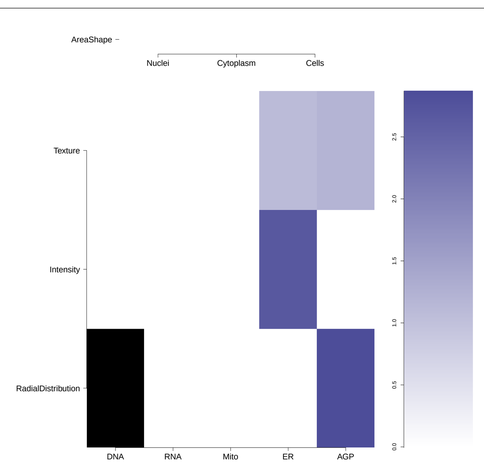
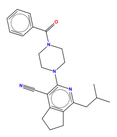
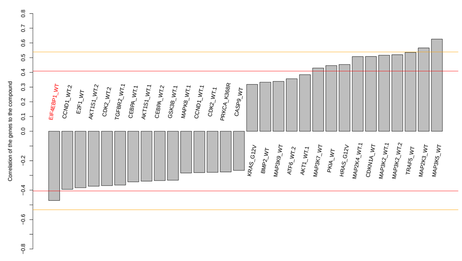
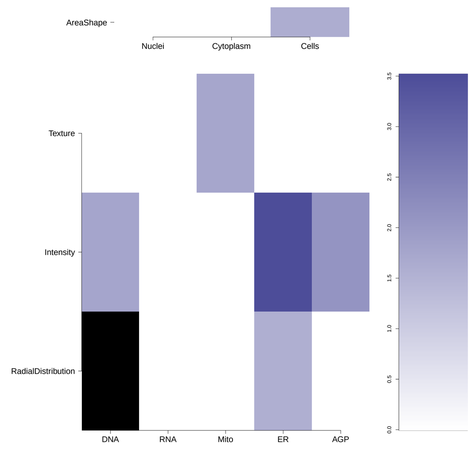
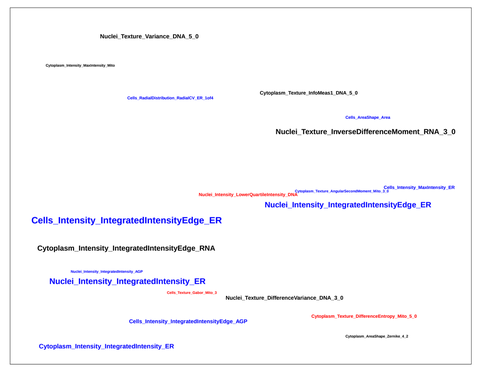


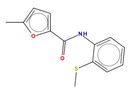
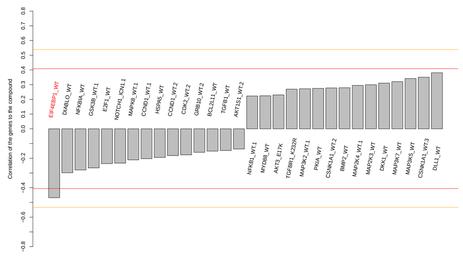
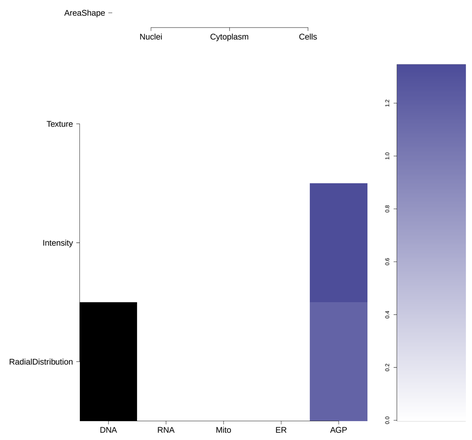
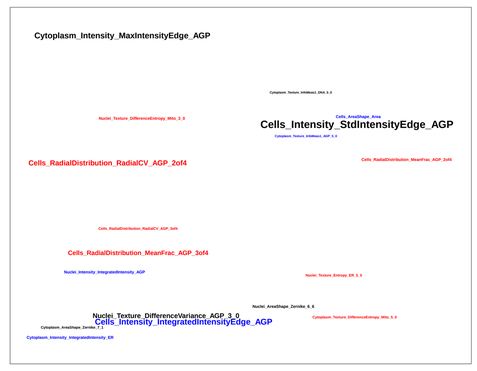
