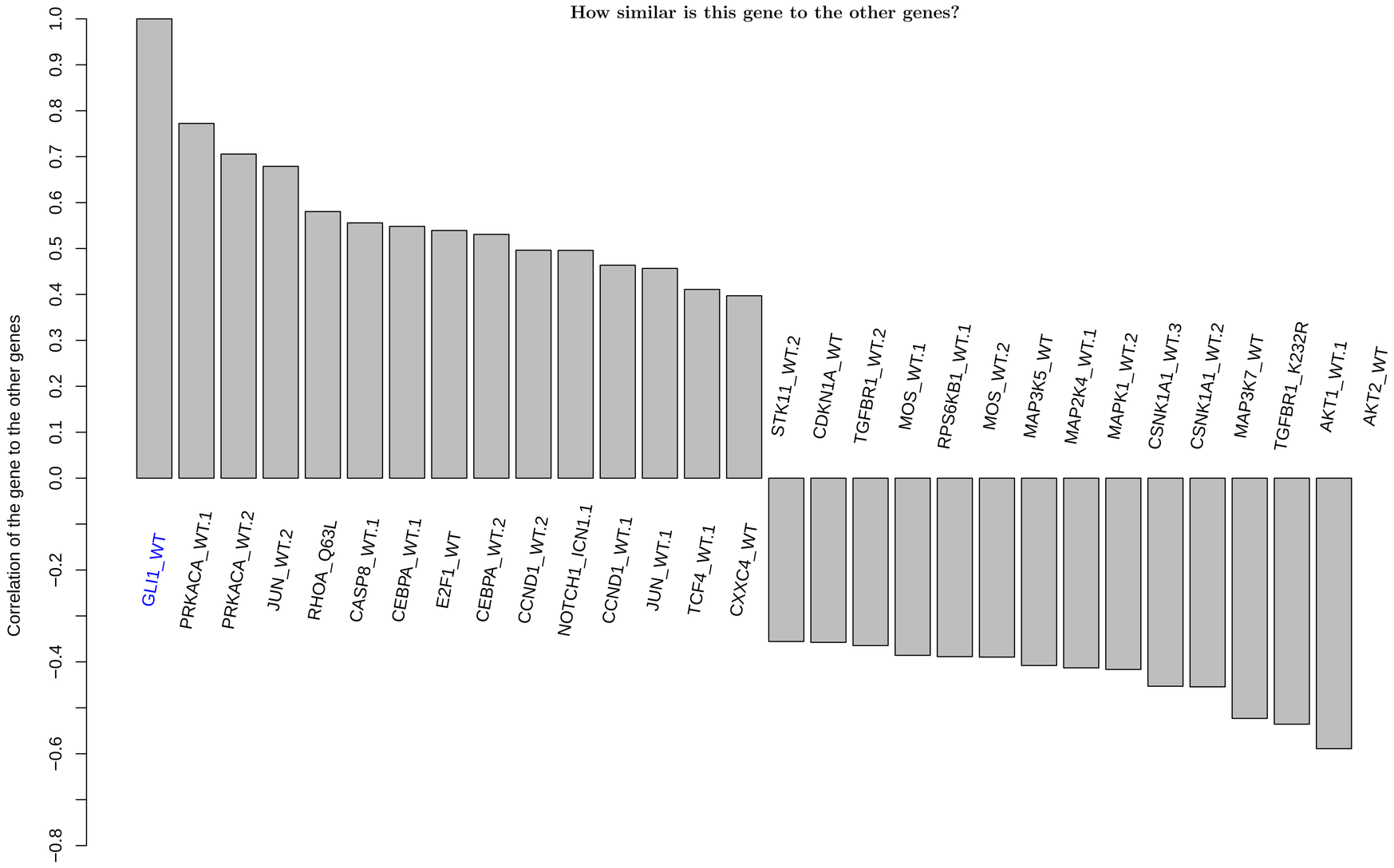
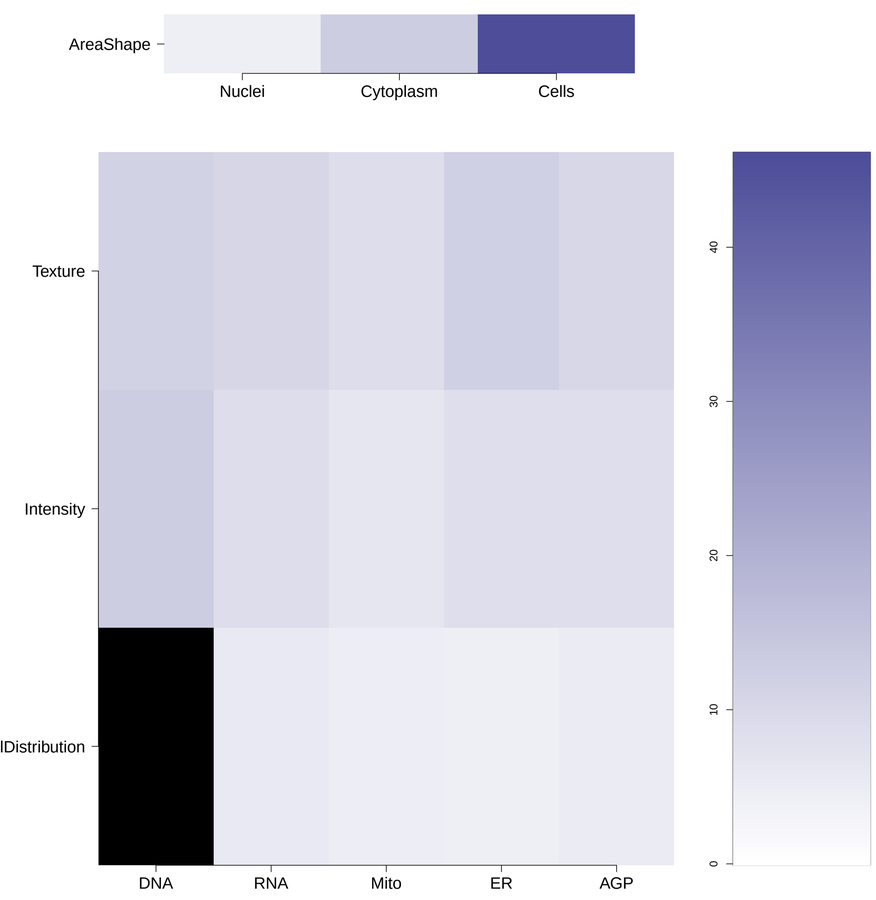
GLI1_WT - in Hedgehog

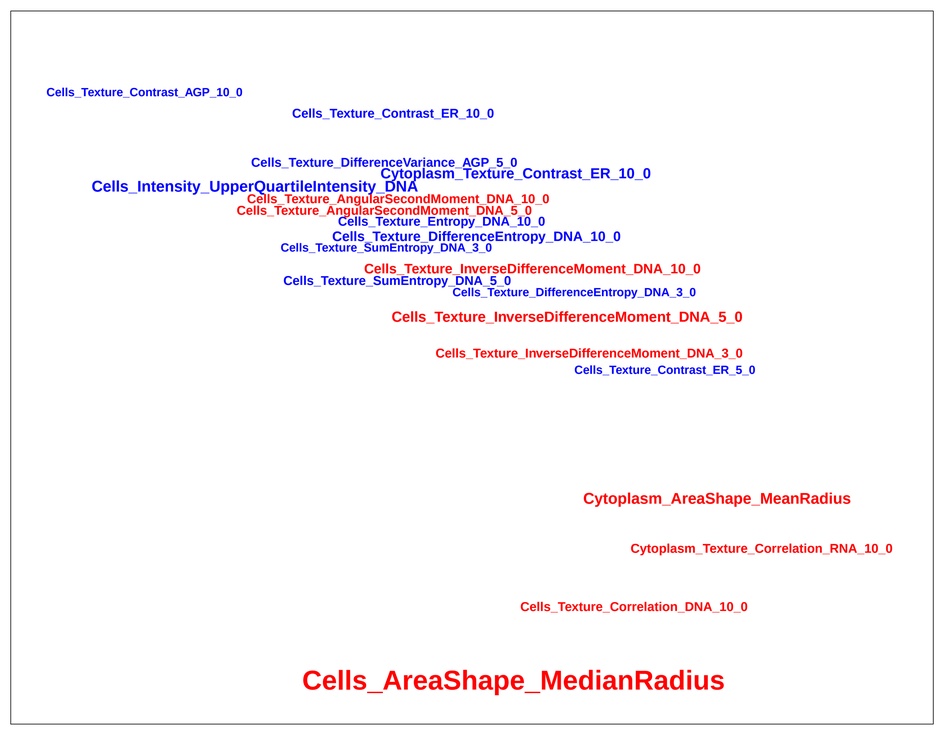
How similar is this gene to the other genes?

