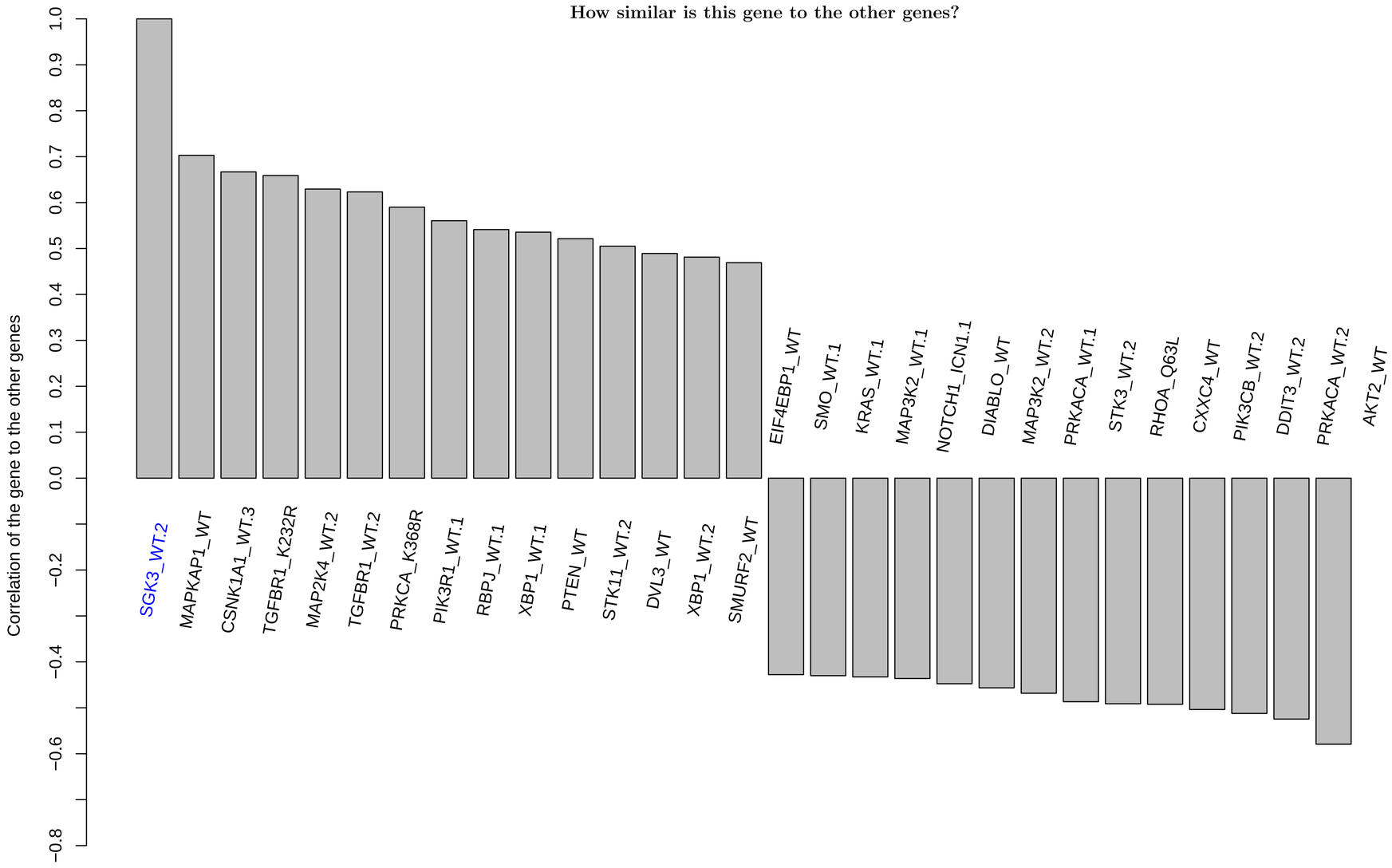
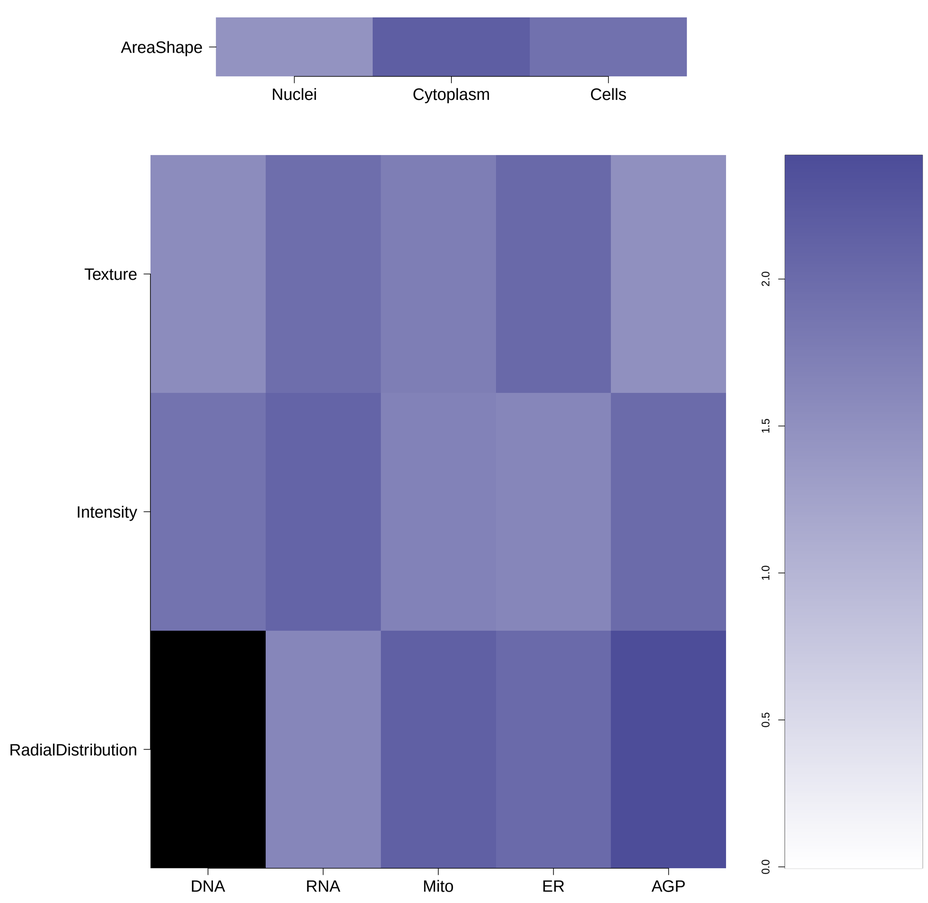
SGK3_WT.2 - in Canonical TOR