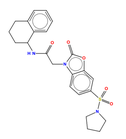
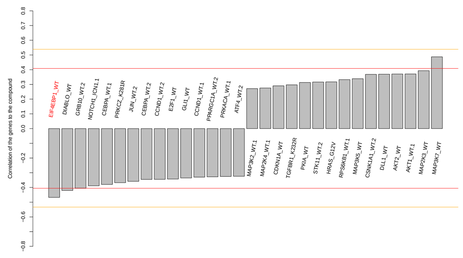
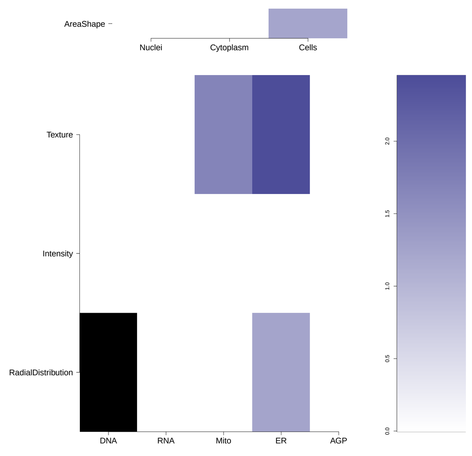
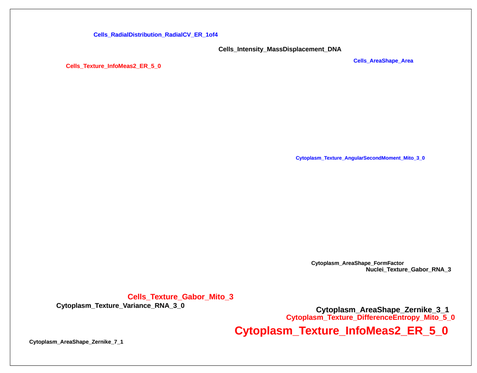
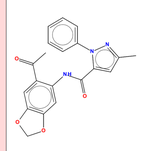
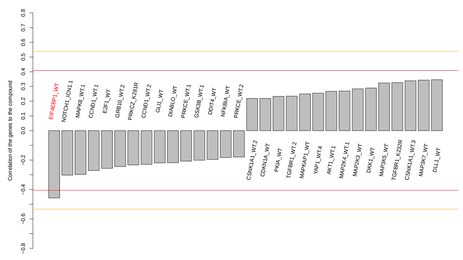
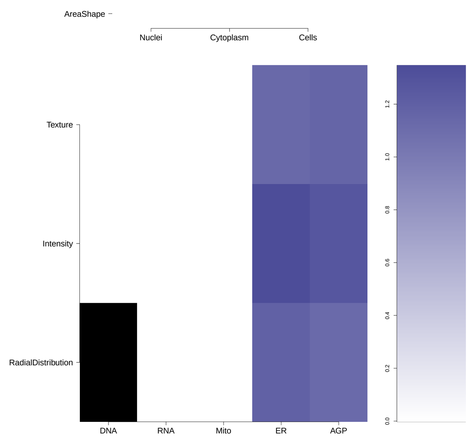
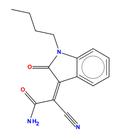
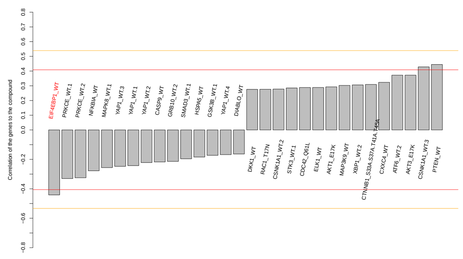
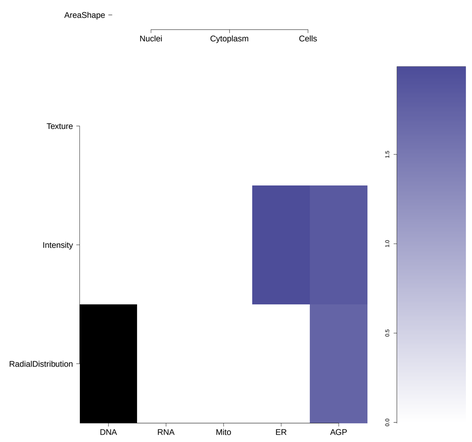
