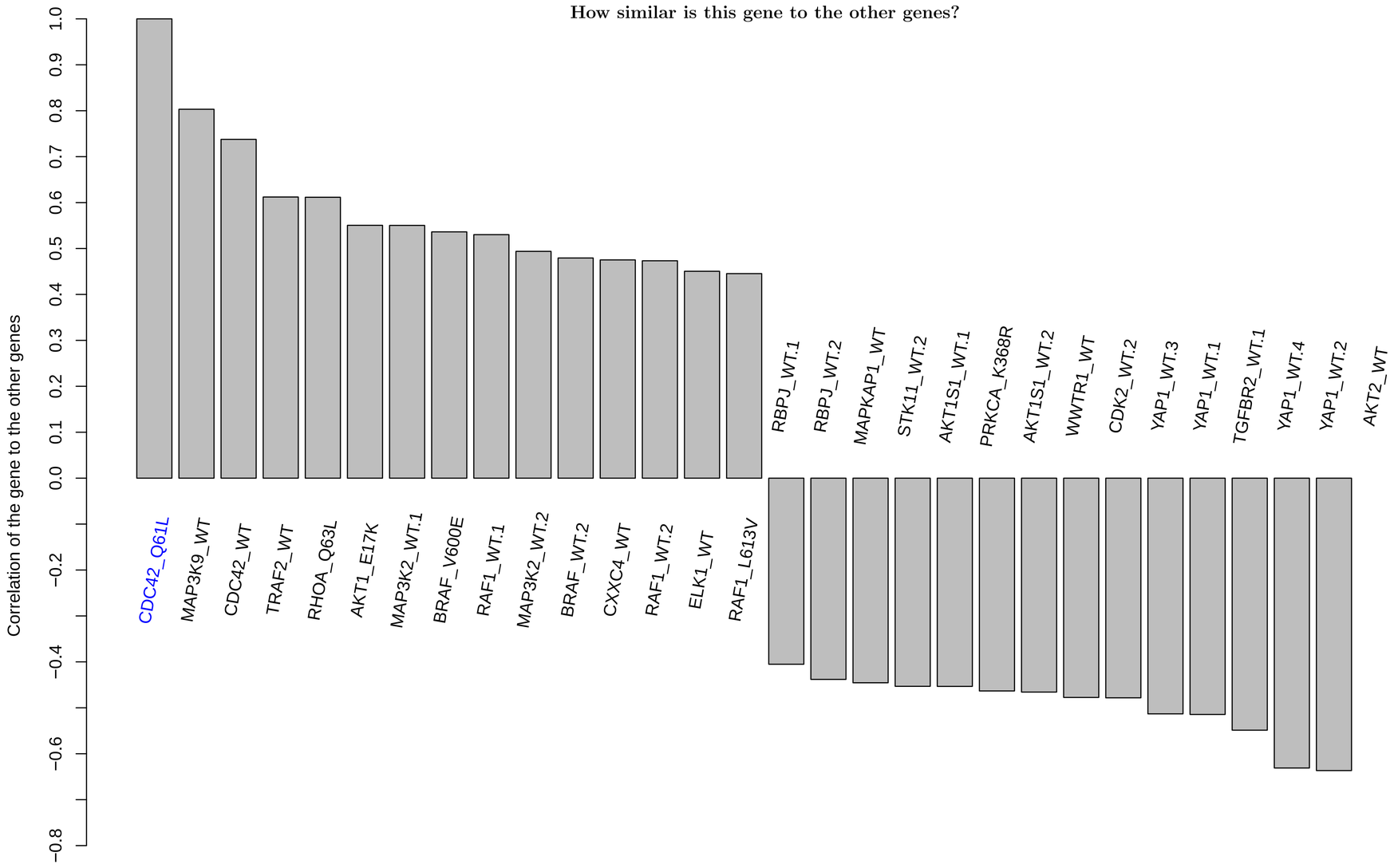
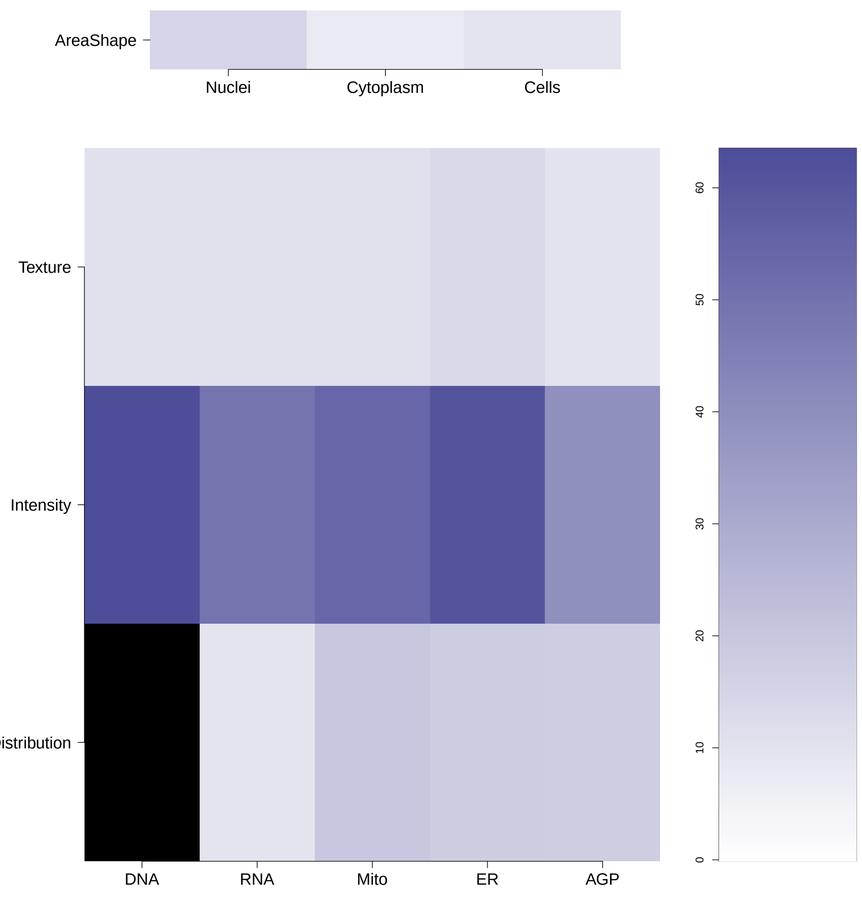
CDC42_Q61L - in Canonical Cytoskeletal Re-org

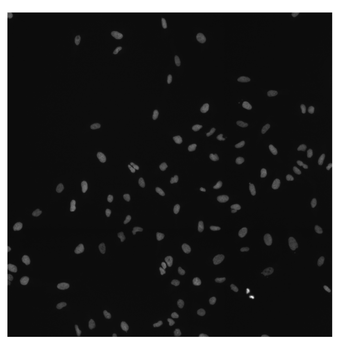
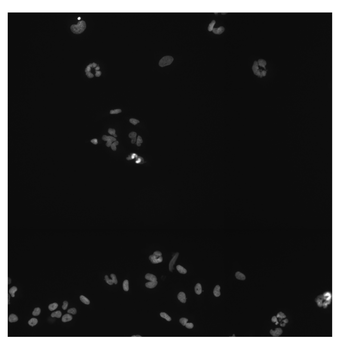
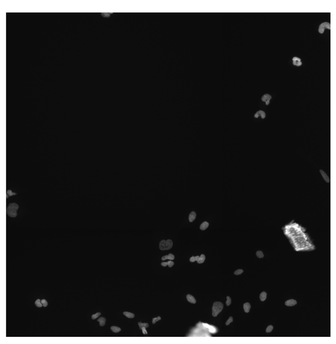
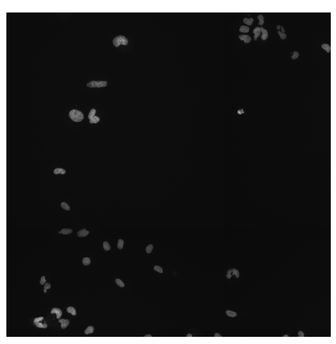
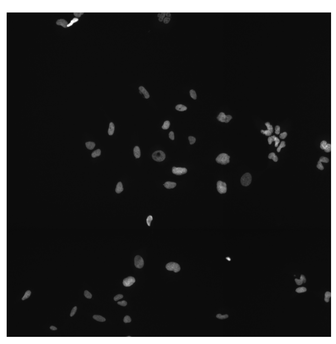
