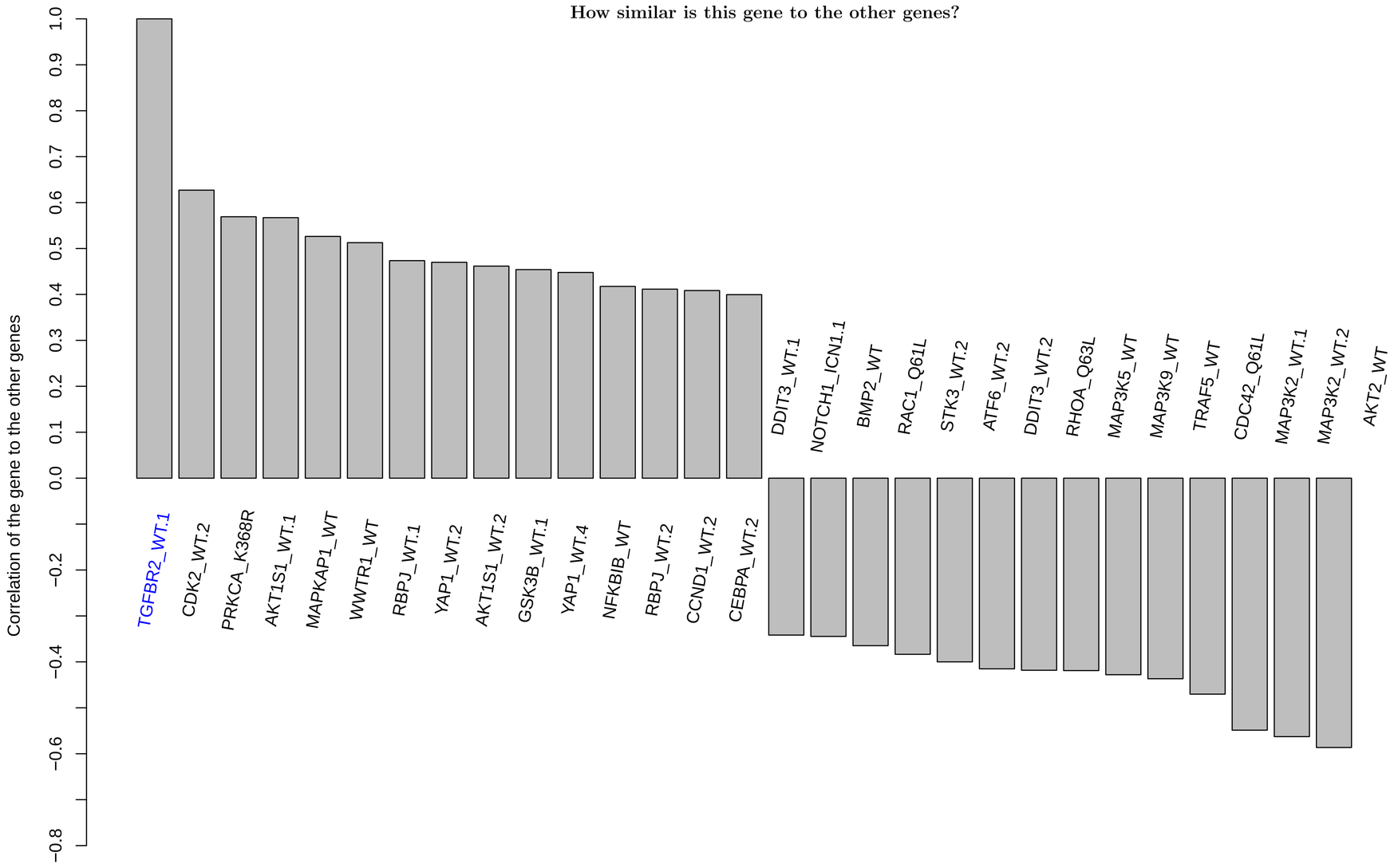
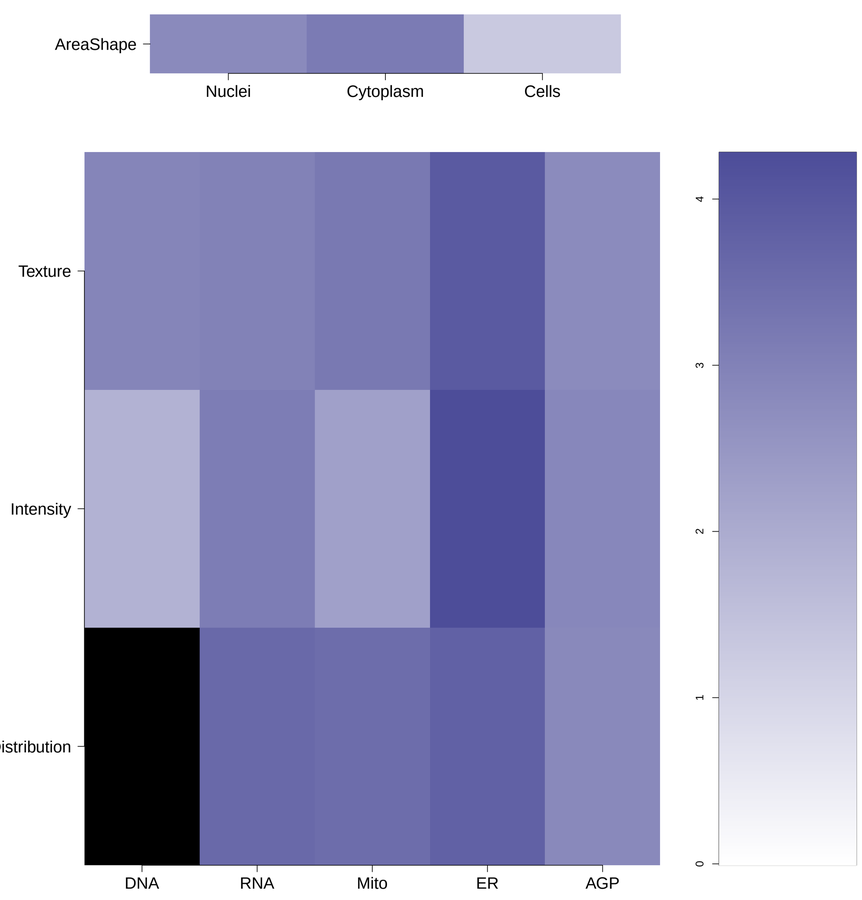
TGFBR2_WT.1 - in Canonical TGFbeta

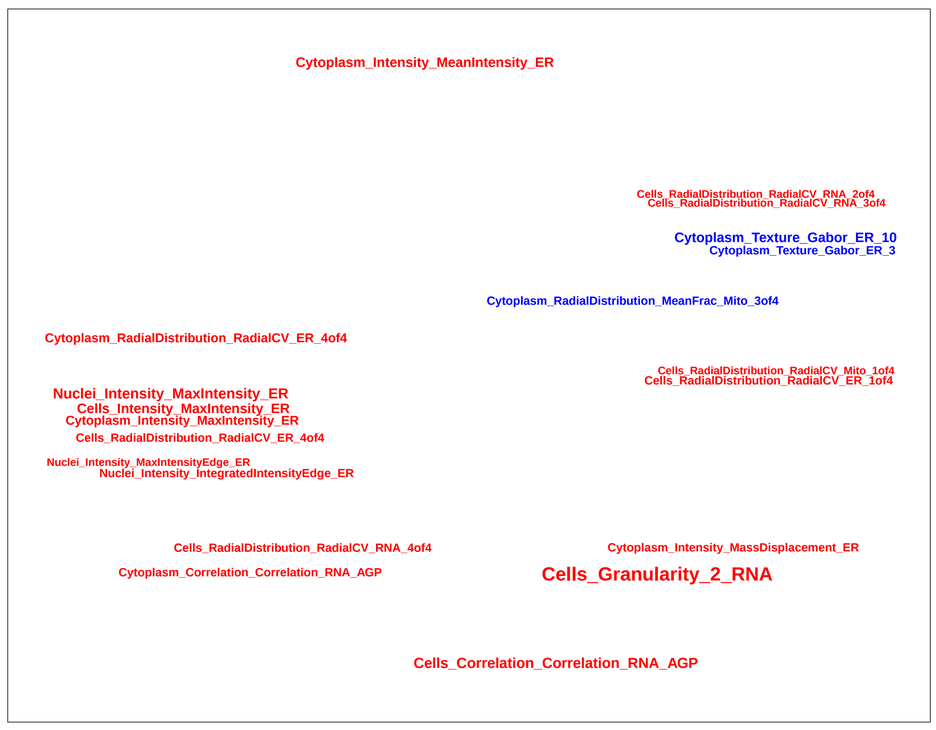
How similar is this gene to the other genes?

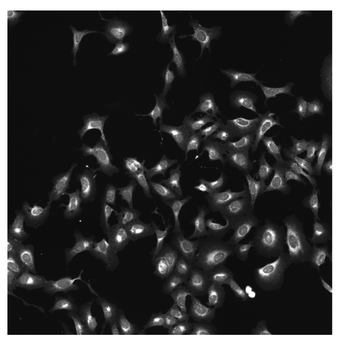
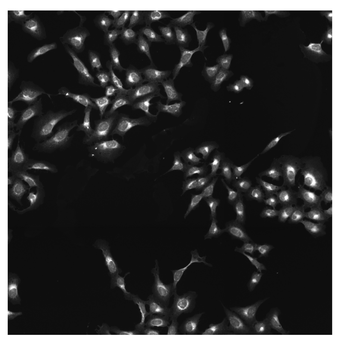
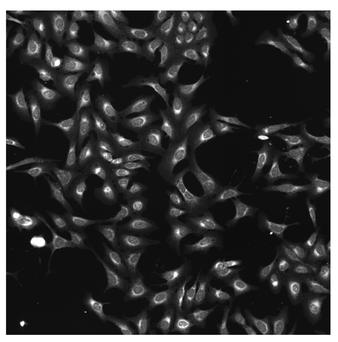
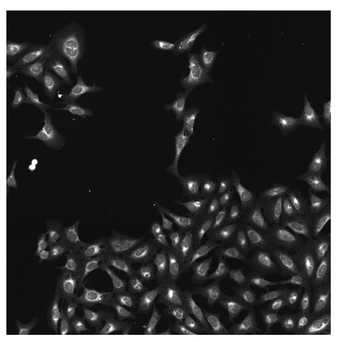
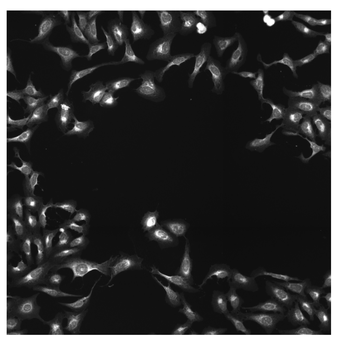
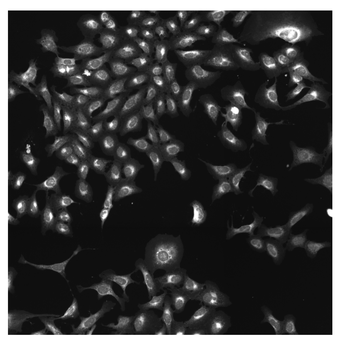
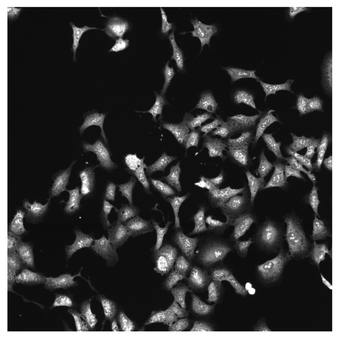
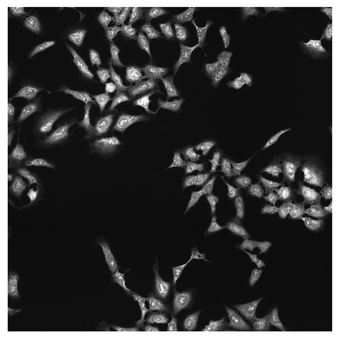
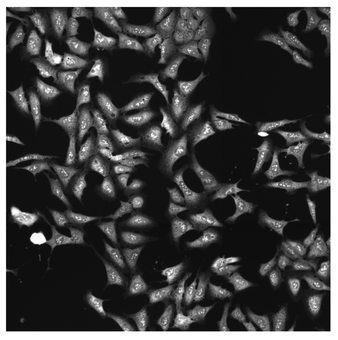
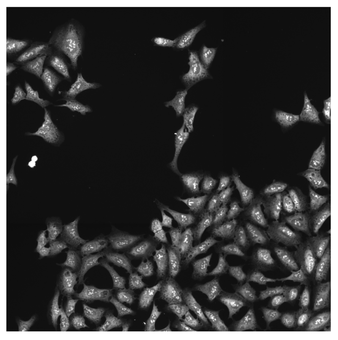
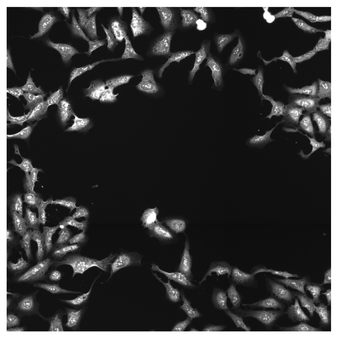
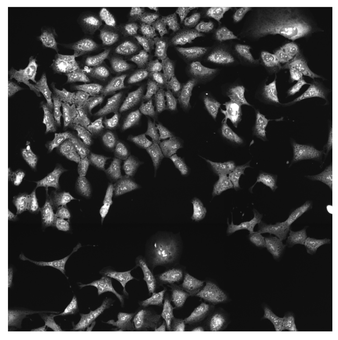


What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

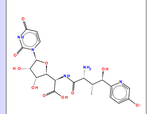
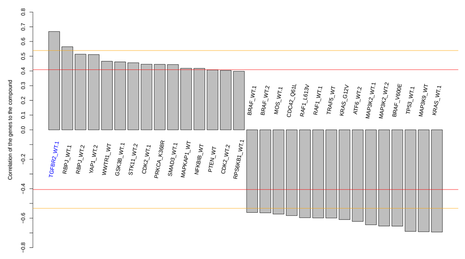
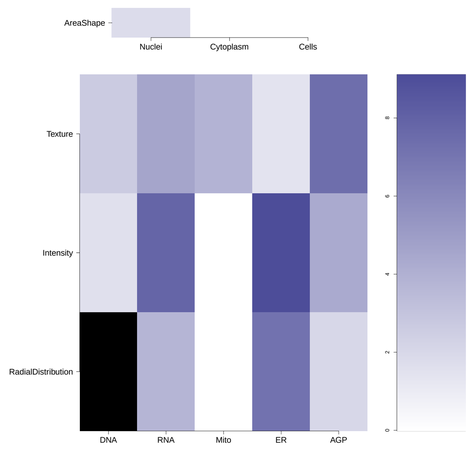
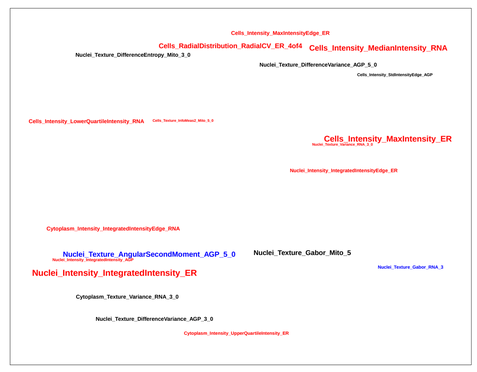
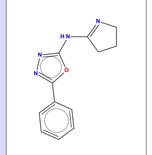
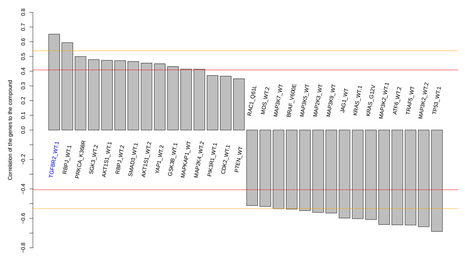
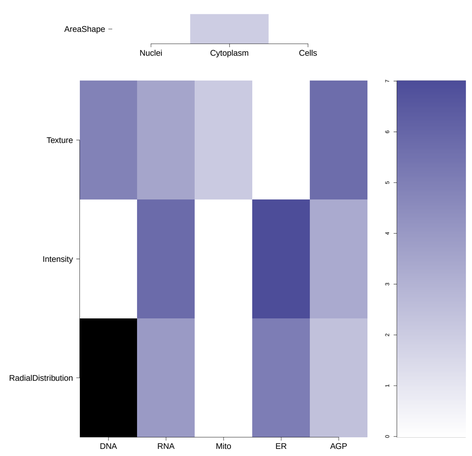
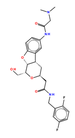
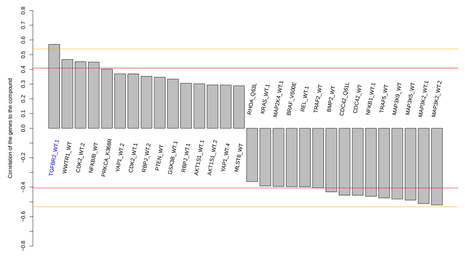
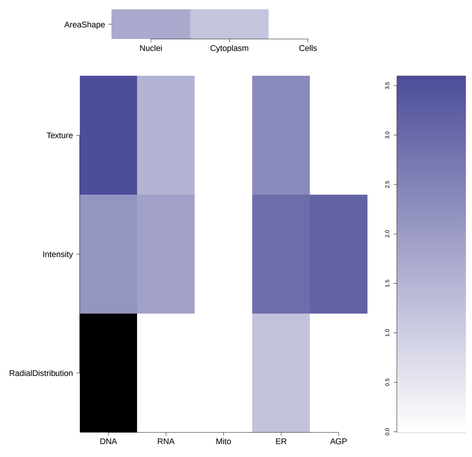
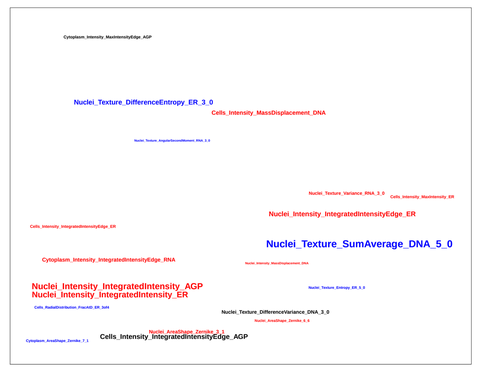


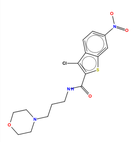
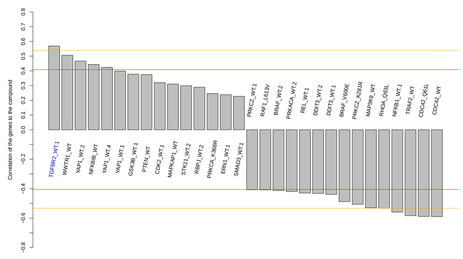
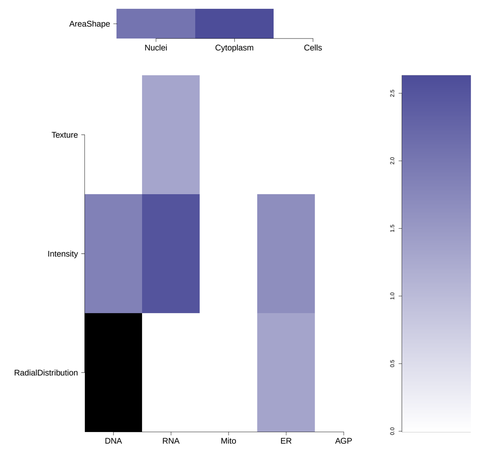
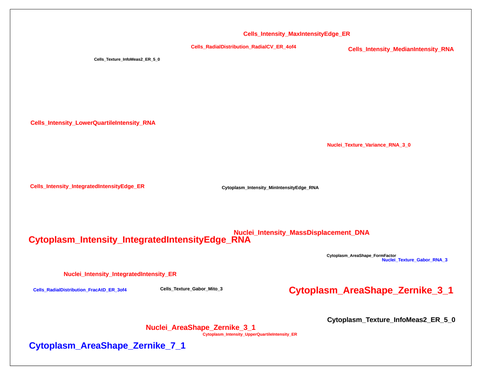
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

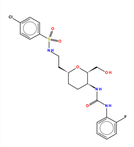
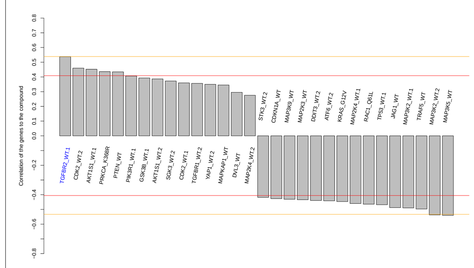
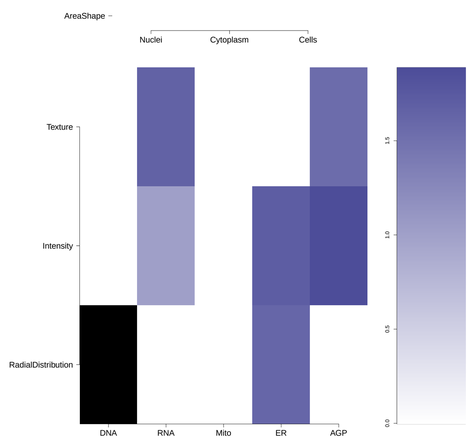
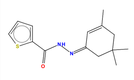
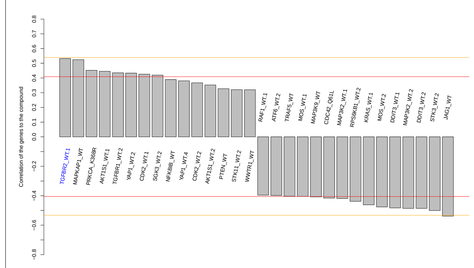
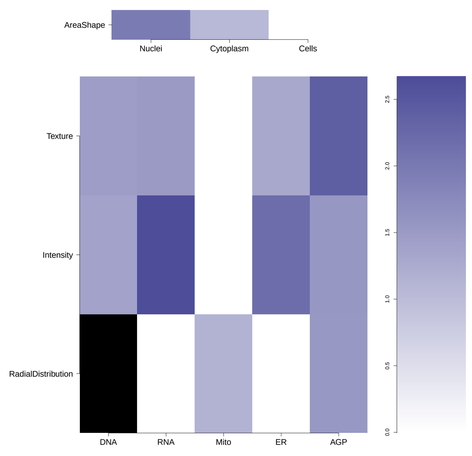
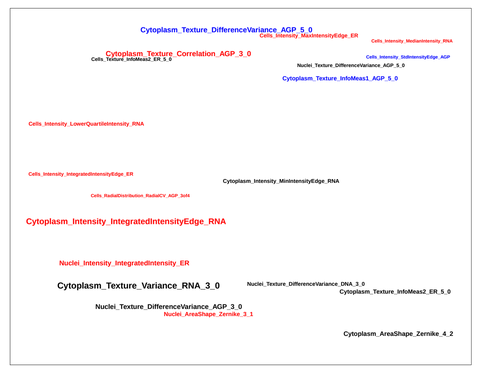
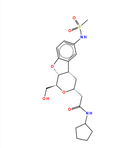
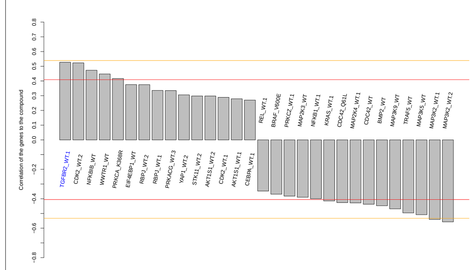
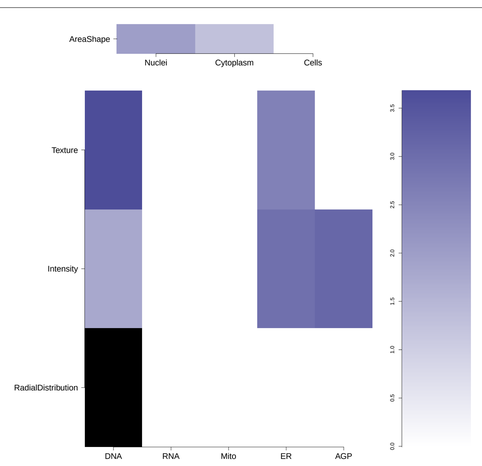
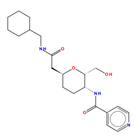
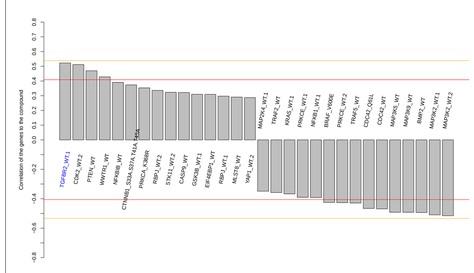
