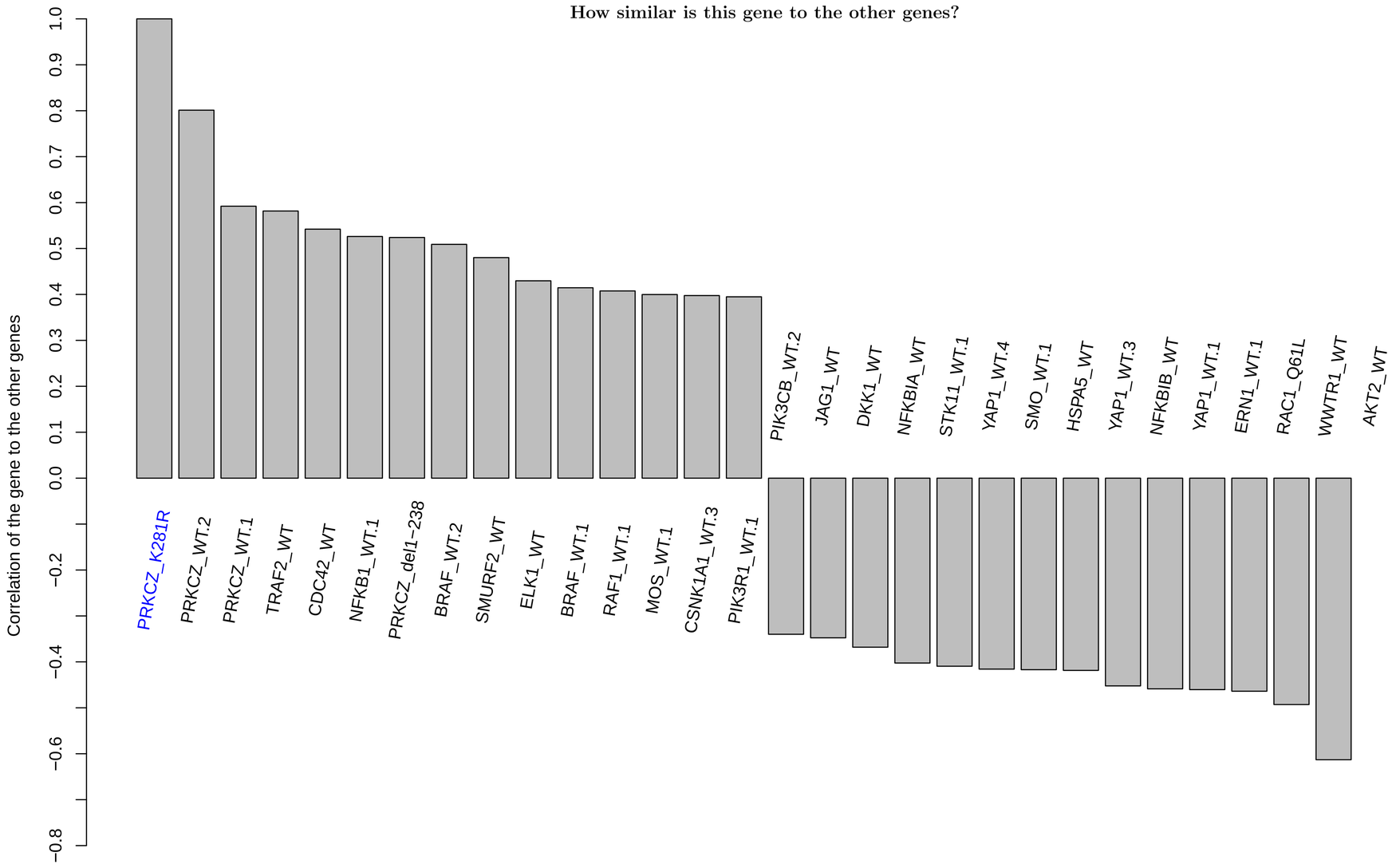
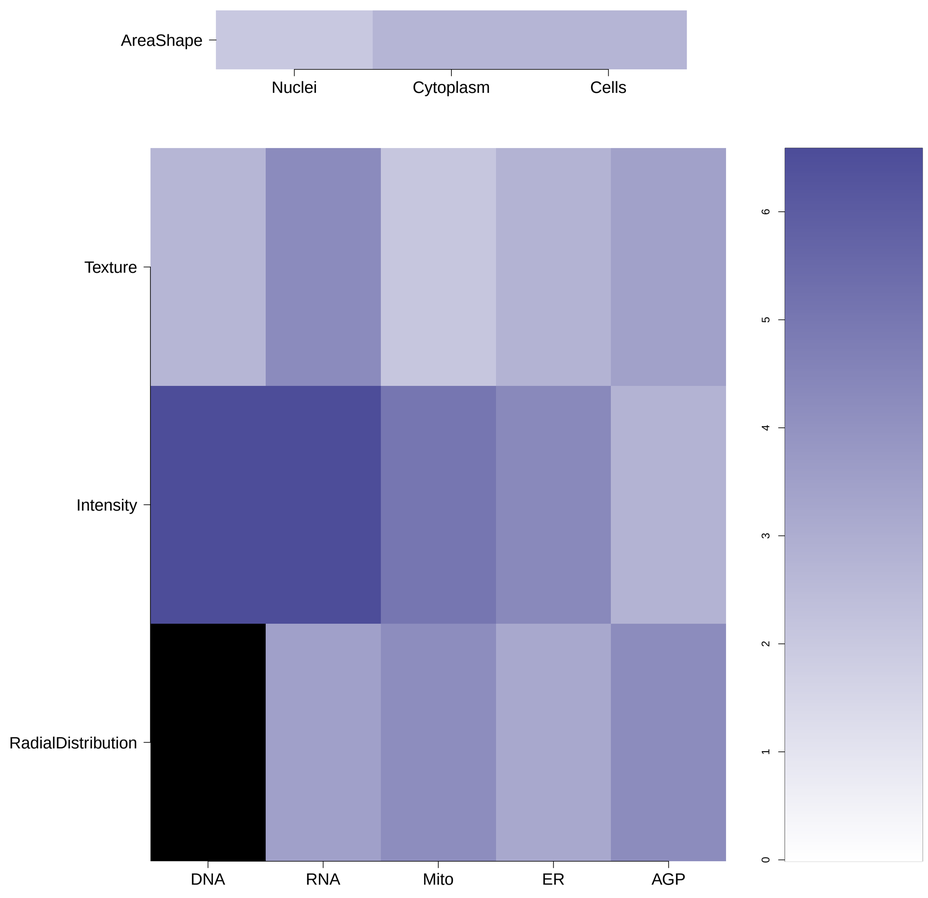
PRKCZ_K281R - in Canonical PKC

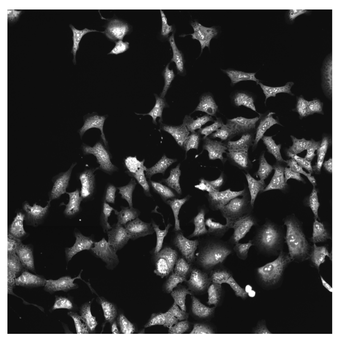
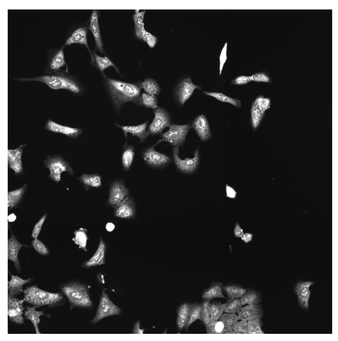
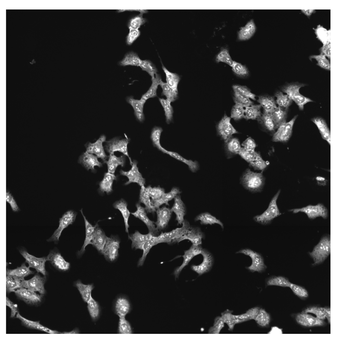
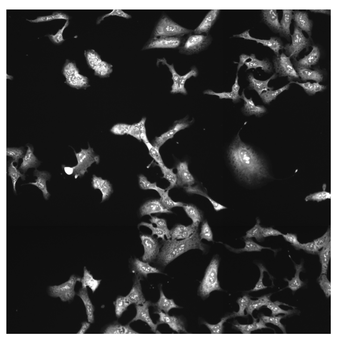
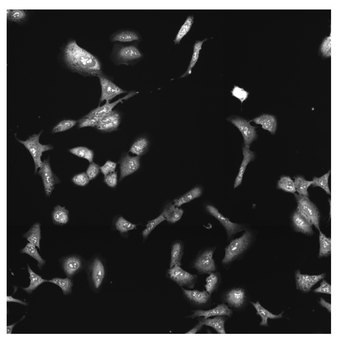