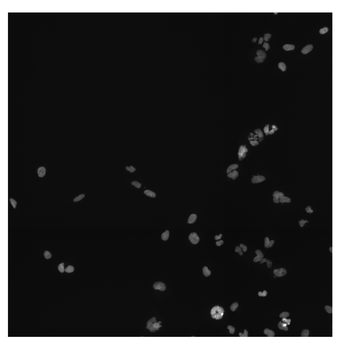
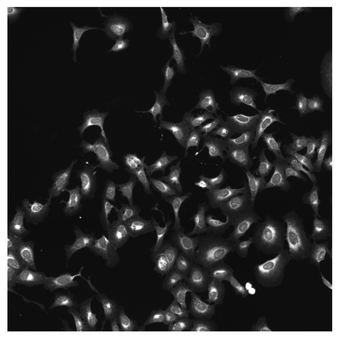
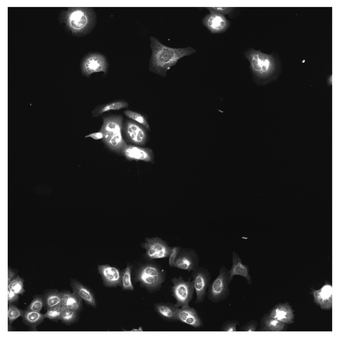
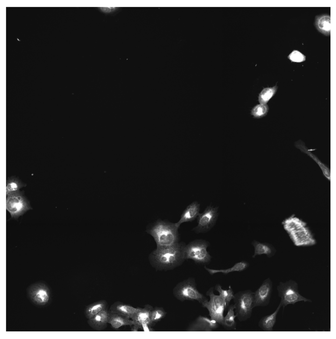
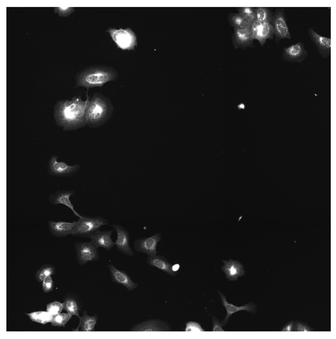
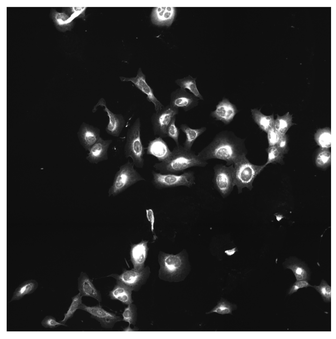
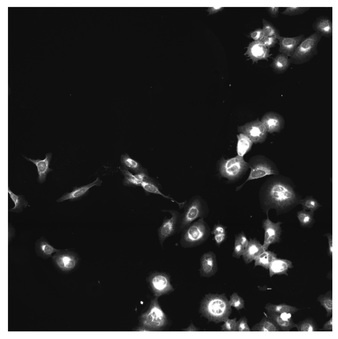
How similar is this gene to the other genes?