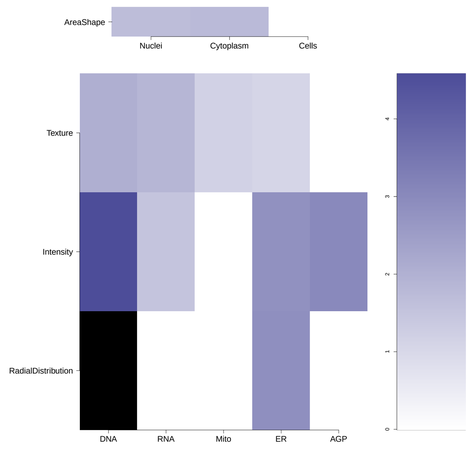
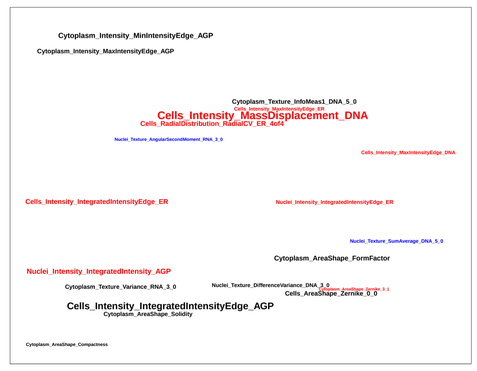
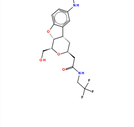
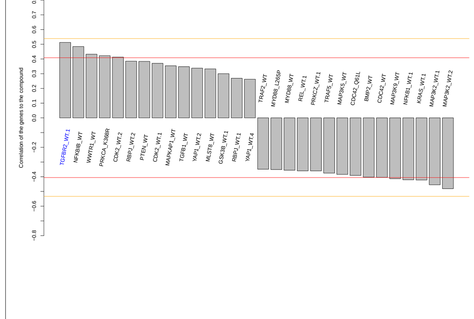
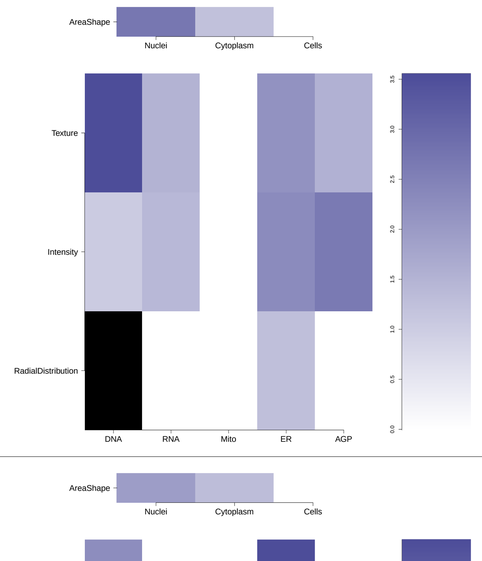
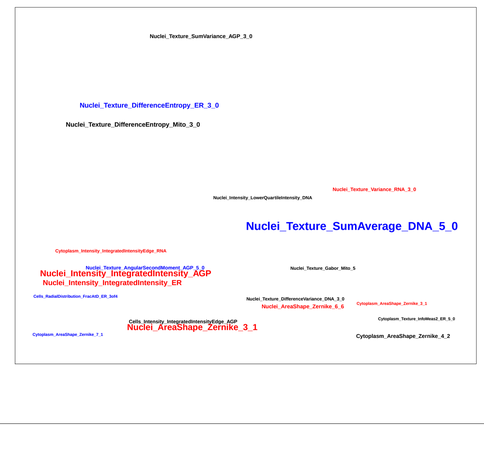


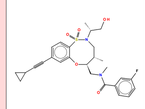
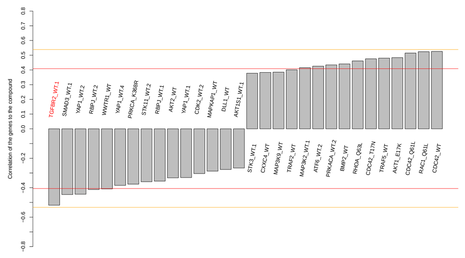
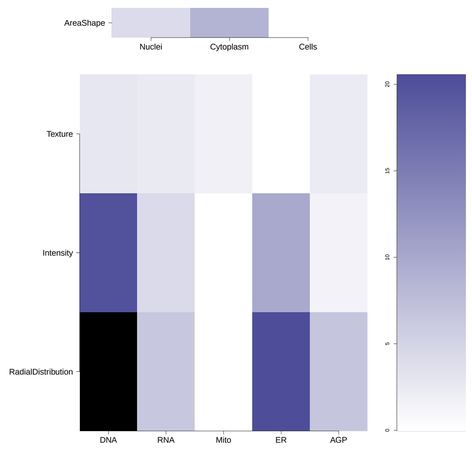
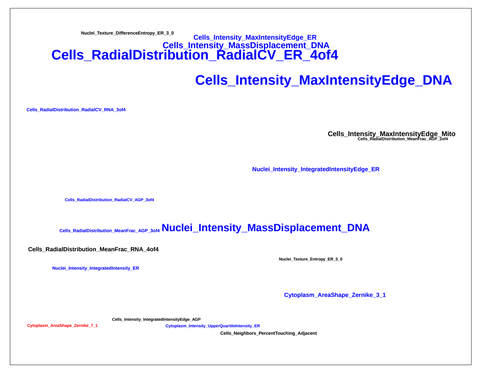
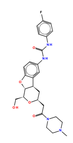
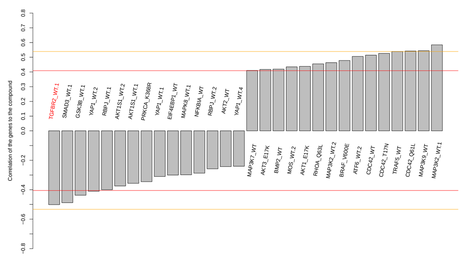
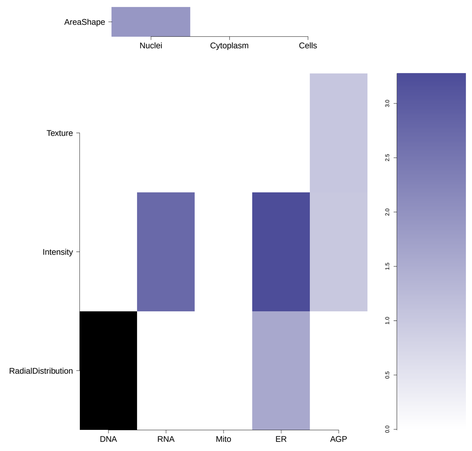
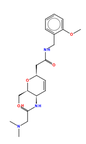
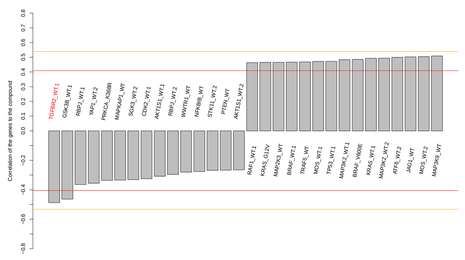
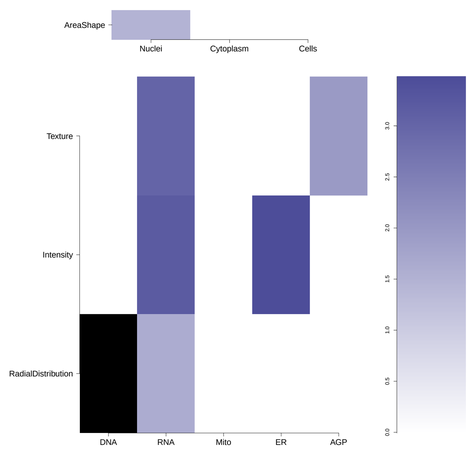
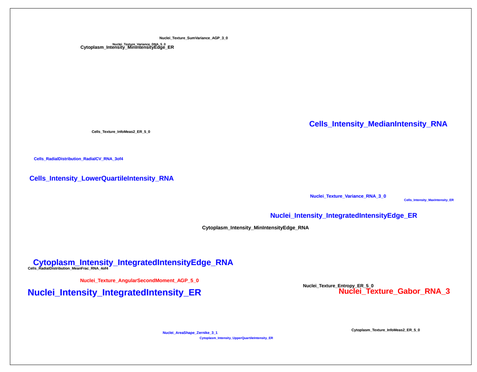
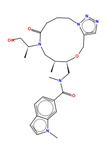
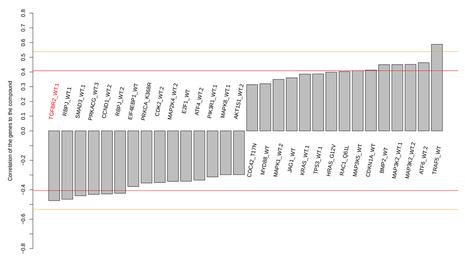
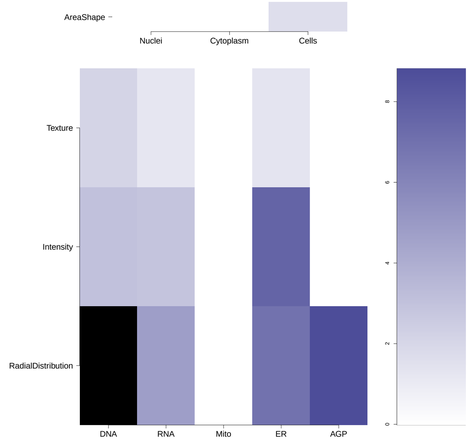
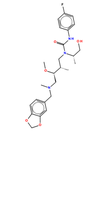
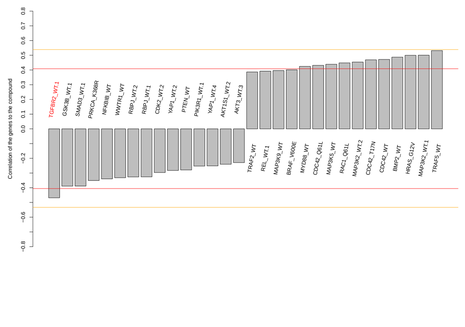
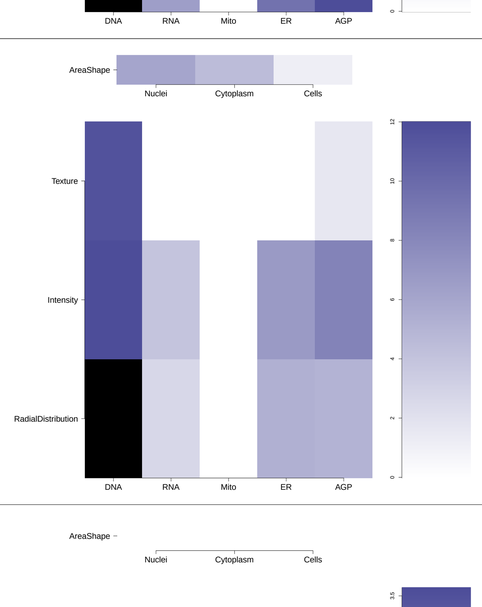
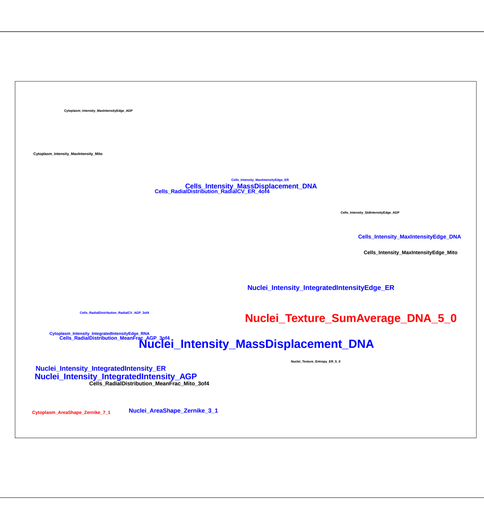
	Empty	TGFBR2_WT.1 (41744)	TGFBR2_WT.1 (41755)	TGFBR2_WT.1 (41756)	TGFBR2_WT.1 (41757)	TGFBR2_WT.1 (41754)
ER						
RNA						

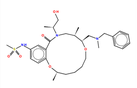
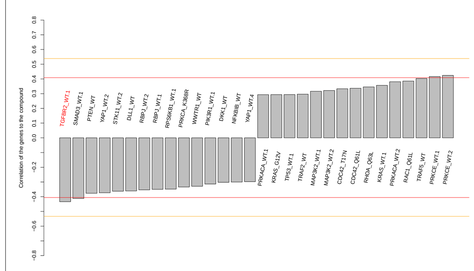
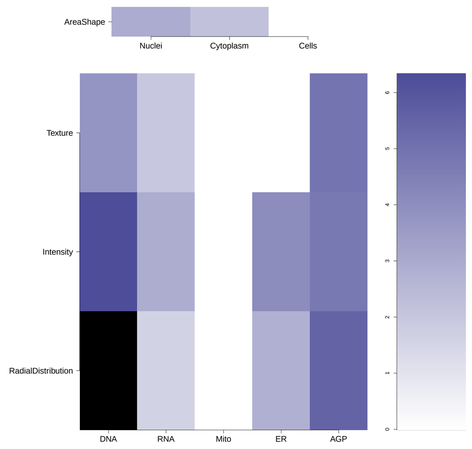
Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.52)	Correlation between compound the gene	Compound rank when scored against the gene using L1000 profiling	How similar is the compound signature to the genes in this experiment? (Yellow and red lines correspond to top/bottom 1st and 5th percentile DMSO correlation to all the genes)	Common distinguishing feature categories in the compound and the gene relative to the untreated samples	Distinguishing individual features for the compound relative to untreated samples. Black means a mismatch; i.e. active (= high z-score in magnitude) in the compound, and either inactive (= small z-score in magnitude) or oppositely active in the gene	Number of PubChem assays in which the compound was tested; assays in which the compound was active are itemized

