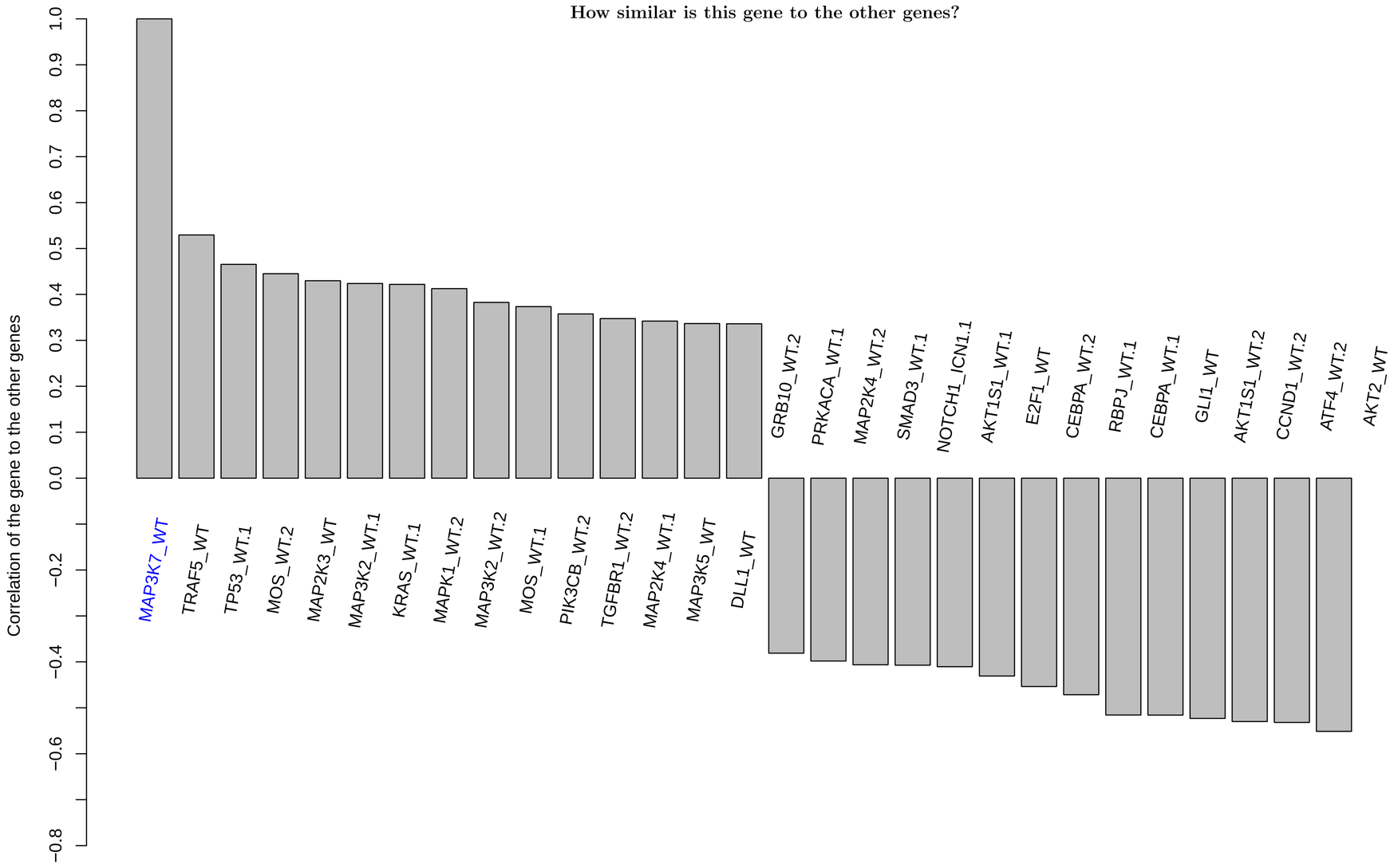
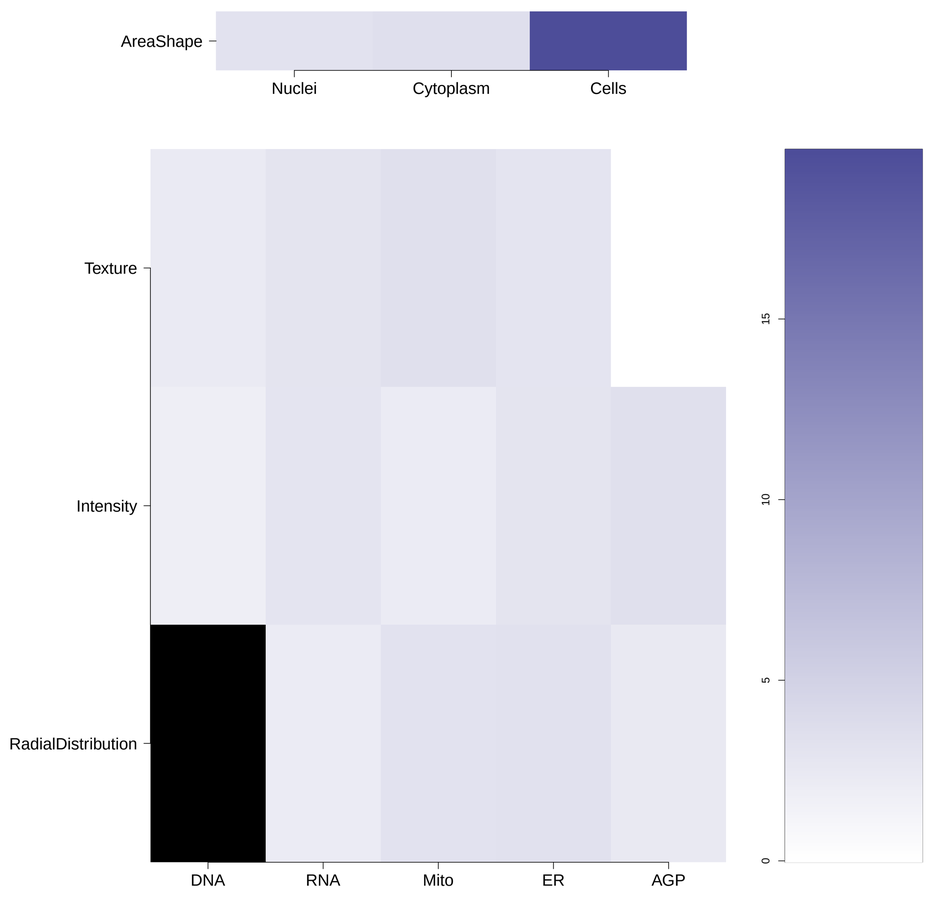
MAP3K7_WT - in Canonical MAPK