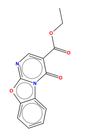
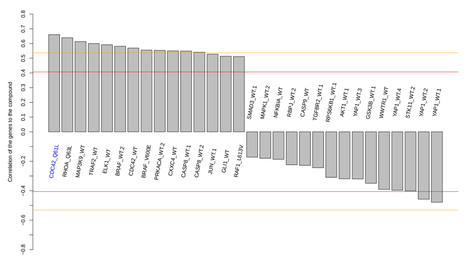
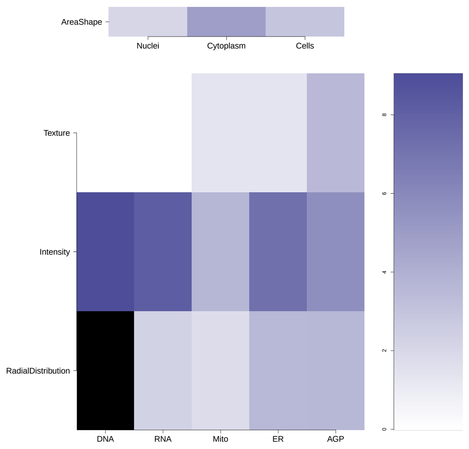
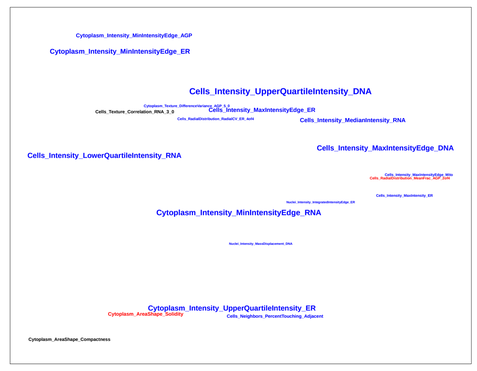
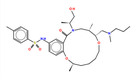
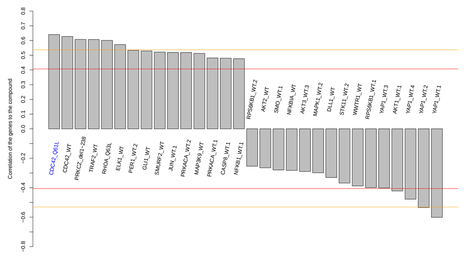
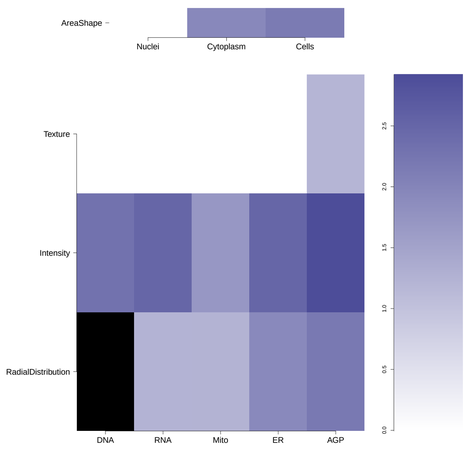
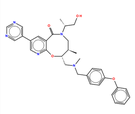
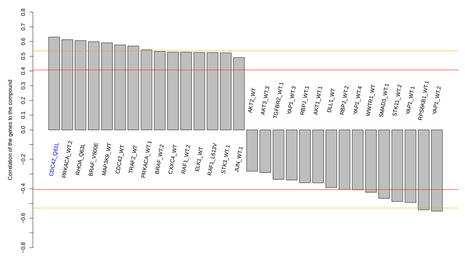
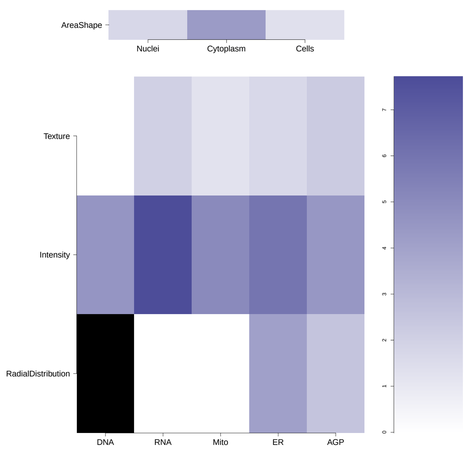
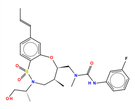
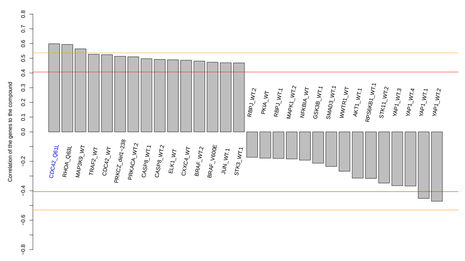
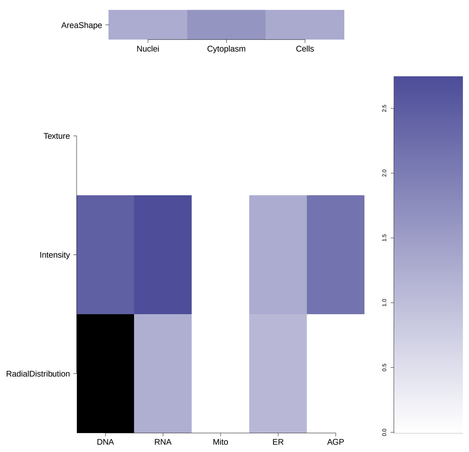
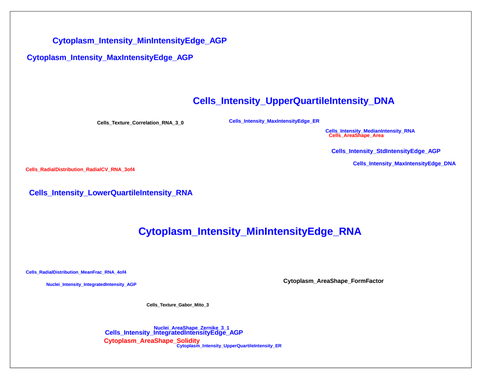
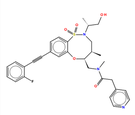
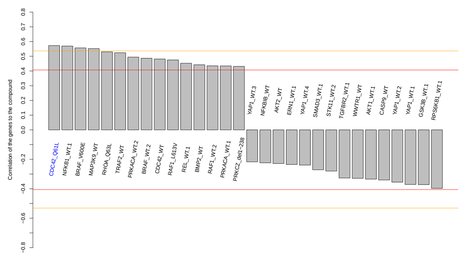
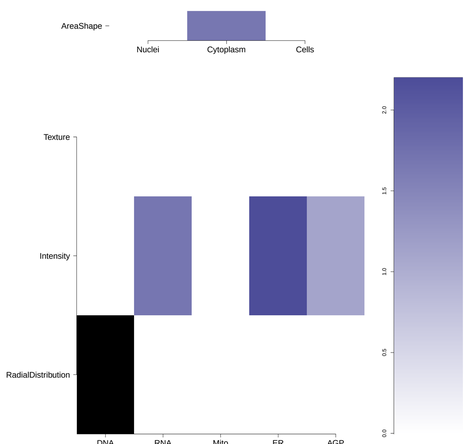
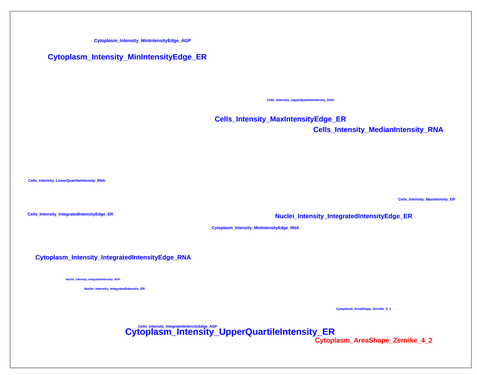
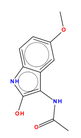
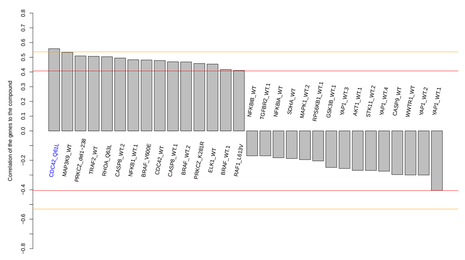
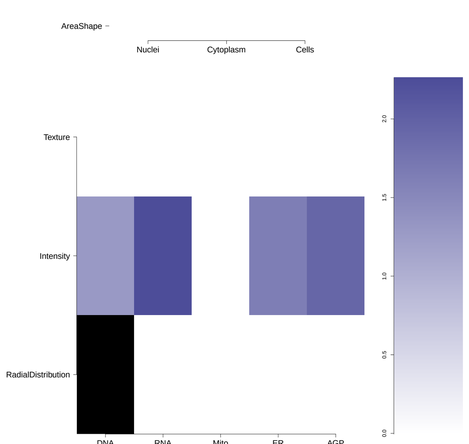
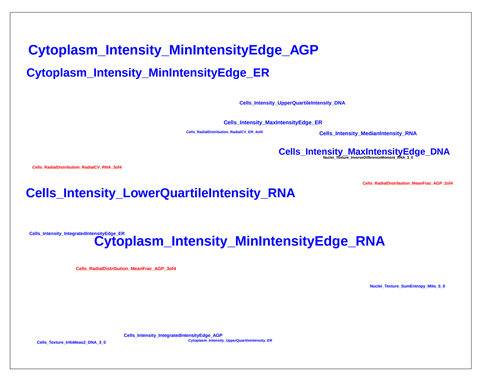
What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

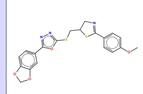
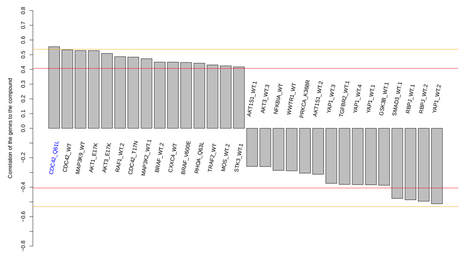
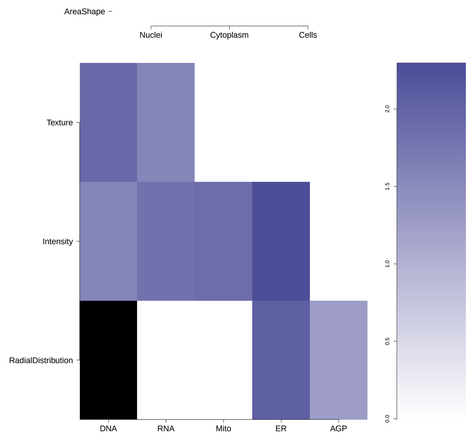
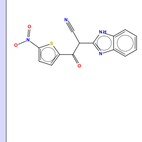
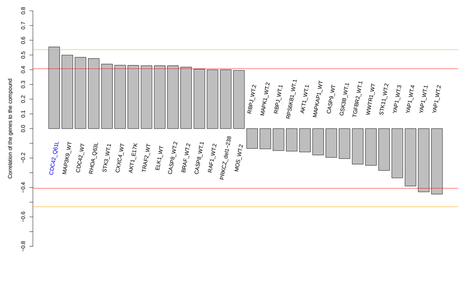
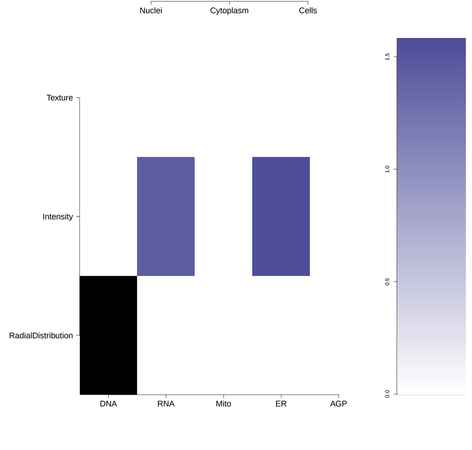
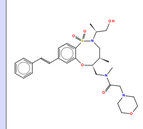
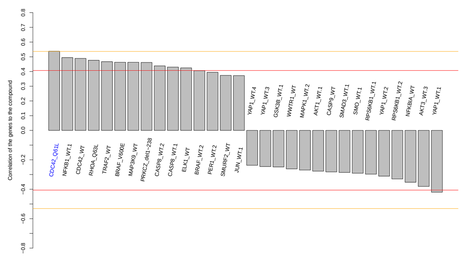
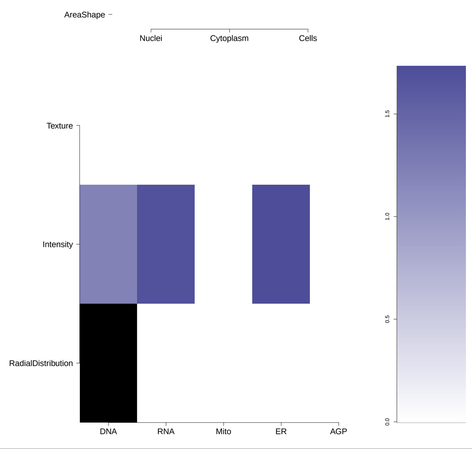
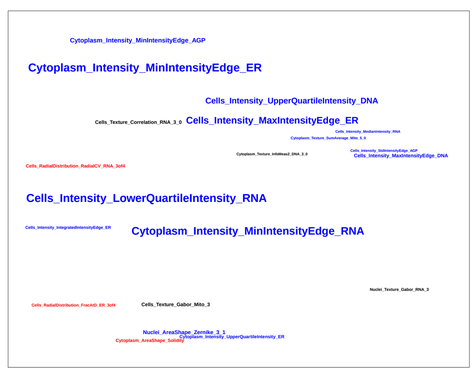


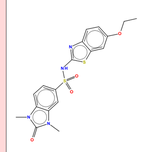
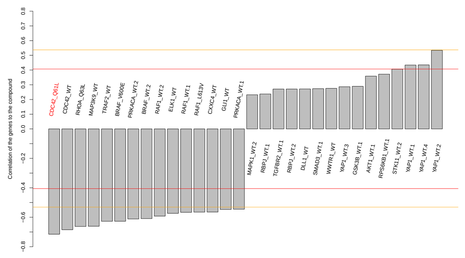
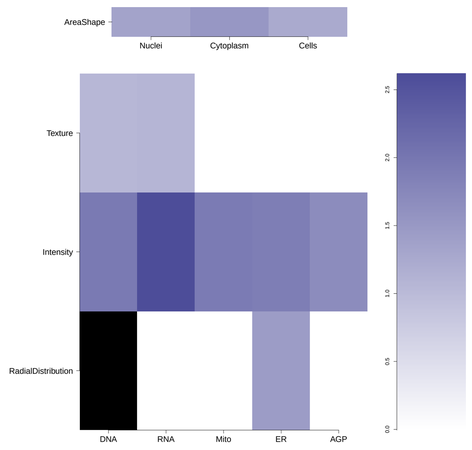
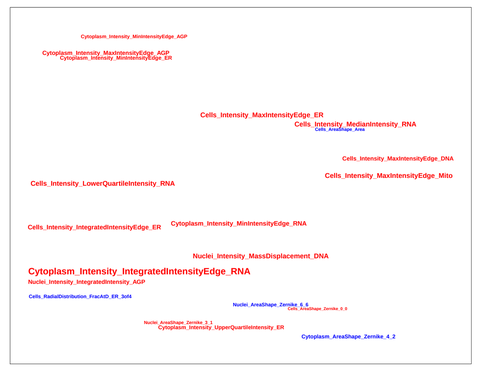
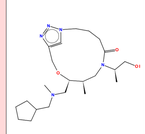
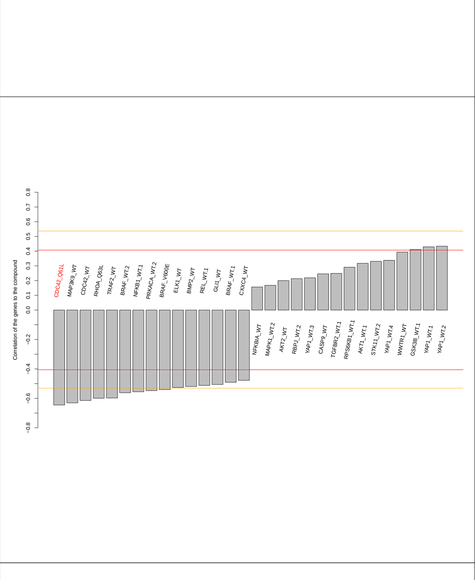
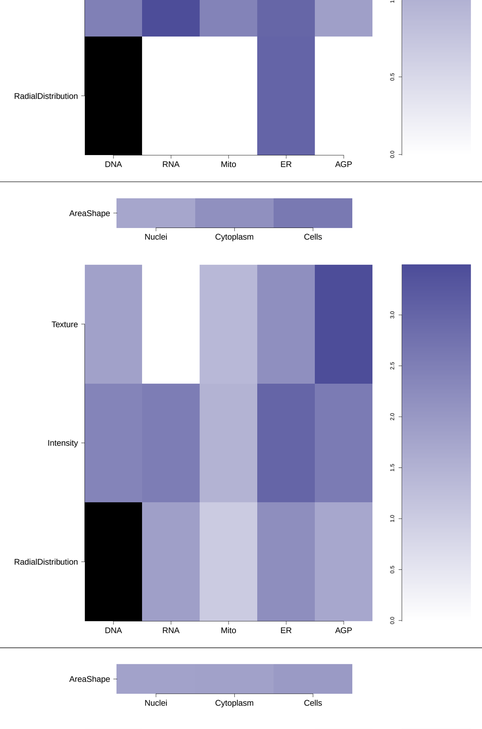
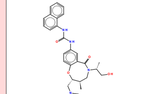
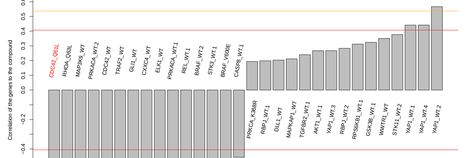
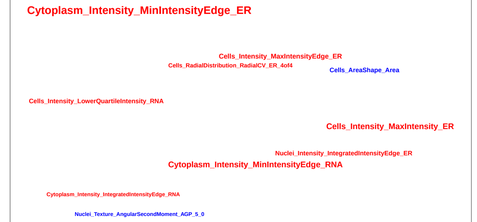
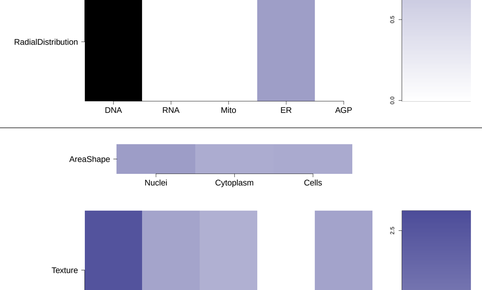
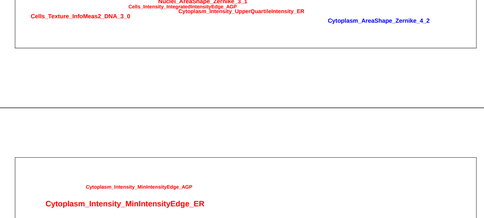
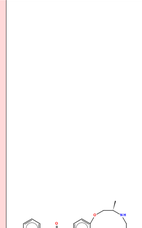
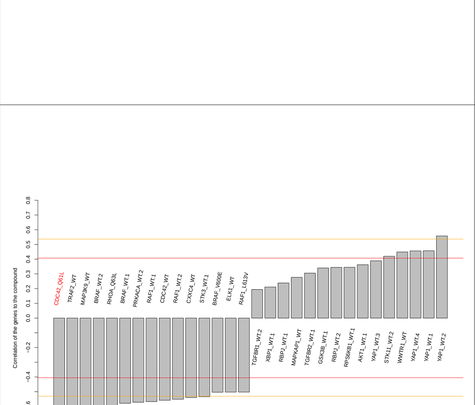
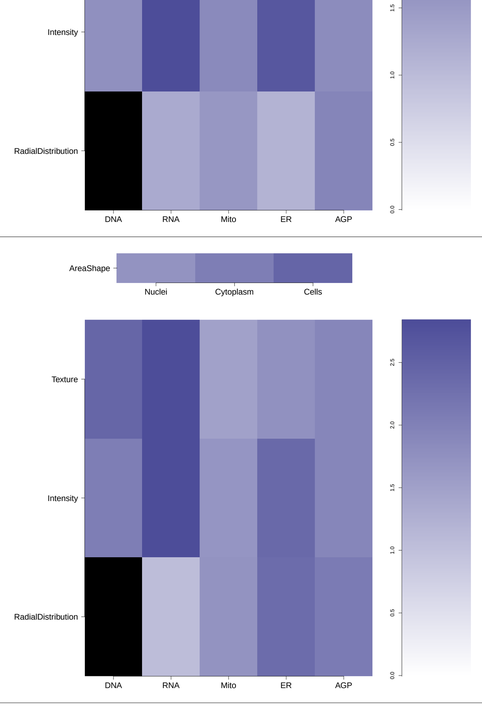
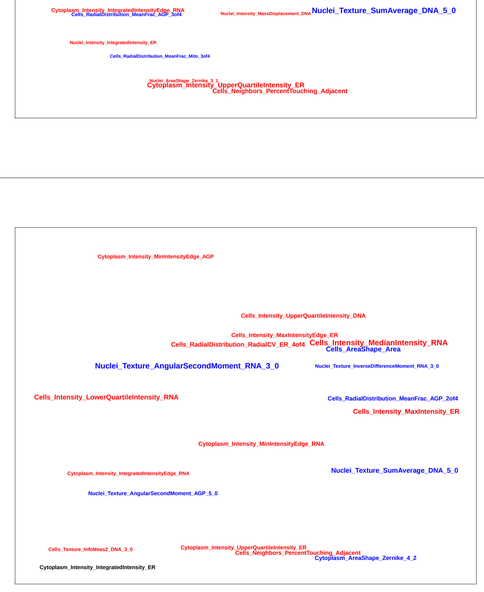
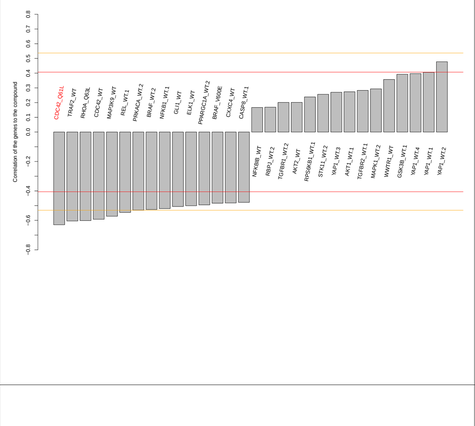
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

