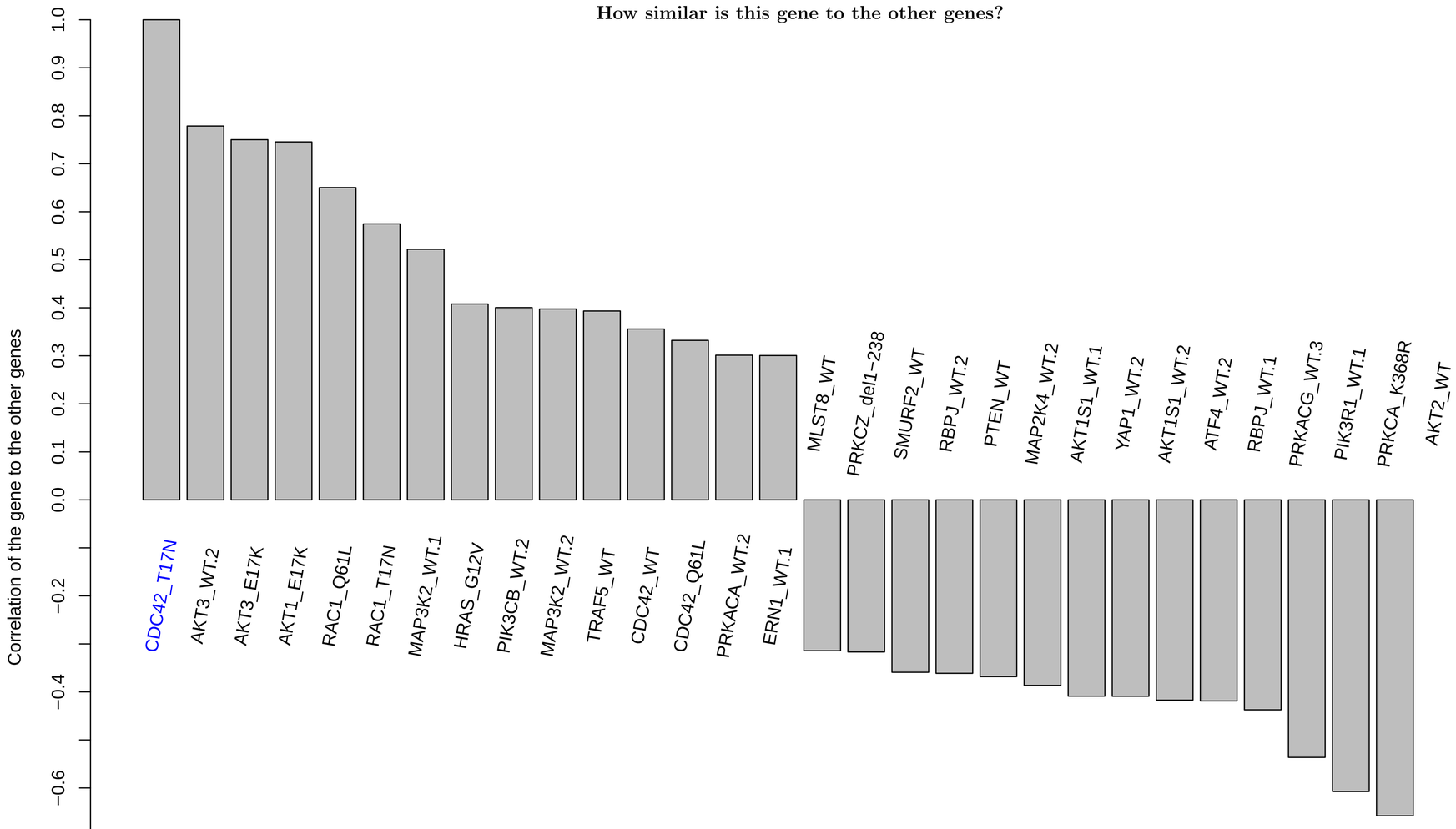
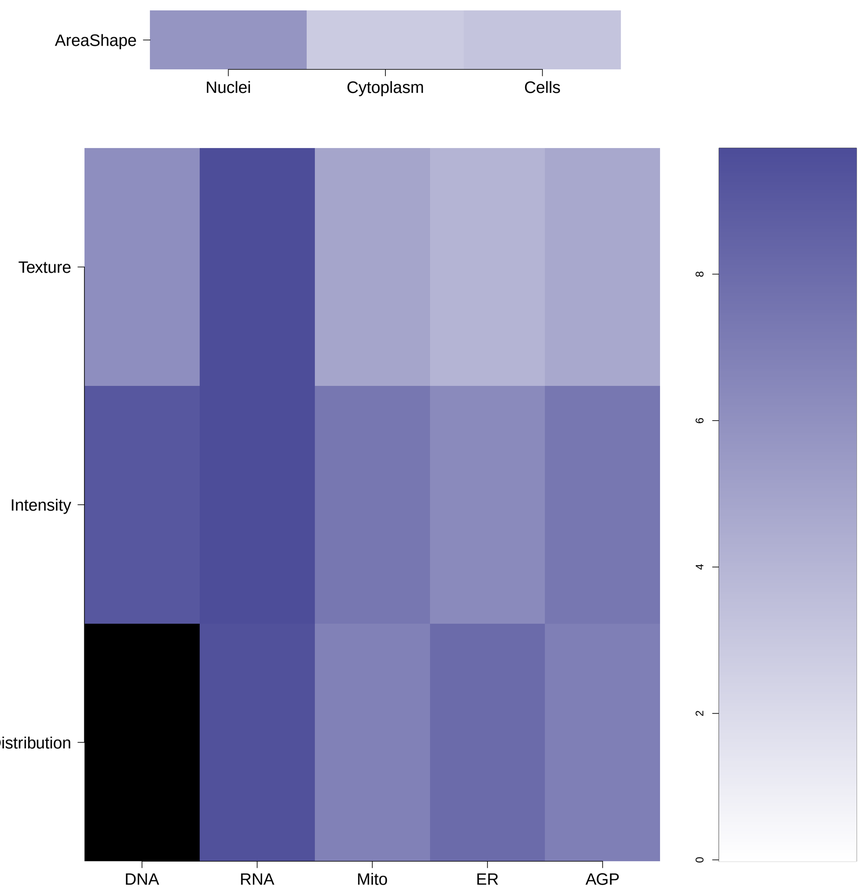
CDC42_T17N - in Canonical Cytoskeletal Re-org

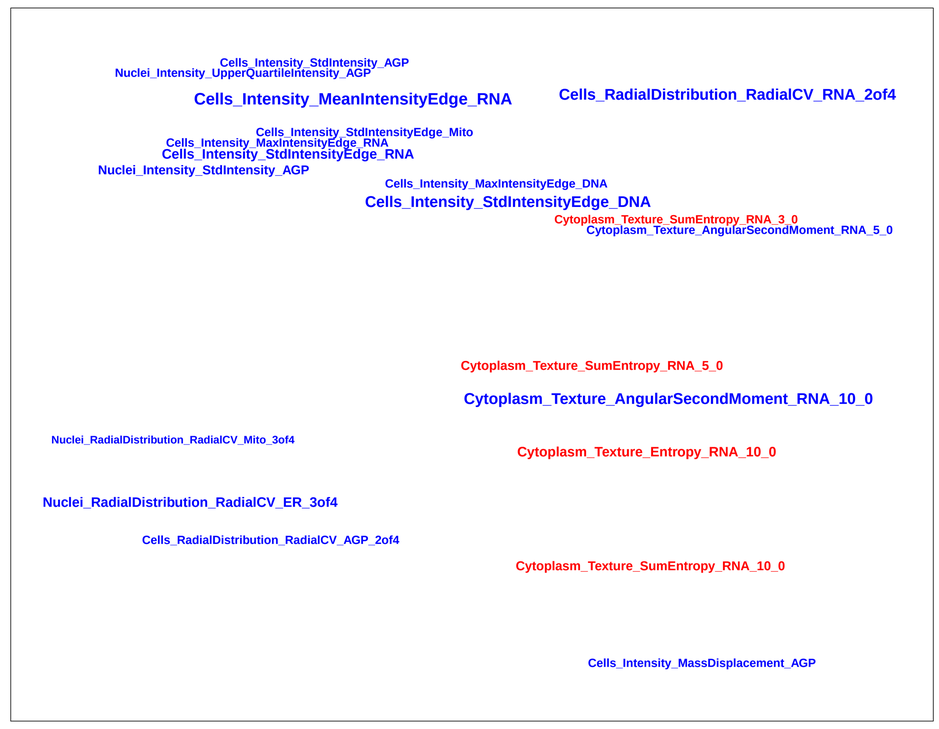
How similar is this gene to the other genes?

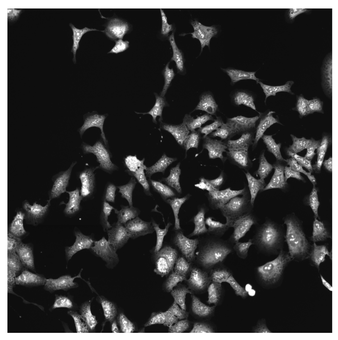
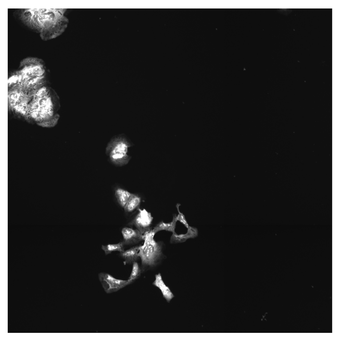
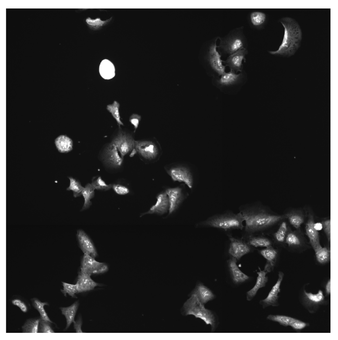
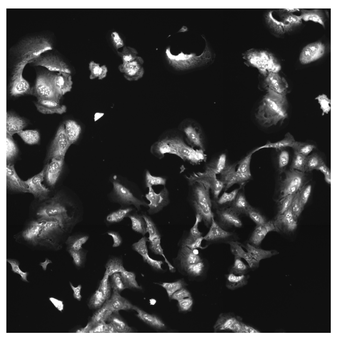
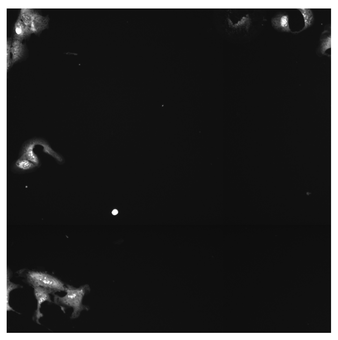
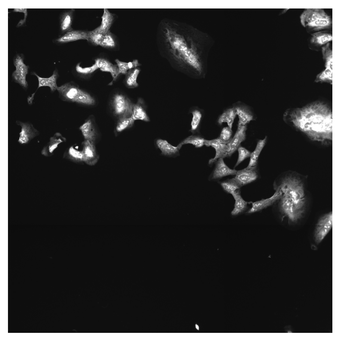
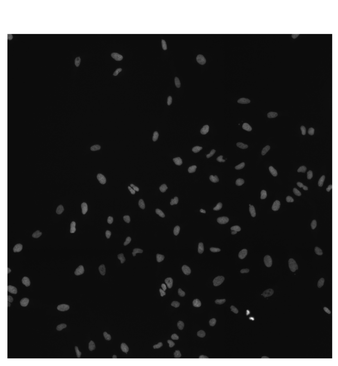
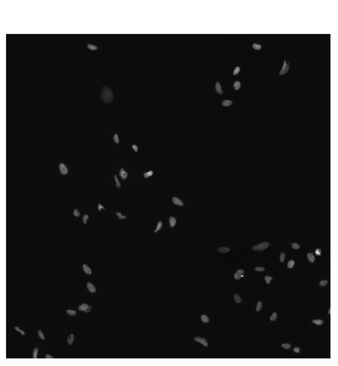
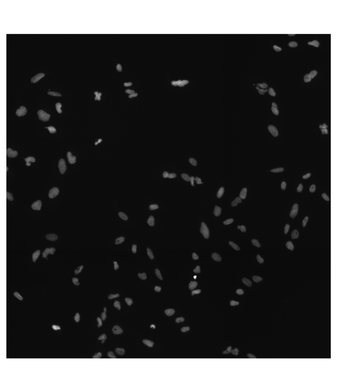
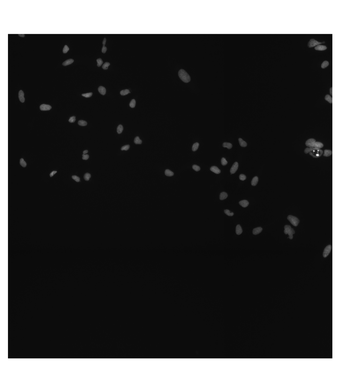


What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

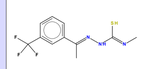
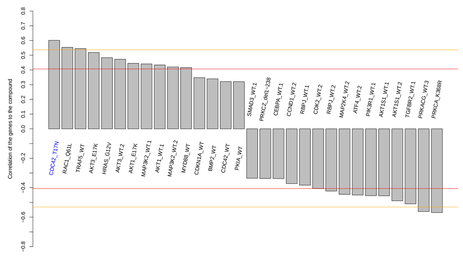
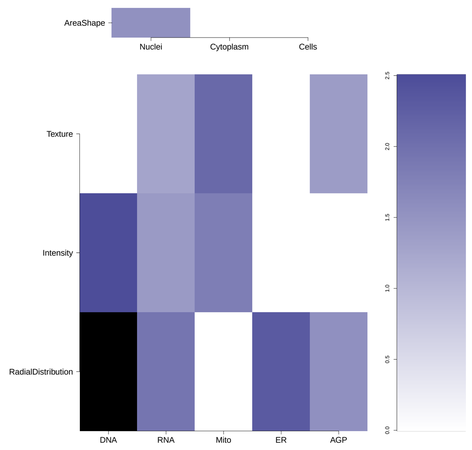
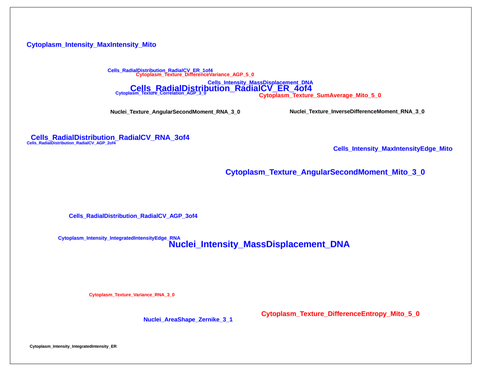
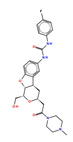
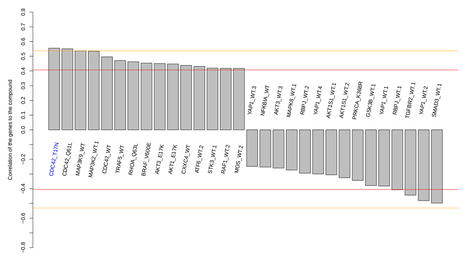
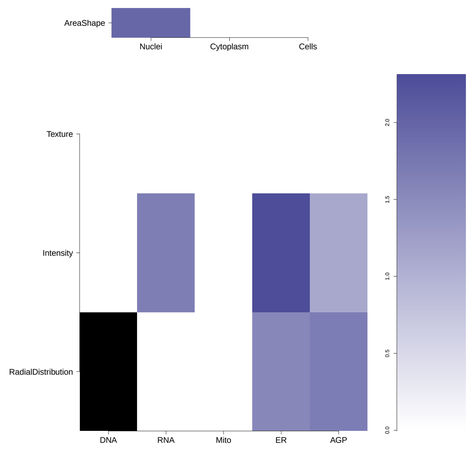
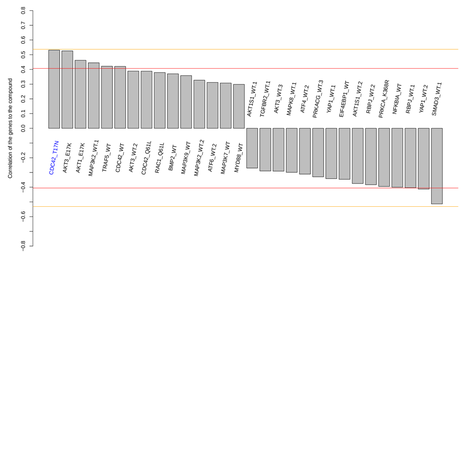
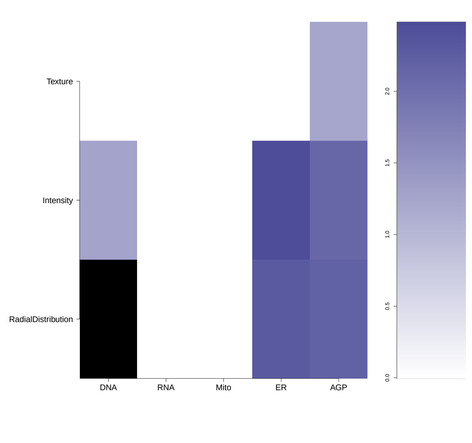


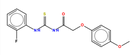
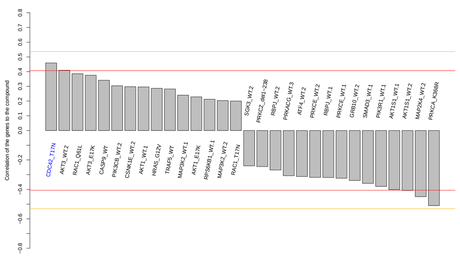
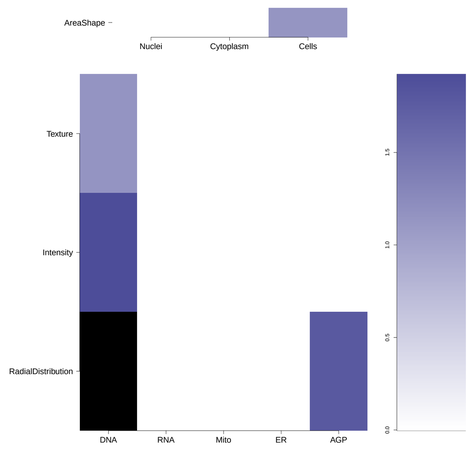
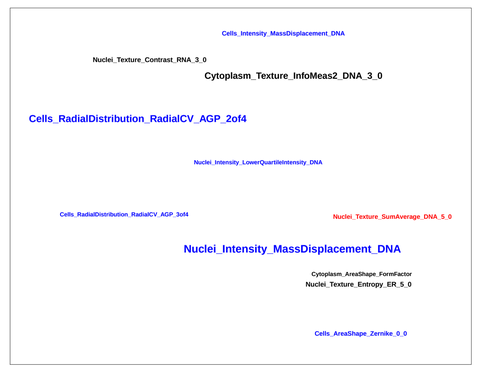
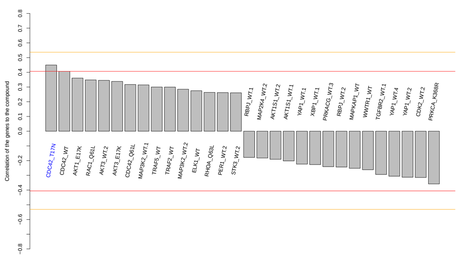
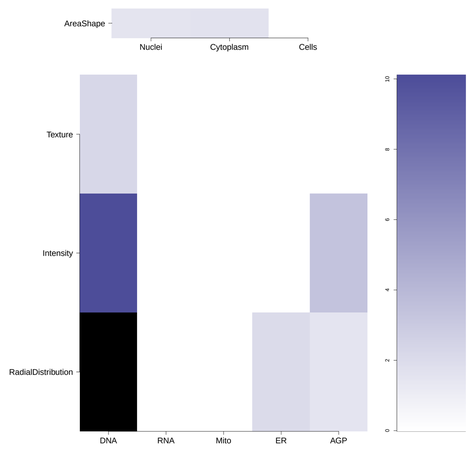
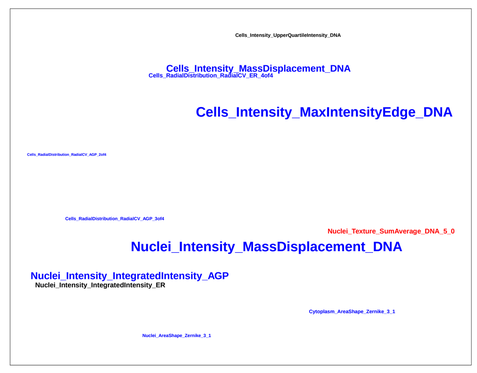
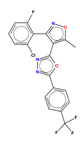