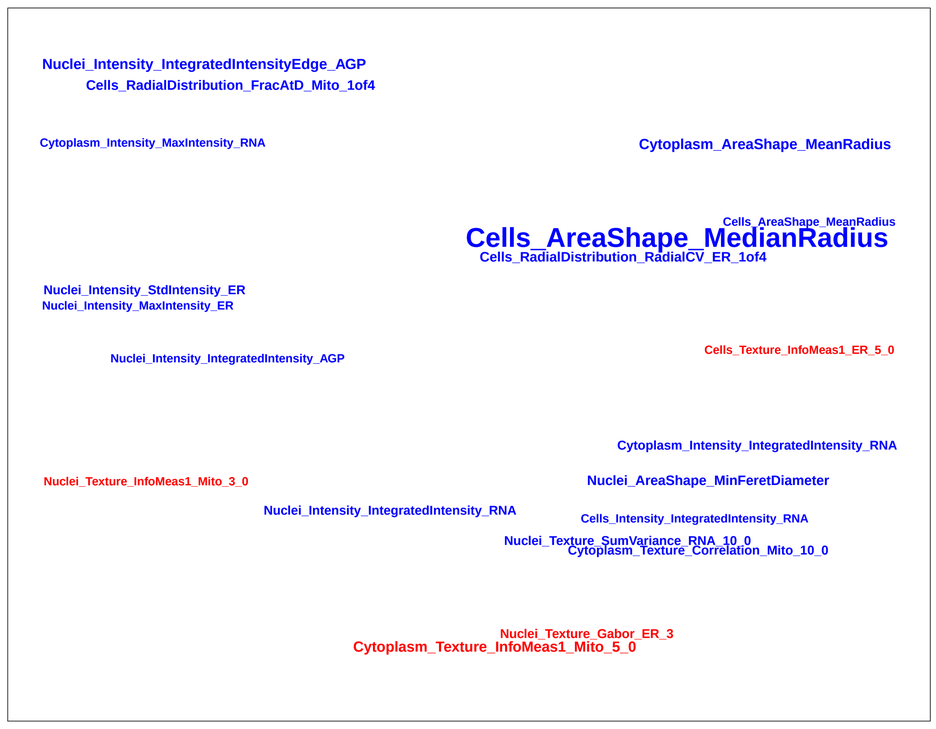
How similar is this gene to the other genes?