BRD-K76218980-001-11-3 nikkomycin z AC1NUQ0P MLS000028371 HMS2233C10 SMR000058642 PubChem CID : 5458181		NA (in 1 replicates)	0.67	NA				Total number of assays tested in: 698. Active in the following assays: • qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490) • Fluorescence Cell-Based Secondary Assay to Identify Inhibitors of Resistant C. albicans Growth in the Presence of Fluconazole (AID 2423) • Fluorescence Cell-Based Retest of C. albicans Growth in the Presence of Fluconazole (AID 2467) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • qHTS of TDP-43 Inhibitors (AID 652104)
BRD-K15827540-001-05-0 T5250099 AC1M2QX1 MLS001010624 HMS1774C11 HMS2718E22 ZINC12531006 SMR000352827 PubChem CID : 2123280		NA (in 1 replicates)	0.65	NA				Total number of assays tested in: 643. Active in the following assays: • Primary cell-based high throughput screening assay to measure STAT3 inhibition (AID 862) • Counter Screen for Luciferase-based Primary Inhibition Assays (AID 1006) • qHTS Assay for Enhancers of SMN2 Splice Variant Expression (AID 1458) • qHTS Assay for Inhibitors of Leishmania Mexicana Pyruvate Kinase (LmPK) (AID 1721) • Luminescence-based primary biochemical high throughput screening assay to identify inhibitors of the Heat Shock Protein 90 (HSP90) (AID 1789) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) • qHTS Assay for Rab9 Promoter Activators (AID 485297) • qHTS screen for small molecules that induce genotoxicity in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504466) • qHTS for Inhibitors of binding or entry into cells for Lassa Virus (AID 540256) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • Luminescence-based cell-based primary high throughput screening assay for inhibitors of the orphan nuclear receptor subfamily 0, group B, member 1 (DAX1; NR0B1); repression of SF-1 (NR5A1) activated StAR promoter by full-length DAX-1 (AID 652010) • qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504)