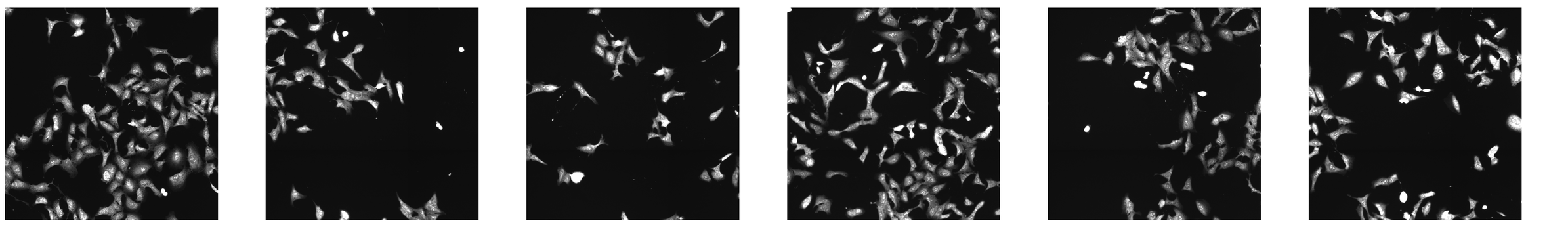


What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

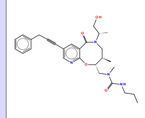
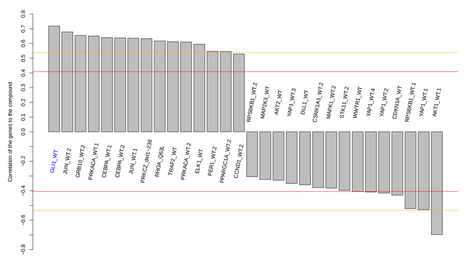
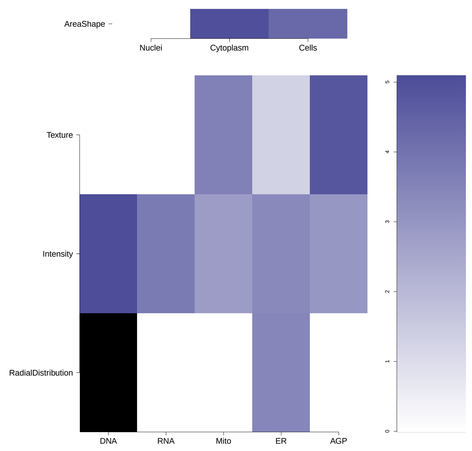
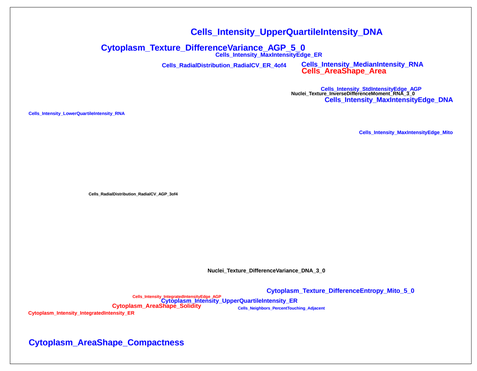
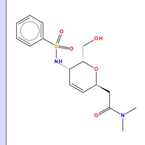
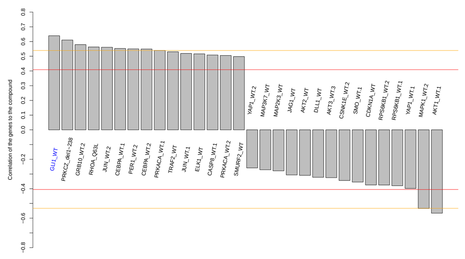
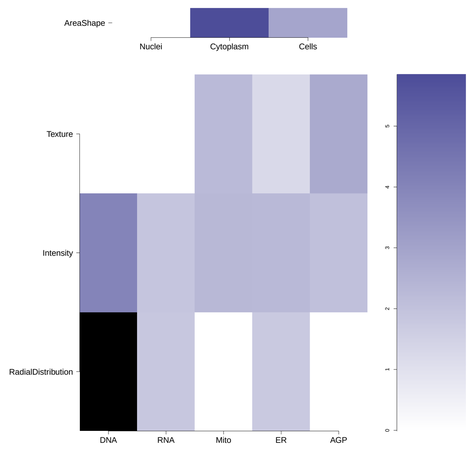
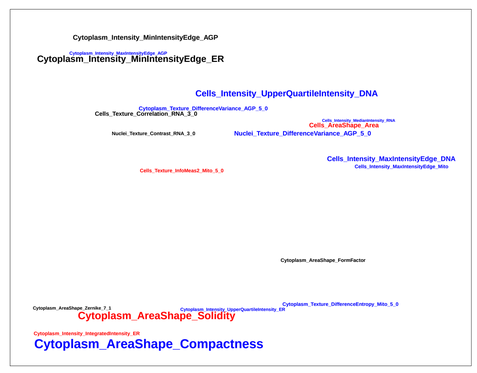
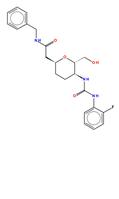
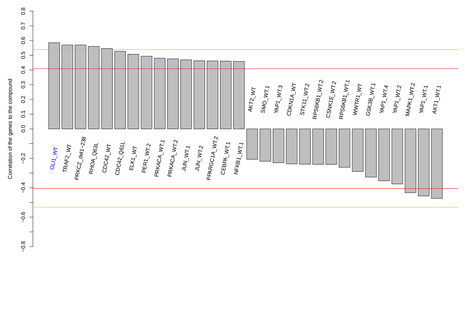
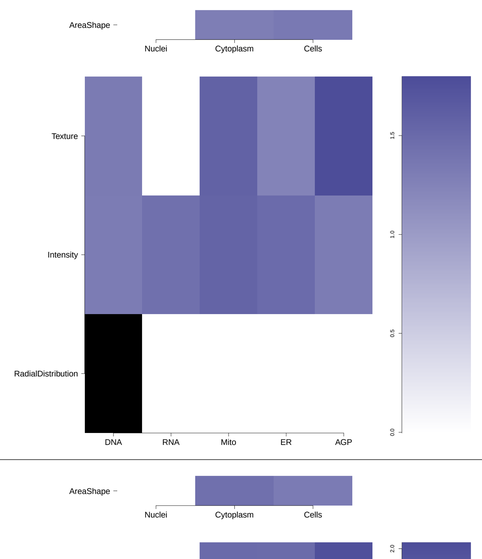
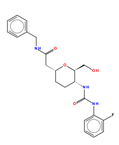
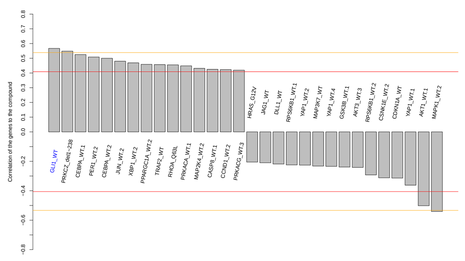
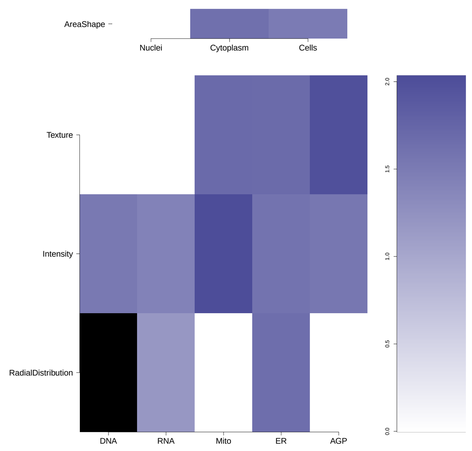
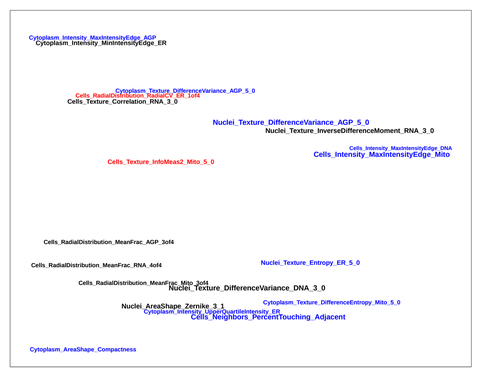