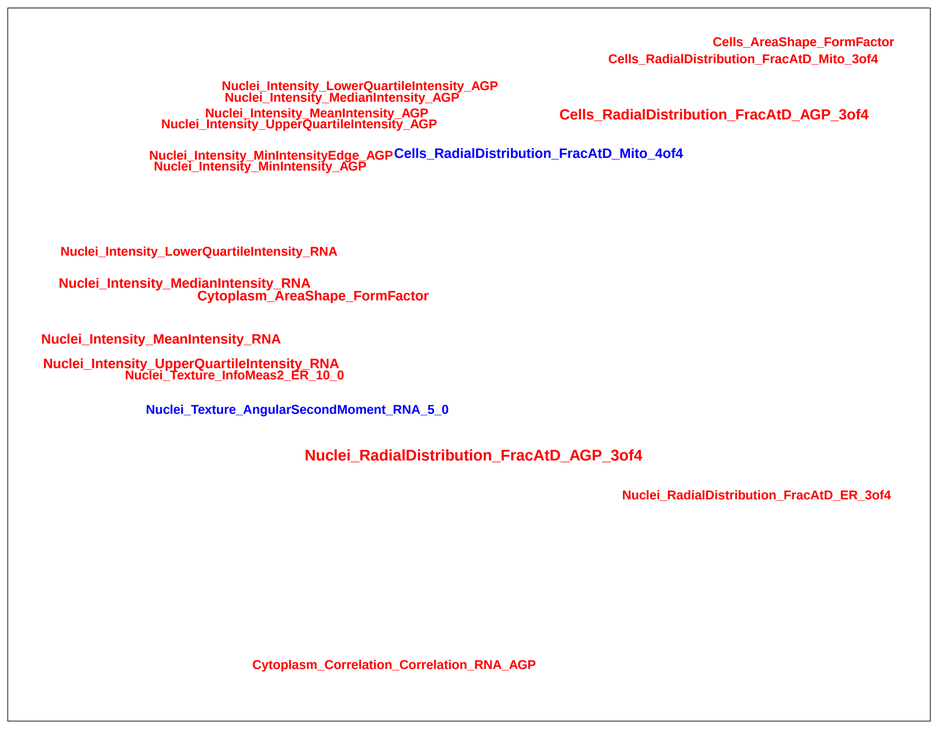
How similar is this gene to the other genes?

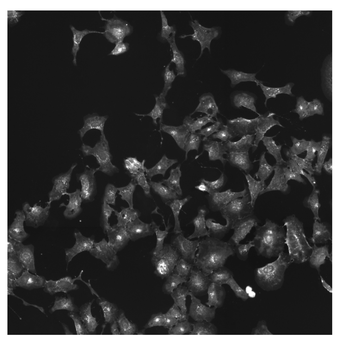
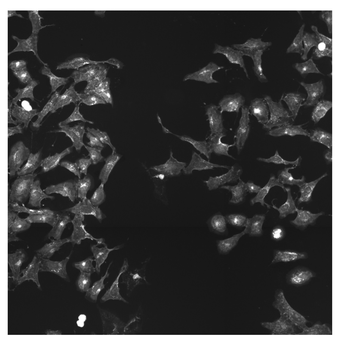
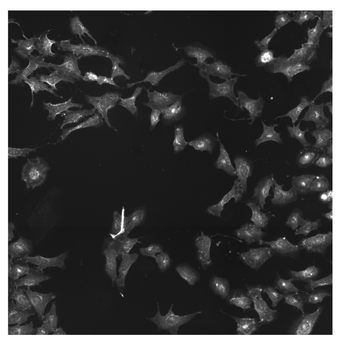
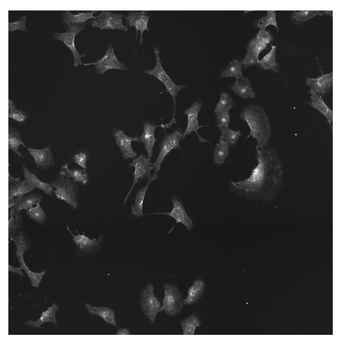
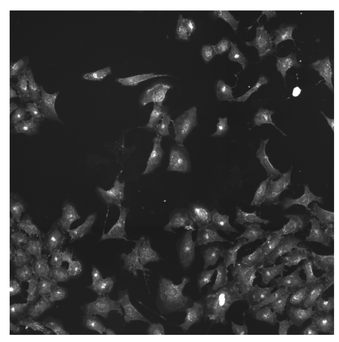
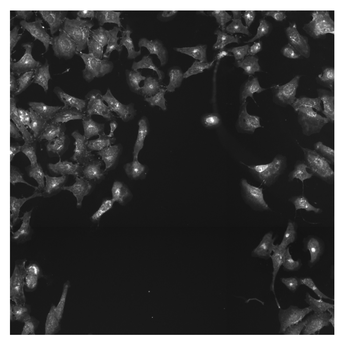
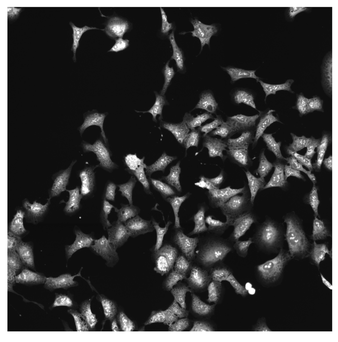
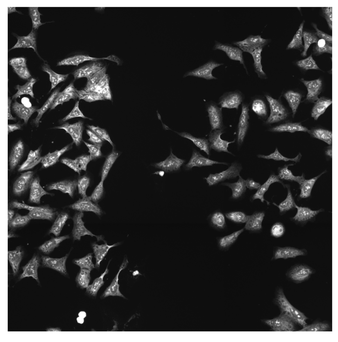
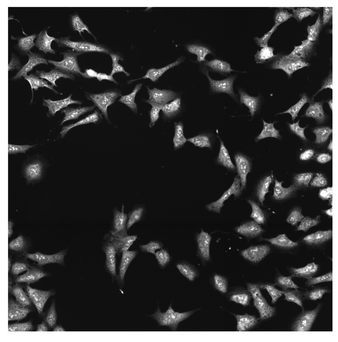
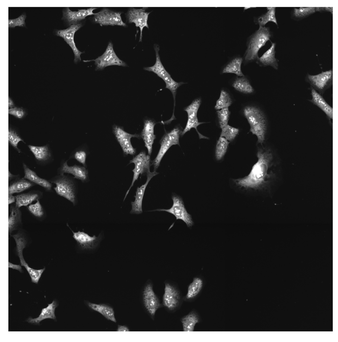
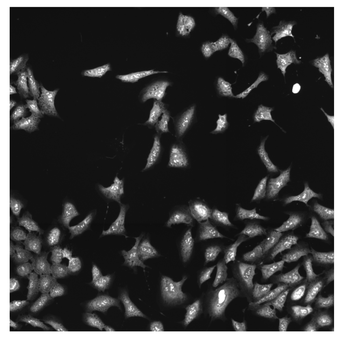
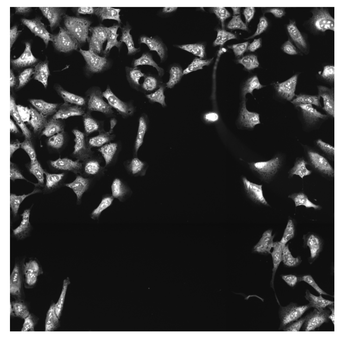


