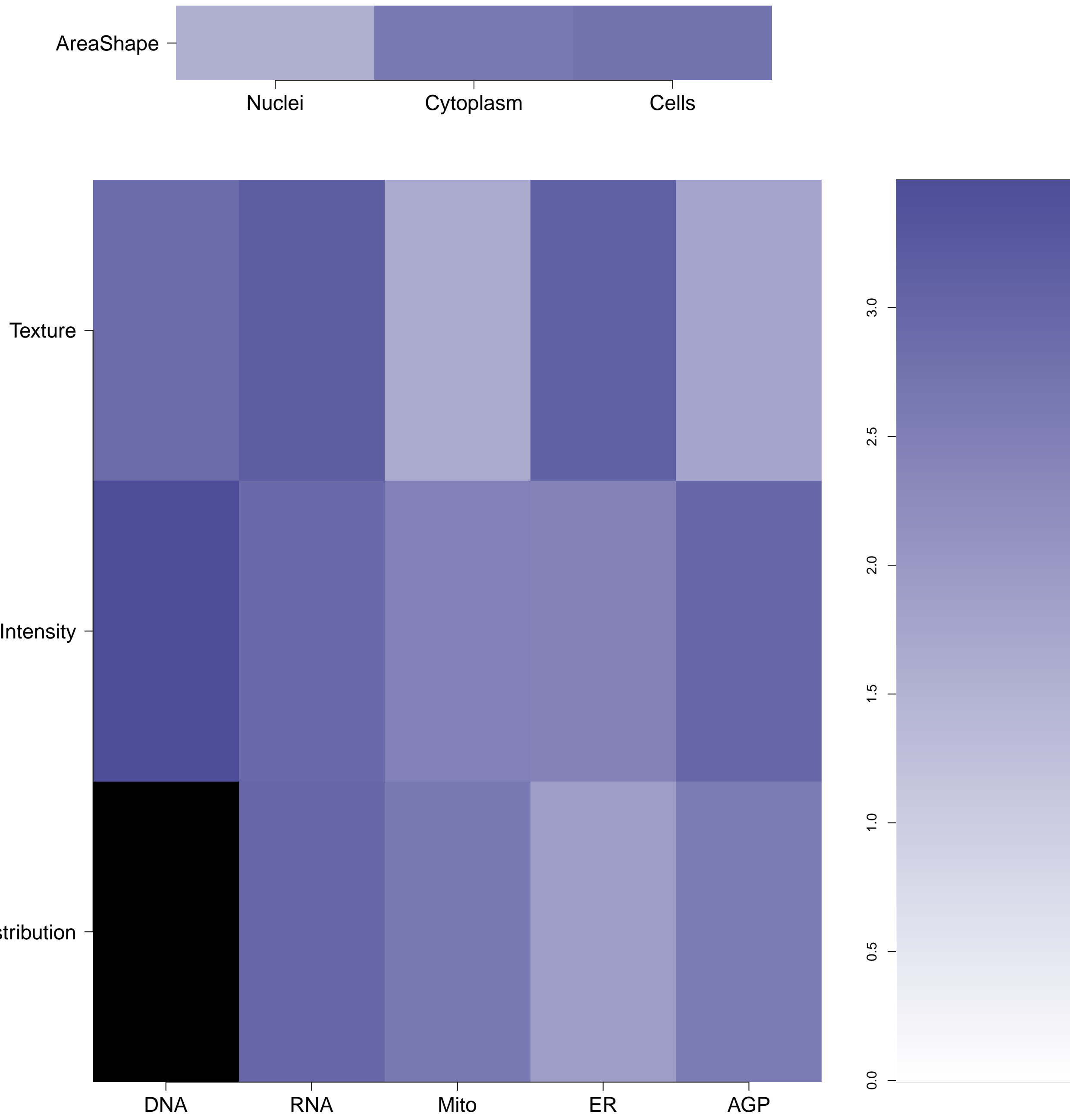
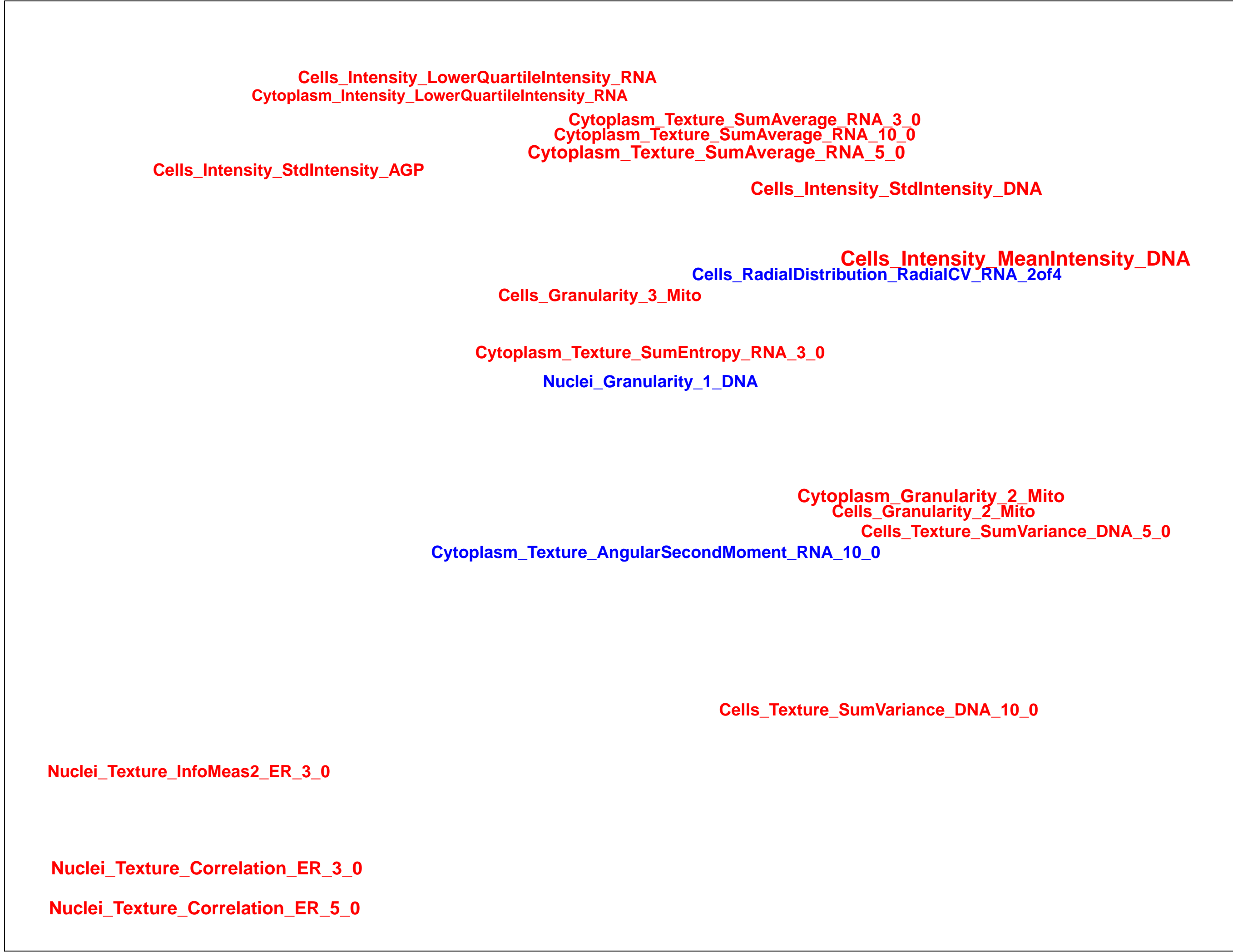


What groups of morphological features are distinguishing in the cluster relative to the untreated samples?  
(maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in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

STK11.WT.2 (41744)

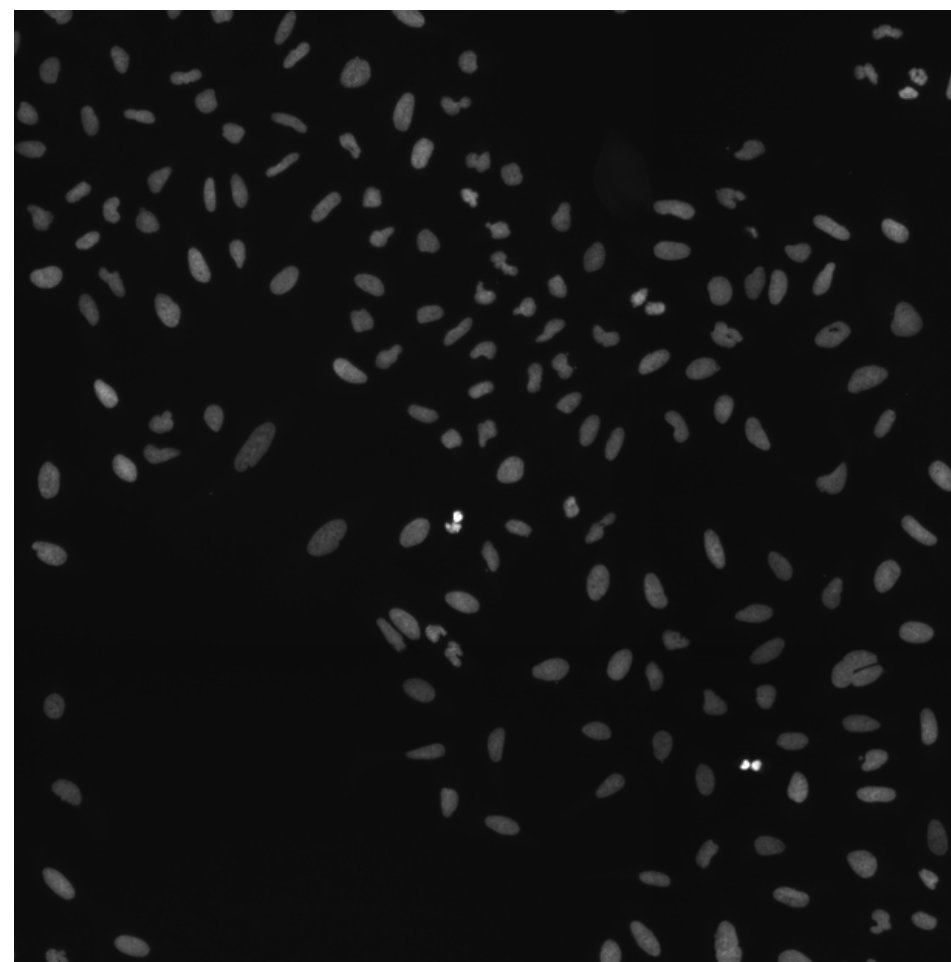