BRD-K83933044-001-01-3 PubChem CID : 54646579		0.67 (in 4 replicates)	0.57	0.758				Total number of assays tested in: 36.

BRD-K64738596-001-05-2 MLS000684370 MLS003116126 KUC103472N-2 SMR000295947 AC1M2STY KSC-1-109c BDBM47776 HMS2707K05 KUC103472N PubChem CID : 2225472		NA (in 1 replicates)	0.57	NA				Total number of assays tested in: 638. Active in the following assays: • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • Leishmania major promastigote HTS (AID 1063) • Inhibitors of Mycobacterial Glucosamine-1-phosphate acetyl transferase (GlmU) (AID 1376) • Multiplexed high-throughput screen for small molecule regulators of RGS family protein interactions, specifically RGS16-Galphao. (AID 1441) • qHTS for Inhibitors of Tau Fibril Formation, Thioflavin T Binding (AID 1460) • qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490) • uHTS identification of compounds inhibiting the binding between the RUNX1 Runt domain and CBFb via a fluorescence resonance energy transfer (FRET) assay. (AID 1496) • Multiplexed high-throughput screen for small molecule regulators of RGS family protein interactions. (AID 1504) • QFRET-based primary biochemical high throughput screening assay to identify inhibitors of the Plasmodium falciparum M18 Aspartyl Aminopeptidase (PFM18AAP). (AID 1822) • Single point concentration, multiplexed high-throughput screen for confirmation of small molecule regulators of RGS family protein interactions, specifically RGS8-Galphao. (AID 1836) • Single point concentration, multiplexed high-throughput screen for confirmation of small molecule regulators of RGS family protein interactions, specifically RGS16-Galphao. (AID 1838) • Single point