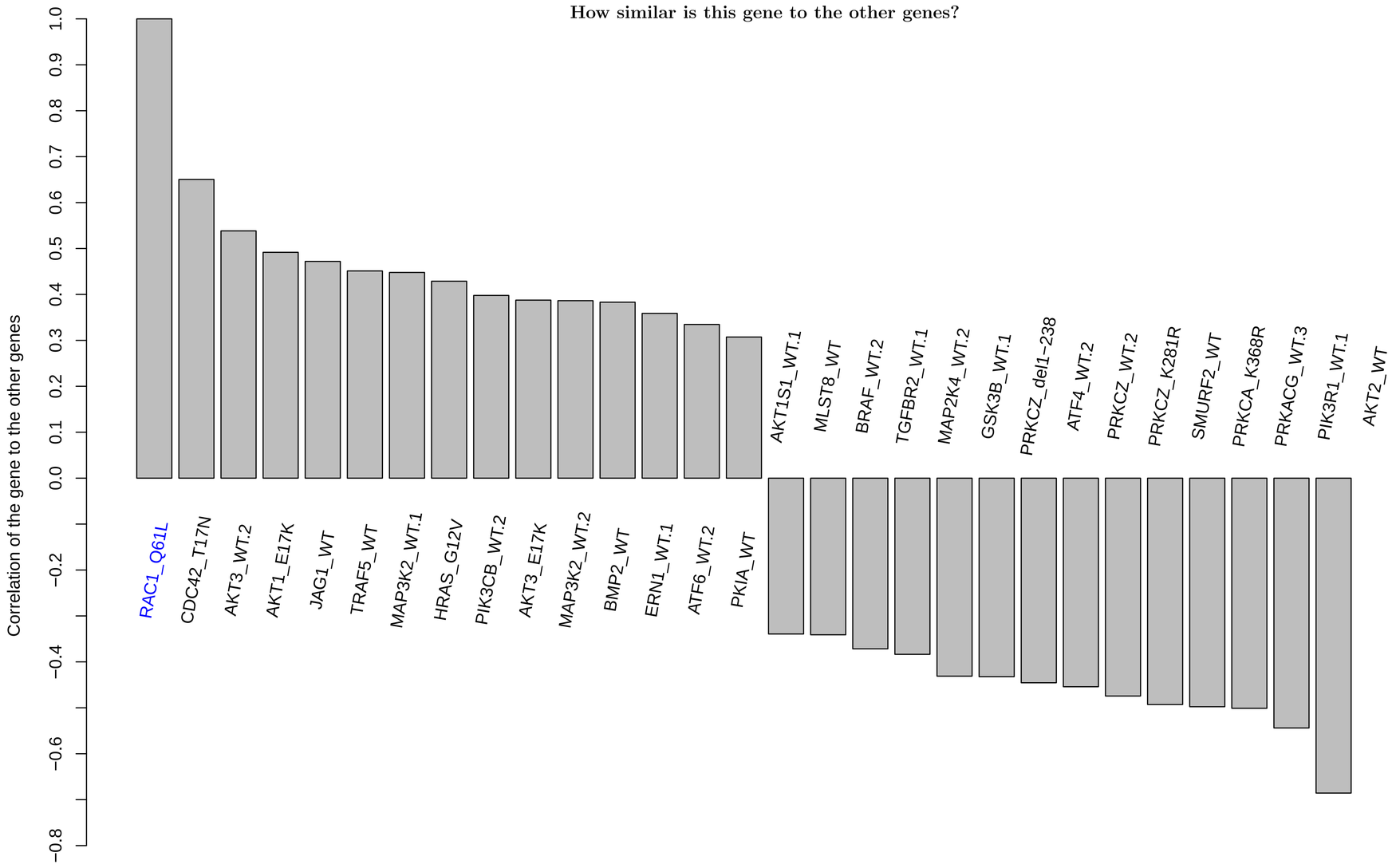
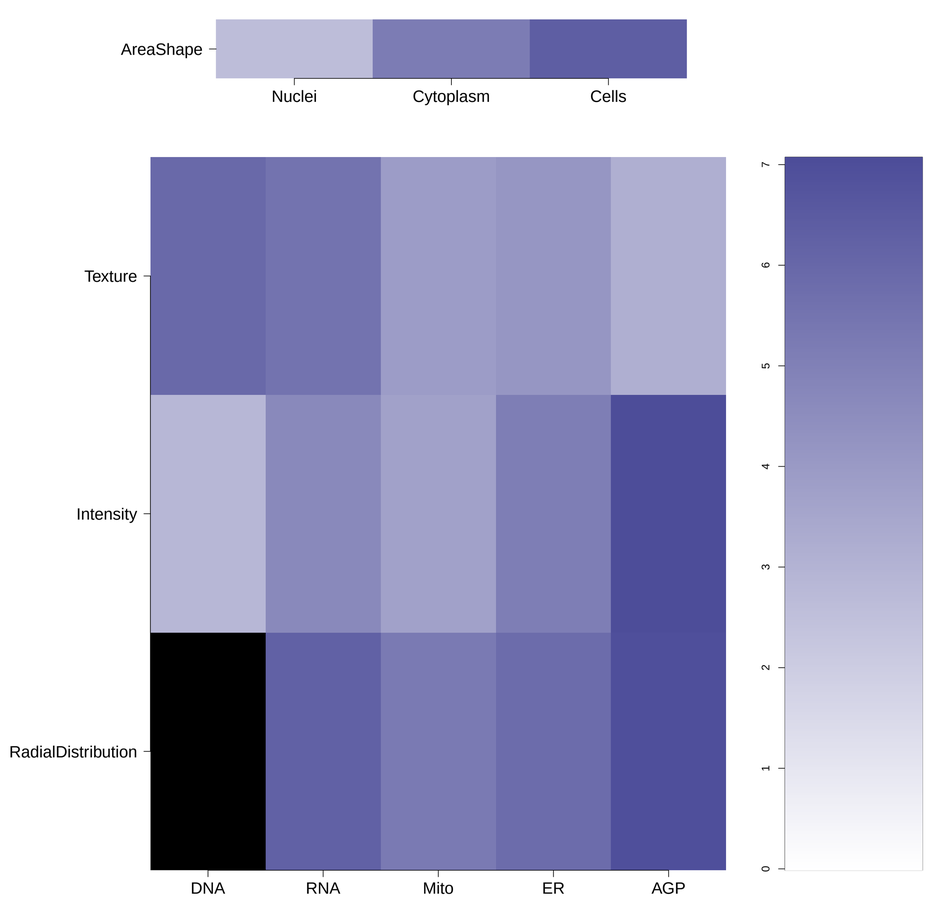
RAC1_Q61L - in Canonical Cytoskeletal Re-org

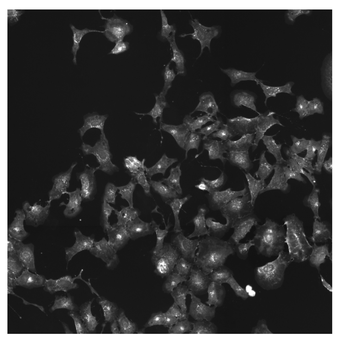
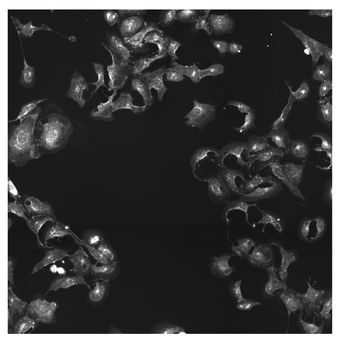
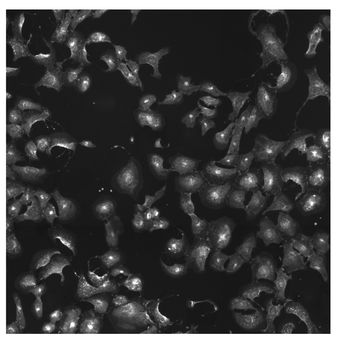
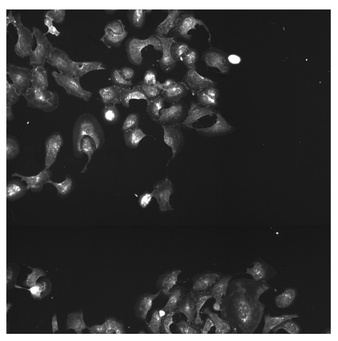
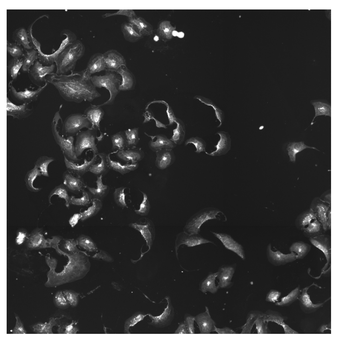