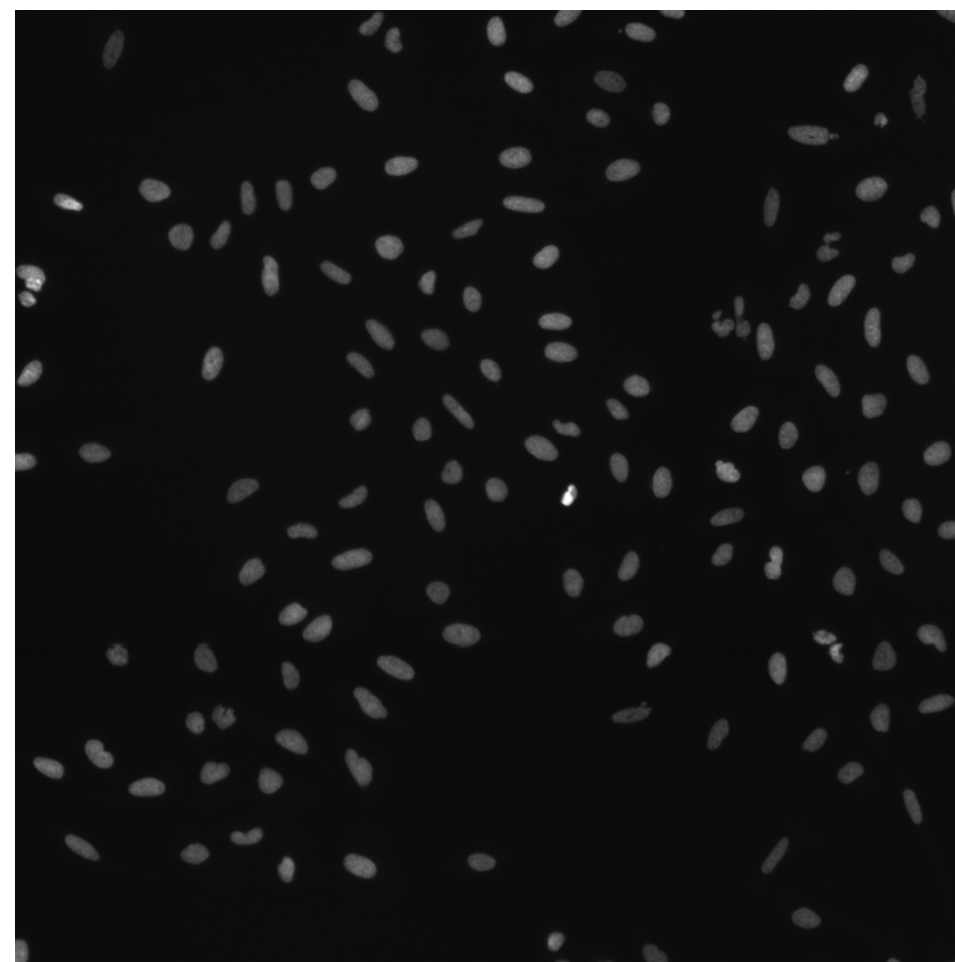
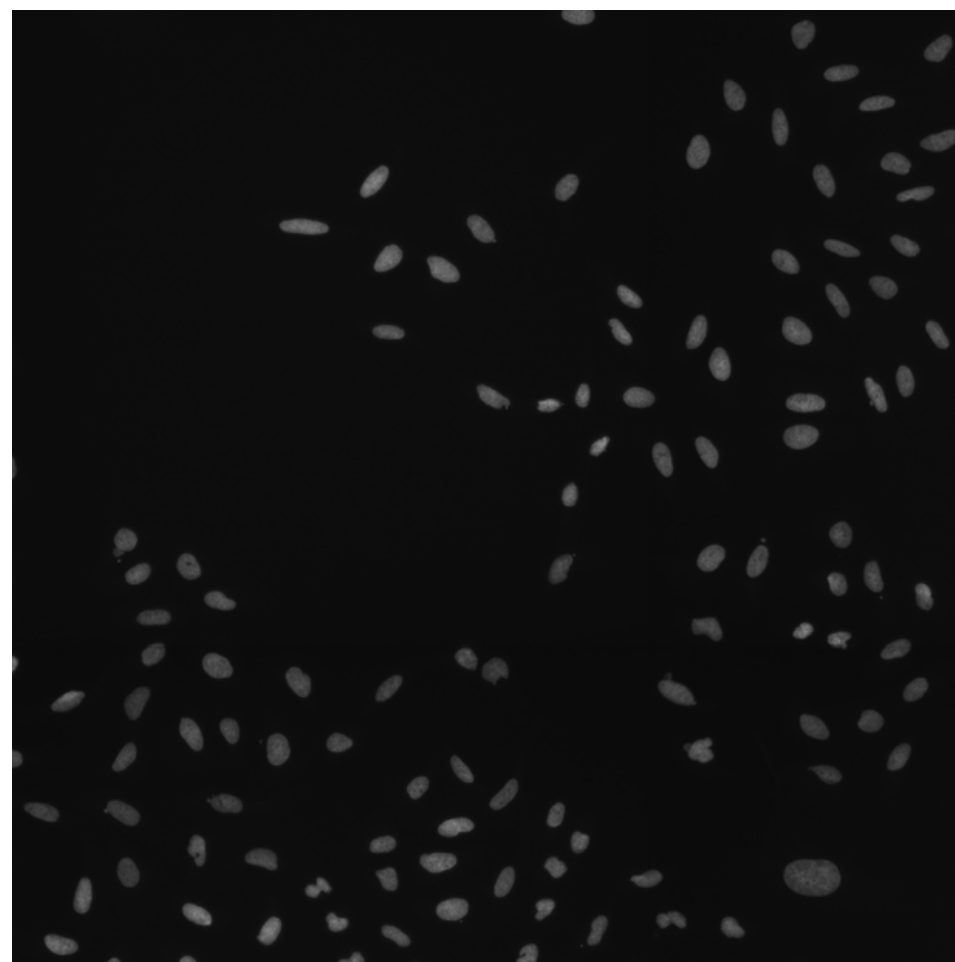