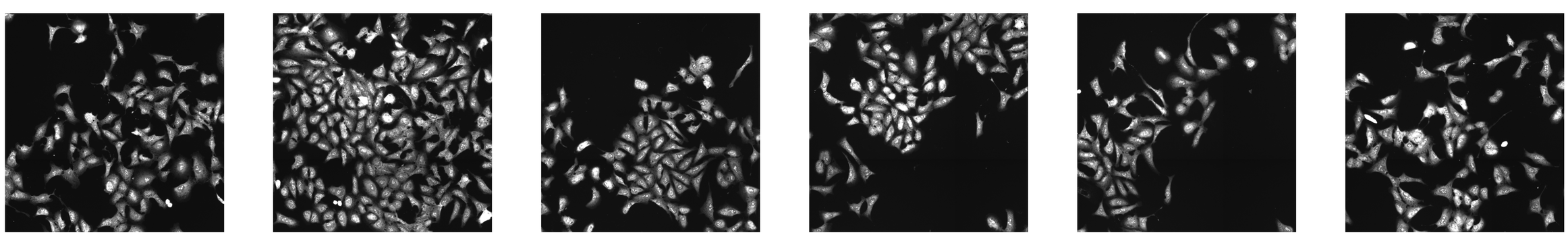


What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

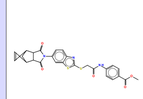
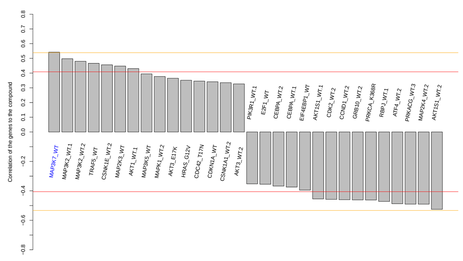
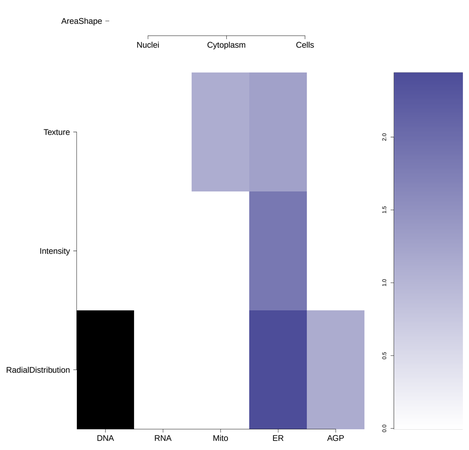
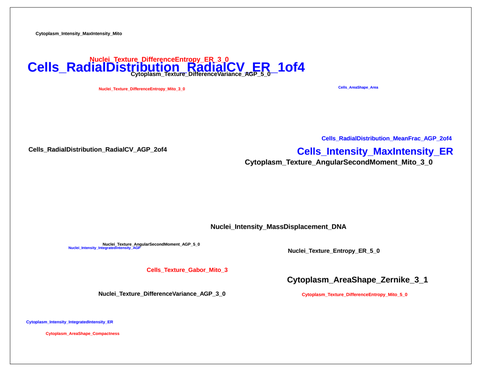
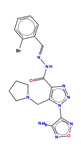
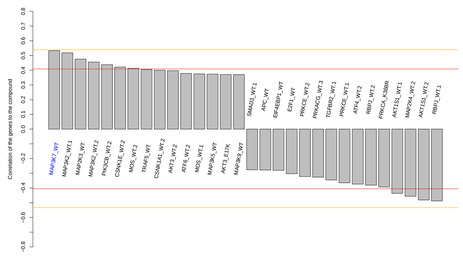
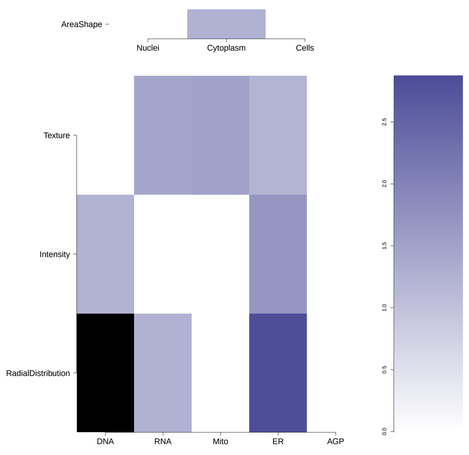
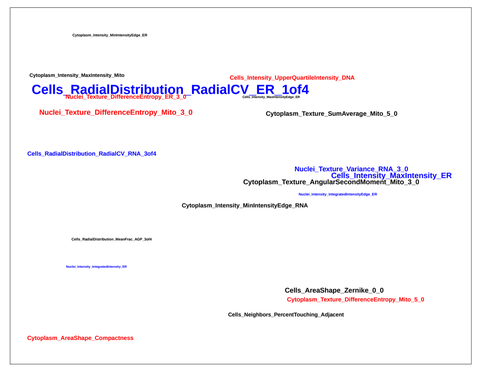
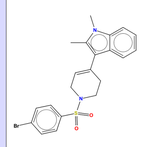
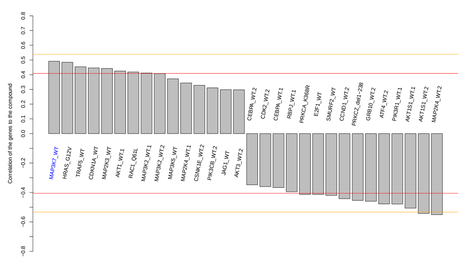
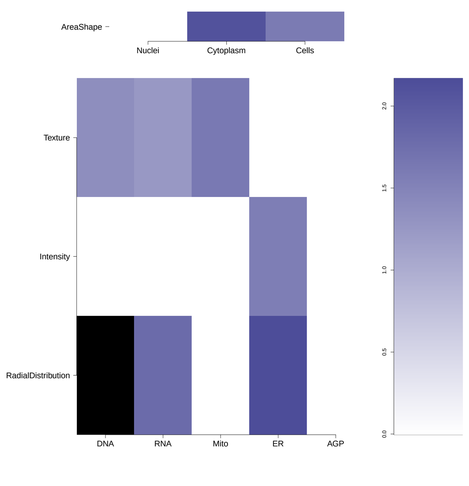
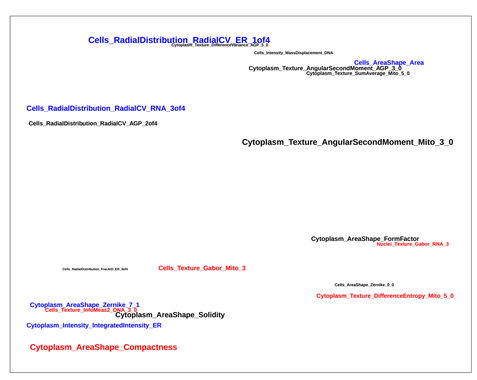


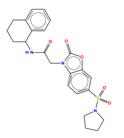
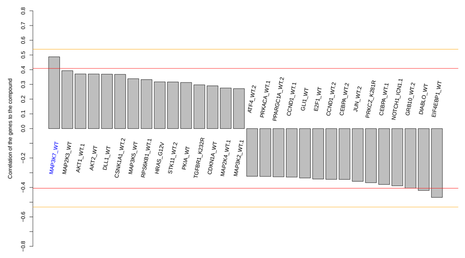
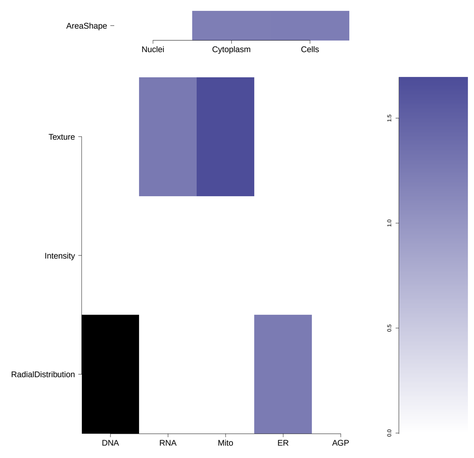
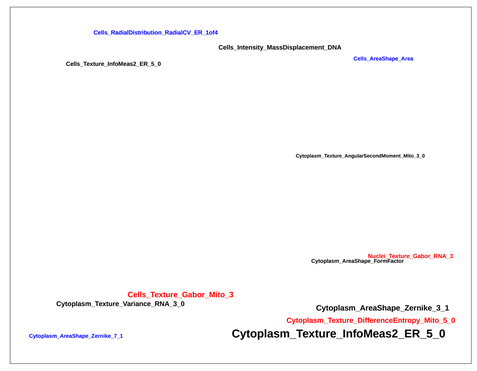
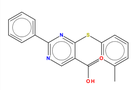
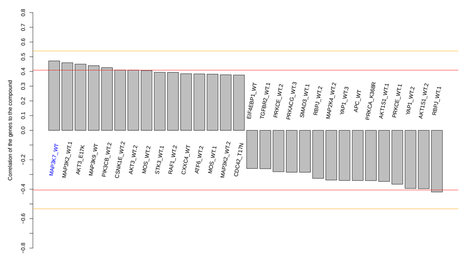
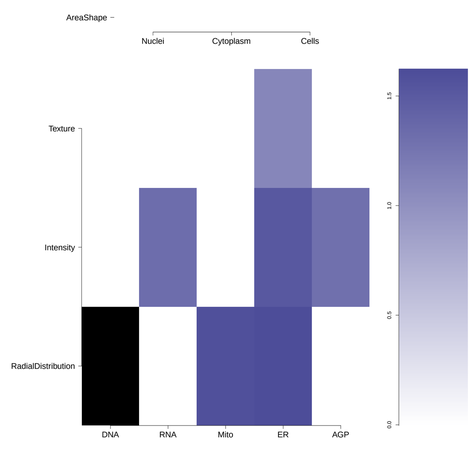
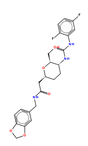
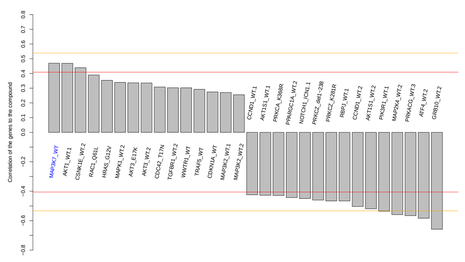
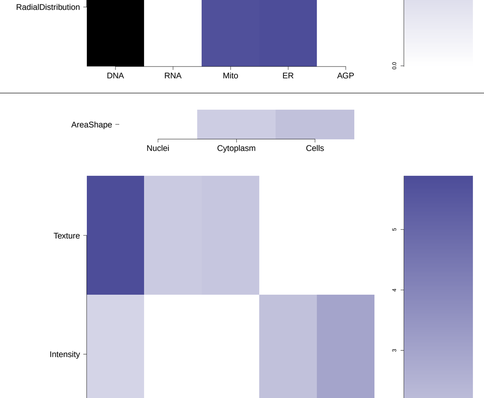
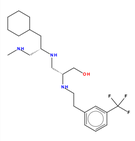
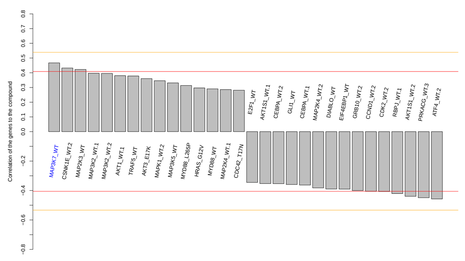
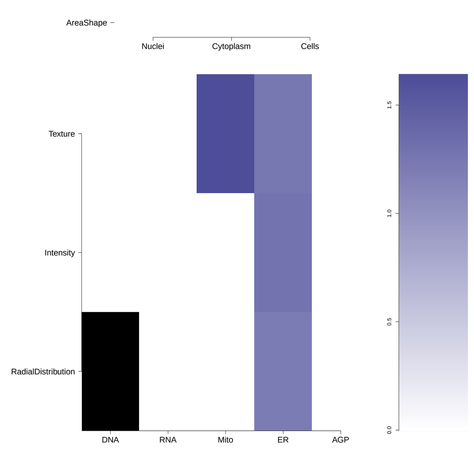
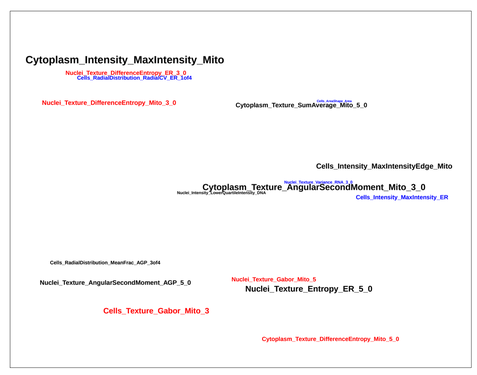
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

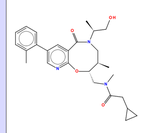
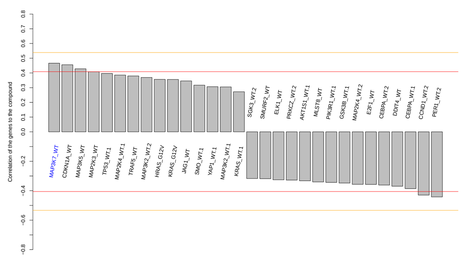
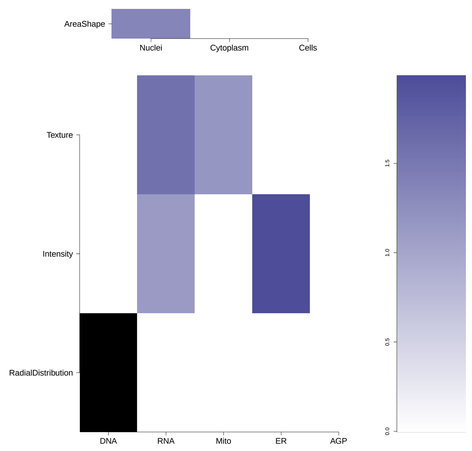
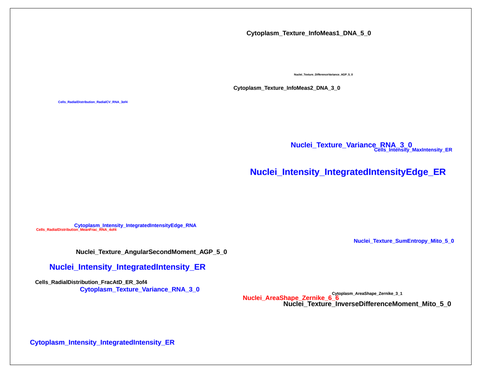
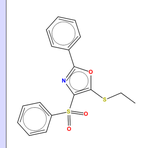
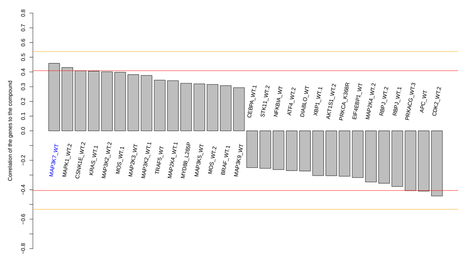
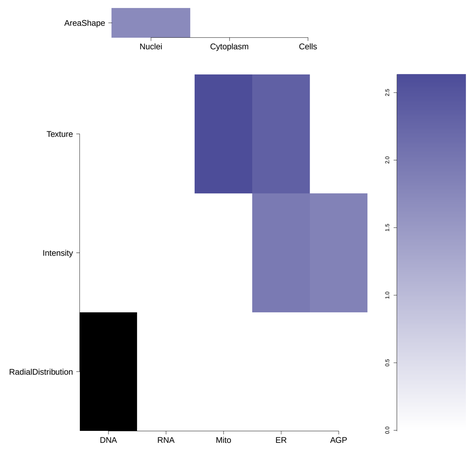
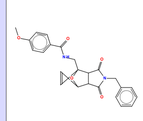
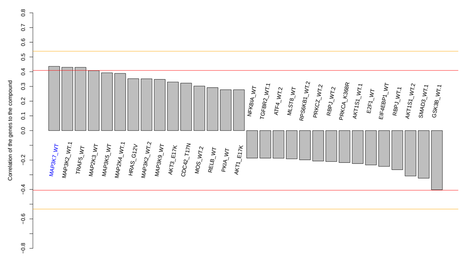
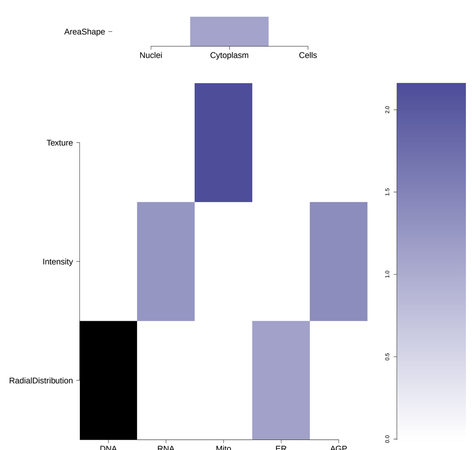
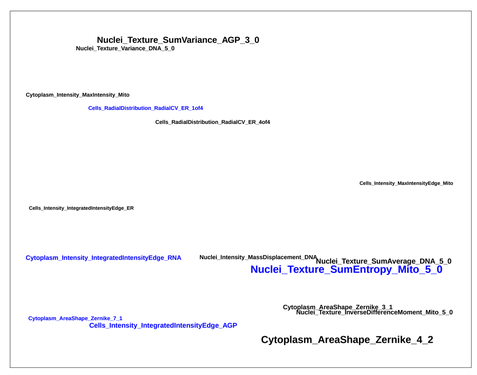