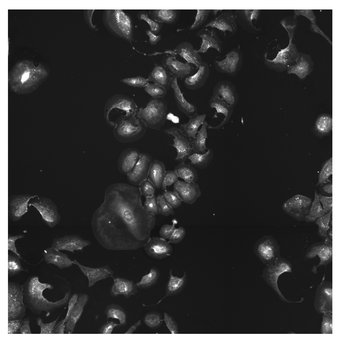
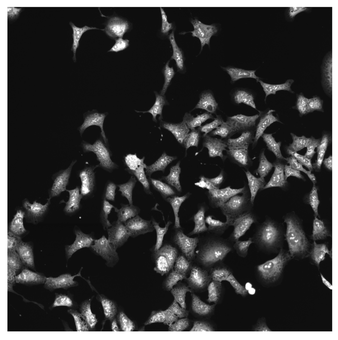
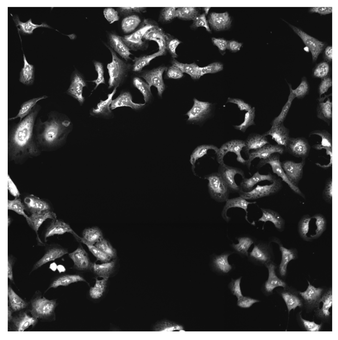
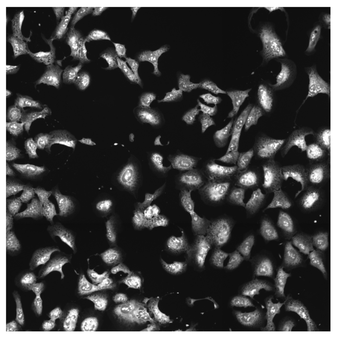
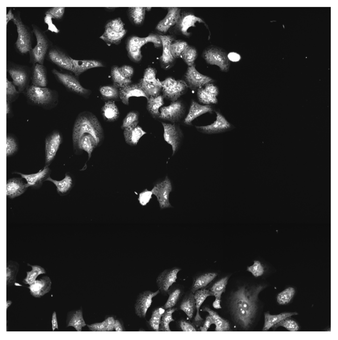
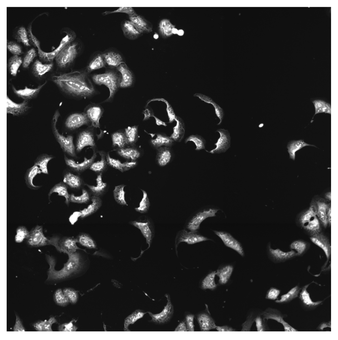
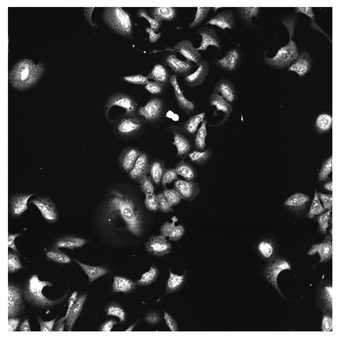
How similar is this gene to the other genes?