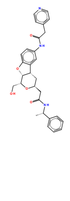
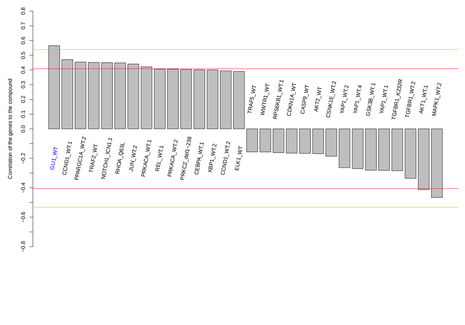
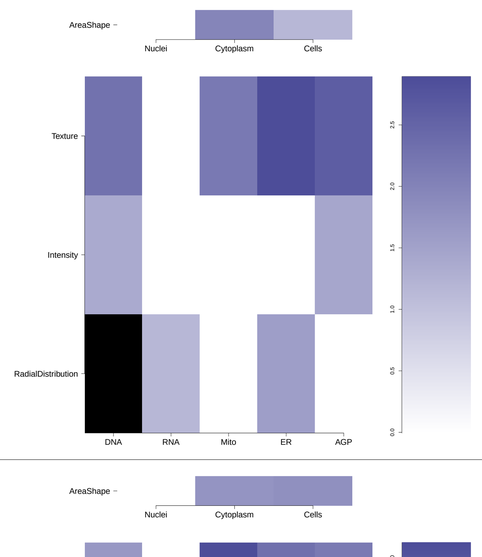
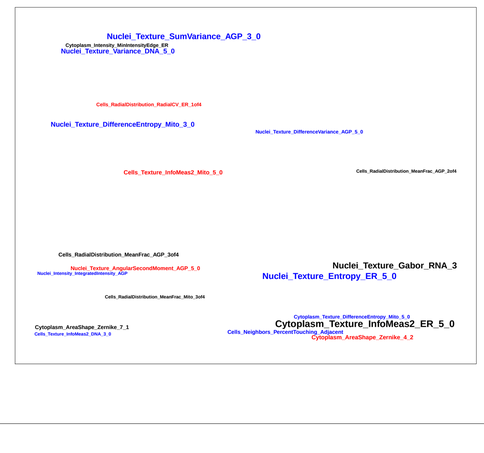
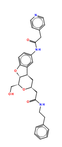
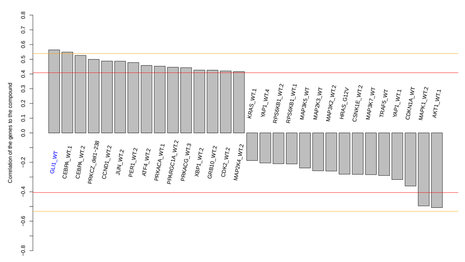
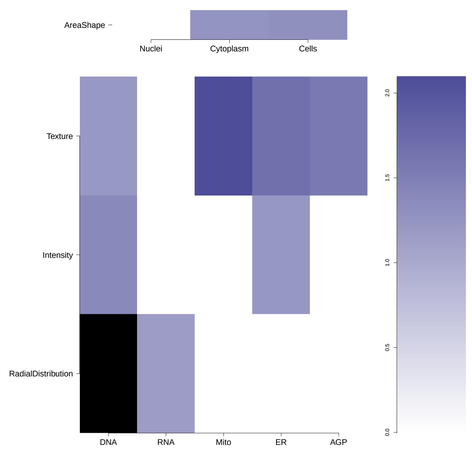
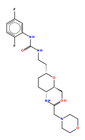
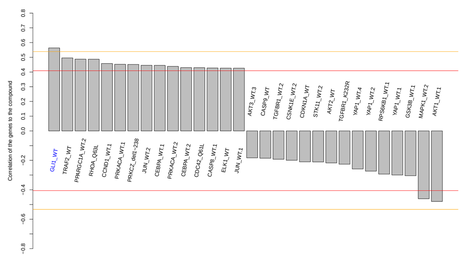
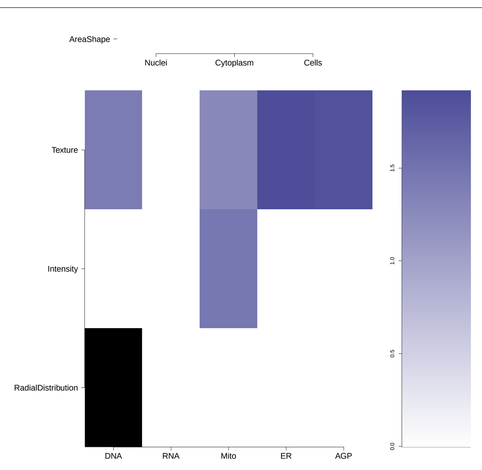
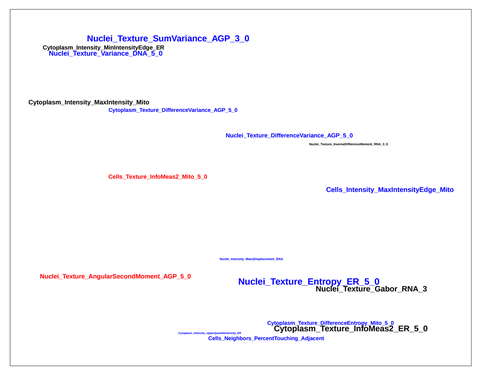


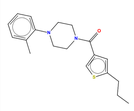
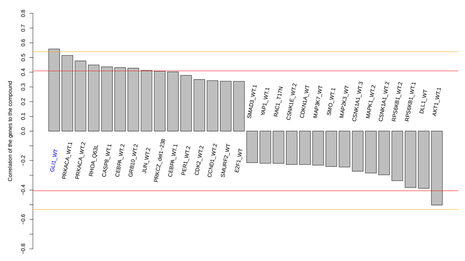
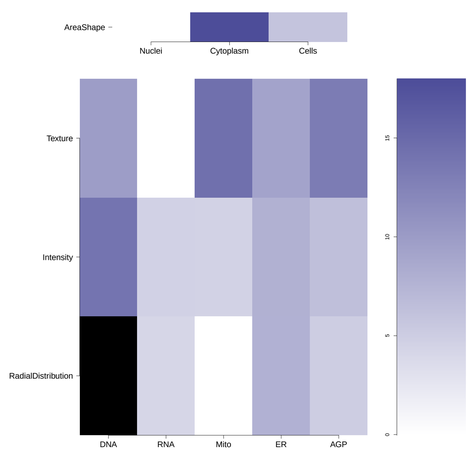
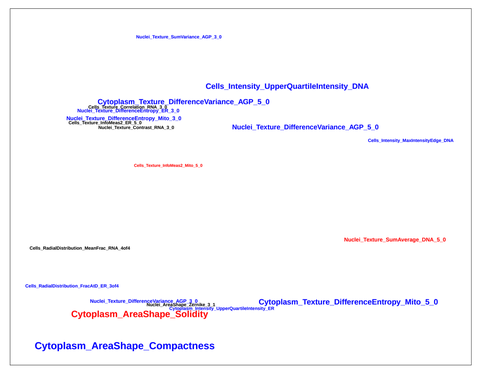
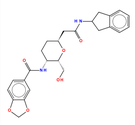
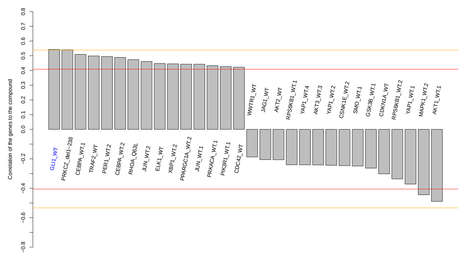