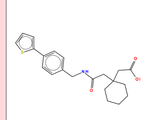
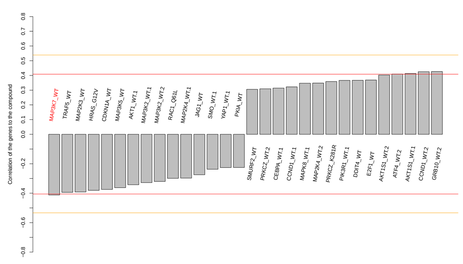
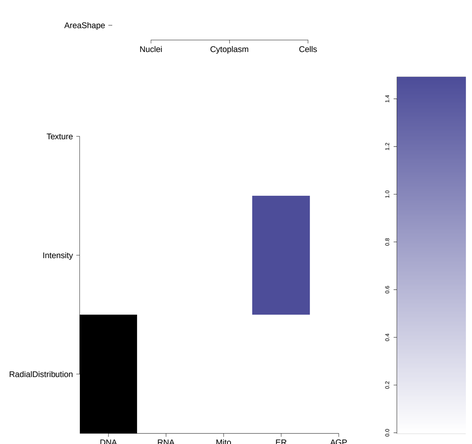
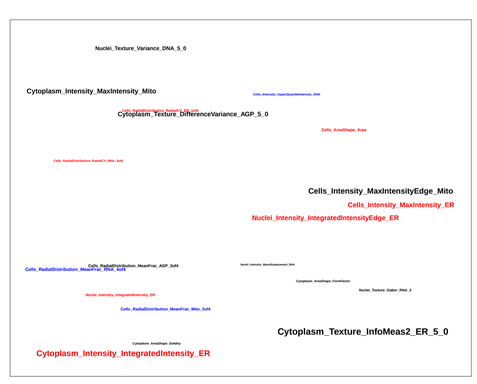




Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.51)	Correlation between compound 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-A44438286-001-05-1 SMR000217585 MLS000590608 AC1NELBY MLS003902485 BDBM79542 HMS2571I14 STL333705 PubChem CID : 4594054		0.51 (in 4 replicates)	0.54	0.143				Total number of assays tested in: 667. Active in the following assays: • uHTS luminescence assay for the identification of compounds that inhibit NOD1 (AID 1578) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A Cell Based Secondary Assay To Explore Cytotoxicity of Compounds that Inhibit Mycobacterium Tuberculosis (AID 435019) • High Throughput Screening Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in 7H9 Media (AID 449762) • A High Throughput Confirmatory Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in the absence of Glycerol (AID 449764) • uHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346) • MITF Measured in Cell-Based System Using Plate Reader - 2084-01_Inhibitor_SinglePoint_HTS_Activity (AID 488899) • Image-Based HTS for Selective Agonists for NTR1 (AID 493036) • Nrf2 qHTS screen for inhibitors (AID 504444) • qHTS screen for small molecules that inhibit ELG1-dependent DNA repair in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504467) • Single concentration confirmation of Image-Based HTS for Selective Agonists for NTR1 (AID 504550) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • HTS Assay for Peg3 Promoter Inhibitors (AID 588405) • Primary cell-based