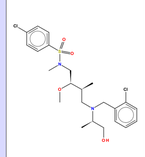
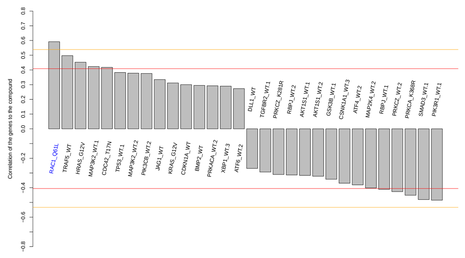
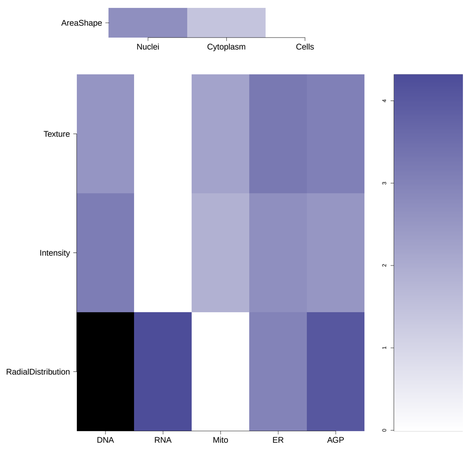
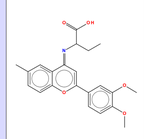
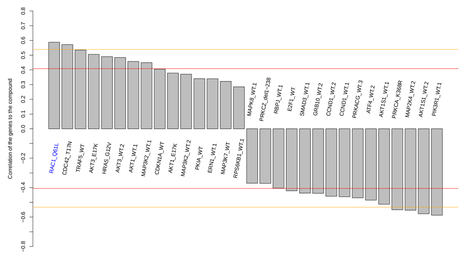
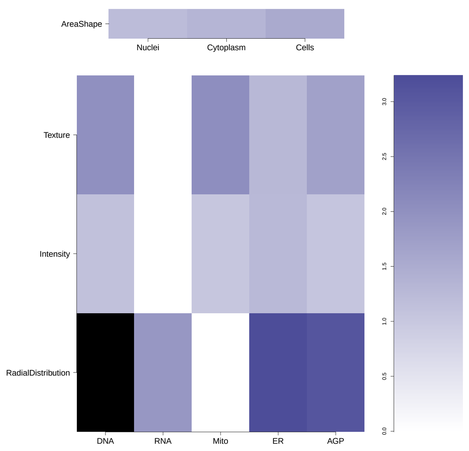
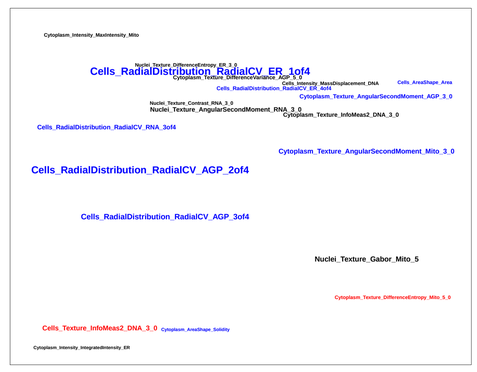
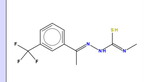
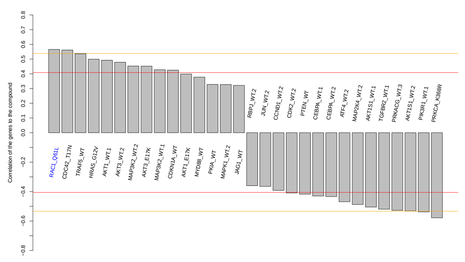
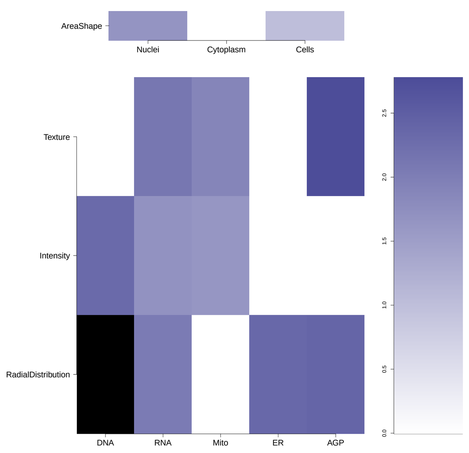
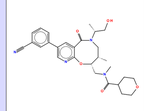
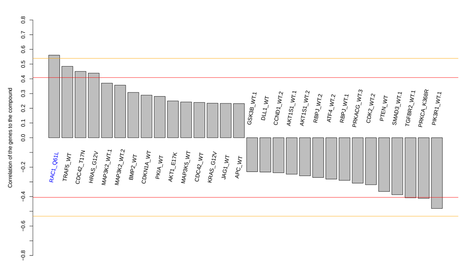
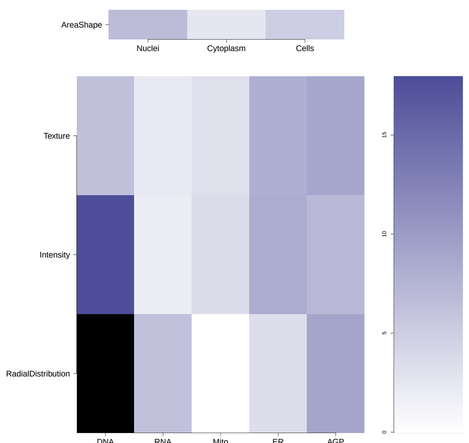
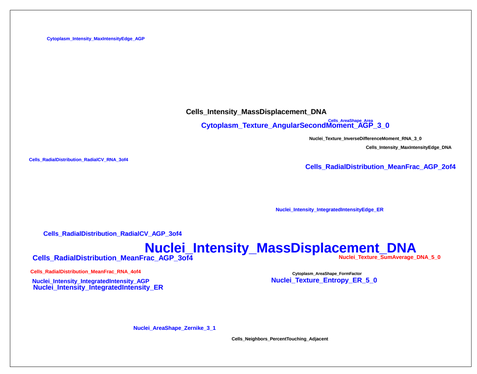
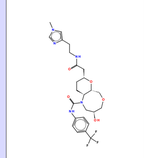
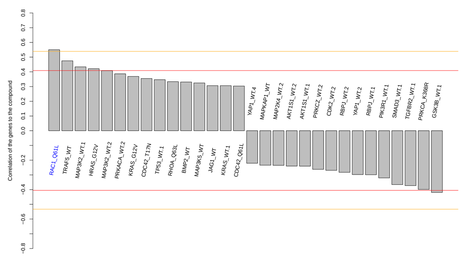
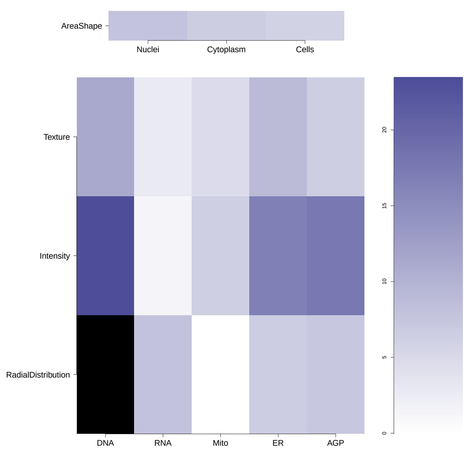
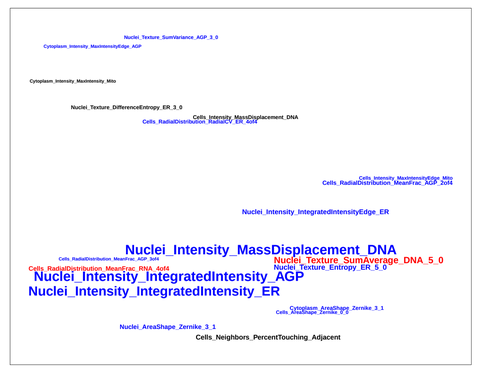
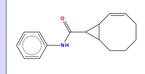
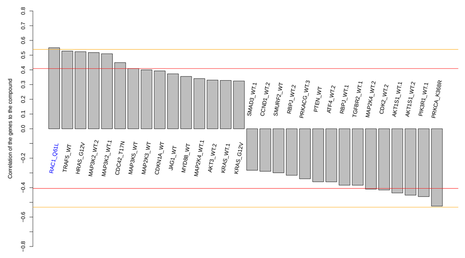
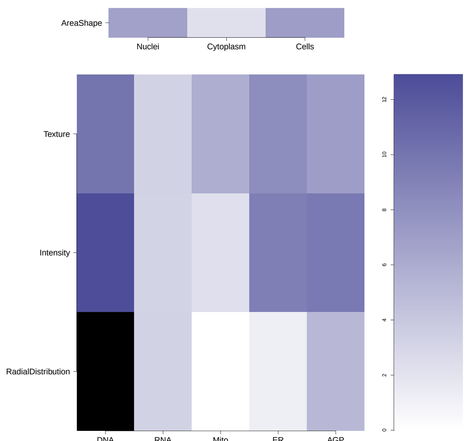
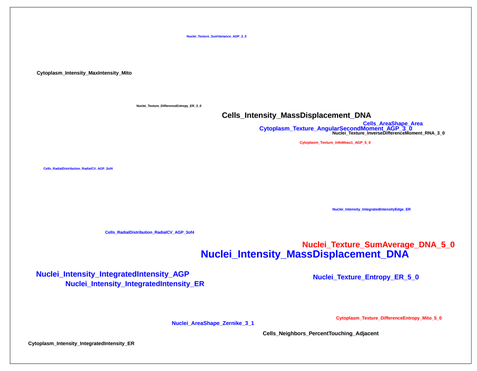
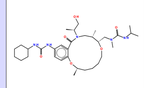
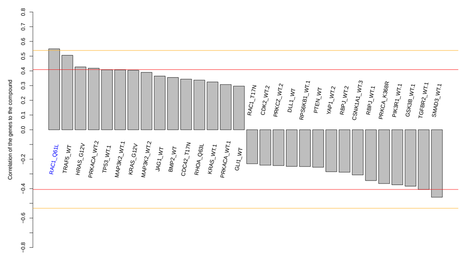
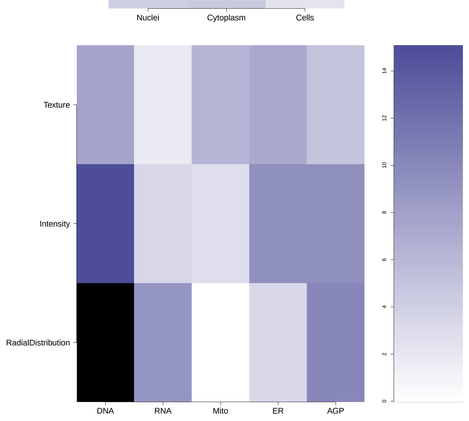
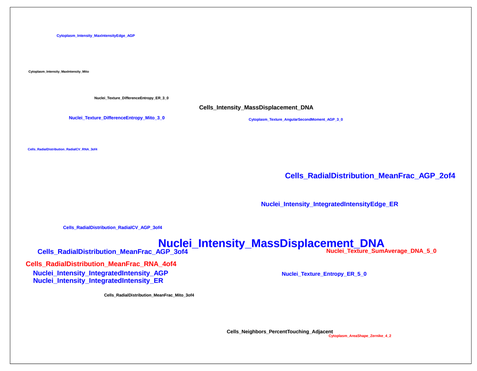
What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

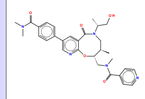
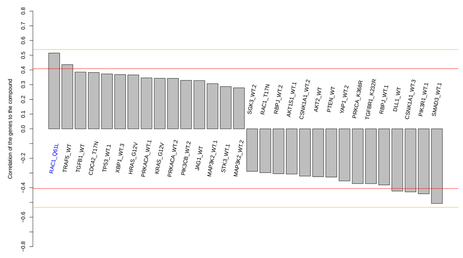
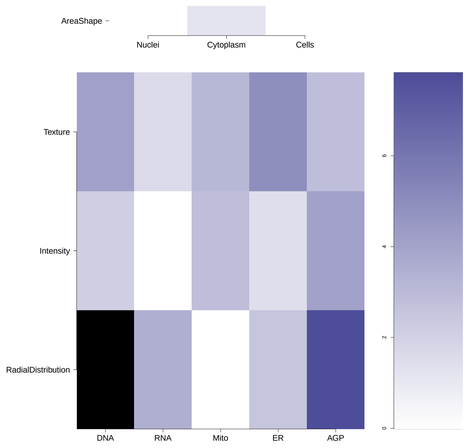
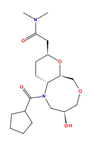
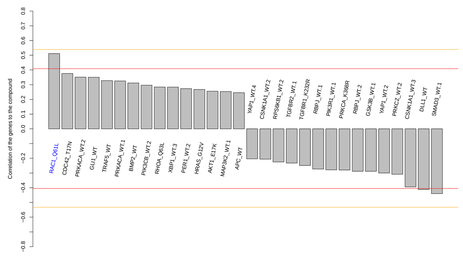