concentration, multiplexed high-throughput screen for confirmation of small molecule regulators of RGS family protein interactions, specifically RGS19-Galphao. (AID 1841) • Dose respone, multiplexed high-throughput screen for small molecule regulators of RGS family protein interactions, specifically RGS8-Galphao. (AID 1869) • Dose response, multiplexed high-throughput screen for small molecule regulators of RGS family protein interactions, specifically RGS19-Galphao. (AID 1884) • Dose respone, multiplexed high-throughput screen for small molecule regulators of RGS family protein interactions, specifically RGS16-Galphao. (AID 1888) • FPR-induced VLA-4 exposure in U937 cells (AID 1993) • Homogeneous Time-Resolved Fluorescence Resonance Energy Transfer (HTRF) Assay (AID 2073) • QFRET-based biochemical high throughput confirmation assay for inhibitors of the Plasmodium falciparum M18 Aspartyl Aminopeptidase (PFM18AAP). (AID 2170) • Dose response, multiplexed high-throughput screen for small molecule regulators of RGS family protein interactions, specifically RGS4-Galphao for SAR compounds (AID 2295) • Dose response, multiplexed high-throughput screen for small molecule regulators of RGS family protein interactions, specifically RGS16-Galphao for SAR Compounds (AID 2298) • Dose response, multiplexed high-throughput screen for small molecule regulators of RGS family protein interactions, specifically RGS8-Galphao for SAR Compounds (AID 2307) • Dose response, multiplexed high-throughput screen for small molecule regulators of RGS family protein interactions, specifically RGS19-Galphao for SAR Compounds (AID 2311) • qHTS Assay for Inhibitors of Fructose-1,6-bisphosphate Aldolase from Giardia Lamblia (AID 2451) • qHTS Assay for Inhibitors of Fructose-1,6-bisphosphate Aldolase from Giardia Lamblia: Coupling assay counterscreen (AID 2472) • uHTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 