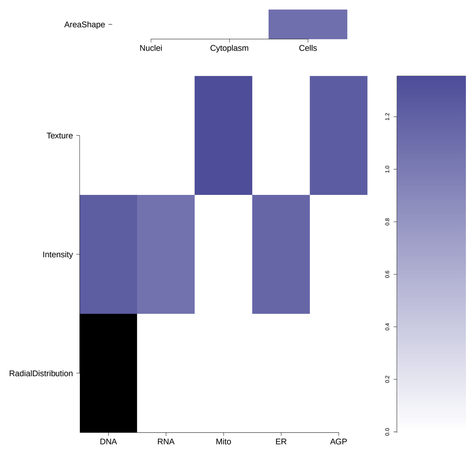
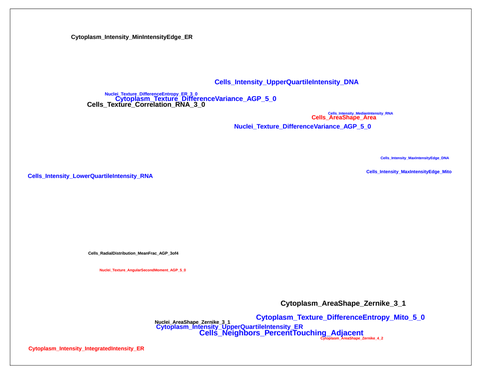
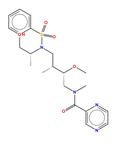
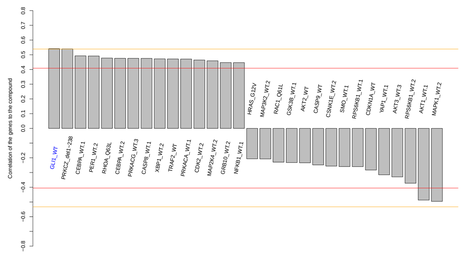
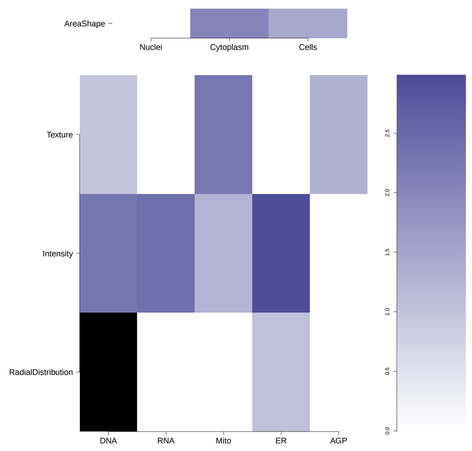
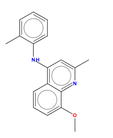
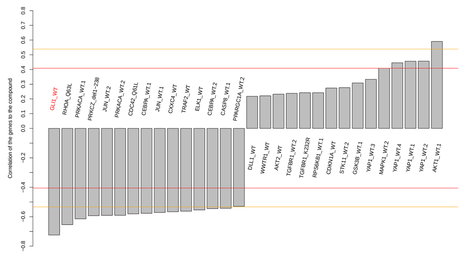
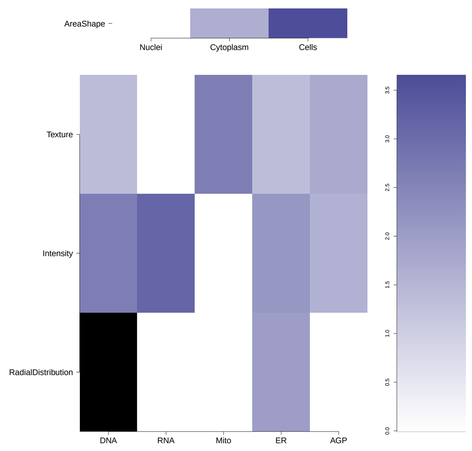
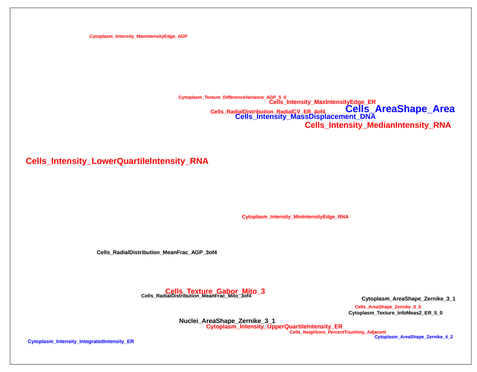
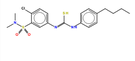
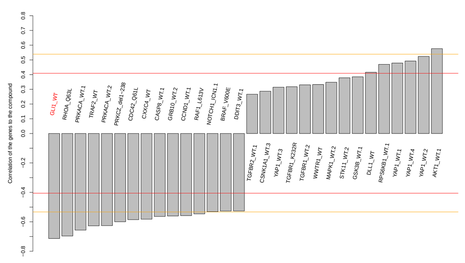
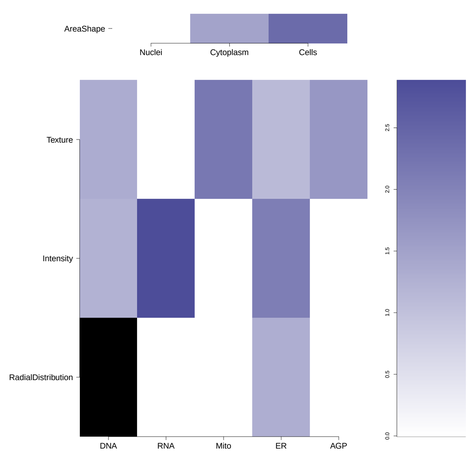
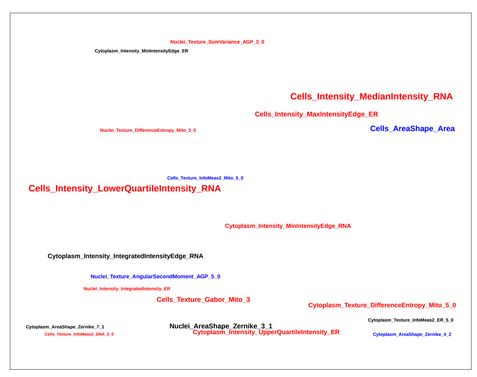
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

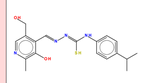
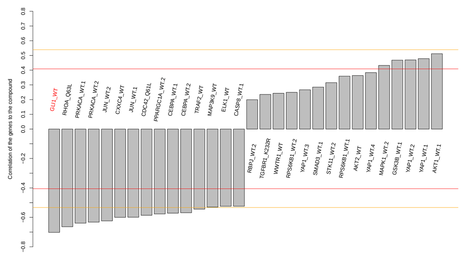