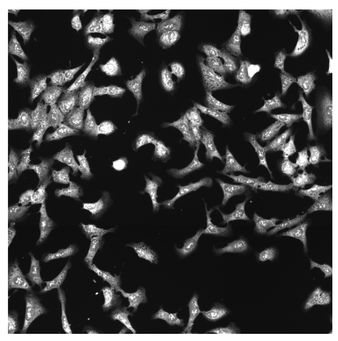
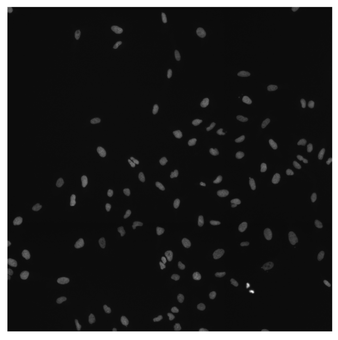
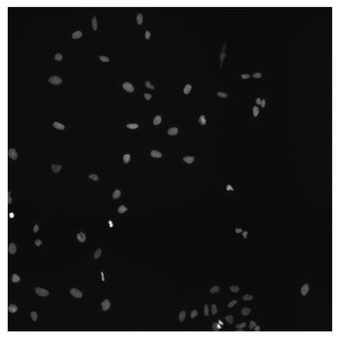
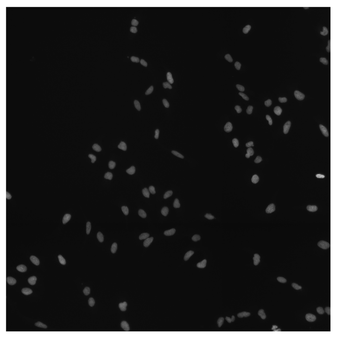
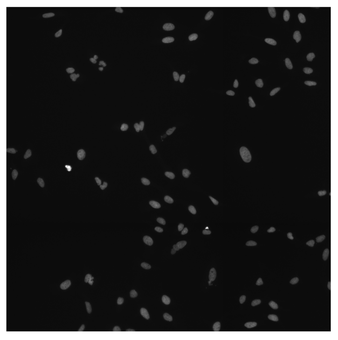
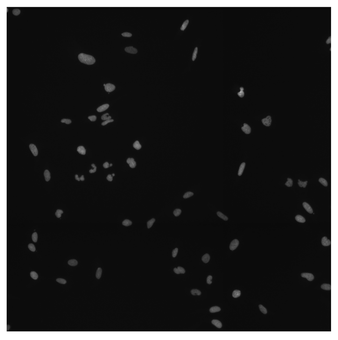
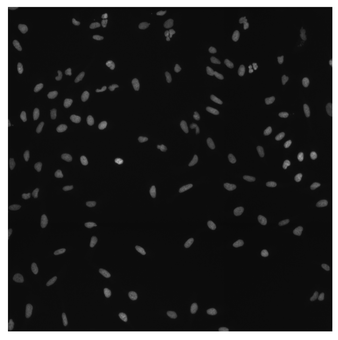
How similar is this gene to the other genes?