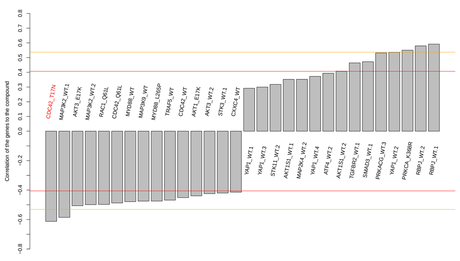
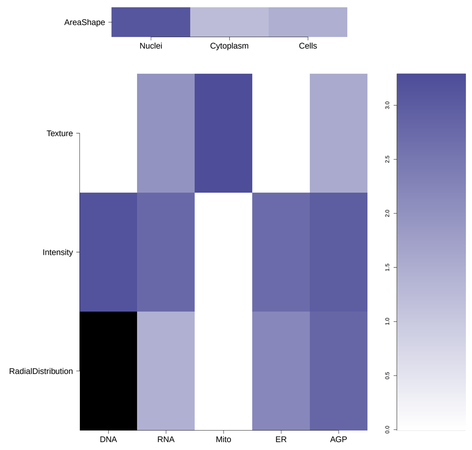
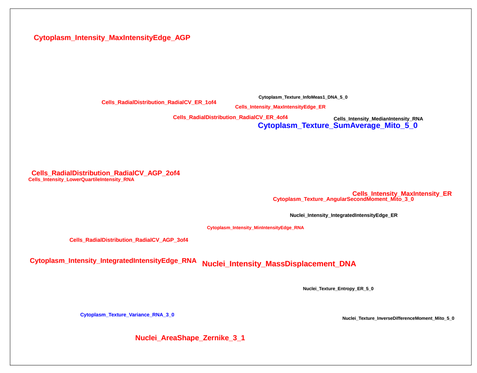
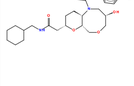
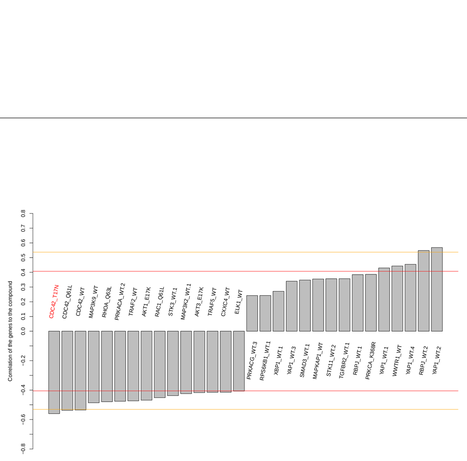
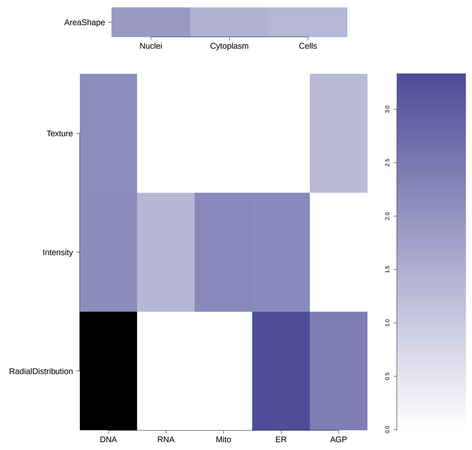
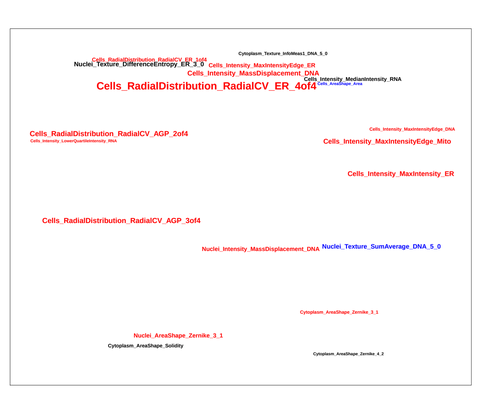
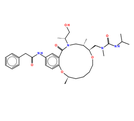
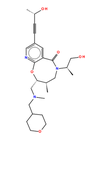
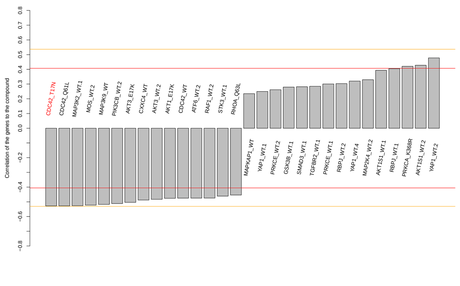
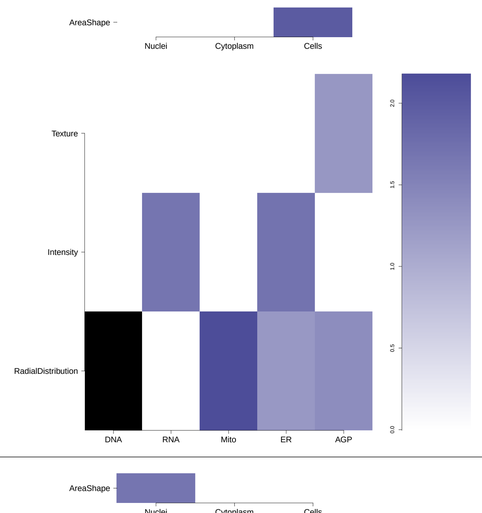
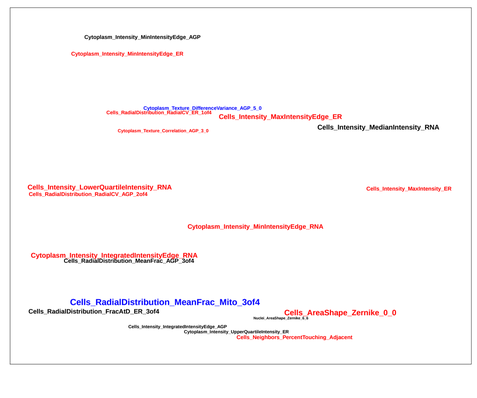
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

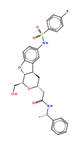
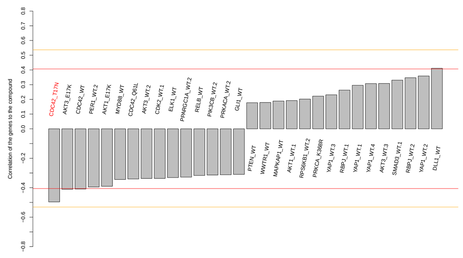
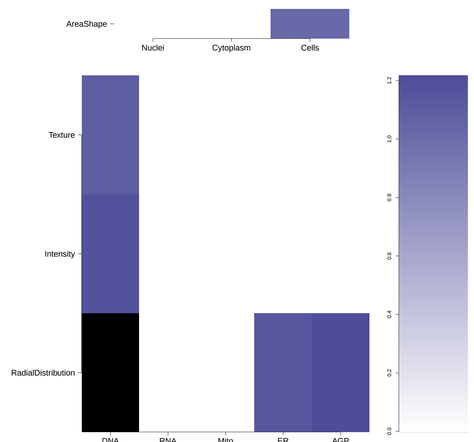
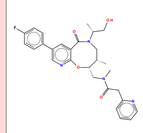
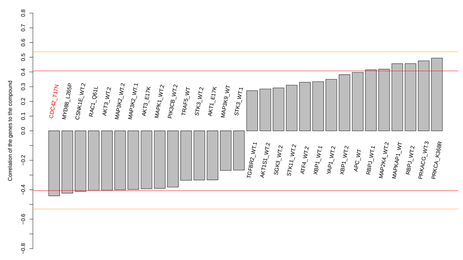
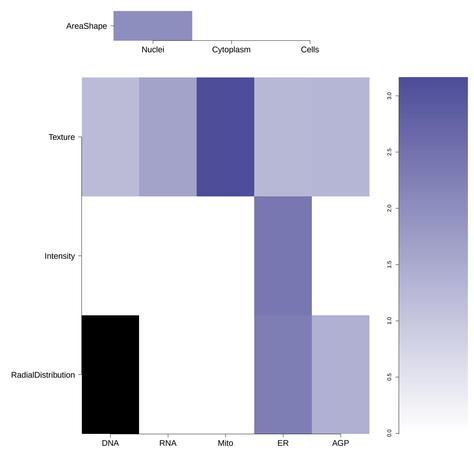
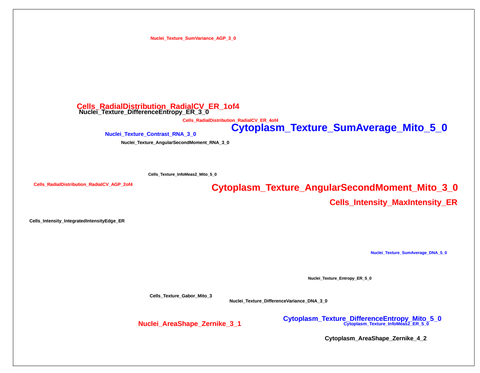
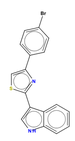
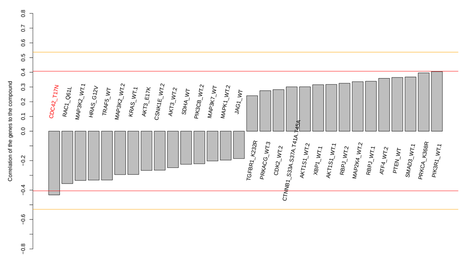
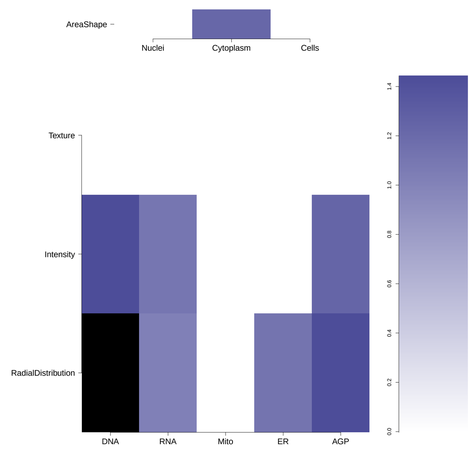
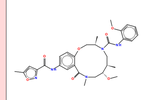
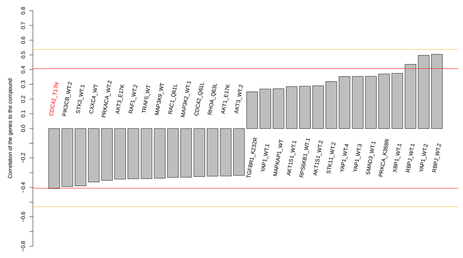
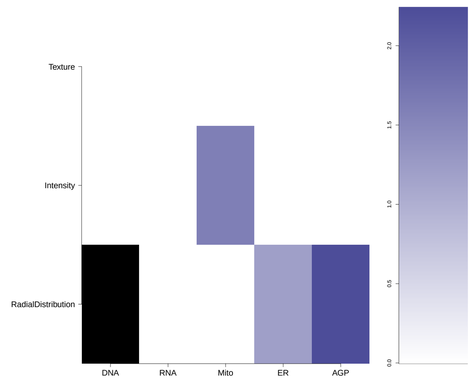
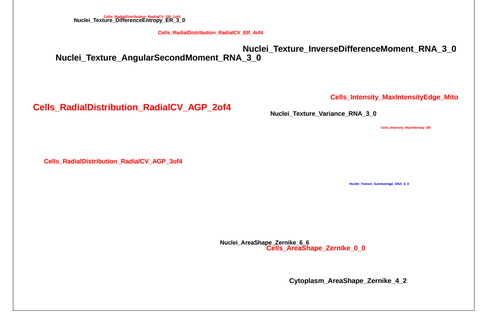


	Empty	CDC42_T17N (41744)	CDC42_T17N (41755)	CDC42_T17N (41756)	CDC42_T17N (41757)	CDC42_T17N (41754)
RNA						
DNA						