What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

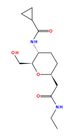
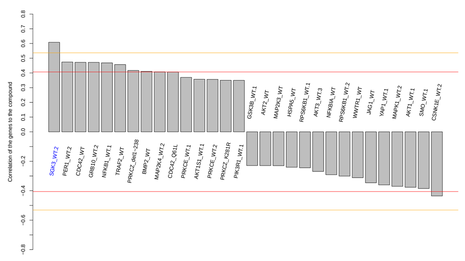
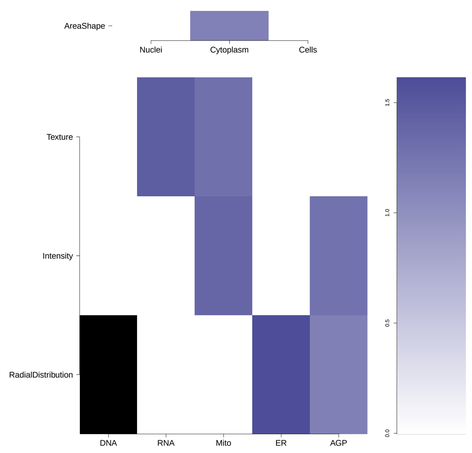
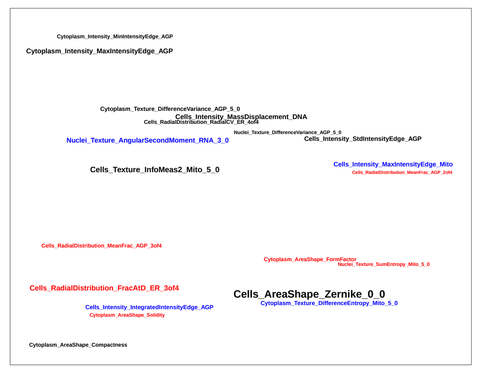
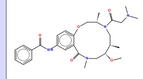
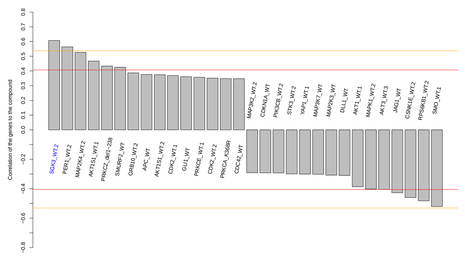
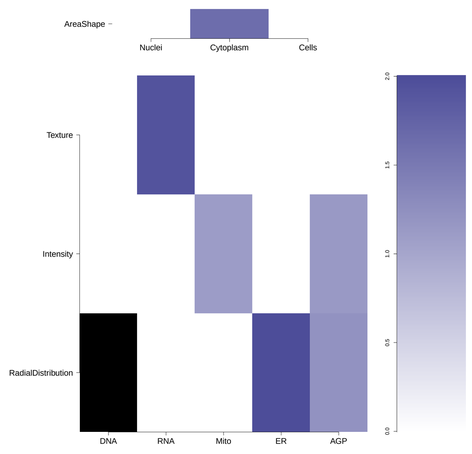
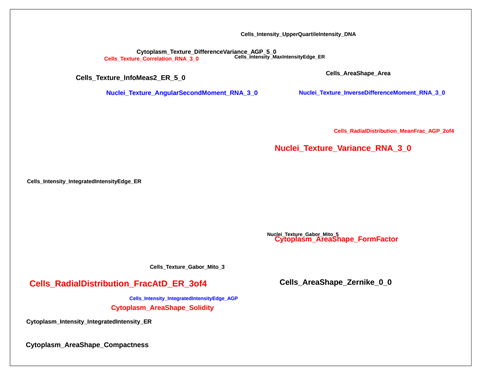
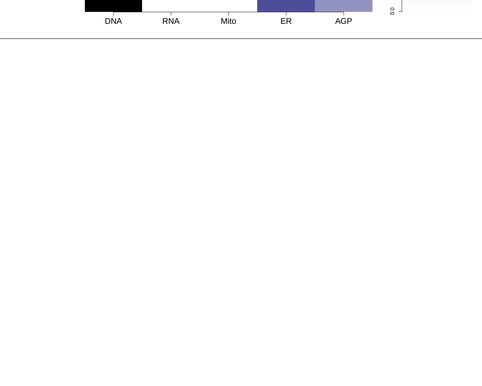
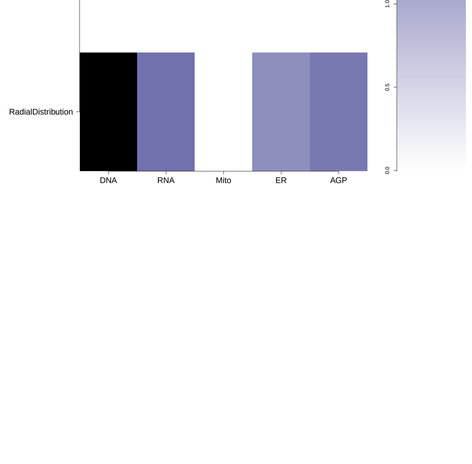
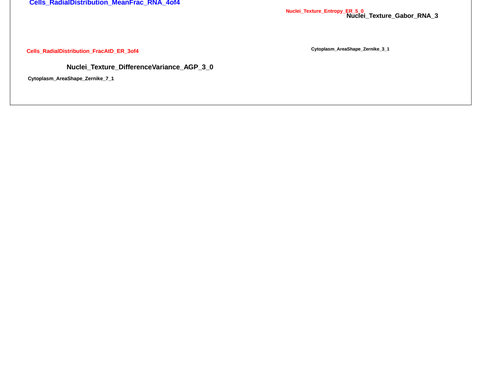