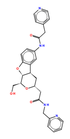
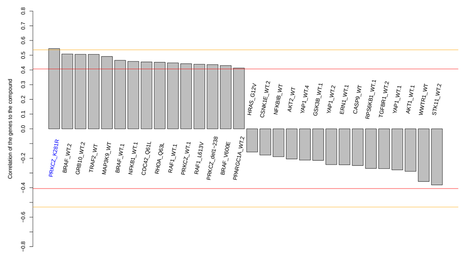
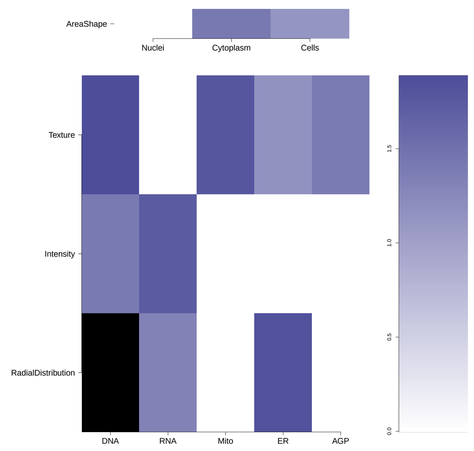
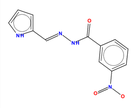
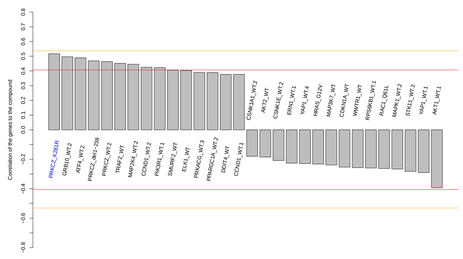
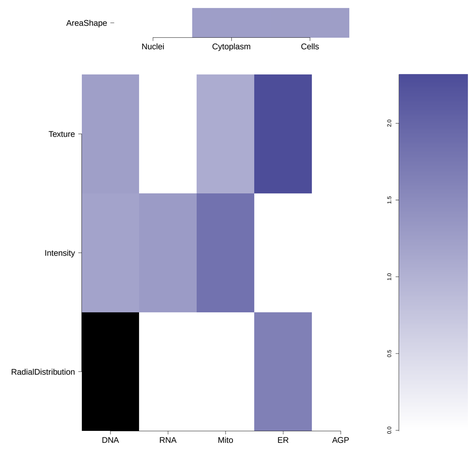
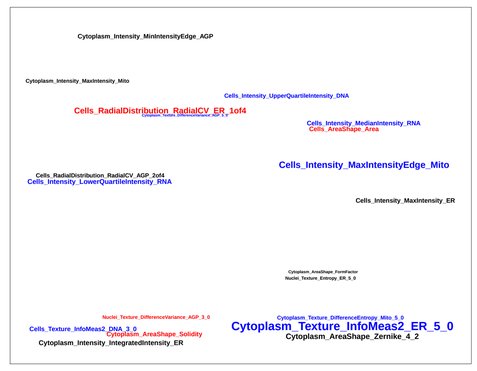
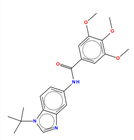
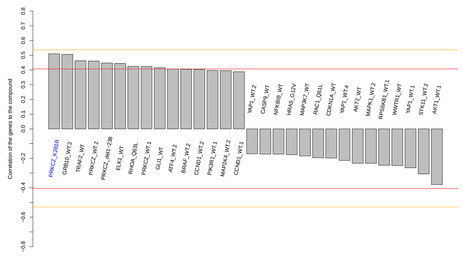
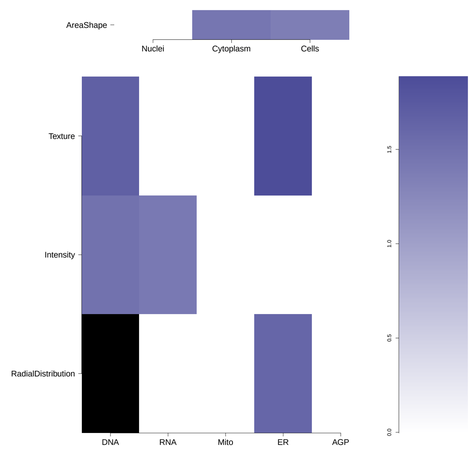
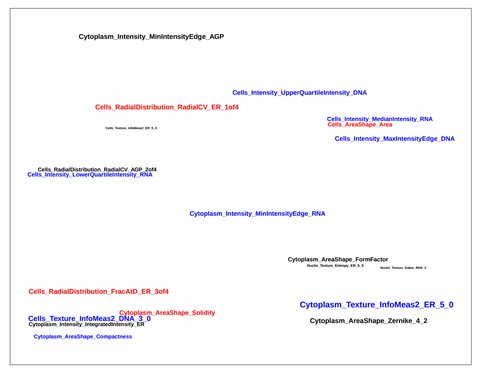
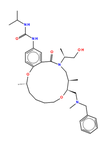
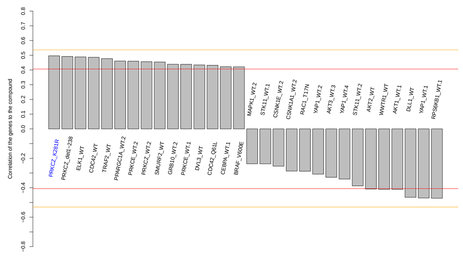
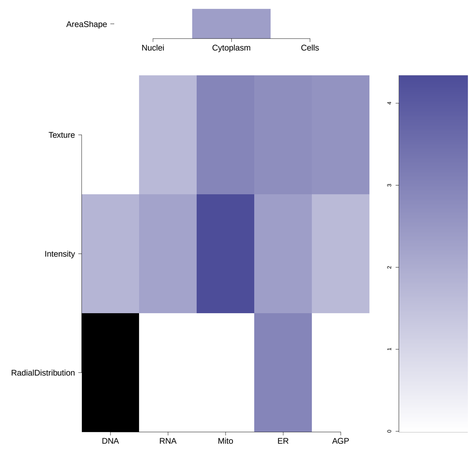
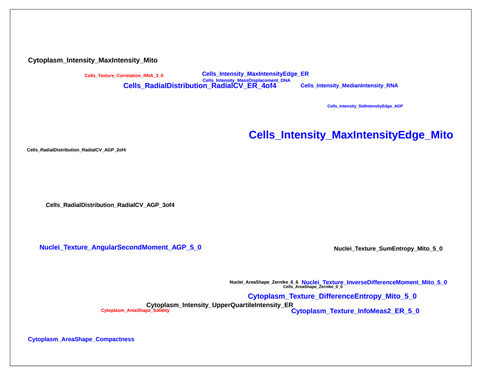
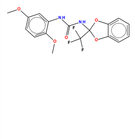
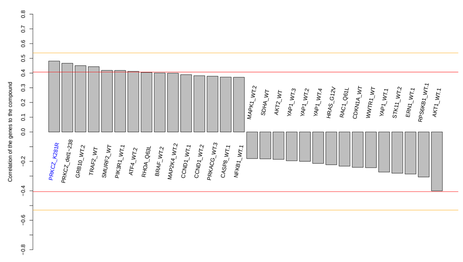