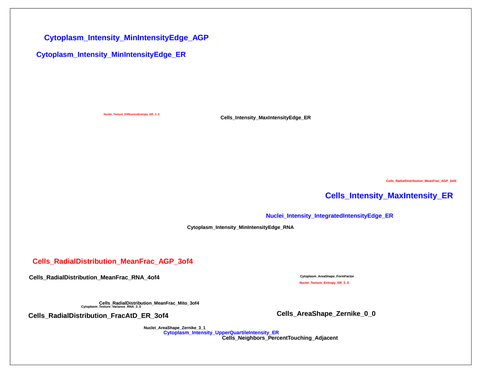
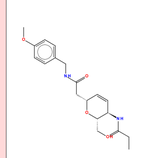
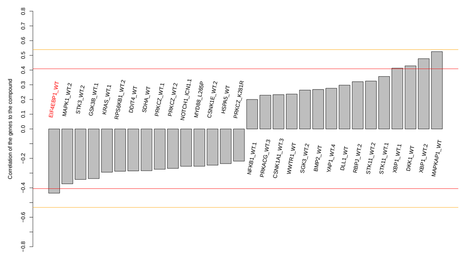
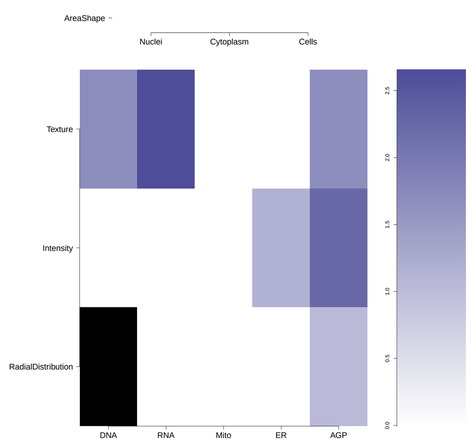
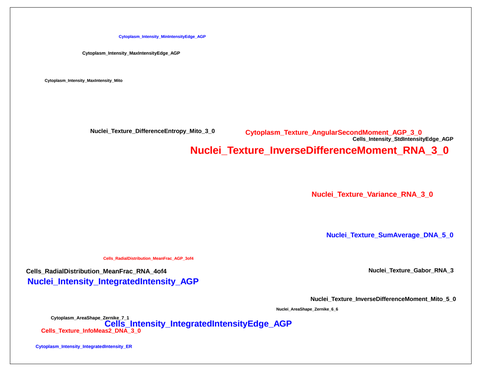
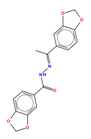
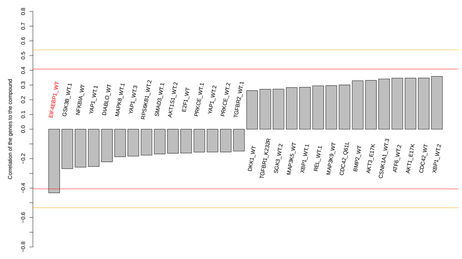
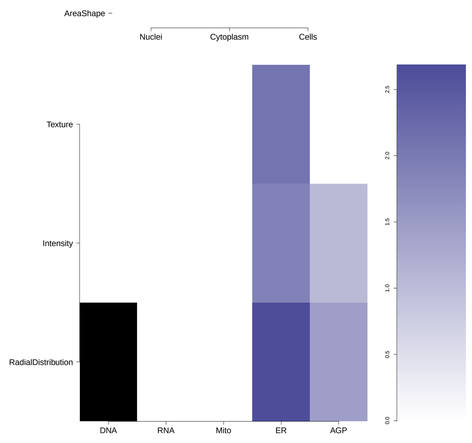
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.