6 (SENP6) (AID 2599) • Confirmation qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 2701) • FRET-based cell-based primary high throughput screening assay to identify antagonists of the orexin 1 receptor (OX1R; HCRTR1) (AID 485270) • qHTS Assay to Find Inhibitors of T. brucei phosphofructokinase (AID 485367) • uHTS identification of APOBEC3G DNA Deaminase Inhibitors via a fluorescence-based single-stranded DNA deaminase assay (AID 493012) • Single concentration confirmation of uHTS for APOBEC3G DNA Deaminase Inhibitors via a fluorescence-based single-stranded DNA deaminase assay (AID 493152) • Counterscreen for antagonists of the orexin 1 receptor (OX1R; HCRTR1): Homogenous time resolved fluorescence (HTRF)-based cell-based assay to identify antagonists of the parental CHO-K1 cell line (AID 493232) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • qHTS Assay for Inhibitors of JMJD2A-Tudor Domain (AID 504339) • Tb PFK orthogonal confirmatory assay using ATP depletion (Kinase-Glo Plus) as an alternative measure of Tb PFK activity: Hit Validation (AID 504636) • Inhibitors of T. brucei phosphofructokinase: Hit Validation (AID 504637) • uHTS identification of small molecule inhibitors of Plasmodium falciparum Glucose-6-phosphate dehydrogenase via a fluorescence intensity assay (AID 504690) • Dose Response confirmation of small molecule APOBEC3G DNA Deaminase Inhibitors via a fluorescence-based single-stranded DNA deaminase assay (AID 504719) • Single concentration confirmation of uHTS small molecule inhibitors of Plasmodium falciparum Glucose-6-phosphate dehydrogenase via a fluorescence intensity assay (AID 504753) • Dose Response confirmation of uHTS small molecule inhibitors of Plasmodium falciparum Glucose-6-phosphate dehydrogenase via a fluorescence intensity assay (AID 504765) • Dose Response orthogonal assay utilizing the direct end-point detection of NADPH