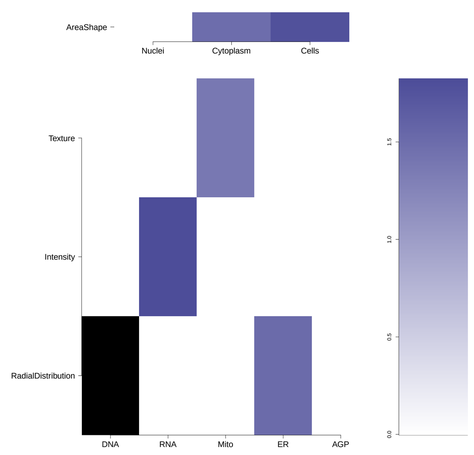
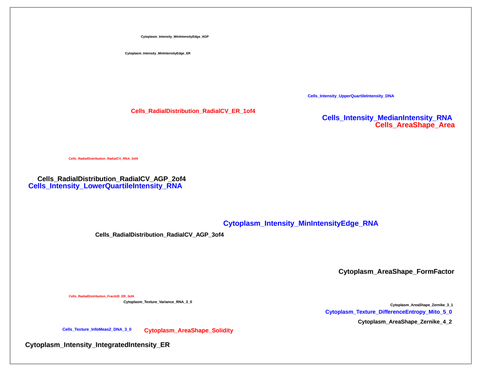
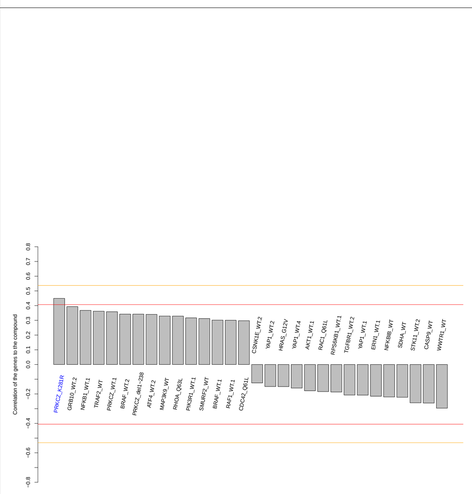
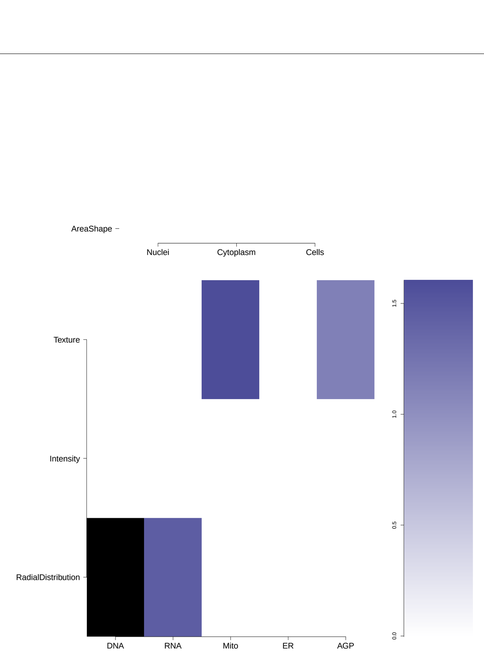
What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

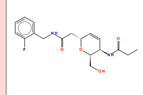
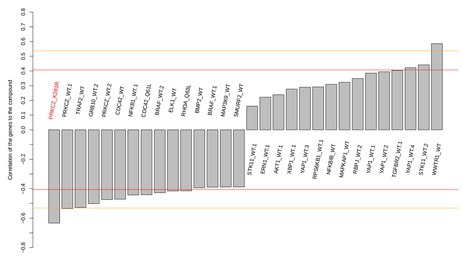
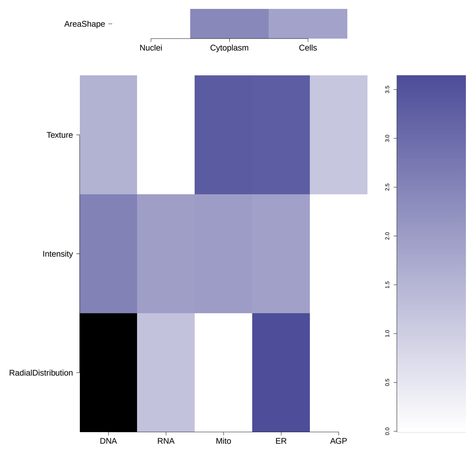
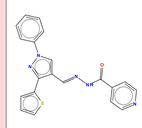
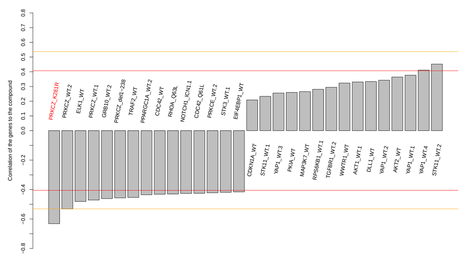
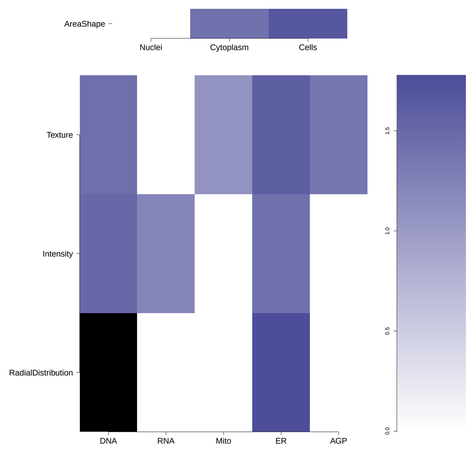
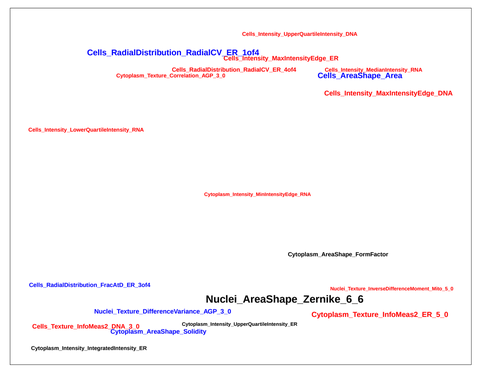
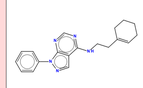
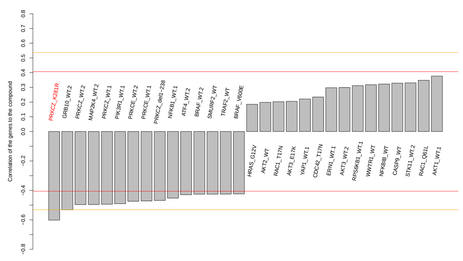
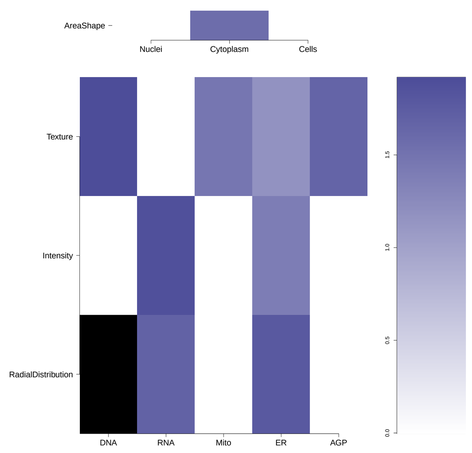
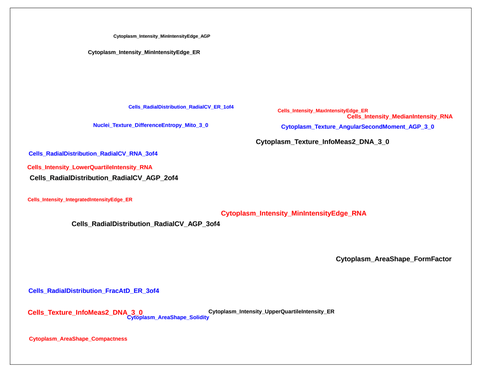