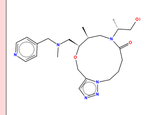
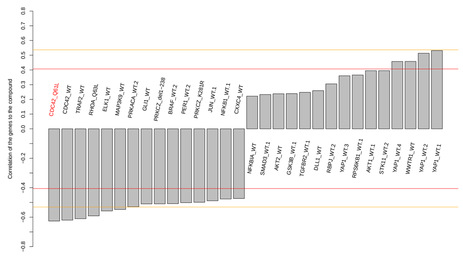
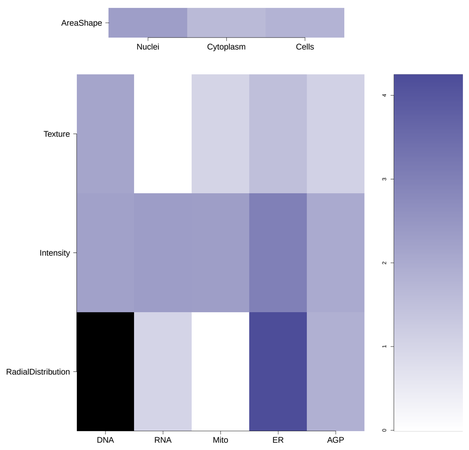
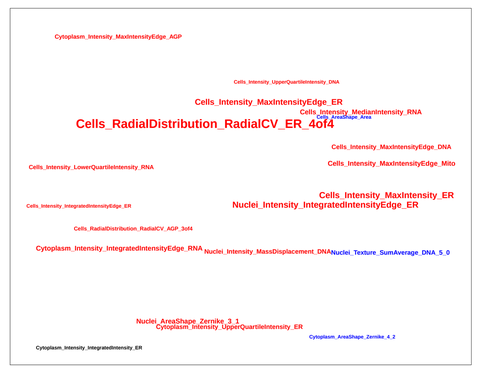
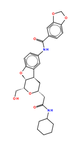
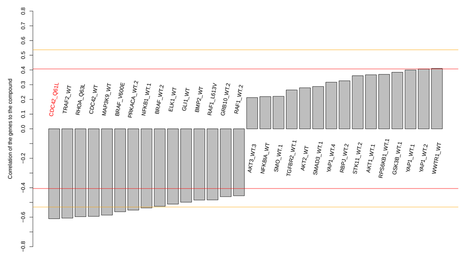
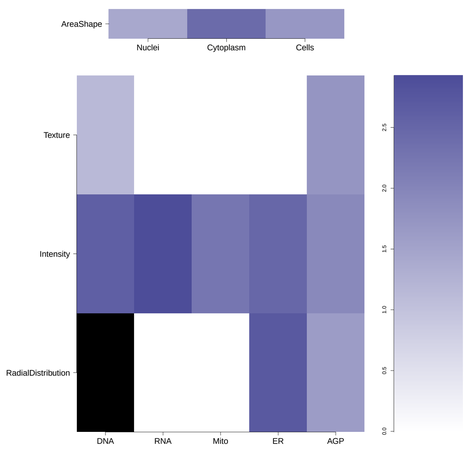
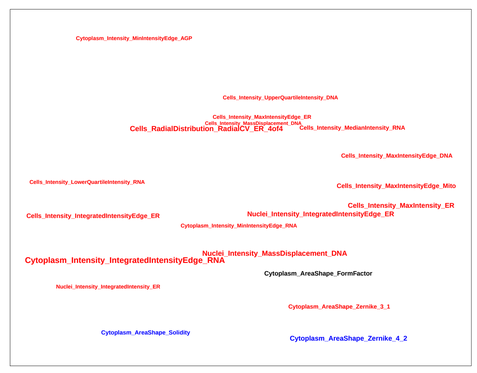
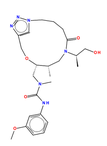
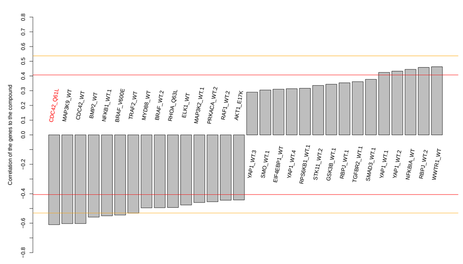
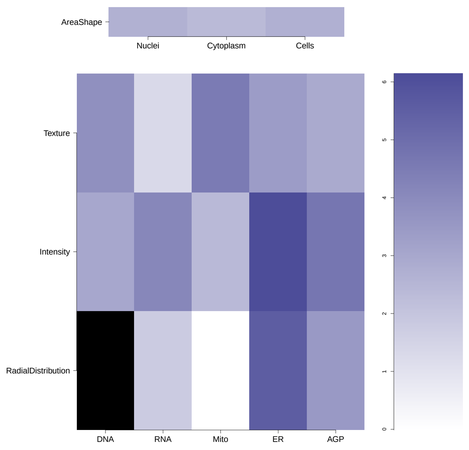
Empty	CDC42_Q61L (41744)	CDC42_Q61L (41755)	CDC42_Q61L (41756)	CDC42_Q61L (41757)	CDC42_Q61L (41754)
DNA						
ER						

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-K97424736-001-06-9 ZINC00366916 AC1LHJBH MLS001178679 HMS2845M21 ZINC366916 SMR000477411 PubChem CID : 838857		0.56 (in 2 replicates)	0.66	NA				Total number of assays tested in: 494. Active in the following assays: • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • Luminescence Microorganism Primary HTS to Identify Inhibitors of the SUMOylation Pathway Using a Temperature Sensitive Growth Reversal Mutant Mot1-301 (AID 2716)
BRD-K40708503-001-01-5 PubChem CID : 44620530		0.80 (in 4 replicates)	0.64	NA				Total number of assays tested in: 41. Active in the following assays: • MLPCN ERAP1 Measured in Biochemical System Using Plate Reader - 7016-01_Inhibitor_Dose_CherryPick_Activity (AID 743317)
BRD-K29290722-001-01-4 PubChem CID : 54618609		0.65 (in 4 replicates)	0.63	0.720				Total number of assays tested in: 23. Active in the following assays: • Small molecule inhibitors of miR122 Measured in Cell-Based System Using Plate Reader - 2144-01_Activator_SinglePoint_HTS_Activity (AID 623901) • Small molecule inhibitors of miR122 Measured in Cell-Based System Using Plate Reader - 2144-01_Activator_Dose_CherryPick_Activity (AID 651956) • Cytotoxicity Assay Measured in Cell-Based System Using Plate Reader - 2144-02_Activator_Dose_CherryPick_Activity (AID 720690)
BRD-K43419088-001-01-9 PubChem CID : 54618842		0.55 (in 3 replicates)	0.60	0.121				Total number of assays tested in: 37.