for uHTS small molecule inhibitors of Plasmodium falciparum Glucose-6-phosphate dehydrogenase (AID 540252) • Dose Response orthogonal kinetic assay utilizing the direct detection of NADPH for uHTS small molecule inhibitors of Plasmodium falciparum Glucose-6-phosphate dehydrogenase (AID 540269) • uHTS identification of small molecule inhibitors of Striatal-Enriched Phosphatase via a fluorescence intensity assay (AID 588621) • Fluorescence-based biochemical primary high throughput screening assay to identify inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 588726) • Luminescence-based biochemical primary high throughput screening assay to identify inhibitors of the interaction of the lipase co-activator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5) (AID 602281) • Counterscreen for inhibitors of the interaction of the lipase co-activator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5): Luminescence-based biochemical high throughput assay to identify inhibitors of Hepatocyte nuclear factor 4 (HNF4) dimerization (AID 651674) • qHTS for Inhibitors of WRN Helicase (AID 651768) • qHTS for Inhibitors of phosphatidylinositol 5-phosphate 4-kinase (PI5P4K) (AID 652105) • qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504) • qHTS for Inhibitors of PI5P4K: Confirmation in Primary Assay (AID 743286)

BRD-K90201499-001-01-6 PubChem CID : 54641127		NA (in 1 replicates)	0.54	NA				Total number of assays tested in: 37.
BRD-K25548987-001-05-0 MLS000720106 ZINC246663 SMR000304635 PubChem CID : 9611549		NA (in 1 replicates)	0.53	NA				Total number of assays tested in: 619. 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) • Heat Shock Factor-1 (HSF-1) Measured in Cell-Based System Using Plate Reader - 2038-01_Activator_SinglePoint_HTS_Activity (AID 504408) • Luminescence-based cell-based primary high throughput screening assay to identify agonists of the DAF-12 from the parasite H. glycines (hgDAF-12). (AID 687014)