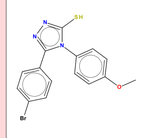
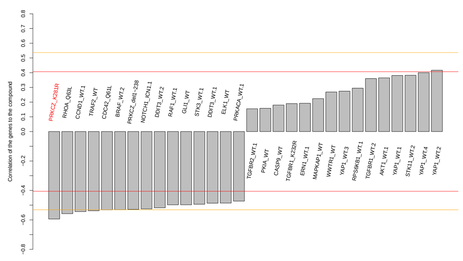
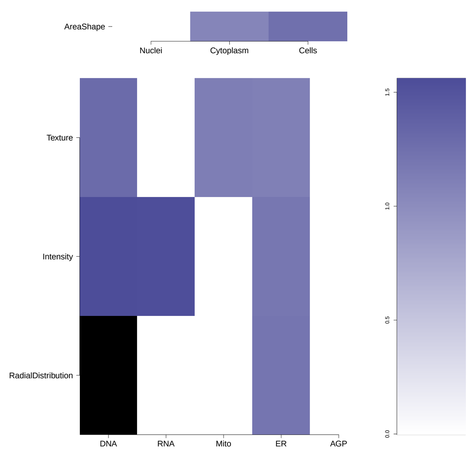
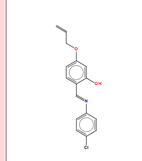
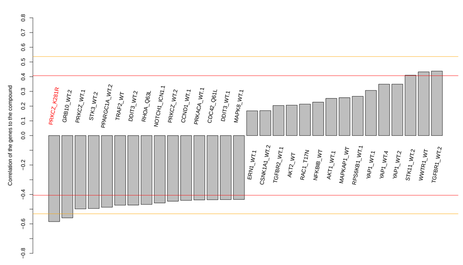
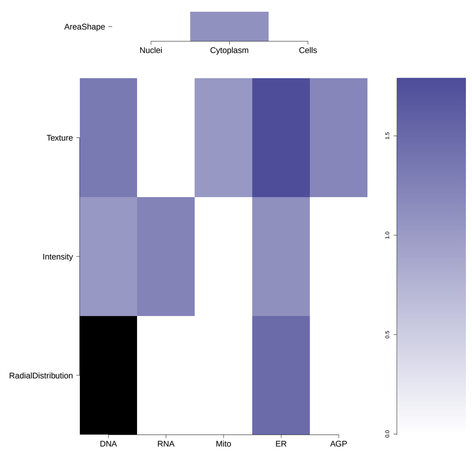
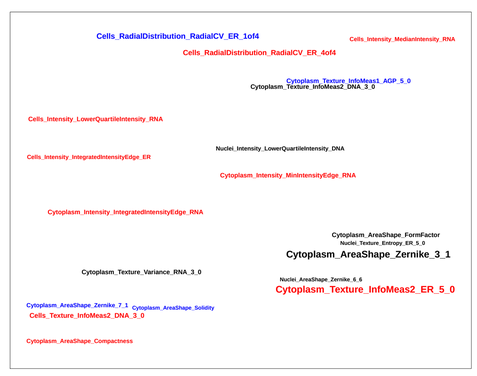


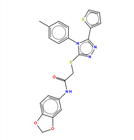
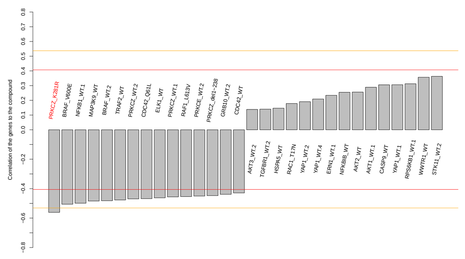
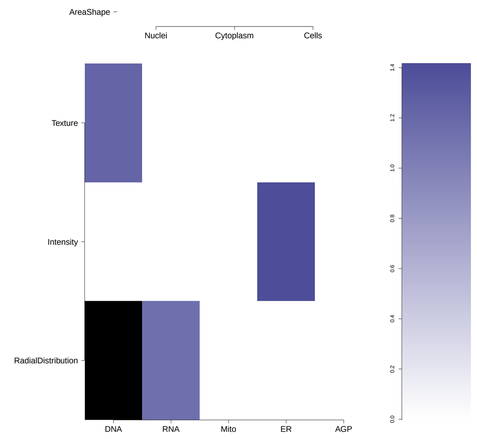
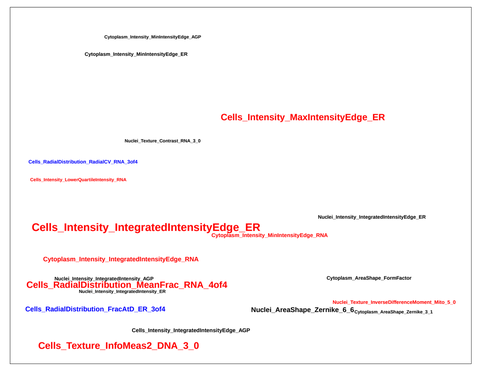
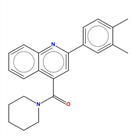
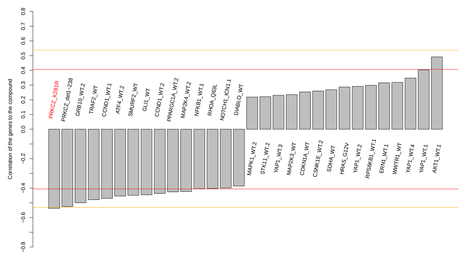
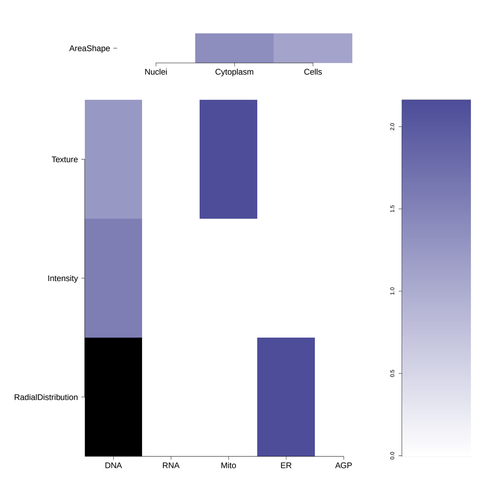
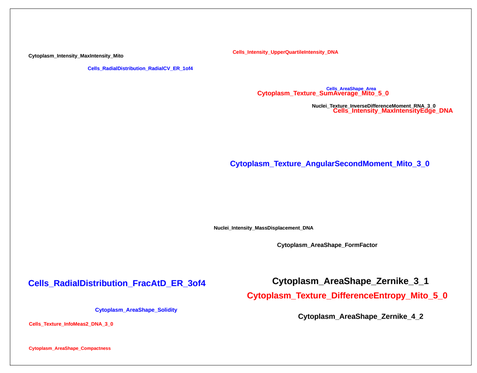
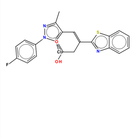