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-K03796490-001-05-1 T0509-9695 MLS001003678 HMS1763D10 ZINC6374094 SMR000347571 PubChem CID : 9622493		NA (in 1 replicates)	0.60	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-K85264253-001-01-7 PubChem CID : 54647901		0.63 (in 2 replicates)	0.55	NA				Total number of assays tested in: 36.
BRD-K65416179-001-05-9 MLS000096952 STK127773 SMR000074749 ZINC01130712 AC1LPEM9 BDBM33059 HMS2275C11 ZINC1130712 PubChem CID : 1305820		0.55 (in 2 replicates)	0.53	NA				Total number of assays tested in: 749. Active in the following assays: • HIV-1 RT-RNase H MLSCN HTS MH077605 (AID 565) • 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) • HIV-1 RT-RNase H MLSCN HTS MH077605 Confirmation Assay (AID 651) • HIV-1 RT-RNase H MLSCN MH077605 Probe Assessment: Dose response Assay (AID 652) • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • qHTS Assay for Inhibitors of HADH2 (Hydroxyacyl-Coenzyme A Dehydrogenase, Type II) (AID 886) • qHTS Assay for Inhibitors of 15-hLO (15-human lipoxygenase) (AID 887) • qHTS Assay for Inhibitors of HSD17B4, hydroxysteroid (17-beta) dehydrogenase 4 (AID 893) • qHTS Assay for Inhibitors of HPGD (15-Hydroxyprostaglandin Dehydrogenase) (AID 894) • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • HTS identification of compounds inhibiting phosphomannose isomerase (PMI) via a fluorescence intensity assay. (AID 1209) • Chemical Genetic Screen to Identify Inhibitors of Mitochondrial