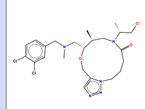
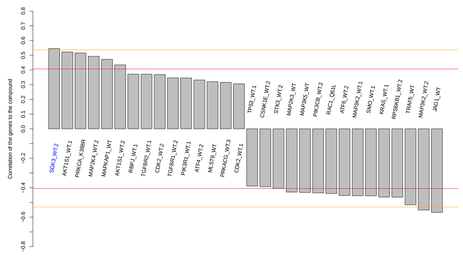
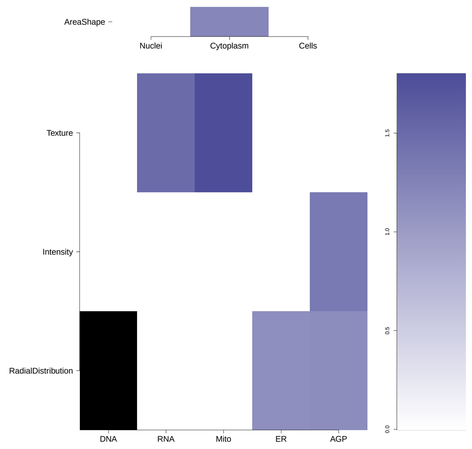
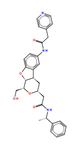
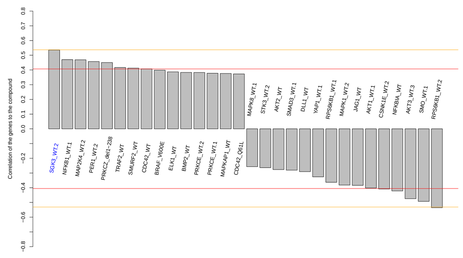
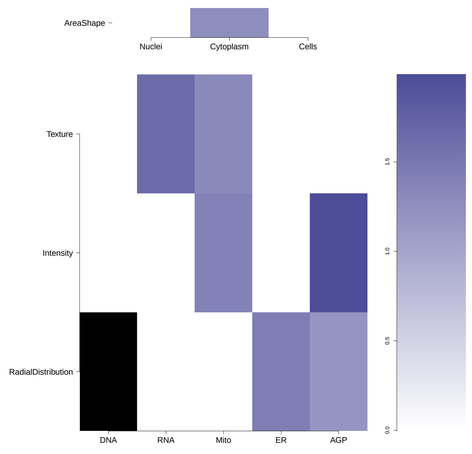
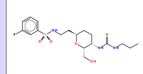
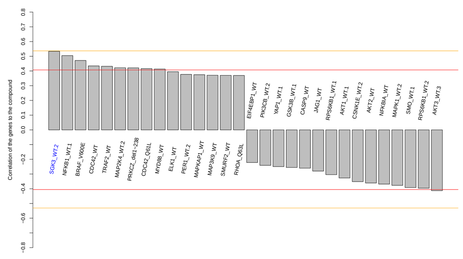
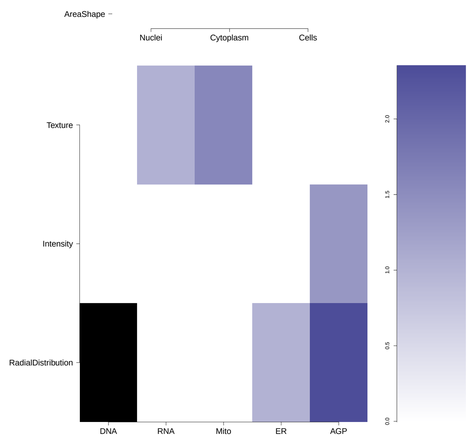
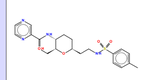
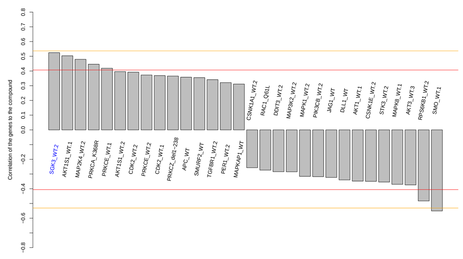
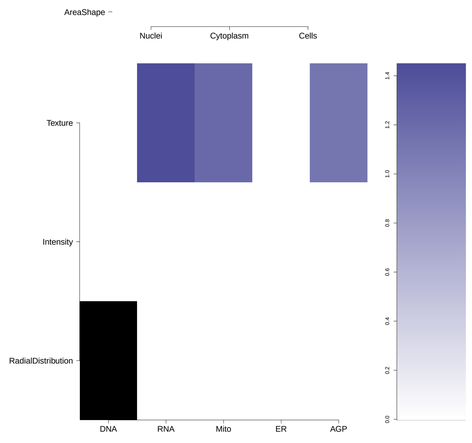