BRD-K51368089-001-01-6 PubChem CID : 54646145		0.72 (in 4 replicates)	0.53	0.651				Total number of assays tested in: 38.
BRD-K39784035-001-01-6 PubChem CID : 54641194		NA (in 1 replicates)	0.52	NA				Total number of assays tested in: 36.
BRD-K35589880-001-01-9 PubChem CID : 54646630		0.82 (in 4 replicates)	0.51	0.738				Total number of assays tested in: 38.
BRD-K10768305-001-01-5 PubChem CID : 54646206		0.65 (in 4 replicates)	0.51	0.831				Total number of assays tested in: 36.
BRD-K60719499-001-01-3 PubChem CID : 44616972		0.80 (in 4 replicates)	-0.55	0.349				Total number of assays tested in: 38.

BRD-K65196043-001-01-0 PubChem CID : 54618158		0.88 (in 4 replicates)	-0.52	0.307				Total number of assays tested in: 33.
BRD-K85264253-001-01-7 PubChem CID : 54647901		0.64 (in 2 replicates)	-0.50	NA				Total number of assays tested in: 36.
BRD-K23688566-001-01-4 PubChem CID : 54638433		0.54 (in 4 replicates)	-0.49	0.100				Total number of assays tested in: 31.
BRD-K69565703-001-02-1 MLS003129137 SMR001833583 PubChem CID : 44505995		0.63 (in 2 replicates)	-0.47	0.332				Total number of assays tested in: 227.
BRD-K58023987-001-01-3 PubChem CID : 54649023		0.75 (in 2 replicates)	-0.47	0.011				Total number of assays tested in: 36.
BRD-K90163207-001-01-1 PubChem CID : 54657755		0.60 (in 4 replicates)	-0.45	0.349				Total number of assays tested in: 36.
BRD-K76931353-001-01-1 PubChem CID : 54649228		0.73 (in 2 replicates)	-0.44	0.349				Total number of assays tested in: 38.

BRD-K29935988-001-01-3 PubChem CID : 44493614		0.73 (in 4 replicates)	-0.43	0.349				Total number of assays tested in: 46.
BRD-K93301753-001-05-3 AC1LCRMW SMR000011224 Ambcb6191699 MLS000070503 HMS2506C17 SMSF0016921 ZINC4092174 ZINC04092174 CB07122 BAS 02244189 PubChem CID : 654919		0.68 (in 4 replicates)	-0.43	NA				Total number of assays tested in: 777.