high-throughput screening for identification of compounds that antagonize MrgX1 receptor signaling (AID 588676) • Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human M1 muscarinic receptor (CHRM1) (AID 588852) • Re-confirmation screening for identification of compounds that antagonize MrgX1 receptor signaling (AID 602420) • Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human trace amine associated receptor 1 (TAAR1) (AID 624466) • Flow Cytometric HTS Screening for Inhibitors of Lytic Granule Exocytosis with MLPCN Compound Library (AID 651702) • Counterscreen for antagonists of the human trace amine associated receptor 1 (hTAAR1): Fluorescence-based cell-based high throughput screening assay to identify nonselective antagonists (AID 651780) • Fluorescence-based cell-based primary high throughput confirmation assay to identify antagonists of the human trace amine associated receptor 1 (TAAR1) (AID 651785) • qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820) • Counterscreen for antagonists of the human trace amine associated receptor 1 (hTAAR1): Fluorescence-based cell-based high throughput screening assay to identify nonselective Ga16 agonists (AID 651953) • Flow Cytometric HTS Screening for Inhibitors of Lytic Granule Exocytosis with compounds from Cherry Pick01 (AID 651954) • Luminescence-based cell-based primary high throughput screening assay to identify inhibitors of COUP-TFII (NR2F2) (AID 686940) • 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 Stage-Specific Inhibitors of Vaccinia Orthopoxvirus: Venus Reporter Primary qHTS (AID 720580) • QFRET-based biochemical primary high throughput screening assay to identify