Fusion - Primary Screen (AID 1362) • qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490) • HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732) • HTS Assay for Allosteric Antagonists of the Human D2 Dopamine Receptor: Primary Screen for Antagonists (AID 485344) • Elucidation of physiology of non-replicating, drug-tolerant Mycobacterium tuberculosis (AID 488890) • A Cell Based Secondary Assay to Explore Compounds that Modulate Non-Replicating, Drug-tolerant Compounds in Replicating H37Rv TB of Mycobacterium tuberculosis (AID 492952) • Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of human platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (PAFAH1B2) (AID 492953) • uHTS identification of APOBEC3G DNA Deaminase Inhibitors via a fluorescence-based single-stranded DNA deaminase assay (AID 493012) • Fluorescence polarization-based biochemical high throughput confirmation assay for inhibitors of human platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (PAFAH1B2) (AID 493034) • Single concentration confirmation of uHTS for APOBEC3G DNA Deaminase Inhibitors via a fluorescence-based single-stranded DNA deaminase assay (AID 493152) • uHTS identification of small molecule inhibitors of Plasmodium falciparum Glucose-6-phosphate dehydrogenase via a fluorescence intensity assay (AID 504690) • Inhibitors of the vitamin D receptor (VDR): qHTS (AID 504847) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a: Hit Confirmation (AID 588344) • qHTS for Inhibitors of the vitamin D receptor (VDR): Hit Validation in Primary Screen (AID 602199) • Fluorescence-based cell-based primary high throughput screening assay to identify inhibitors of the interaction of nucleotide-binding oligomerization domain containing 2 (NOD2) and the receptor-interacting serine-threonine kinase 2 (RIPK2) (AID 624267) • qHTS for Inhibitors of WRN Helicase (AID 651768) • 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 PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504)
BRD-K32464623-001-06-9 MLS000775327 HMS2753L15 ZINC13637891 SMR000368401 PubChem CID : 9614758		NA (in 1 replicates)	0.50	NA				Total number of assays tested in: 570. Active in the following assays: • Luminescence Microorganism Primary HTS to Identify Inhibitors of the SUMOylation Pathway Using a Temperature Sensitive Growth Reversal Mutant Mot1-301 (AID 2716) • qHTS Assay for Inhibitors of BAZ2B (AID 504333) • uHTS fluorescent assay for identification of inhibitors of ATG4B (AID 504462) • uHTS Fluorescent Assay Using Nedd8 Protein Substrate for Identification of Inhibitors of Sentrin-Specific Protease 8 (SENP8) (AID 602440) • Fluorescence polarization-based biochemical primary high throughput screening assay to identify inhibitors of ADP-ribosylation factor GTPase activating protein 1 (ARFGAP1) (AID 651572) • 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 Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279)