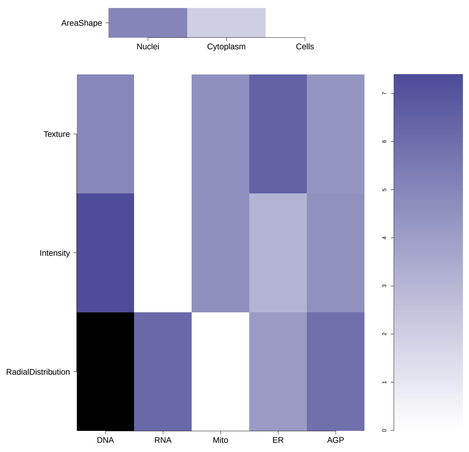
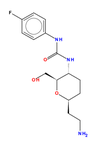
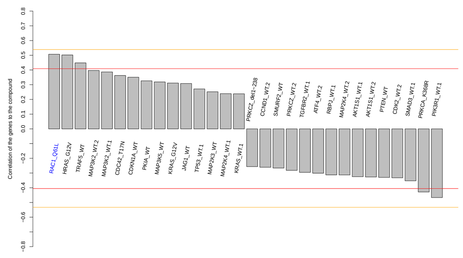
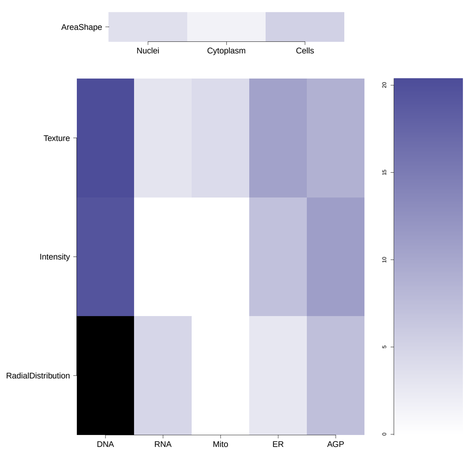
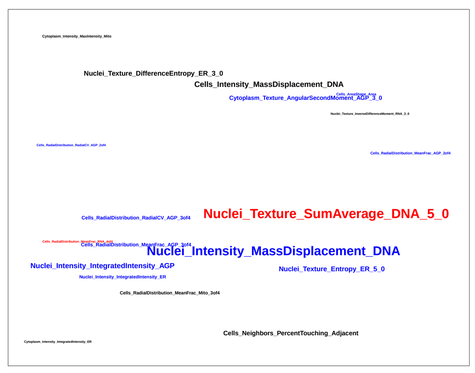
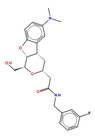
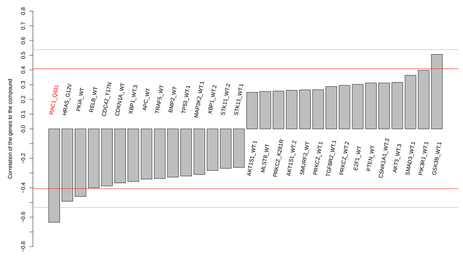
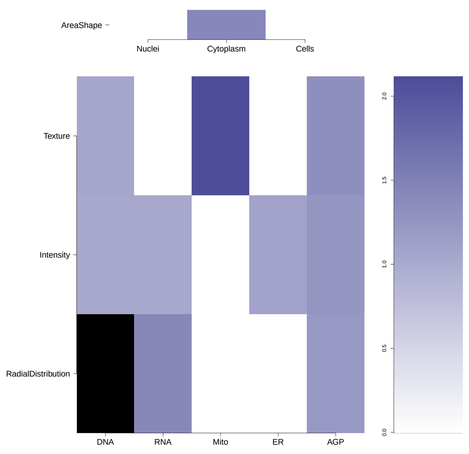
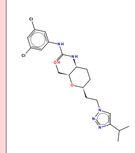
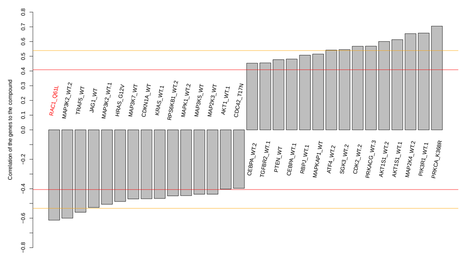
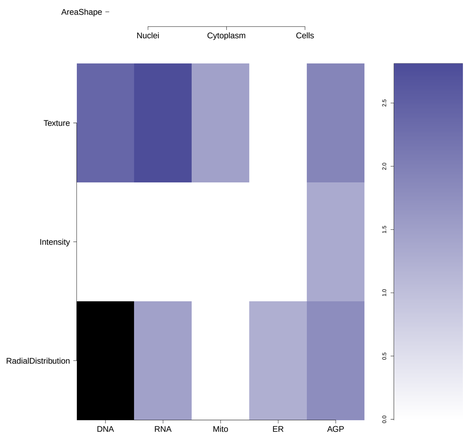


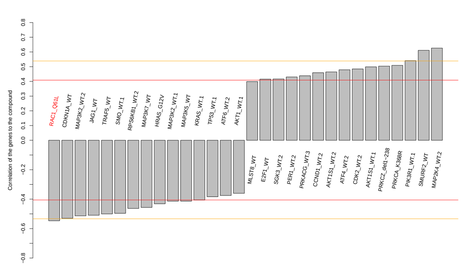
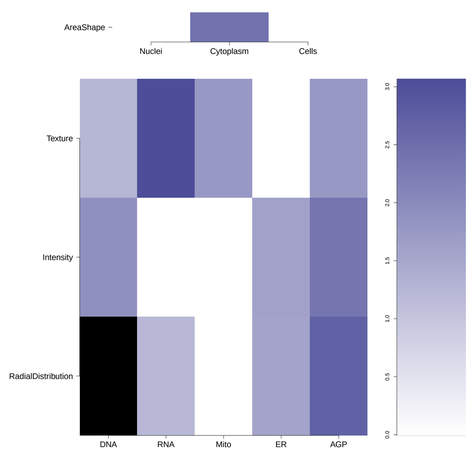
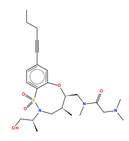
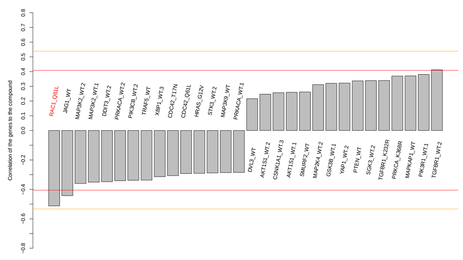
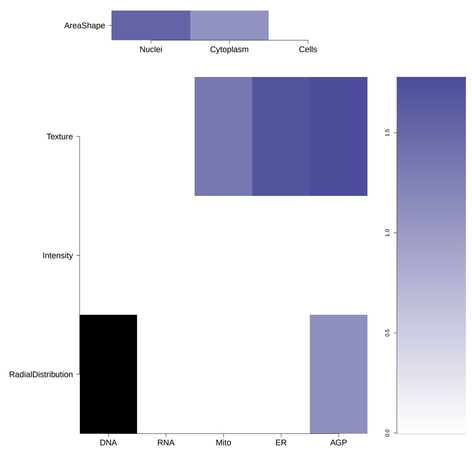
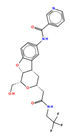
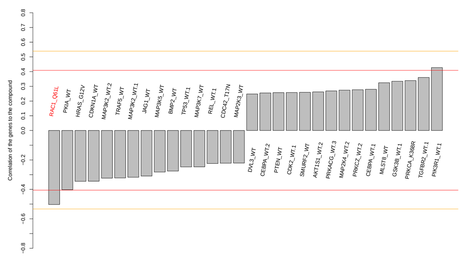
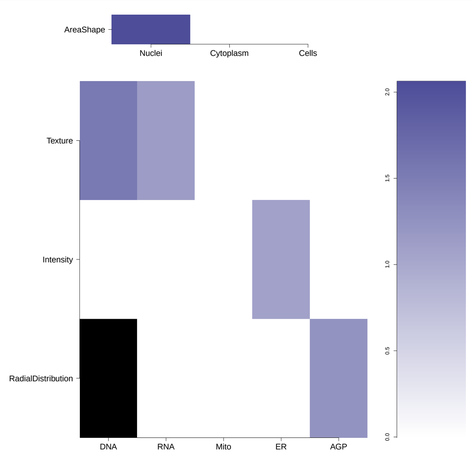
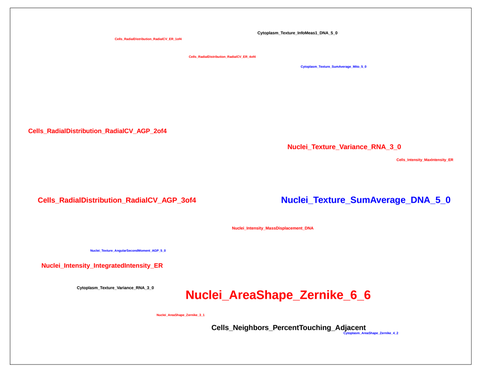
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

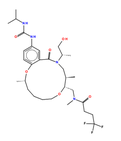
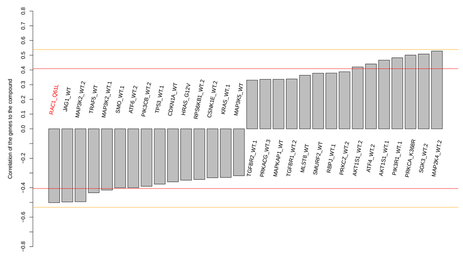
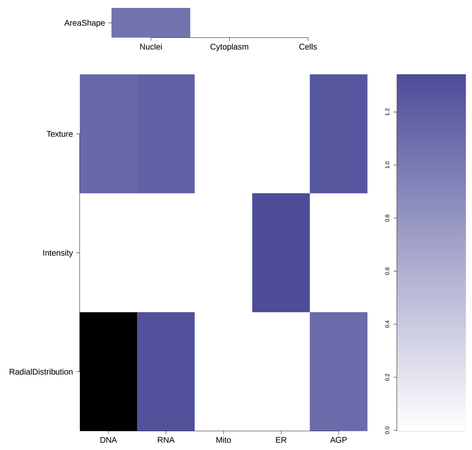
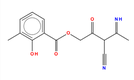
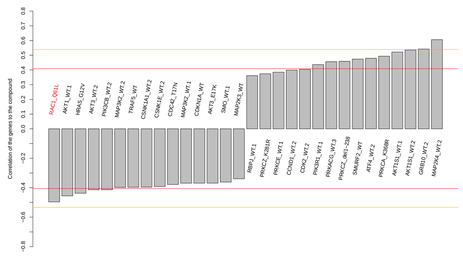
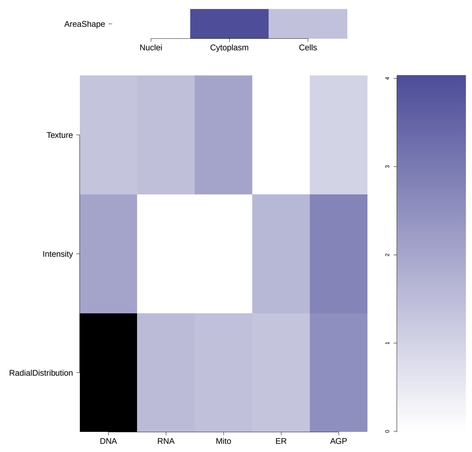
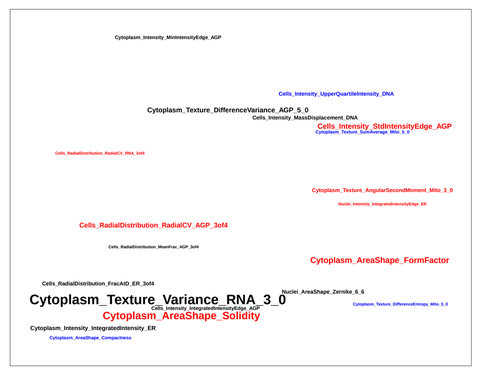
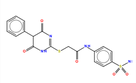
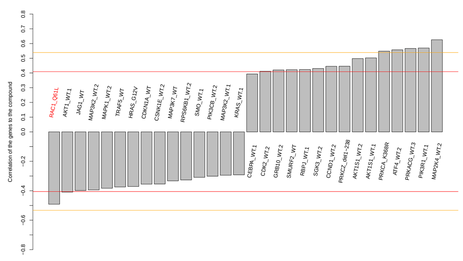
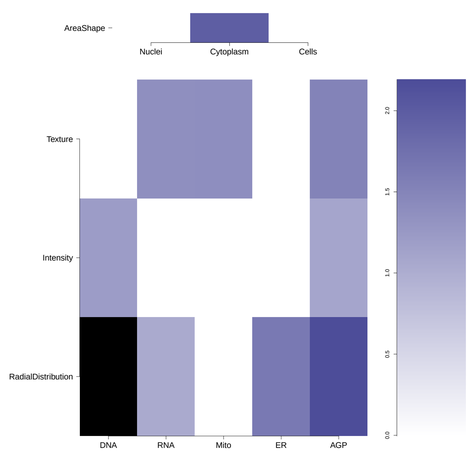
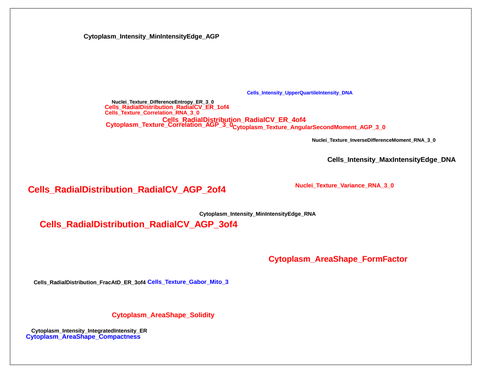