exosite inhibitors of ADAM10. (AID 720582) • Bursicon-induced LGR2 mediated cAMP production in LGR-2/CRE6x-Luciferase co-transfected HEK293 cells Inhibition (AID 720647) • Bursicon-induced LGR2 mediated cAMP production in LGR-2/CRE6x-Luciferase co-transfected HEK293 cells Inhibition Measured in Cell-Based System Using Plate Reader - 7011-01_Antagonist_Dose_CherryPick_Activity_Set2 (AID 743343) • LGR2:Counterscreen with MC4R Measured in Cell-Based System Using Plate Reader - 7011-02_Antagonist_Dose_CherryPick_Activity (AID 743444) • High Throughput Screening for Foot and Mouth Disease Virus Antivirals (AID 1159524)
BRD-K19196783-001-07-8 MLS000948280 SMR000620637 MLS003878864 STK674032 ZINC15989422 ST4035914 PubChem CID : 9600276		0.62 (in 4 replicates)	0.53	0.044				Total number of assays tested in: 489. Active in the following assays: • Luminescence Cell-Free Homogeneous Dose Retest to Identify Inhibitors of Glycogen Synthase Kinase-3 beta Activity (AID 434954) • uHTS identification of UBC13 Polyubiquitin Inhibitors via a TR-FRET Assay (AID 485273)
BRD-K67949523-001-07-6 MLS000586449 SMR000207828 BDBM63211 HMS2557P20 ZINC8690895 CCG-133607 PubChem CID : 12005295		0.55 (in 4 replicates)	0.49	NA				Total number of assays tested in: 640. Active in the following assays: • Leishmania major promastigote HTS (AID 1063) • qHTS Assay for Promiscuous and Specific Inhibitors of Cruzain (without detergent) (AID 1476) • Total Fluorescence Counterscreen for Inhibitors of the Interaction of Thyroid Hormone Receptor and Steroid Receptor Coregulator 2 (AID 1479) • Luminescence Cell-Based Primary HTS to Identify Inhibitors of Heat Shock Factor 1 (HSF1). (AID 2098) • qHTS