BRD-K10476649-001-05-1 STK036892 AC1LOOA0 MLS000698108 HMS2592G19 ZINC1000709 SMR000226043 PubChem CID : 1224430		NA (in 1 replicates)	0.46	NA				Total number of assays tested in: 627. 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 with KCC2 cells (AID 1713) • 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: Secondary Assay 2 with KCC2 cells (AID 1715) • 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: Retesting of KCC2 cells with Ouabain (AID 1717) • Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Counterscreen 2 with HEK cells (AID 1718) • Primary cell-based screen for identification of compounds that inhibit the Choline Transporter (CHT) (AID 488975) • Confirmatory screen for compounds that inhibit the Choline Transporter (CHT) (AID 493221) • 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)
BRD-K36130407-001-01-5 PubChem CID : 54657759		0.61 (in 4 replicates)	0.45	0.016				Total number of assays tested in: 40. Active in the following assays: • Screen for inhibitors of the SWI/SNF chromatin remodeling complex (esBAF) in mouse embryonic stem cells with Luciferase reporter assay Measured in Cell-Based System Using Plate Reader - 2141-01_Inhibitor_Dose_CherryPick_Activity (AID 651717)
BRD-K04968712-001-05-7 MLS000858711 SMR000458790 AC1MDPY6 BDBM45738 HMS2811A04 ZINC1034543 ZINC01034543 PubChem CID : 2814981		NA (in 1 replicates)	-0.61	NA				Total number of assays tested in: 545. Active in the following assays: • Factor XIIa 1536 HTS (AID 800) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 48 hour incubation (AID 504832) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834) • Confirmation screen for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504848) • Confirmation screen for delayed death inhibitors of the malarial parasite plastid, 48 hour incubation (AID 504850) • qHTS for induction of synthetic lethality in tumor cells producing 2HG: qHTS for the HT-1080-IDH1KD cell line (AID 686971)
BRD-K89505656-001-01-2 PubChem CID : 44494377		0.70 (in 4 replicates)	-0.56	NA				Total number of assays tested in: 51.
BRD-K27824357-001-01-4 PubChem CID : 54618409		0.76 (in 4 replicates)	-0.53	0.042				Total number of assays tested in: 37.
BRD-K33903208-001-01-9 PubCHEM CID : 44506100		0.57 (in 4 replicates)	-0.51	0.969				Total number of assays tested in: 27.
BRD-K02490064-001-01-7 PubCHEM CID : 44496446		0.72 (in 4 replicates)	-0.50	NA				Total number of assays tested in: 49. Active in the following assays: • HTS for the detection of C. neoformans cell lysis via adenylate kinase (AK) release