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-K11392760-001-05-2 64993-07-3 MLS000416366 SMR000264114 F0239-0652 ZINC03888819 AC1LCM1D AC1Q50SI AC1Q52FY BDBM50440 CTK5C2001 HMS2589B15 ZINC3888819 7419AE EE-0756 RP10930 HE039121 TR-022178 BB 0246594 EU-0043951 FT-0681976 ST50052198 EN300-13711 L-4613 I01-12564 3B1-007030 T0513-9536 PubChem CID : 602665		NA (in 1 replicates)	0.53	NA				Total number of assays tested in: 623. Active in the following assays: • uHTS of Mcl-1/Noxa interaction inhibitors (AID 1022) • HTS identification of compounds inhibiting phosphomannose isomerase (PMI) via a fluorescence intensity assay using a high concentration of mannose 6-phosphate (AID 1220) • Dose Response Confirmation for Mcl-1/Noxa Interaction Inhibitors (AID 1417) • uHTS fluorescence polarization assay for the identification of translation initiation inhibitors (PABP) (AID 2014) • Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of myeloid cell leukemia sequence 1 (MCL1) interactions with BIM-BH3 peptide. (AID 2057) • Counterscreen for MCL1 inhibitors: fluorescence polarization-based biochemical high throughput confirmation assay for inhibitors of BCL2-related protein, long isoform (BCLXL). (AID 2166) • Fluorescence polarization-based biochemical high throughput confirmation assay for inhibitors of myeloid cell leukemia sequence 1 (MCL1) interactions with BIM-BH3 peptide. (AID 2168) • qHTS Assay for Inhibitors of DNA Polymerase Beta (AID 485314) • qHTS Assay for the Inhibitors of L3MBTL1 (AID 485360) • uHTS Colorimetric assay for identification of inhibitors of Scp-1 (AID 493091) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • qHTS Assay for Inhibitors of BAZ2B (AID 504333) • qHTS for Inhibitors of L3MBTL1: Hit Validation (AID 540279) • Single concentration confirmation of uHTS hits for Scp-1 phosphatase using a colorimetric assay (AID 540281) • qHTS for Inhibitors of Polymerase Eta (AID 588591) • qHTS for Inhibitors of phosphatidylinositol 5-phosphate 4-kinase (PI5P4K) (AID 652105)
BRD-K83826057-001-01-3 PubChem CID : 54631954		0.83 (in 4 replicates)	-0.62	0.962				Total number of assays tested in: 35.
BRD-K15994694-001-05-2 AC1OBOXE MLS000587960 STK745321 ZINC33352338 SMR000211968 PubChem CID : 6882959		0.57 (in 3 replicates)	-0.58	NA				Total number of assays tested in: 635. Active in the following assays: • qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490) • qHTS Assay for Inhibitors of BAZ2B (AID 504333) • qHTS Assay for Inhibitors of JMJD2A-Tudor Domain (AID 504339) • Primary cell-based high-throughput screening for identification of compounds that activate/potentiate calcium-activated chloride channels (TMEM16A) (AID 623877) • 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) • QFRET-based biochemical primary high throughput screening assay to identify exosite inhibitors of ADAM10. (AID 720582) • Fluorescence-based biochemical high throughput primary assay to identify inhibitors of phospholipase C isozymes (PLC-gamma1). (AID 720700)
BRD-K39668479-001-01-4 PubChem CID : 44486134		0.53 (in 3 replicates)	-0.51	0.850				Total number of assays tested in: 50.