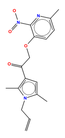
	Empty	RAC1_Q61L (41744)	RAC1_Q61L (41755)	RAC1_Q61L (41756)	RAC1_Q61L (41757)	RAC1_Q61L (41754)
AGP						
RNA						

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-K86985145-001-01-8 PubChem CID : 54649205		0.77 (in 2 replicates)	0.59	0.689				Total number of assays tested in: 38. Active in the following assays: • Inhibition of T.cruzi proliferation in culture Measured in Cell-Based System Using Plate Reader - 2138-01_Inhibitor_SinglePoint_CherryPick_Activity (AID 651739) • NIH/3T3 (mouse embryonic fibroblast) toxicity Measured in Cell-Based System Using Plate Reader - 2138-02_Inhibitor_SinglePoint_CherryPick_Activity_Set2 (AID 651744)
BRD-A14556598-001-06-7 MLS000402296 SMR000243030 AC1MWISV AC1Q2RLA BDBM63320 CTK6C7395 NE61401 EN300-05982 T0518-2801 956370-25-5 PubChem CID : 3749969		NA (in 1 replicates)	0.59	NA				Total number of assays tested in: 651. Active in the following assays: • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • Confirmatory screen for compounds that activate the Choline Transporter (CHT) (AID 504833) • Counter screen assay of the parental HEK293 cells for compounds that activate the Choline Transporter (CHT) (AID 623908) • DENV2 CPE-Based HTS Measured in Cell-Based and Microorganism Combination System