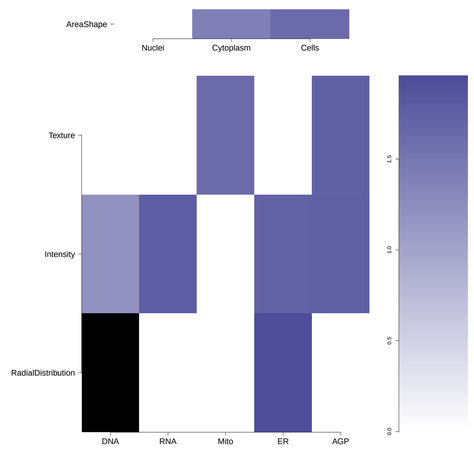
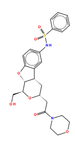
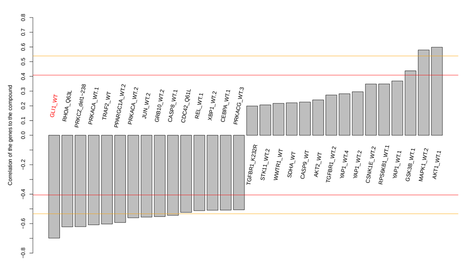
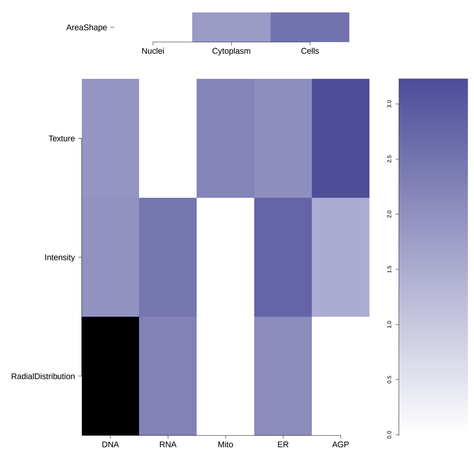
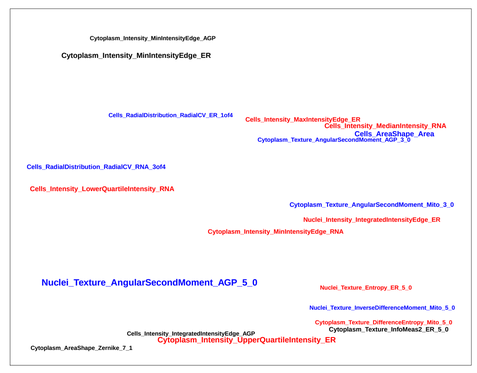
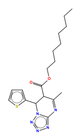
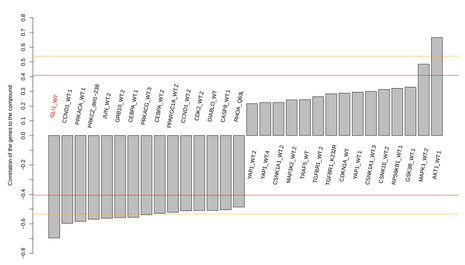
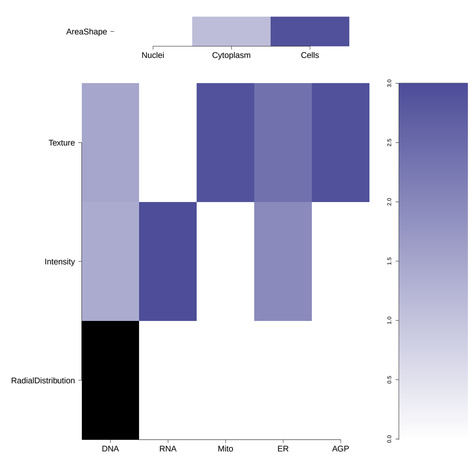
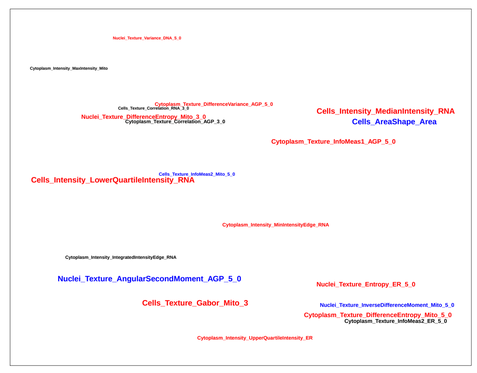
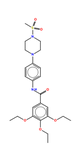
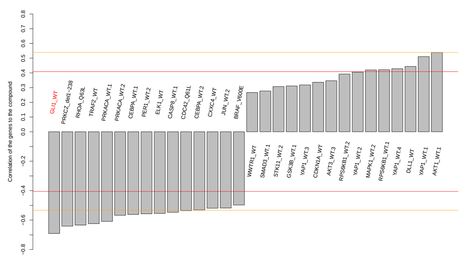
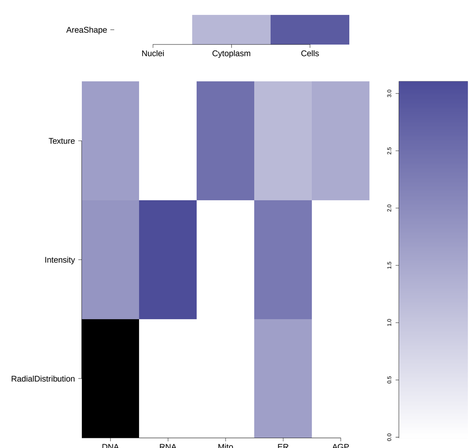


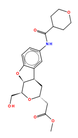
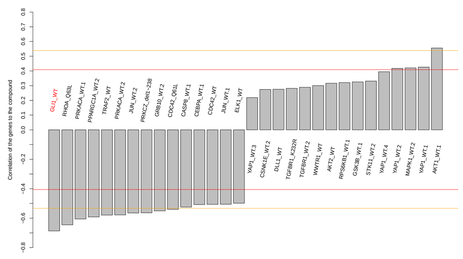
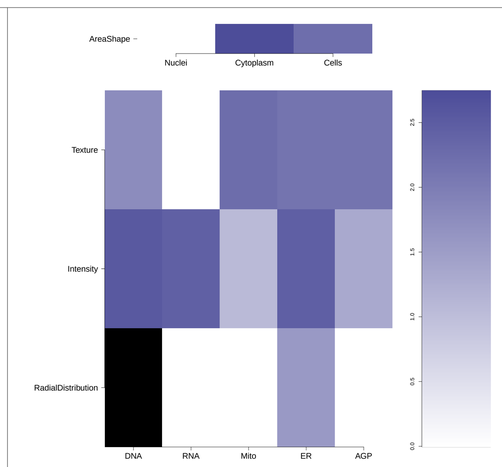
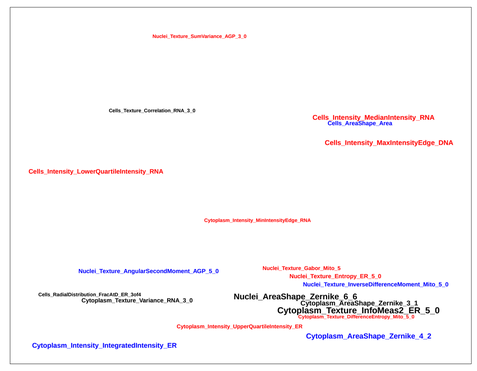
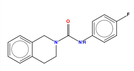