BRD-K19122760-001-01-4 PubChem CID : 54618297		0.56 (in 4 replicates)	0.57	0.720				Total number of assays tested in: 38. Active in the following assays: • Small molecule inhibitors of miR122 Measured in Cell-Based System Using Plate Reader - 2144-01_Activator_SinglePoint_HTS_Activity (AID 623901) • Small molecule inhibitors of miR122 Measured in Cell-Based System Using Plate Reader - 2144-01_Activator_Dose_CherryPick_Activity (AID 651956) • Cytotoxicity Assay Measured in Cell-Based System Using Plate Reader - 2144-02_Activator_Dose_CherryPick_Activity (AID 720690)
BRD-K48671385-001-05-1 AC1LJOOC SMR000075910 MLS000097321 HMS2332F19 ZINC620193 EU-0077969 PubChem CID : 977457		0.82 (in 4 replicates)	0.56	NA				Total number of assays tested in: 785. Active in the following assays: • Primary Cell Based High Throughput Screening Assay for Agonists of the 5-Hydroxytryptamine Receptor Subtype 1E (5HT1E) (AID 574) • Cell signaling CRE-BLA (Fsk stim) (AID 662) • CYP2C9 Assay (AID 777)

BRD-A83852736-001-06-9 T5235042 SMR000063406 AC1MHBUZ MLS000053977 MLS002635527 TCMDC-143594 HMS1727O03 HMS2385I15 PubChem CID : 2999476		0.65 (in 2 replicates)	0.55	NA				Total number of assays tested in: 805. Active in the following assays: • Screening for Modulators of Post-Golgi Transport, Control Strain (AID 738) • qHTS Assay for Inhibitors of HPGD (15-Hydroxyprostaglandin Dehydrogenase) (AID 894) • Leishmania major promastigote HTS (AID 1063) • Leishmania major promastigote HTS - primary screen repeat 1 uM (AID 1258) • Counterscreen for inhibitors of Janus kinase 2 mutant JAK2V617F: Cell-based high throughput assay to identify inhibitors of parental Ba/F3 cell viability. (AID 1486) • Luminescence Cell-Based/Microorganism Primary HTS to Identify Inhibitors of T.Cruzi Replication (AID 1885) • Leishmania major promastigote EC50 determinations (AID 2008) • Luminescence Cell-Based/Microorganism Dose Confirmation HTS to Identify Inhibitors of T.Cruzi Replication. (AID 2044) • Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the orexin 1 receptor (OX1R; HCRTR1) (AID 434989) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • 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) • qHTS for Antagonists of gsp, the Etiologic Mutation Responsible for Fibrous Dysplasia/McCune-Albright Syndrome: qHTS (AID 624288) • Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human trace amine associated receptor 1 (TAAR1) (AID 624466) • Single concentration confirmation of uHTS inhibitor hits of the mitochondrial permeability transition pore via a fluorescent based assay (AID 624504) • Trypanosoma brucei. Primary growth inhibition assay (AID 1159557) • TcCYP51 enzymatic inhibition (AID 1159558) • Trypanosoma cruzi. Primary growth inhibition assay (AID 1159559) • Leishmania donovani. Primary growth inhibition assay (AID 1159560) • Intra-macrophage L. donovani assay (AID 1159564) • Trypanosoma cruzi intracellular imaging assay (AID 1159565)
BRD-A03579949-001-06-8 ST51021638 SMR000354156 ZINC00381341 AC1NTVTU MLS001017934 MLS001167404 HMS2745L03 ZINC381341 T0506-5460 PubChem CID : 5412646		0.58 (in 4 replicates)	0.55	NA				Total number of assays tested in: 593. Active in the following assays: • Primary cell-based high-throughput screening assay for potentiators or agonists of NPY-Y1 (AID 1304) • uHTS luminescence assay for the identification of compounds that inhibit NOD1 (AID 1578) • Fluorescence counterscreen assay for potentiators or agonists of NPY-Y1: cell-based high-throughput screening assay to identify agonists of NPY-Y2. (AID 1698) • Luminescence Cell-Based/Microorganism Primary HTS to Identify Inhibitors of T.Cruzi Replication (AID 1885) • Luminescence Cell-Based Dose Response HTS Screen to Identify Cytotoxic Compounds of NIH3T3 cells. (AID 2010) • Luminescence Cell-Based/Microorganism Dose Confirmation HTS to Identify Inhibitors of T.Cruzi Replication. (AID 2044) • uHTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 7 (SENP7) (AID 434973) • 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) • uHTS identification of small molecule antagonists of the CCR6 receptor via a luminescent beta-arrestin assay (AID 493098) • 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 