Using Plate Reader - 2149-01_Other_SinglePoint_HTS_Activity (AID 651640) • Fluorescence Intensity-based biochemical primary high throughput screening assay to identify activators of kallikrein-7 (K7) zymogen (AID 652039) • Fluorescence Intensity-based biochemical primary high throughput confirmation assay to identify activators of kallikrein-7 (K7) zymogen (AID 686949) • Counterscreen for activators of kallikrein-7 (K7) zymogen: Fluorescence intensity-based biochemical high throughput counterscreen assay for activators that optically interfere with measurement of EDANS-DABCYL fluorescence (AID 686952)
BRD-K03796490-001-05-1 T0509-9695 MLS001003678 HMS1763D10 ZINC6374094 SMR000347571 PubChem CID : 9622493		NA (in 1 replicates)	0.57	NA				Total number of assays tested in: 638. Active in the following assays: • Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Primary Screen (AID 1456) • Identification of Novel Modulators of Cl- dependent Transport Process via HTS: 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) • VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)
BRD-K81464255-001-01-5 PubChem CID : 54618888		0.89 (in 3 replicates)	0.56	0.689				Total number of assays tested in: 40.
BRD-K04574057-001-01-5 PubCID : 54657509		0.85 (in 4 replicates)	0.55	0.111				Total number of assays tested in: 42. Active in the following assays: • Inhibition of T.cruzi proliferation in culture Measured in Cell-Based System Using Plate Reader - 2138-01_Inhibitor_SinglePoint_HTS_Activity (AID 624255)
BRD-A02131228-001-05-3 AC1NRXSV MLS000666012 HMS2606H24 SMR000268939 PubChem CID : 5350170		0.53 (in 4 replicates)	0.55	NA				Total number of assays tested in: 620. Active in the following assays: • HTS Colorimetric assay for the identification of compounds that inhibit VHR1 (AID 1992) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • 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)
BRD-K75648723-001-01-5 PubChem CID : 54614898		0.90 (in 4 replicates)	0.55	0.789				Total number of assays tested in: 37.

BRD-K06295532-001-01-0 PubChem CID : 54618628		0.90 (in 4 replicates)	0.51	0.705				Total number of assays tested in: 36.
BRD-K68148111-001-01-5 PubChem CID : 54657620		0.91 (in 4 replicates)	0.51	0.689				Total number of assays tested in: 35.
BRD-K81960205-001-01-3 PubChem CID : 54640392		0.92 (in 4 replicates)	0.51	0.689				Total number of assays tested in: 36.
BRD-K34336958-001-01-3 PubChem CID : 54645808		NA (in 1 replicates)	-0.63	0.311				Total number of assays tested in: 38.
BRD-K79446376-001-01-0 PubChem CID : 54641206		NA (in 1 replicates)	-0.61	NA				Total number of assays tested in: 37.