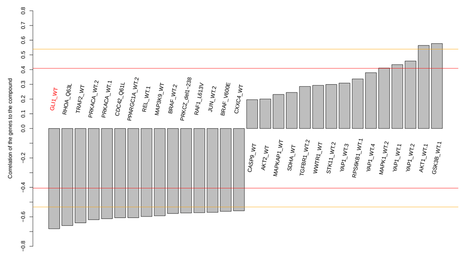
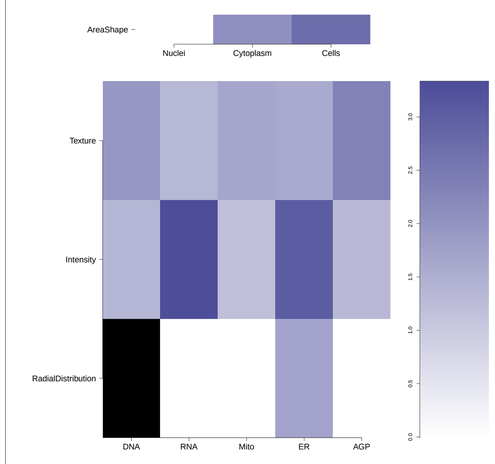
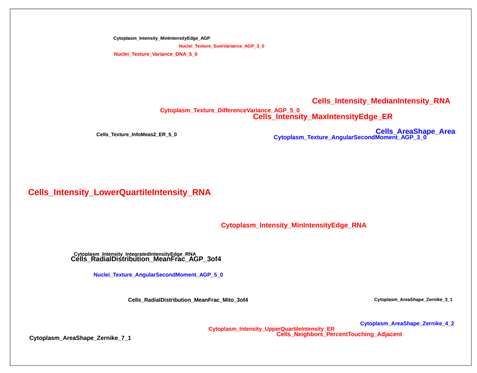
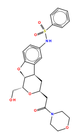
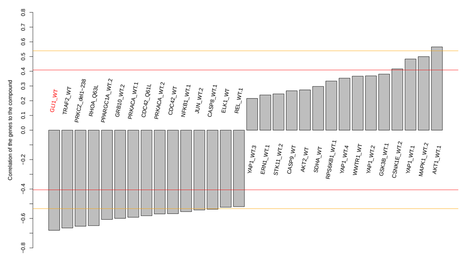
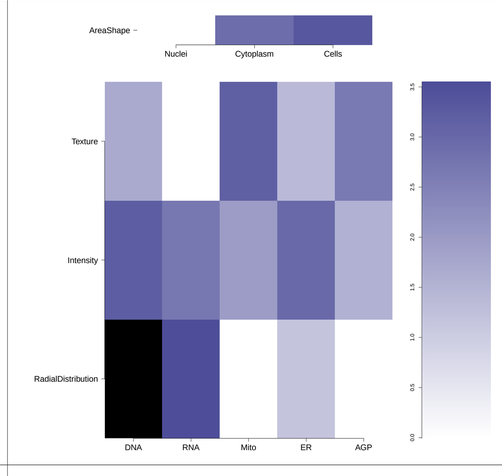
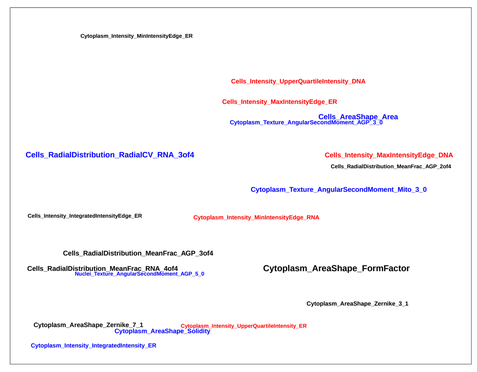
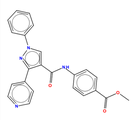
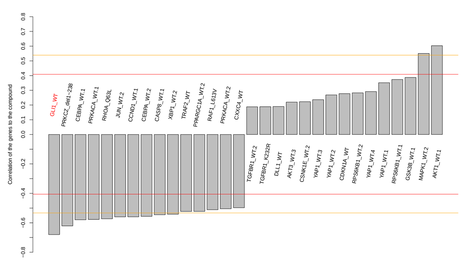
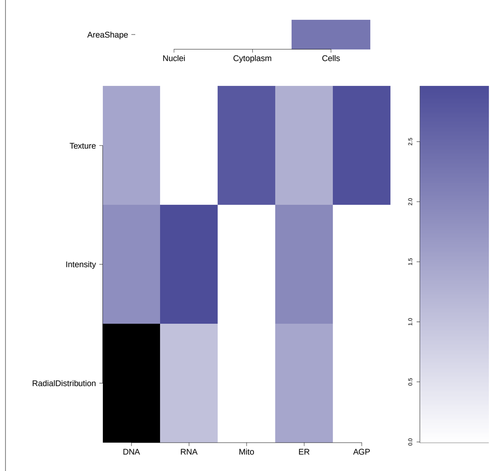
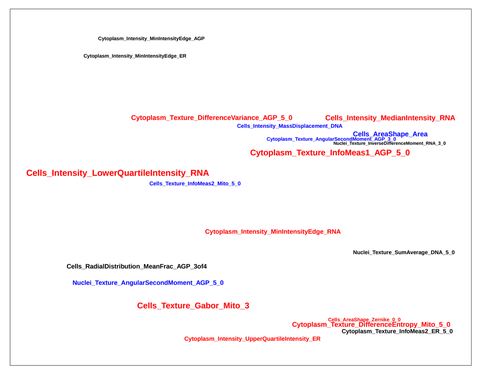


Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.51)	Correlation between compound 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-K91098396-001-01-9 PubChem CID : 54619176		0.85 (in 4 replicates)	0.72	0.727				Total number of assays tested in: 37.