Assay for Inhibitors of Human Jumonji Domain Containing 2E (JMJD2E) (AID 2147) • qHTS Assay for Inhibitors of RecQ-Like Dna Helicase 1 (RECQ1) (AID 2549) • Confirmation qHTS Assay for Inhibitors of RecQ-Like Dna Helicase 1 (RECQ1) (AID 2708) • HSF-1 induced GFP reporter and Doxycycline induced RFP reporter Measured in Cell-Based System Using Plate Reader - 2038-03_Inhibitor_DoseNoFile_CherryPick_Internal-Standard_Set3 (AID 493085) • Activator for delta FosB/delta FosB homodimer Measured in Biochemical System Using Plate Reader - 2072-01_Activator_SinglePoint_HTS_Activity (AID 493131) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • Confirmation qHTS Assay for Inhibitors of RecQ-Like Dna Helicase 1 (RECQ1) - Round 2 Cherry Picks (AID 504841)

BRD-A63068258-001-05-6 MLS000119951 SMR000096872 AC1NSE38 BDBM34507 HMS2252B10 CCG-33028 PubChem CID : 5308150		NA (in 1 replicates)	0.49	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-K24598235-001-06-4 11M-524S AC1LT0YY MLS000755291 HMS2637F09 HMS3364M14 ZINC1386401 SMR000338163 PubChem CID : 1474605		0.54 (in 4 replicates)	0.47	0.982				Total number of assays tested in: 634. Active in the following assays: • Anti-Viral Drugs Against Arbovirus Infections, a Primary Screen (AID 1251) • Fluorescence Cell-Based Primary HTS of C.albicans growth in the presence of Fluconazole and compound (AID 1979) • Fluorescence Cell-Based Secondary Assay for toxicity in mammalian fibroblasts (AID 2327) • Fluorescence Cell-Based Retest of C. albicans Growth in the Presence of Fluconazole (AID 2467)
BRD-K89009198-001-01-0 PubChem CID : 54641370		NA (in 1 replicates)	0.47	NA				Total number of assays tested in: 38.