Measured in Microorganism System Using Plate Reader - 2162-01_Inhibitor_SinglePoint_HTS_Activity (AID 651654) • IC50 with Alamar Blue Measured in Microorganism System Using Plate Reader - 2162-02_Inhibitor_Dose_CherryPick_Activity (AID 686998)

BRD-K08306736-001-01-7 PubChem CID : 54645948		NA (in 1 replicates)	-0.50	0.335				Total number of assays tested in: 40.
BRD-K46718584-001-01-0 PubChem CID : 54618515		0.67 (in 4 replicates)	-0.44	0.335				Total number of assays tested in: 37.
BRD-K34876632-001-05-3 F3284-8116 MLS000574098 AC1NUF2T AC1Q24PG HMS2304G14 SMR000195683 PubChem CID : 5450844		NA (in 1 replicates)	-0.43	NA				Total number of assays tested in: 663. 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 re-activators of p53 using a Luc reporter (AID 504706) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • Screen for inhibitors of the SWI/SNF chromatin remodeling complex (esBAF) in mouse embryonic stem cells with Luciferase reporter assay Measured in Cell-Based System Using Plate Reader - 2141-01_Inhibitor_SinglePoint_HTS_Activity (AID 602393) • qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820) • qHTS for Agonist of cAMP-regulated guanine nucleotide exchange factor 4 (EPAC2): primary screen (AID 720711)
BRD-K31846842-001-01-4 PubChem CID : 54631520		0.53 (in 4 replicates)	-0.41	0.335				Total number of assays tested in: 29.