BRD-K56903978-001-01-9 PubChem CID : 54641188		NA (in 1 replicates)	0.64	NA				Total number of assays tested in: 34.
BRD-K61124142-001-01-6 PubChem CID : 54640337		0.75 (in 4 replicates)	0.59	0.088				Total number of assays tested in: 35.
BRD-K35413741-001-01-1 PubChem CID : 54640338		0.67 (in 4 replicates)	0.57	0.727				Total number of assays tested in: 35.
BRD-K55134387-001-01-7 PubChem CID : 54646651		0.86 (in 4 replicates)	0.57	0.971				Total number of assays tested in: 36.
BRD-K17783155-001-01-8 PubChem CID : 54646587		0.58 (in 4 replicates)	0.56	0.231				Total number of assays tested in: 37.
BRD-K65887908-001-01-8 PubChem CID : 54639982		0.72 (in 4 replicates)	0.56	0.727				Total number of assays tested in: 36. Active in the following assays: • HTS to Identify Inhibitors of Demethylase GASC-1 Measured in Biochemical System Using Plate Reader - 2043-05_Inhibitor_SinglePoint_HTS_Activity (AID 720574)

BRD-K41332920-001-05-9 ST50866994 MLS000065906 AC1LOSZ5 HMS2463F04 ZINC1055346 STK463708 ZINC01055346 SMR000080624 PubChem CID : 1246661		0.61 (in 4 replicates)	0.56	NA				Total number of assays tested in: 785. 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) • Screening for Modulators of Post-Golgi Transport, Control Strain (AID 738) • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • qHTS Assay for Inhibitors of HSD17B4, hydroxysteroid (17-beta) dehydrogenase 4 (AID 893) • Primary cell-based high-throughput screening assay for identification of compounds that inhibit KCNQ2 potassium channels (AID 2156) • uHTS identification of small molecule inhibitors of tim10 yeast via a luminescent assay (AID 463195) • Single concentration confirmation of small molecule inhibitors of tim10 yeast via a luminescent assay (AID 463215) • Antagonist of Human D 1 Dopamine Receptor: qHTS (AID 504652) • uHTS identification of small molecule antagonists of the EBI2 receptor via a luminescent beta-arrestin assay (AID 651636)
BRD-K29144638-001-01-6 PubChem CID : 54640768		0.59 (in 4 replicates)	0.54	0.727				Total number of assays tested in: 38.
BRD-K98742259-001-01-1 PubChem CID : 54649107		0.74 (in 2 replicates)	0.54	0.727				Total number of assays tested in: 35.
BRD-K98170723-003-05-0 MLS001209415 SMR000514306 PubChem CID : 23724450		NA (in 1 replicates)	-0.72	NA				Total number of assays tested in: 494. Active in the following assays: • Aqueous Solubility from MLSMR Stock Solutions (AID 1996) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979) • qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279)
BRD-K00659699-001-05-3 MLS000392966 SMR000248123 T5227208 AC1MSJKL MLS002634504 BDBM68072 HMS2547C15 ZINC9631316 ZINC09631316 PubChem CID : 3560290		NA (in 1 replicates)	-0.71	NA				Total number of assays tested in: 618. Active in the following assays: • Screen for Chemicals that Inhibit the RAM Network (AID 868) • Leishmania major promastigote HTS (AID 1063) • 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) • MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) • High Content Assay for Compounds that inhibit the Assembly of the Perinucleolar Compartment (AID 2417) • 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) • Assay for HTS of Gi/Go-linked GPCRs using mGluR8: Primary Screening (AID 488969) • CHOP Confirmatory Screen (AID 504437) • Primary cell-based high-throughput screening for identification of compounds that inhibit/block calcium-activated chloride channels (TMEM16A) (AID 588511) • uHTS identification of small molecule inhibitors of the mitochondrial permeability transition pore via an absorbance assay (AID 602449) • Activators of the GIRK family of Potassium Channels (GIRK_Confirmatory_CRC) (AID 623909) • Activators of the GIRK family of Potassium Channels (GIRK1/2_Confirmatory) (AID 623911) • Single concentration confirmation of uHTS inhibitor hits of the mitochondrial permeability transition pore via a fluorescent based assay (AID 624504) • qHTS for induction of synthetic lethality in tumor cells producing 2HG: qHTS for the HT-1080-IDH1KD cell line (AID 686971) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979)

BRD-K16845730-001-05-1 AC1O1J1C MLS000416701 SMR000241729 PubChem CID : 6074706		NA (in 1 replicates)	-0.70	NA				Total number of assays tested in: 564. 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 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) • A quantitative high throughput screen for small molecules that induce DNA re-replication in SW480 colon adenocarcinoma cells. (AID 624297) • 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 Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820) • 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) • Alphascreen Interference Assay Measured in Biochemical System Using Plate Reader - 2160-02_Inhibitor_Dose_CherryPick_Activity (AID 720494) • Inhibition of the MLL-AF4-AF9 Interaction in Pediatric Leukemia Measured in Biochemical System Using Plate Reader - 2160-01_Inhibitor_Dose_CherryPick_Activity (AID 720495) • qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504) • Fluorescence polarization-based biochemical high throughput primary assay to identify inhibitors of sialic acid acetylesterase (SIAE) (AID 1053197)
BRD-K46192888-001-01-1 PubChem CID : 54645975		0.74 (in 2 replicates)	-0.70	0.060				Total number of assays tested in: 41.