BRD-K09450441-001-06-7 MLS001242663 SMR000673930 PubChem CID : 24792599		0.53 (in 4 replicates)	0.47	0.946				Total number of assays tested in: 513. Active in the following assays: • Primary biochemical high throughput screening assay to identify inhibitors of VIM-2 metallo-beta-lactamase (AID 1527) • Multiplex HTS Assay for Inhibitors of MEK Kinase PB1 Domains, specifically MEK5 binding to MEK Kinase 2 Wildtype (AID 1531) • Epi-absorbance-based confirmation assay for common VIM-2 and IMP-1 inhibitors: biochemical high throughput screening assay to identify inhibitors of VIM-2 metallo-beta-lactamase. (AID 2187) • An HTS Cytotoxicity Screen to evaluate New Inhibitors of Respiratory Syncytial Virus (RSV) (AID 2410) • Luminescence Cell-Based Primary HTS to Identify Inhibitors of Cancer Stem Cells (AID 2717) • Luminescence Cell-Based Dose Retest to Confirm Inhibitors of Cancer Stem Cells (AID 449748) • Dose Response HTS Screen to Identify Cytotoxic Compounds of HMLE_sh_eGFP (AID 463074) • uHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346) • Single concentration confirmation of uHTS for Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 489028) • Single concentration confirmation of uHTS for Inhibitors of Mdm2/MdmX interaction in luminescent format - Set 2 (AID 504601) • Single concentration confirmation of inhibitors of Mdm2/MdmX interaction using a Full-Length Luciferase Counterscreen assay (AID 504607) • Single concentration confirmation of inhibitors of Mdm2/MdmX interaction using a Brca1/Bard1 BiLC Counterscreen assay. (AID 504668) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834) • qHTS for Inhibitors of Cell Surface uPA Generation (AID 540303) • HTS Assay for Peg3 Promoter Inhibitors (AID 588405) • HTS to identify compounds that promote myeloid differentiation with MLPCN compound set (AID 624256) • qHTS for Inhibitors of ATXN expression (AID 651635) • Luminescence Cell-Based Primary HTS to identify inhibitors of the oncoprotein EWS/Fli transcriptional activity Measured in Cell-Based System Using Plate Reader - 7014-01_Inhibitor_SinglePoint_HTS_Activity (AID 651661) • qHTS of D3 Dopamine Receptor Antagonist: qHTS (AID 652054) • HTS for PAX8 inhibitors using PAX8 luciferase reporter gene assay in RMG-I cells Measured in Cell-Based System Using Plate Reader - 7054-01_Inhibitor_SinglePoint_HTS_Activity (AID 652154) • Luminescence Cell-Based Primary HTS to identify inhibitors of the oncoprotein EWS/Fli transcriptional activity Measured in Cell-Based System Using Plate Reader - 7014-01_Inhibitor_Dose_CherryPick_Activity (AID 686920) • 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 Stage-Specific Inhibitors of Vaccinia Orthopoxvirus: Venus Reporter Primary qHTS (AID 720580) • Luminescence cell-based Retest at Dose assay to determine EWS/Fli1 dependent A673 mammalian cell cytotoxity Measured in Cell-Based System Using Plate Reader - 7014-03_Inhibitor_Dose_CherryPick_Activity (AID 720587) • HEK293 Cytotoxicity Assay Measured in Cell-Based System Using Plate Reader - 7071-01_Inhibitor_Dose_CherryPick_Activity_Set3 (AID 720588) • HepG2 Cytotoxicity Assay Measured in Cell-Based System Using Plate Reader - 7071-02_Inhibitor_Dose_CherryPick_Activity_Set3 (AID 720589) • qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279)

BRD-K92191596-001-01-9 PubChem CID : 54618455		0.52 (in 4 replicates)	0.47	0.668				Total number of assays tested in: 22.
BRD-K39029546-001-05-9 SMR000081428 AC1LFC4L Ambcb7959763 MLS000052106 HMS2482J14 ZINC201142 ZINC00201142 EU-0022741 PubChem CID : 751371		0.54 (in 4 replicates)	0.46	0.809				Total number of assays tested in: 779. Active in the following assays: • 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)
BRD-A65313838-001-05-3 MLS000105721 AC1MD7Q8 HMS2406K13 SMR000102698 PubChem CID : 2832296		NA (in 1 replicates)	0.44	NA				Total number of assays tested in: 766. Active in the following assays: • CYP2C19 Assay (AID 778) • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxiredoxins (AID 485364) • uHTS Fluorescent assay for identification of activators of Apaf-1 (AID 489031) • qHTS screen for small molecules that inhibit ELG1-dependent DNA repair in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504467) • qHTS Assay for Inhibitors of Mammalian Selenoprotein Thioredoxin Reductase 1 (TrxR1): qHTS (AID 588453) • Counterscreen of compound fluorescence effects on High-throughput multiplex microsphere screening for inhibitors of toxin protease (AID 624483) • qHTS Assay for Inhibitors of the HIV-1 protein Vpr (AID 651644) • Primary biochemical fluorescence polarization-based high throughput screening assay to identify inhibitors of protein arginine methyltransferase 1 (PRMT1) (AID 652257)
BRD-K89353352-001-05-5 AC1MC8NX MLS000850858 HMS2810D13 ZINC1025526 CCG-43802 SMR000456875 PubChem CID : 2738305		0.53 (in 4 replicates)	-0.41	NA				Total number of assays tested in: 583. Active in the following assays: • Aqueous Solubility from MLSMR Stock Solutions (AID 1996) • HTS for Bacterial rRNA inhibitors Measured in Microorganism-Based System Using Plate Reader - 7056-01_Inhibitor_SinglePoint_HTS_Activity (AID 720706)