BRD-K69464508-001-05-7 SMR000148196 AC1MT1T7 MLS000557279 HMS2405J05 STL303957 ZINC13144315 PubChem CID : 3543597		0.62 (in 3 replicates)	-0.47	NA				• 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-K25917968-001-05-0 ST50940894 AC1LOROQ SMR000080423 MLS000065745 HMS2443K22 ZINC1054227 STK411907 ZINC01054227 PubChem CID : 1245751		0.57 (in 4 replicates)	-0.47	0.024				Total number of assays tested in: 729. Active in the following assays: • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315)
BRD-A63068258-001-05-6 MLS000119951 SMR000096872 AC1NSE38 BDBM34507 HMS2252B10 CCG-33028 PubChem CID : 5308150		NA (in 1 replicates)	-0.47	NA				Total number of assays tested in: 762. Active in the following assays: • HIV-1 RT-RNase H MLSCN HTS MH077605 (AID 565) • Promiscuous and Specific Inhibitors of AmpC Beta-Lactamase (assay without detergent) (AID 585) • HTS of Estrogen Receptor- alpha Coactivator Binding inhibitors (AID 629) • HTS for Estrogen Receptor-beta Coactivator Binding inhibitors (AID 633) • 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) • Primary cell-based high-throughput screening assay to identify agonists of Galanin Receptor 2 (GALR2) (AID 803) • Leishmania major promastigote HTS (AID 1063) • qHTS Assay for Promiscuous and Specific Inhibitors of Cruzain (without detergent) (AID 1476) • qHTS Assay for Inhibitors Targeting the Menin-MLL Interaction in MLL Related Leukemias: Competition With Texas Red Labeled MLL-derived Mutant Peptide (AID 1768) • Fluorescence-based counterscreen for orexin 1 receptor (OX1R) antagonists: cell-based assay to identify antagonists of the parental CHO cell line (AID 463079) • qHTS Inhibitors of AmpC Beta-Lactamase (assay without detergent) (AID 485341) • Activator for delta FosB/delta FosB homodimer Measured in Biochemical System Using Plate Reader - 2072-01_Activator_SinglePoint_HTS_Activity (AID 493131)
BRD-K72344935-001-04-2 MLS000117793 SMR000094741 AC1NSF37 BDBM30954 HMS2254G07 PubChem CID : 5308605		0.58 (in 4 replicates)	-0.46	NA				Total number of assays tested in: 745. Active in the following assays: • Primary HTS assay for 5-Hydroxytryptamine (Serotonin) Receptor Subtype 1a (5HT1a) agonists (AID 567) • Human H69AR Lung Tumor Cell Growth Inhibition Assay - 86K Screen (AID 598) • Cell signaling CRE-BLA (Fsk stim) (AID 662) • Profiling the NIH Molecular Libraries Small Molecule Repository: Autofluorescence at 339/460 nm (AID 709) • Primary cell-based high-throughput screening assay to identify agonists of Galanin Receptor 2 (GALR2) (AID 803) • qHTS Assay for Inhibitors of HSD17B4, hydroxysteroid (17-beta) dehydrogenase 4 (AID 893) • Primary screen for compounds that inhibit Alzheimer's amyloid precursor protein (APP) translation (AID 1285) • uHTS luminescence assay for the identification of chemical inhibitors of T-cell specific antigen receptor-induced NF-kB activation (AID 435003) • Inhibition of the MLL-AF4-AF9 Interaction in Pediatric Leukemia Measured in Biochemical System Using Plate Reader - 2160-01_Inhibitor_SinglePoint_HTS_Activity (AID 651704) • 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)
BRD-K18750949-001-05-8 T0511-4137 AC1M5URR MLS000394492 HMS2538M22 ZINC12604270 SMR000261905 PubChem CID : 2361091		0.69 (in 2 replicates)	-0.44	NA				Total number of assays tested in: 644. Active in the following assays: • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • qHTS for Inhibitors of Tau Fibril Formation, Thioflavin T Binding (AID 1460) • Multiplex HTS Assay for Inhibitors of MEK Kinase PB1 Domains, specifically MEK5 MEK Kinase3 Wildtype (AID 1529) • Identification of SV40 T antigen inhibitors: A route to novel anti-viral reagents (AID 1903) • Inhibitors of the vitamin D receptor (VDR): qHTS (AID 504847)
BRD-K40566022-001-01-9 PubChem CID : 54641070		NA (in 1 replicates)	-0.44	NA				Total number of assays tested in: 38.
BRD-K35101029-001-05-6 T5282033 MLS001003388 ZINC13143689 SMR000344876 PubChem CID : 9629495		0.59 (in 4 replicates)	-0.43	NA				Total number of assays tested in: 622. Active in the following assays: • qHTS Assay for Enhancers of SMN2 Splice Variant Expression (AID 1458) • 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) • qHTS Assay for Rab9 Promoter Activators (AID 485297) • 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 with CAL-PDZ Measured in Biochemical System Using Plate Reader - 2109-02_Inhibitor_SinglePoint_HTS_Activity (AID 602252) • Screen for inhibitors of the SWI/SNF chromatin remodeling complex (esBAF) in mouse embryonic stem cells with Luciferase reporter assay Measured in Cell-Based System Using Plate Reader - 2141-01_Inhibitor_SinglePoint_HTS_Activity (AID 602393) • qHTS Assay to Identify Small Molecule Activators of BRCA1 Expression (AID 624202) • qHTS of D3 Dopamine Receptor Antagonist: qHTS (AID 652054)