BRD-A71556055-001-08-9 AC1O0OJ7 MLS002586209 HMS2386E13 PubChem CID : 6047409		NA (in 1 replicates)	-0.70	NA				Total number of assays tested in: 696. Active in the following assays: • Human Endothelial Cell Proliferation Assay in 384-well format (AID 648) • Screening for Modulators of Post-Golgi Transport, Control Strain (AID 738) • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • Human Endothelial Cell Proliferation Assay - Dose Response (AID 822) • Modulators of the EP2 prostaglandin E2 receptor - Primary Screening (AID 940) • uHTS for Calpain Inhibitors (AID 1236) • MLPCN Streptokinase Expression Inhibition (AID 1662) • Luminescence Microorganism-Based Dose Confirmation HTS to Identify Compounds Cytotoxic to SK(-)GAS Group A Streptococcus (AID 1900) • Luminescence Microorganism-Based Dose Confirmation HTS to Identify Inhibitors of Streptokinase Promotor Activity (AID 1902) • Luminescence Microorganism-Based Dose Response HTS to Identify Compounds Cytotoxic to Streptococcus (AID 1915) • 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) • Primary cell-based high-throughput screening assay for identification of compounds that potentiate/activate regulator of G-protein signaling 4 (RGS4) (AID 463111) • In vivo-based yeast HTS to detect compounds rescuing yeast growth/survival of Plasmodium Falciparum HSP40-mediated toxicity Measured in Whole Organism System Using Plate Reader - 2120-01_Inhibitor_SinglePoint_HTS_Activity (AID 504582) • uHTS identification of small molecule inhibitors of the thioesterase domain of fatty acid synthase via a fluorescence intensity assay (AID 602261) • Validation assay for identification of compounds that activate the regulator of G-protein signaling 4 (RGS4) (AID 602282) • Counter screen for identification of compounds that activate the regulator of G-protein signaling 4 (RGS4): Non-induced cells with the primary screen assay (AID 602283) • qHTS Assay for Inhibitors of the HIV-1 protein Vpr (AID 651644) • 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) • QFRET-based biochemical primary high throughput screening assay to identify exosite inhibitors of ADAM17. (AID 720648) • Counterscreen for exosite inhibitors of ADAM17: Fluorescence resonance energy transfer (FRET)-based biochemical high throughput screening assay to identify inhibitors of ADAM10 (AID 743256) • Luminescent GLuc Reporter Gene Assay Primary HTS to Identify Small Molecule Activator of Glucose Dependent Insulin Secretion Measured in Cell-Based System Using Plate Reader - 7055-01_Activator_SinglePoint_HTS_Activity (AID 743287)
BRD-K93517397-001-05-6 SMR000075593 MLS000049529 AC1MFU8W MLS002546201 HMS2347I11 ZINC4058350 STK184695 ZINC04058350 PubChem CID : 2950805		NA (in 1 replicates)	-0.69	NA				Total number of assays tested in: 779. Active in the following assays: • Primary cell-based high throughput assay for inhibitors of the Janus kinase 2 mutant JAK2V617F (AID 1446) • High Throughput Imaging Assay for Hepatic Lipid Droplet Formation (AID 1656) • Fluorescence-based primary biochemical high throughput screening assay to identify inhibitors of the Hepatitis C Virus non-structural protein 3 helicase (NS3) (AID 1800) • Single concentration confirmation of HCS identification of small molecules that inhibit hepatic lipid droplet formation (AID 463183)

BRD-K88686946-001-01-1 PubChem CID : 54646013		NA (in 1 replicates)	-0.69	0.273				Total number of assays tested in: 40.
BRD-K59420052-001-05-1 ST50277656 ZINC00318938 AC1LFSO4 MLS000677351 HMS2648M19 ZINC318938 CCG-15022 BAS 05338703 SMR000286104 PubChem CID : 808203		NA (in 1 replicates)	-0.68	NA				Total number of assays tested in: 636. Active in the following assays: • 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) • Luminescence-based primary cell-based high throughput screening assay to identify activators of the Aryl Hydrocarbon Receptor (AHR) (AID 2796) • qHTS Assay for NPC1 Promoter Activators (AID 485313) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • Fluorescence-based cell-based primary high throughput screening assay to identify agonists of the human trace amine associated receptor 1 (TAAR1) (AID 624467) • Fluorescence-based cell-based primary high throughput confirmation assay to identify agonists of the human trace amine associated receptor 1 (TAAR1) (AID 651783) • Luminescence-based cell-based primary high throughput screening assay to identify agonists of the DAF-12 from the parasite H. glycines (hgDAF-12). (AID 687014) • qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504) • qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279) • Wnt/Beta-catenin HTS Measured in Cell-Based System Using Plate Reader - 2161-01_Activator_SinglePoint_HTS_Activity (AID 743398)
BRD-K56176052-001-01-1 PubChem CID : 54645974		NA (in 1 replicates)	-0.68	0.273				Total number of assays tested in: 41.
BRD-K51694032-001-07-0 F1495-5984 MLS000580590 AC1M2B98 HMS2175G06 ZINC2697241 ZINC02697241 SMR000199479 T5211065 PubChem CID : 2140163		NA (in 1 replicates)	-0.68	NA				Total number of assays tested in: 681. Active in the following assays: • Screening for Modulators of Post-Golgi Transport, Control Strain (AID 738) • Modulators of Post-Golgi Transport (AID 739) • Luminescence Cell-Based/Microorganism Primary HTS to Identify Inhibitors of T.Cruzi Replication (AID 1885) • Luminescence Cell-Based/Microorganism Dose Confirmation HTS to Identify Inhibitors of T.Cruzi Replication. (AID 2044) • HTS Assay for Allosteric Antagonists of the Human D2 Dopamine Receptor: Primary Screen for Antagonists (AID 485344) • Anti-Malarial Hsp90 Inhibitors Measured in Microorganism System Using Plate Reader - 2121-01_Inhibitor_SinglePoint_HTS_Activity_Set2 (AID 504621) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 48 hour incubation (AID 504832) • Anti-Malarial Hsp90 Inhibitors Measured in Microorganism System Using Plate Reader - 2121-01_Inhibitor_Dose_CherryPick_Activity (AID 540268) • HsHsp90 Counterscreen Measured in Microorganism System Using Plate Reader - 2121-02_Inhibitor_Dose_CherryPick_Activity (AID 540270) • qHTS for inhibitors of binding or entry into cells for Marburg Virus (AID 540276) • uHTS identification of inhibitors of Rpn11 in a Fluorescent Polarization assay (AID 588493) • uHTS identification of small molecule inhibitors of Striatal-Enriched Phosphatase via a fluorescence intensity assay (AID 588621) • qHTS for Inhibitors of TGF-b: Cytotox Counterscreen (AID 588856) • Fluorescence polarization-based biochemical primary high throughput screening assay to identify inhibitors of ArfGAP with SH3 domain, ankyrin repeat and PH domain 1 (ASAP1) (AID 624377) • Fluorescence polarization-based biochemical high throughput confirmation assay for inhibitors of ArfGAP with SH3 domain, ankyrin repeat and PH domain 1 (ASAP1) (AID 624431) • Fluorescence polarization-based biochemical primary high throughput screening assay to identify inhibitors of ADP-ribosylation factor GTPase activating protein 1 (ARFGAP1) (AID 651572) • Fluorescence polarization-based biochemical high throughput confirmation assay for inhibitors of ADP-ribosylation factor GTPase activating protein 1 (ARFGAP1) (AID 651608) • qHTS of D3 Dopamine Receptor Antagonist: qHTS (AID 652054)