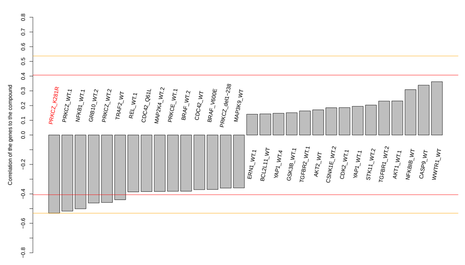
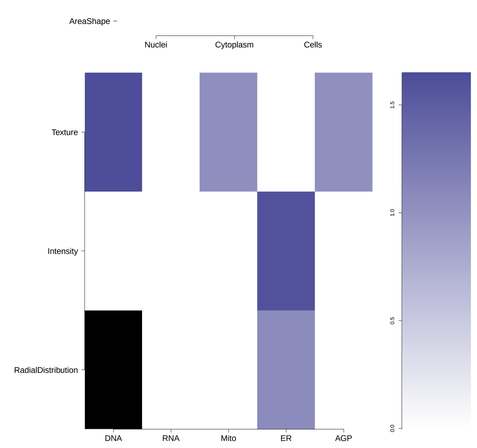
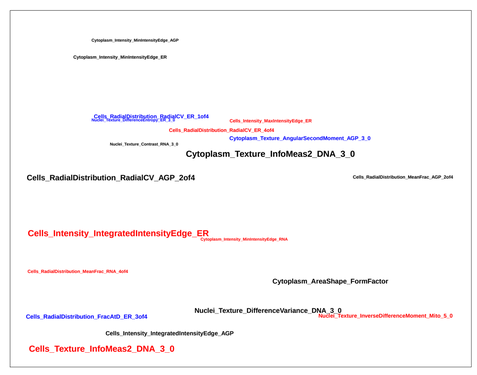
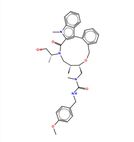
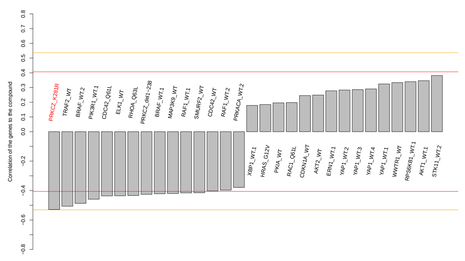
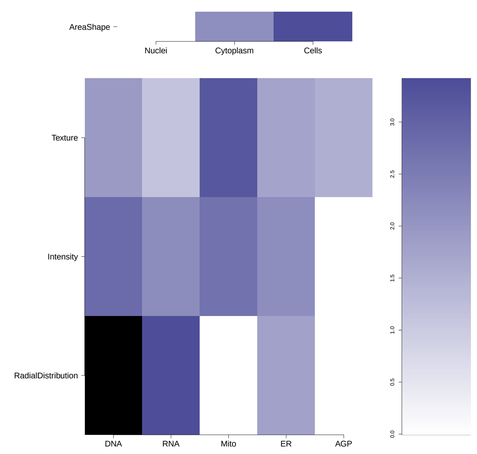
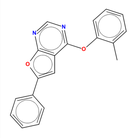
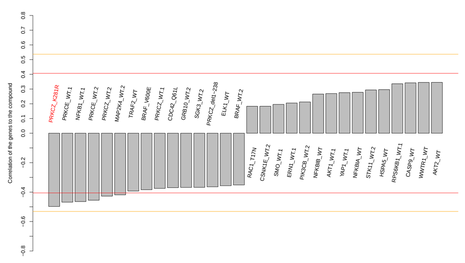
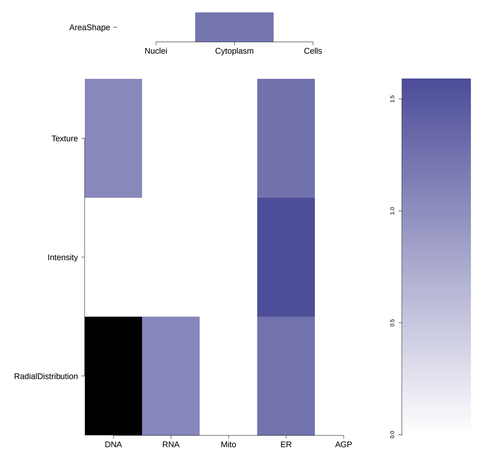
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

	Empty	PRKCZ_K281R (41744)	PRKCZ_K281R (41755)	PRKCZ_K281R (41756)	PRKCZ_K281R (41757)	PRKCZ_K281R (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-K09787095-001-01-2 PubChem CID : 54646572		0.80 (in 4 replicates)	0.55	0.075				Total number of assays tested in: 36.