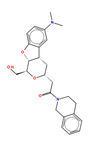
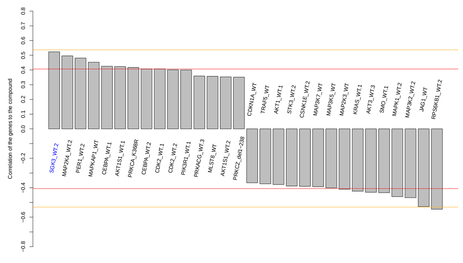
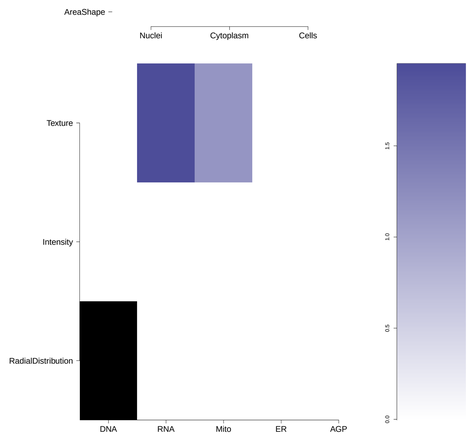
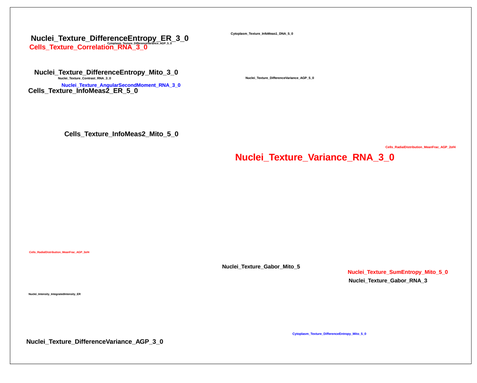
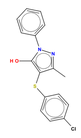
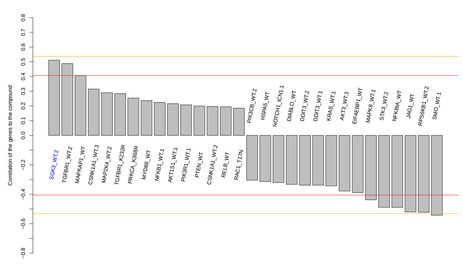
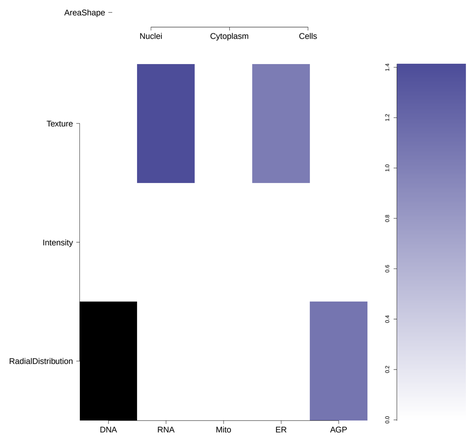
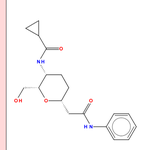
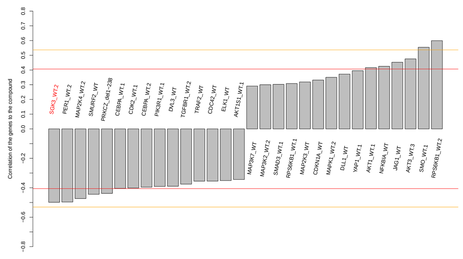
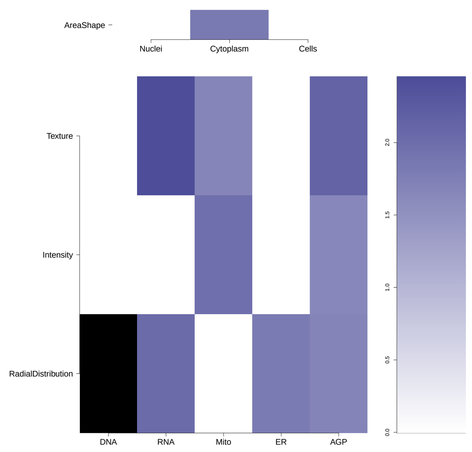
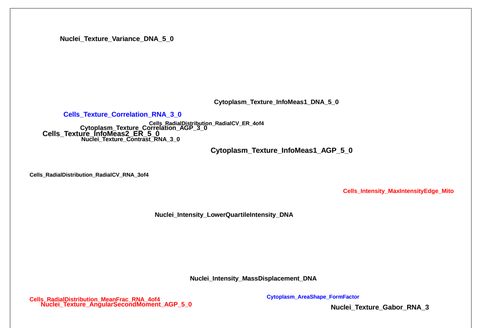
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.