BRD-K78881103-001-06-8 BAS 03020362 AC1LG1VG MLS000714118 HMS2771M05 ZINC285510 STK001027 SMR000273598 PubChem CID : 787426		NA (in 1 replicates)	-0.55	NA				Total number of assays tested in: 580. Active in the following assays: • MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) • Aqueous Solubility from MLSMR Stock Solutions (AID 1996) • A cytotoxicity screen of small molecule inhibitors of the PhoP regulon in Salmonella typhi identified in the primary screen (AID 2252) • qHTS Assay for Modulators of miRNAs and/or Inhibitors of miR-21 (AID 2289) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • uHTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 6 (SENP6) (AID 2599) • uHTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 7 (SENP7) (AID 434973) • qHTS Assay for Rab9 Promoter Activators (AID 485297) • qHTS Assay for NPC1 Promoter Activators (AID 485313) • Single concentration confirmation of uHTS for inhibitors of Sentrin-specific protease 8 (SENP8) using a Luminescent assay (AID 488912) • Single concentration confirmation of uHTS for inhibitors of Sentrin-specific protease 6 (SENP6) using a Luminescent assay (AID 488915) • Single concentration confirmation of uHTS for inhibitors of Sentrin-specific protease 7 (SENP7) using a Luminescent assay (AID 488917) • Single concentration confirmation of inhibitors of Sentrin-specific proteases (SENPs) using a Caspase-3 Selectivity assay (AID 488918) • Single concentration confirmation of inhibitors of Sentrin-specific proteases (SENPs) using a Luminescent Interference Counterscreen assay (AID 488919) • qHTS for inhibitors of binding or entry into cells for Marburg Virus (AID 540276) • MITF Measured in Cell-Based System Using Plate Reader - 2084-01_Activator_SinglePoint_HTS_Activity (AID 588334) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • Luminescence Cell-Based Primary HTS to Identify Re-Activators of the P53 Mutant Pathway Measured in Cell-Based System Using Plate Reader - 2071-01_Activator_SinglePoint_HTS_Activity (AID 624151) • qHTS Assay to Identify Small Molecule Activators of BRCA1 Expression (AID 624202) • Luminescence-based cell-based primary high throughput screening assay for inhibitors of the orphan nuclear receptor subfamily 0, group B, member 1 (DAX1; NR0B1): repression of SF-1 (NR5A1) activated StAR promoter by full-length DAX-1 (AID 652010) • 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) • Luminescence-based cell-based primary high throughput confirmation 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 652260) • Counterscreen for activators of the function of SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2, BRM): Luminescence-based cell-based high throughput screening assay to identify non-selective compounds using the VP16 reporter assay (AID 686939) • 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) • Luminescence-based cell-based high throughput confirmation assay to identify agonists of the DAF-12 from the parasite H. glycines (hgDAF-12). (AID 743050)
BRD-K19768759-001-05-8 AC1NSO3D MLS000713592 HMS2637L15 SMR000273073 PubChem CID : 5337126		NA (in 1 replicates)	-0.53	NA				Total number of assays tested in: 626. Active in the following assays: • qHTS for Inhibitors of Tau Fibril Formation, Thioflavin T Binding (AID 1460) • MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) • Identification of SV40 T antigen inhibitors: A route to novel anti-viral reagents (AID 1903) • qHTS Assay for Inhibitors and Activators of Human alpha-Glucosidase Cleavage of Glycogen (AID 2100) • A biochemical assay using the ADP-Hunter methodology, purified TAg, and ATP to identify compounds that inhibit the ATPase activity of Tag - Counter Screen (AID 2501) • HTS-Luminescent assay for inhibitors of ALR by detection of hydrogen peroxide production Measured in Biochemical System Using Plate Reader - 2036-02_Inhibitor_SinglePoint_HTS (AID 485317) • Nrf2 qHTS screen for inhibitors (AID 504444) • Confirmation screen for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504848) • qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279)
BRD-K61287439-001-01-3 PubChem CID : 54619342		0.59 (in 4 replicates)	-0.51	0.311				Total number of assays tested in: 38.
BRD-K79339982-001-01-3 PubChem CID : 54646632		0.60 (in 4 replicates)	-0.50	0.120				Total number of assays tested in: 38.

BRD-K74127463-001-01-5 PubChem CID : 49843150		0.58 (in 4 replicates)	-0.50	NA				Total number of assays tested in: 33.
BRD-A02302336-001-05-9 T5228533 AC1O76PX MLS000761494 HMS2771L16 ZINC13598471 SMR000371602 PubChem CID : 6520560		NA (in 1 replicates)	-0.50	NA				Total number of assays tested in: 568. Active in the following assays: • A Cell Based HTS Approach for the Discovery of New Inhibitors of Respiratory syncytial virus (RSV) (AID 2391)
BRD-A86636368-001-05-0 ST056856 SMR000106903 BAS 01521735 AC1MF9DK MLS000110974 MLS002540450 HMS2356P24 STK011602 EU-0004914 PubChem CID : 2890941		0.66 (in 3 replicates)	-0.49	NA				Total number of assays tested in: 761. Active in the following assays: • Identification and characterization of compounds for addressing human bone marrow failure (AID 817) • 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) • RNA aptamer-based HTS for inhibitors of GRK2 (AID 488847) • uHTS identification of Gli-Sufu Antagonists in a luminescence reporter assay (AID 588413)
								Total number of assays tested in: 663. Active in the following assays: • Primary cell-based high throughput screening assay to measure STAT3 inhibition (AID 862) • uHTS luminescence assay for the identification of compounds that inhibit NOD2 (AID 1566) • Luminescence Cell-Based Primary HTS to Identify Inhibitors of Heat Shock Factor 1 (HSF1). (AID 2098) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • HTS dose response assay for identification of inhibitors of TNFa-specific NF-kB induction (AID 2485) • qHTS of small molecules that selectively kill Giardia lamblia: Hit Validation. (AID 588397) • HTS Assay for Peg3 Promoter Inhibitors (AID 588405) • Luminescence-based cell-based high throughput primary screening assay to identify agonists of nuclear receptor subfamily 2, group E, member 3 (NR2E3) (AID 602229) • Full deck counterscreen for agonists of the human M1 muscarinic receptor (CHRM1): Fluorescence-based cell-based high throughput screening assay to identify nonselective activators and assay artifacts using the parental CHOK1 cell line (AID 602248) • Single concentration confirmation of uHTS hits for Peg3 Promoter Inhibitors via a luciferase reporter assay (AID 602417) • Dose Response confirmation of uHTS small molecule Peg3 Promoter Inhibitor hits in a screening assay (AID 624167) • uHTS identification of HIF-2a Inhibitors in a luminesence assay (AID 624352) • Luminescence-based cell-based high throughput confirmation assay for agonists of nuclear receptor subfamily 2, group E, member 3 (NR2E3) (AID 624378) • Luminescence-based cell-based high throughput dose response assay for agonists of nuclear receptor subfamily 2, group E, member 3 (NR2E3) (AID 624394) • Counterscreen for agonists of nuclear receptor subfamily 2, group E, member 3 (NR2E3):Luminescence-based cell-based high throughput dose response assay to identify inhibitors of the Herpes Virus Virion Protein 16 (VP16) (AID 624395) • Dose Response confirmation of uHTS small molecule Peg3 Promoter Inhibitor hits in screening - selectivity counter screen assays - Set 2 (AID 651549) • Single concentration confirmation of uHTS identification of HIF-2a Inhibitors in a luminesence assay (AID 651580) • Single concentration confirmation of HIF-2a Inhibitors in a HIF-1a counterscreen in human MiAPaCa-2 Cells luciferase reporter assay (AID 651589) • Luminescence-based cell-based primary high throughput screening assay to identify inhibitors of the Steroid Receptor Coactivator 2 (SRC2; NCOA2) (AID 651957) • qHTS Assay for Activators of ClpP (AID 651965) • Luminescence-based cell-based high throughput confirmation assay to identify inhibitors of the Steroid Receptor Coactivator 2 (SRC2; NCOA2) (AID 652008) • 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)
BRD-K73428865-001-05-3 MLS000389606 SMR000255880 AC1N94DM BDBM59524 HMS2527F12 ZINC8687609 ZINC08687609 T5219633 PubChem CID : 4354817		0.68 (in 2 replicates)	-0.49	NA