BRD-K47430271-001-05-0 SMR000184928 Ambcb5227425 MLS000595187 AC1NX317 HMS2509F11 LS-38042 119034-11-6 PubChem CID : 5719122		0.60 (in 4 replicates)	0.52	NA				Total number of assays tested in: 632. Active in the following assays: • VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) • qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820)
BRD-K60865828-001-05-7 BAS 05022416 AC1LL2O5 MLS001211773 HMS1615G11 HMS2838A09 ZINC789744 STK090735 ZINC00789744 SMR000523157 VU0417912-1 PubChem CID : 1077764		0.54 (in 4 replicates)	0.51	NA				Total number of assays tested in: 470. Active in the following assays: • Primary cell-based screen for identification of compounds that inhibit the two-pore domain potassium channel KCNK3 (AID 602410) • Confirmation assay for identification of compounds that inhibit the two-pore domain potassium channel KCNK3 [Primary Screening] (AID 651638) • qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820)
BRD-K36474885-001-01-8 PubChem CID : 44486380		0.77 (in 4 replicates)	0.50	0.272				Total number of assays tested in: 51. 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-K72154771-001-05-9 SMR000022047 MLS000044263 MLS000879005 AC1M21W6 HMS2384H15 ZINC2725274 CCG-26496 ZINC02725274 T6301570 F0564-0075 PubChem CID : 2160633		0.53 (in 4 replicates)	0.48	NA				Total number of assays tested in: 792. Active in the following assays: • HIV-1 RT-RNase H MLSCN HTS MH077605 (AID 565) • Human H69AR Lung Tumor Cell Growth Inhibition Assay - 86K Screen (AID 598) • qHTS Assay for Inhibitors of 15-hLO-2 (15-human lipoxygenase 2) (AID 881) • qHTS Assay for Inhibitors of HADH2 (Hydroxyacyl-Coenzyme A Dehydrogenase, Type II) (AID 886) • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • HTS identification of compounds inhibiting phosphomannose isomerase (PMI) via a fluorescence intensity assay using a high concentration of mannose 6-phosphate (AID 1220) • MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) • QFRET-based primary biochemical high throughput screening assay to identify inhibitors of the Plasmodium falciparum M18 Aspartyl Aminopeptidase (PFM18AAP). (AID 1822) • Fluorescence polarization-based counterscreen for RBBP9 inhibitors: primary biochemical high throughput screening assay to identify inhibitors of the oxidoreductase glutathione S-transferase omega 1(GSTO1). (AID 1974) • qHTS Assay for Inhibitors and Activators of Human alpha-Glucosidase Cleavage of Glycogen (AID 2100) • qHTS Assay for Inhibitors of Human Jumonji Domain Containing 2E (JMJD2E) (AID 2147) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)
BRD-K83749296-001-07-5 MLS000547815 SMR000171638 ST047326 AC1MEWAE BDBM66429 HMS2529C07 ZINC4492053 STK758783 ZINC04492053 BAS 00680158 PubChem CID : 2910040		0.60 (in 4 replicates)	0.45	NA				Total number of assays tested in: 642. Active in the following assays: • High Throughput Screen to Identify Compounds that Suppress the Growth of Cells with a Deletion of the PTEN Tumor Suppressor (AID 827) • Leishmania major promastigote HTS (AID 1063) • Fluorescence Cell-Free Homogeneous Primary HTS to Identify Inhibitors of the RanGTP-Importin-beta complex (AID 2216) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • qHTS for Inhibitors of TGF-b (AID 588855) • A quantitative high throughput screen for small molecules that induce DNA re-replication in SW480 colon adenocarcinoma cells. (AID 624297) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978) • Counterscreen for inhibitors of 5-meCpG-binding domain protein 2 (MBD2): TRFRET-based biochemical primary high throughput screening assay to identify inhibitors of binding of ubiquitin-like with PHD and ring finger domains 1 (UHRF1) to methylated oligonucleotide (AID 687016) • qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279)

BRD-K69073107-001-01-0 MLS003650002 SMR002339547 PubChem CID : 53382665		NA (in 1 replicates)	-0.63	NA				Total number of assays tested in: 132.
BRD-K08606983-001-05-1 STK138991 AC1OBPFE SMR000259826 MLS000390788 ZINC15989497 T0500-2826 PubChem CID : 6900173		NA (in 1 replicates)	-0.63	NA				Total number of assays tested in: 631. Active in the following assays: • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) • uHTS identification of small molecule antagonists of the CCR6 receptor via a luminescent beta-arrestin assay (AID 493098) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • uHTS identification of small molecule modulators of myocardial damage (AID 588492) • Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human trace amine associated receptor 1 (TAAR1) (AID 624466) • uHTS identification of inhibitors of cullin neddylation in a TR-FRET assay (AID 651699)
BRD-K01990668-001-06-6 SMR000017492 ZINC00426457 AC1LD48Q MLS000077450 MLS000100847 AC1Q28Q2 HMS1417B06 HMS2274A08 ZINC426457 STK859226 PubChem CID : 660991		0.75 (in 3 replicates)	-0.60	NA				Total number of assays tested in: 697. Active in the following assays: • CYP2C9 Assay (AID 777) • High Throughput Screen to Identify Compounds that increase expression of NF-kB in Human Neuronal Cells - Primary Screen (AID 1239) • qHTS Assay for Enhancers of SMN2 Splice Variant Expression (AID 1458) • 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) • uHTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 6 (SENP6) (AID 2599) • HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732) • 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) • Heat Shock Factor-1 (HSF-1) Measured in Cell-Based System Using Plate Reader - 2038-01_Activator_SinglePoint_HTS_Activity (AID 504408) • qHTS screen for small molecules that induce genotoxicity in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504466) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834) • 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) • 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) • 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) • 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) • qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504)
BRD-K94177950-001-05-7 BAS 02255243 AC1M0QPA Ambcb7689401 MLS001207784 HMS2834P17 ZINC5895313 CCG-15995 SMR000515017 ST50263292 PubChem CID : 2054913		NA (in 1 replicates)	-0.59	NA				Total number of assays tested in: 488. Active in the following assays: • qHTS Assay for Inhibitors of Leishmania Mexicana Pyruvate Kinase (LmPK) (AID 1721) • VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) • HTS Assay for Allosteric Antagonists of the Human D2 Dopamine Receptor: Primary Screen for Antagonists (AID 485344) • qHTS Assay for Inhibitors of JMJD2A-Tudor Domain (AID 504339)
BRD-K94042366-001-05-1 ST4020213 AC1NY2YB MLS000585916 HMS2566G11 STK752281 SMR000207697 PubChem CID : 5823126		NA (in 1 replicates)	-0.58	NA				Total number of assays tested in: 629.