Empty	SGK3_WT.2 (41744)	SGK3_WT.2 (41755)	SGK3_WT.2 (41756)	SGK3_WT.2 (41757)	SGK3_WT.2 (41754)
AGP						
RNA						

Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.53)	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-K45664515-001-01-1 PubChem CID : 54641261		NA (in 1 replicates)	0.61	NA				Total number of assays tested in: 39.
BRD-K90460185-001-01-7 PubChem CID : 54634100		0.75 (in 3 replicates)	0.61	0.562				Total number of assays tested in: 36.
BRD-K61415887-001-06-6 MLS000702412 SMR000224826 ZINC00271948 AC1LBONR BDBM72363 HMS2527J06 ZINC271948 HE199368 LS-192575 PubChem CID : 561606		NA (in 1 replicates)	0.60	NA				Total number of assays tested in: 652. Active in the following assays: • High Throughput Screen to Identify Compounds that Suppress the Growth of Human Colon Tumor Cells Lacking Oncogenic Beta Catenin Expression (AID 818) • High Throughput Screen to Identify Compounds that Suppress the Growth of Cells with a Deletion of the PTEN Tumor Suppressor (AID 827) • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • Leishmania major promastigote HTS (AID 1063) • HCS to Identify Inhibitors of Dynein Mediated Cargo Transport on Microtubules. (AID 1381) • qHTS Multiplex Assay to Identify Dual Action Probes in a Cell Model of Huntington: Aggregate Formation (GFP) (AID 1688) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) • Luminescence Cell-Based Dose Retest to Identify Potentiators of Heat Shock Factor 1 (HSF1) (AID 435004) • HCS to Identify Inhibitors of Dynein Mediated Cargo Transport on Microtubules: Confirmation Assay (AID 463116) • Concentration-Response Confirmation Assays for HCS to Identify Inhibitors of Dynein Mediated Cargo Transport on Microtubules (AID 463136) • HTS-Luminescent assay for inhibitors of ALR by detection of hydrogen peroxide production Measured in Biochemical System Using Plate Reader - 2036-02_Inhibitor_SinglePoint_HTS (AID 485317) • uHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346) • qHTS screen for small molecules that inhibit ELG1-dependent DNA repair in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504467) • 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 inhibitors of binding or entry into cells for Marburg Virus (AID 540276) • qHTS Assay for Inhibitors of Mammalian Selenoprotein Thioredoxin Reductase 1 (TrxR1): qHTS (AID 588453) • qHTS for Inhibitors of TGF-b: Cytotox Counterscreen (AID 588856) • A quantitative high throughput screen for small molecules that induce DNA re-replication in MCF 10a normal breast cells. (AID 624296) • qHTS for Inhibitors of ATXN expression (AID 651635) • Luminescence Cell-Based Primary HTS to identify inhibitors of the oncoprotein EWS/Fli transcriptional activity Measured in Cell-Based System Using Plate Reader - 7014-01_Inhibitor_SinglePoint_HTS_Activity (AID 651661) • qHTS of TDP-43 Inhibitors (AID 652104) • HTS for PAX8 inhibitors using PAX8 luciferase reporter gene assay in RMG-I cells Measured in Cell-Based System Using Plate Reader - 7054-01_Inhibitor_SinglePoint_HTS_Activity (AID 652154) • Luminescence Cell-Based Primary HTS to identify inhibitors of the oncoprotein EWS/Fli transcriptional activity Measured in Cell-Based System Using Plate Reader - 7014-01_Inhibitor_Dose_CherryPick_Activity (AID 686920) • 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) • Luminescence cell-based Retest at Dose assay to determine EWS/Fli1 dependent TC71 mammalian cell cytotoxity Measured in Cell-Based System Using Plate Reader - 7014-04_Inhibitor_Dose_CherryPick_Activity (AID 720570) • Luminescence cell-based Retest at Dose assay to determine EWS/Fli1 dependent A673 mammalian cell cytotoxity Measured in Cell-Based System Using Plate Reader - 7014-03_Inhibitor_Dose_CherryPick_Activity (AID 720587) • HEK293 Cytotoxicity Assay Measured in Cell-Based System Using Plate Reader - 7071-01_Inhibitor_Dose_CherryPick_Activity_Set3 (AID 720588) • qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279) • High Throughput Screening for Foot and Mouth Disease Virus Antivirals (AID 1159524)
BRD-K11696795-001-01-4 PubChem CID : 54634120		0.66 (in 3 replicates)	0.58	0.256				Total number of assays tested in: 37.

BRD-K61872587-001-02-0 MLS003130233 SMR001834679 PubChem CID : 44505208		0.55 (in 3 replicates)	0.55	0.831				Total number of assays tested in: 221.
BRD-K31703908-001-01-8 PubChem CID : 54646650		0.85 (in 4 replicates)	0.54	0.566				Total number of assays tested in: 36.
BRD-K32683110-001-01-5 PubCID : 54641154		NA (in 1 replicates)	0.53	NA				Total number of assays tested in: 38.
BRD-K37037521-001-01-2 PubCID : 54641105		NA (in 1 replicates)	0.52	NA				Total number of assays tested in: 38. Active in the following assays: • Small molecule inhibitors of miR122 Measured in Cell-Based System Using Plate Reader - 2144-01_Inhibitor_SinglePoint_HTS_Activity (AID 602342) • Small molecule inhibitors of miR122 Measured in Cell-Based System Using Plate Reader - 2144-01_Inhibitor_Dose_CherryPick_Activity (AID 652053)
BRD-K82758569-001-01-0 PubCID : 54646411		0.68 (in 4 replicates)	0.52	0.562				Total number of assays tested in: 41. Active in the following assays: • Plasmodium falciparum Dd2 Sybr green parasite growth Measured in Cell-Based and Microorganism Combination System Using Plate Reader - 2153-05_Inhibitor_Dose_CherryPick_Activity (AID 1159567)
BRD-K05950645-001-07-2 MLS000536739 SMR000155669 AC1LGWR5 BDBM48497 HMS1485K04 HMS2379O21 IDI1 022358 F1386-0259 T0500-8534 PubCID : 828338		NA (in 1 replicates)	0.51	NA				Total number of assays tested in: 701. Active in the following assays: • HTS for Estrogen Receptor-beta Coactivator Binding inhibitors (AID 633) • Screening for Modulators of Post-Golgi Transport, Control Strain (AID 738) • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • Inhibitors of Plasmodium falciparum M17-Family Leucine Aminopeptidase (M17LAP) (AID 1619) • Fluorescence Cell-Free Homogenous Primary HTS to Identify Inhibitors of RecA Intein Splicing Activity (AID 2221) • Fluorescence Cell-Free Homogeneous Counter Screen to Identify Inhibitors of GFP Chromophore Formation (AID 434968) • Fluorescence Cell-Free Homogeneous Dose Retest to Identify Inhibitors of RecA-Intein Splicing Activity (AID 435010) • Fluorescence Cell-Free Homogeneous Secondary Screen to Identify Inhibitors of DnaB-Intein Splicing Activity (AID 449749) • Fluorescence Cell-Free Homogeneous Secondary Screen to Identify Non-Covalent Inhibitors of RecA-Intein Splicing Activity (AID 449750)
BRD-K03013810-001-01-3 PubCID : 54638216		0.72 (in 4 replicates)	-0.50	0.743				Total number of assays tested in: 37.

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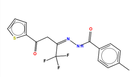
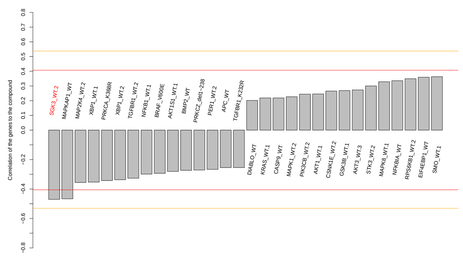
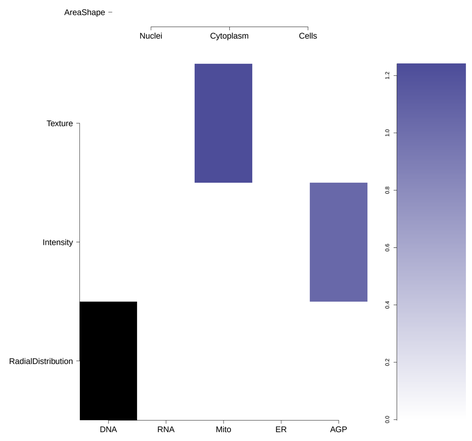