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) • qHTS of small molecules that selectively kill Giardia lamblia: Hit Validation. (AID 588397) • Single concentration confirmation of uHTS antagonist hits from Gli-SUFU in a luminescent reporter assay (AID 602428) • uHTS identification of small molecule inhibitors of the mitochondrial permeability transition pore via an absorbance assay (AID 602449) • qHTS screen for small molecules that inhibit ELG1-dependent DNA repair in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1: Hit Confirmation using MMS Stimulated ELG1 (AID 624249) • qHTS screen for small molecules that inhibit ELG1-dependent DNA repair: Hit Confirmation with MMS Viability (AID 624251) • uHTS identification of Caspase-8 TRAIL sensitizers in a luminesence assay (AID 624354) • Single concentration confirmation of uHTS inhibitor hits of the mitochondrial permeability transition pore via a fluorescent based assay (AID 624504) • Single concentration confirmation of Caspase-8 TRAIL sensitizer hits in a luminesence panel assay (AID 651596) • Single concentration confirmation of uHTS Gli-SUFU antagonist hits in a Wnt3a luminescent reporter assay (AID 651995) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)
BRD-K70819166-001-01-1 PubChem CID : 44499328		0.57 (in 4 replicates)	0.54	0.938				Total number of assays tested in: 47. Active in the following assays: • Small molecule inhibitors of miR122 Measured in Cell-Based System Using Plate Reader - 2144-01_Inhibitor_Dose_CherryPick_Activity (AID 652053)
BRD-K87875370-001-01-6 PubChem CID : 54619109		0.63 (in 4 replicates)	0.54	0.049				Total number of assays tested in: 38.

BRD-K15058425-001-05-2 ZINC01113695 F1560-0786 SMR000075891 AC1LPQHO MLS000097314 MLS002546301 HMS2326N09 ZINC1113695 PubChem CID : 1291706		NA (in 1 replicates)	-0.72	NA				Total number of assays tested in: 781. Active in the following assays: • qHTS Assay for Spectroscopic Profiling in 4-MU Spectral Region (AID 589) • qHTS Assay for Spectroscopic Profiling in A350 Spectral Region (AID 590) • qHTS Assay for Spectroscopic Profiling in Fluorescein Spectral Region (AID 593) • CYP2C9 Assay (AID 777) • qHTS Assay for Inhibitors of HPGD (15-Hydroxyprostaglandin Dehydrogenase) (AID 894) • RNA aptamer-based HTS for inhibitors of GRK2 (AID 488847) • qHTS Assay for Inhibitors of BAZ2B (AID 504333) • Full deck counterscreen for antagonists of the human M1 muscarinic receptor (CHRM1): Fluorescence-based cell-based high throughput screening assay to identify nonselective inhibitors and assay artifacts using the parental CHOK1 cell line (AID 602250) • Fluorescence-based biochemical primary high throughput screening assay to identify molecules that bind r(CAG) RNA repeats (AID 651821) • Counterscreen for molecules that bind rCAG RNA repeats: fluorescent based biochemical counterscreen assay for inhibitors of the DNA-based (5'CAG/3'GTC) TO-PRO-1 dye complex (AID 652068)
BRD-K95369587-001-01-9 PubChem CID : 44505050		0.76 (in 3 replicates)	-0.66	0.280				Total number of assays tested in: 43.
BRD-K28258038-001-01-1 PubChem CID : 54633982		0.64 (in 3 replicates)	-0.65	0.280				Total number of assays tested in: 36.
BRD-K17360472-001-02-9 MLS003129709 SMR001834155 PubChem CID : 44485743		0.75 (in 3 replicates)	-0.65	0.280				Total number of assays tested in: 96. Active in the following assays: • SMM_ID4 Measured in Biochemical System Using Small Molecule MicroArray - 2128-01_Other_SinglePoint_HTS_Activity (AID 624137)
BRD-K91399333-001-01-7 PubChem CID : 44490007		0.60 (in 3 replicates)	-0.64	0.248				Total number of assays tested in: 57.
BRD-K32535831-001-01-5 PubChem CID : 54633979		0.69 (in 3 replicates)	-0.63	0.280				Total number of assays tested in: 36.
BRD-K57140889-001-01-5 PubChem CID : 54632228		0.79 (in 4 replicates)	-0.63	0.280				Total number of assays tested in: 35.

BRD-K42800143-001-01-4 PubChem CID : 44495438		0.57 (in 3 replicates)	-0.63	0.920				Total number of assays tested in: 33.
BRD-K19808762-001-01-6 PubChem CID : 54646446		0.89 (in 4 replicates)	-0.61	0.280				Total number of assays tested in: 38.
BRD-K27835062-001-01-6 PubChem CID : 44505633		0.85 (in 3 replicates)	-0.61	0.929				Total number of assays tested in: 26.