BRD-K78611329-001-05-9 ST50419166 SMR000078675 AC1LOW8Z AC1Q2L6E MLS000050947 HMS2169L07 HMS3319A02 ZINC1058038 ZINC01058038 PubChem CID : 1248871		0.65 (in 4 replicates)	-0.56	NA				Total number of assays tested in: 774. Active in the following assays: • Glucocerebrosidase (AID 360) • HIV-1 RT-RNase H MLSCN HTS MH077605 (AID 565) • Human H69AR Lung Tumor Cell Growth Inhibition Assay - 86K Screen (AID 598) • HTS of Estrogen Receptor- alpha Coactivator Binding inhibitors (AID 629) • HTS of Estrogen Receptor- alpha Coactivator Binding Potentiators (AID 639) • Human Lung Fibroblast Proliferation Assay (AID 719) • Human Fibroblast Cell Proliferation Assay - Dose Response (AID 821) • Human Endothelial Cell Proliferation Assay - Dose Response (AID 822) • qHTS Assay for Inhibitors of JMJD2A-Tudor Domain (AID 504339) • Identification of VIF Inhibitors Measured in Cell-Based System Using Imaging - 2108-01_Inhibitor_SinglePoint_HTS_Activity (AID 602346) • qHTS for Inhibitors of KCHN2 3.1: Wildtype qHTS (AID 720551) • qHTS of Trypanosoma Brucei Inhibitors: Confirmatory Assay for Cherry-picked Compounds (AID 720569) • qHTS of Trypanosoma Brucei Inhibitors: Orthogonal Assay for Cherry-picked Compounds (AID 720584)
BRD-K21094569-001-06-3 AC1N7P4V MLS001031143 HMS1510D16 HMS2951J23 ZINC218145 SMR000634757 EU-0063968 PubChem CID : 4305995		NA (in 1 replicates)	-0.54	NA				Total number of assays tested in: 510. Active in the following assays: • Primary cell-based high-throughput screening assay for identification of compounds that inhibit KCNQ2 potassium channels (AID 2156) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • Confirmatory screen for compounds that inhibit KCNQ2 potassium channels (AID 493025) • Allosteric Agonists of the Human D1 Dopamine Receptor: qHTS (AID 504660) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • Confirmatory screen for compounds that inhibit KCNQ2 potassium channels using automated patch clamp (AID 588531) • Primary cell-based screen for identification of compounds that inhibit the two-pore domain potassium channel KCNK3 (AID 602410) • Confirmation assay for identification of compounds that inhibit the two-pore domain potassium channel KCNK3 [Primary Screening] (AID 651638) • Counter screen assay for identification of compounds that inhibit the two-pore domain potassium channel KCNK3 [Primary Screening] in non-induced KCNK3 cells (AID 651747) • qHTS for Inhibitors of Ubiquitin-specific Protease USP2a Using CHOP2 as the Reporter: K484 Substrate (AID 652173) • 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)
BRD-K71327258-001-05-4 T5822519 MLS000565087 AC1O37PV HMS2452A07 ZINC8672173 SMR000152273 PubChem CID : 6249835		0.72 (in 2 replicates)	-0.53	NA				Total number of assays tested in: 698. Active in the following assays: • Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Primary Screen (AID 1456) • Primary biochemical high throughput screening assay to identify inhibitors of VIM-2 metallo-beta-lactamase (AID 1527) • Epi-absorbance primary biochemical high throughput screening assay to identify inhibitors of IMP-1 metallo-beta-lactamase (AID 1556) • Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Retesting of KCC2 cells with Ouabain (AID 1717) • Epi-absorbance-based confirmation biochemical high throughput screening assay to identify selective inhibitors of VIM-2 metallo-beta-lactamase. (AID 1860) • Fluorescence-based primary cell-based high throughput screening assay to identify antagonists of the G-protein coupled receptor 7 (GPR7). (AID 1861) • qHTS for Antagonists of gsp, the Etiologic Mutation Responsible for Fibrous Dysplasia/McCune-Albright Syndrome: qHTS (AID 624288) • Fluorescence-based biochemical primary high throughput screening assay to identify molecules that bind r(CAG) RNA repeats (AID 651821) • Fluorescence-based biochemical high throughput confirmation assay to identify molecules that bind r(CAG) RNA repeats (AID 652065) • 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-K14087339-001-01-6 PubChem CID : 54637837		0.75 (in 3 replicates)	-0.53	NA				Total number of assays tested in: 44. 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_SinglePoint_HTS_Activity (AID 602393) • HIV entry: Env-mediated Cell Fusion Measured in Cell-Based System Using Plate Reader - 7013-01_Inhibitor_SinglePoint_HTS_Activity (AID 651610) • HIV entry: Env-mediated Cell Fusion Measured in Cell-Based System Using Plate Reader - 7013-01_Inhibitor_Dose_CherryPick_Activity (AID 652057) • Cell fusion assay for clade C HIV-1ZM109 Env Measured in Cell-Based System Using Plate Reader - 7013-05_Inhibitor_Dose_CherryPick_Activity (AID 652058) • HIV-1 Cell Fusion assay for clade B Env AD8 Measured in Cell-Based System Using Plate Reader - 7013-04_Inhibitor_Dose_CherryPick_Activity (AID 652062)
BRD-K38333122-001-05-8 SMR000179731 MLS000327159 5P-577S AC1MY3MU BDBM41842 HMS2287A15 ZINC6218639 ZINC06218639 PubChem CID : 3825639		NA (in 1 replicates)	-0.50	NA				Total number of assays tested in: 687. Active in the following assays: • High throughput fluorescence polarization-based assay to screen for small molecule inhibitors of the Polo box domain (PBD) of Plk1. (AID 693) • Kallikrein 5 1536 HTS (AID 873) • Cytochrome panel assay with activity outcomes (AID 1851) • Fluorescence-based primary cell-based high throughput screening assay to identify antagonists of the G-protein coupled receptor 7 (GPR7). (AID 1861) • Fluorescence-based confirmation cell-based high throughput screening assay to identify antagonists of the G-protein coupled receptor 7 (GPR7). (AID 1952) • Multiplex HTS Screen of TOR pathway GFP-fusion proteins in Saccharomyes cerevisiae_specifically_ MEP2_MLPCN. (AID 2016) • uHTS Fluorescent assay for identification of activators of Apaf-1 (AID 489031) • Primary cell-based high-throughput screening for identification of compounds that allosterically activate MrgX1 receptor signaling (AID 588675) • Re-confirmation screening for identification of compounds that allosterically activate MrgX1 receptor signaling (AID 602413) • uHTS identification of small molecule antagonists of the EBI2 receptor via a luminescent beta-arrestin assay (AID 651636) • qHTS Assay for Activators of ClpP (AID 651965)