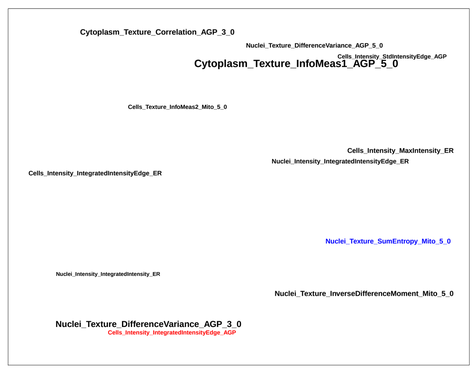
NA (in 1 replicates)

-0.47

NA

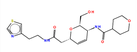
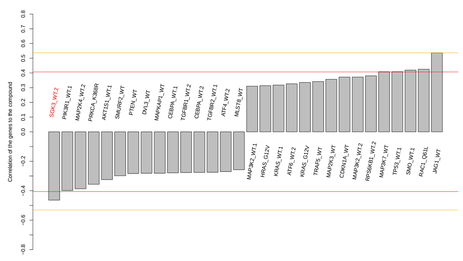
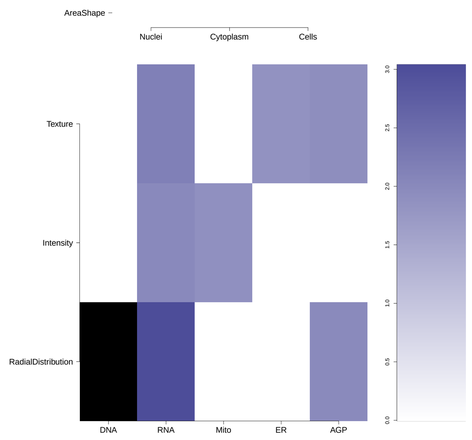
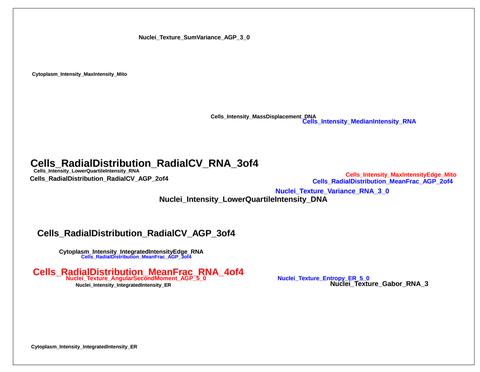
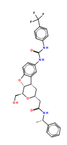
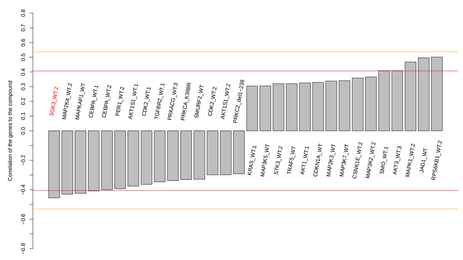
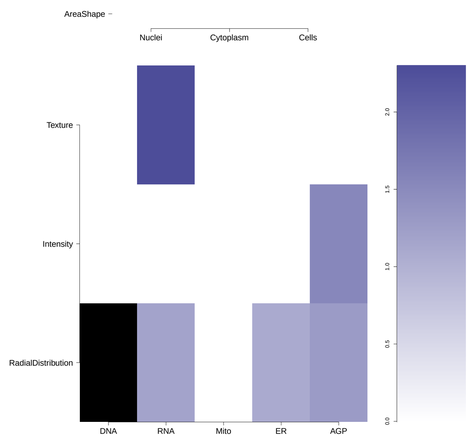
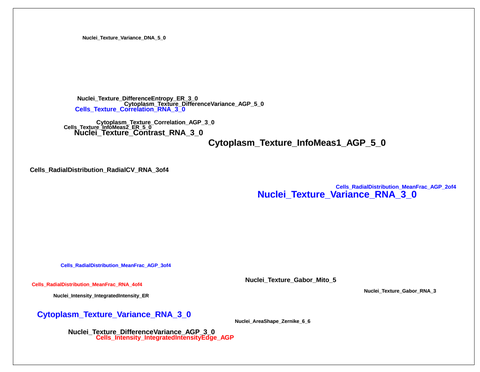
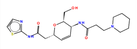
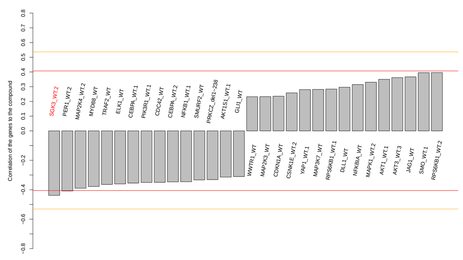
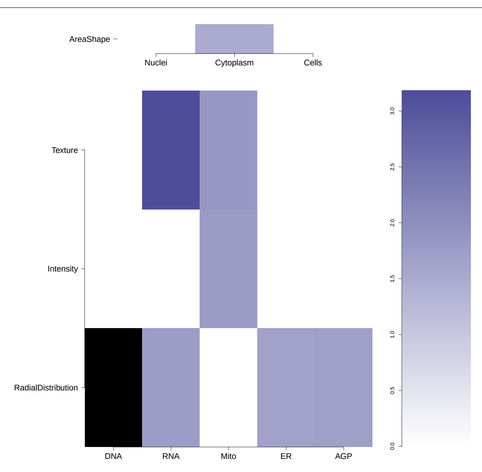






Total number of assays tested in: 693. Active in the following assays:

- Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Primary Screen (AID 1456)
- HTS identification of compounds inhibiting the binding of CD11b/CD18 to fibrinogen via a luminescence assay. (AID 1497)
- Primary cell-based high-throughput screening assay for identification of compounds that protect hERG from block by proarrhythmic agents (AID 1511)
- uHTS luminescence assay for the identification of compounds that inhibit NOD1 (AID 1578)
- Confirmatory screen for compounds that protect hERG from block by proarrhythmic agents (AID 1835)
- KCNQ2 Counter screen for compounds that protect hERG from block by proarrhythmic agents (AID 1942)
- Primary cell-based high-throughput screening assay for identification of compounds that potentiate KCNQ2 potassium channels (AID 2239)
- 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)
- Primary cell-based high-throughput screening assay for identification of compounds that potentiate/activate KCNQ1 potassium channels (AID 2648)
- Luminescence-based primary cell-based high throughput screening assay to identify activators of the Aryl Hydrocarbon Receptor (AHR) (AID 2796)
- A Cell Based Secondary Assay To Explore Cytotoxicity of Compounds that Inhibit Mycobacterium Tuberculosis (AID 435019)
- High Throughput Screening Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in 7H9 Media (AID 449762)
- A High Throughput Confirmatory Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in the absence of Glycerol (AID 449764)
- uHTS identification of small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 463190)
- Single concentration confirmation of small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 463213)
- Assay for HTS of Gi/Go-linked GPCRs using mGluR8: Primary Screening (AID 488969)
- Counter screen assay of the parental CHO cells for identification of compounds that potentiate KCNQ1 potassium channels (AID 493006)
- Validation assay for identification of compounds that potentiate KCNQ1 potassium channels (AID 493007)
- Specificity screen assay against KCNQ2 for identification of compounds that potentiate KCNQ1 potassium channels (AID 493009)
- uHTS fluorescent assay for identification of inhibitors of ATG4B (AID 504462)
- High Throughput Screening Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in 7H9 Media using Purified and Synthesized Compounds (2) (AID 504556)
- A Cell Based Secondary Assay To Explore Cytotoxicity of Purified and Synthesized Compounds that Inhibit Mycobacterium Tuberculosis (2) (AID 504562)
- A High Throughput Confirmatory Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in the absence of Glycerol using Purified and Synthesized Compounds (2) (AID 504564)
- A Cell Based Secondary Assay to Explore Cytotoxicity in THP-1 Cells of Compounds that Modulate Mycobacterium tuberculosis in Media Containing Glycerol versus Media without Glycerol (AID 504640)
- A Cell Based Secondary Assay to Explore Cytotoxicity in HepG2 Cells of Compounds that Modulate Mycobacterium tuberculosis in Media Containing Glycerol versus Media without Glycerol (AID 504642)
- A High Throughput Confirmatory Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in the absence of Glycerol using Purified and Synthesized Compounds (3) (AID 504645)
- High Throughput Screening Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in 7H9 Media using Purified and Synthesized Compounds (3) (AID 504646)
- A Cell Based Secondary Assay to Explore Cytotoxicity in HepG2 Cells of Compounds that Modulate Mycobacterium tuberculosis in Media Containing Glycerol versus Media without Glycerol (2) (AID 504682)
- A Cell Based Secondary Assay to Explore Cytotoxicity in THP-1 Cells of Compounds that Modulate Mycobacterium tuberculosis in Media Containing Glycerol versus Media without Glycerol (2) (AID 504683)
- A Cell Based Secondary Assay To Explore Vero Cell Cytotoxicity of Purified and Synthesized Compounds that Inhibit Mycobacterium Tuberculosis (3) (AID 504684)
- A Cell Based Secondary Assay to Explore Cytotoxicity in THP-1 Cells of Compounds that Modulate Mycobacterium tuberculosis in Media Containing Glycerol versus Media without Glycerol (3) (AID 504852)
- A Cell Based Secondary Assay to Explore Cytotoxicity in HepG2 Cells of Compounds that Modulate Mycobacterium tuberculosis in Media Containing Glycerol versus Media without Glycerol (3) (AID 504853)
- A Cell Based Secondary Assay To Explore Vero Cell Cytotoxicity of Purified and Synthesized Compounds that Inhibit Mycobacterium Tuberculosis (4) (AID 504854)
- High Throughput Screening Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in 7H9 Media using Purified and Synthesized Compounds (4) (AID 504857)
- A High Throughput Confirmatory Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in the absence of Glycerol using Purified and Synthesized Compounds (4) (AID 504860)
- High Throughput Screening Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in 7H9 Media using Purified and Synthesized Compounds (6) (AID 504897)
- A High Throughput Confirmatory Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in the absence of Glycerol using Purified and Synthesized Compounds (5) (AID 504898)
- A High Throughput Confirmatory Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in the absence of Glycerol using Purified and Synthesized Compounds (6) (AID 504901)
- High Throughput Screening Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in 7H9 Media using Purified and Synthesized Compounds (5) (AID 504903)
- A Cell Based Secondary Assay To Explore Vero Cell Cytotoxicity of Purified and Synthesized Compounds that Inhibit Mycobacterium Tuberculosis (5) (AID 504909)
- A Cell Based Secondary Assay to Explore Cytotoxicity in HepG2 Cells of Compounds that Modulate Mycobacterium tuberculosis in Media Containing Glycerol versus Media without Glycerol (4) (AID 504910)
- A Cell Based Secondary Assay to Explore Cytotoxicity in THP-1 Cells of Compounds that Modulate Mycobacterium tuberculosis in Media Containing Glycerol versus Media without Glycerol (4) (AID 504911)
- uHTS identification of antagonists of the CRF-binding protein and CRF-R2 receptor complex (AID 588475)
- Dose Response confirmation of uHTS hits for small molecule antagonists of the CRF-binding protein and CRF-R2 receptor complex (AID 602180)
- uHTS identification of small molecule inhibitors of the mitochondrial permeability transition pore via an absorbance assay (AID 602449)
- Development of Subtype-specific Activators of the GIRK family of Potassium Channels (mGlu8_nonGIRK_Counterscreen) (AID 623868)
- Development of Subtype-specific Activators of the GIRK family of Potassium Channels (rmGlu8_Gqi9_Counterscreen) (AID 623869)
- Activators of the GIRK family of Potassium Channels (GIRK1/2_Confirmatory) (AID 623911)
- A Quantitative High throughput Screen to Identify Chemical Modulators of PINK1 Ex-

BRD-K31385226-001-01-9 PubChem CID : 54638334		0.60 (in 4 replicates)	-0.46	0.307				Total number of assays tested in: 36.
BRD-K17686770-001-01-8 PubChem CID : 54646234		0.58 (in 3 replicates)	-0.46	0.338				Total number of assays tested in: 39.
BRD-K23956044-001-01-7 PubChem CID : 54640918		0.66 (in 4 replicates)	-0.44	0.438				Total number of assays tested in: 42. Active in the following assays: • S100A4: HTS Measured in Biochemical System Using Plate Reader - 7045-01_Inhibitor_SinglePoint_HTS_Activity (AID 652163)