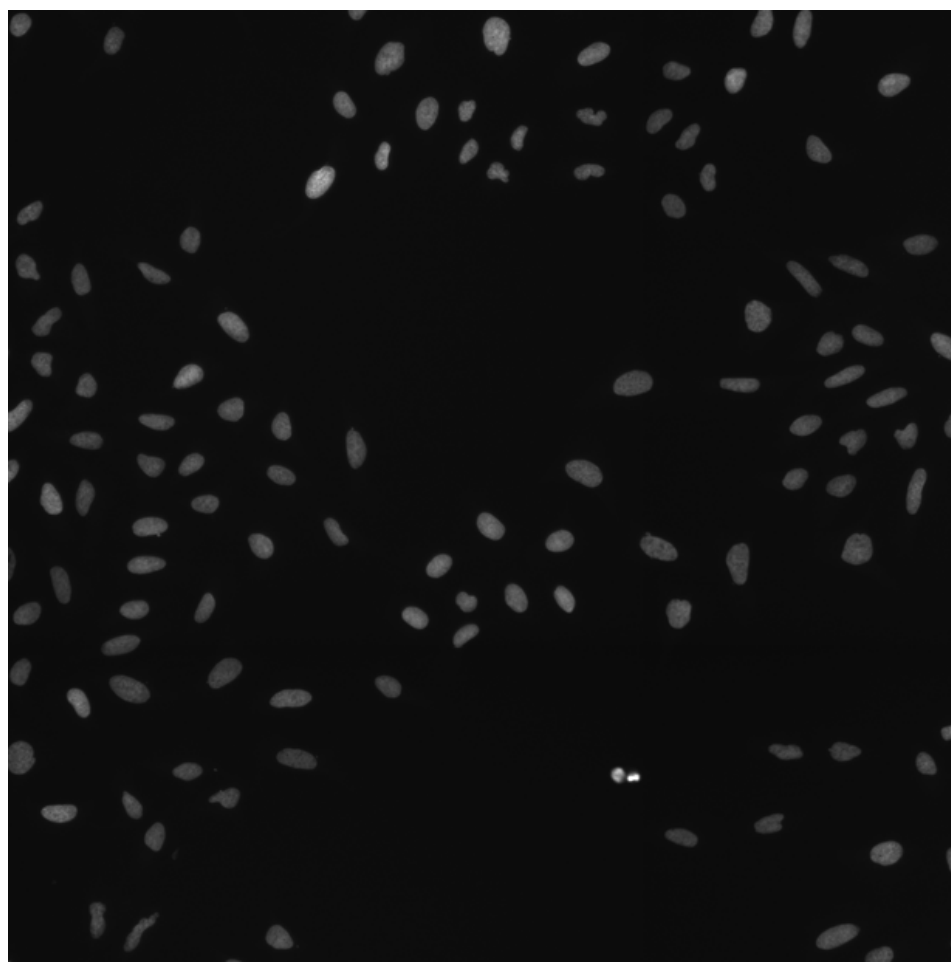
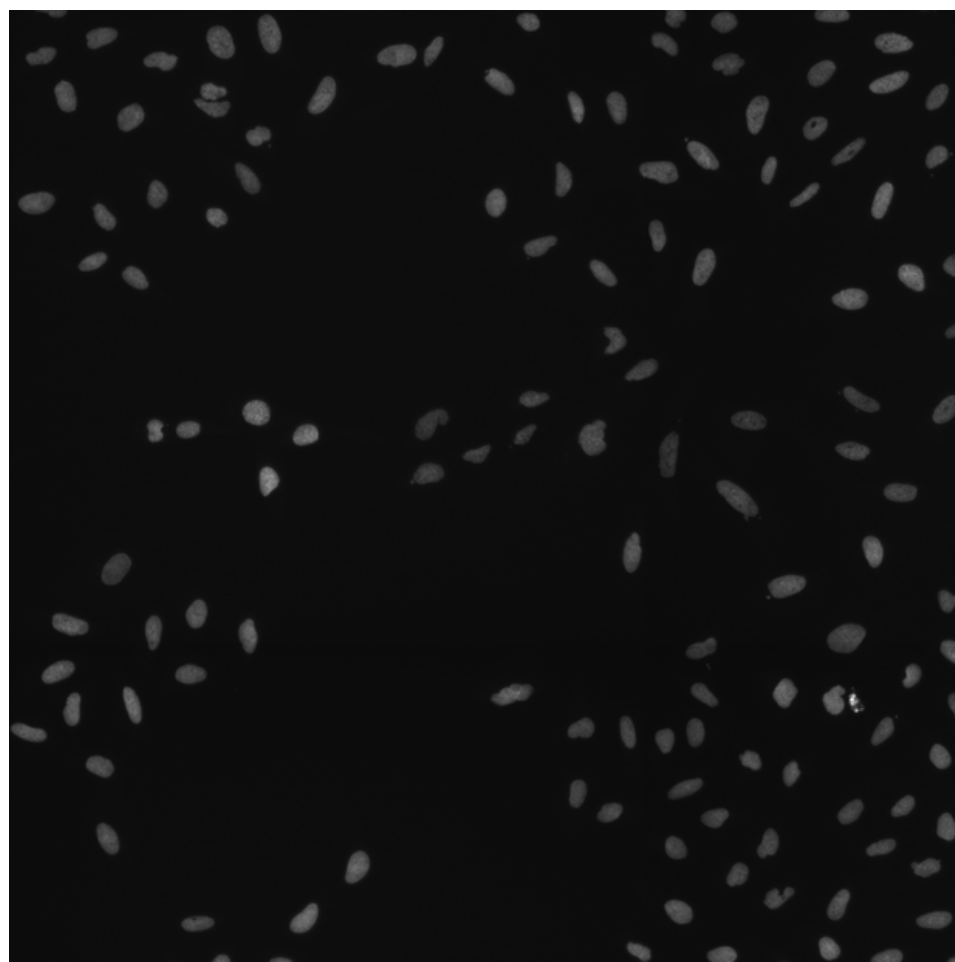
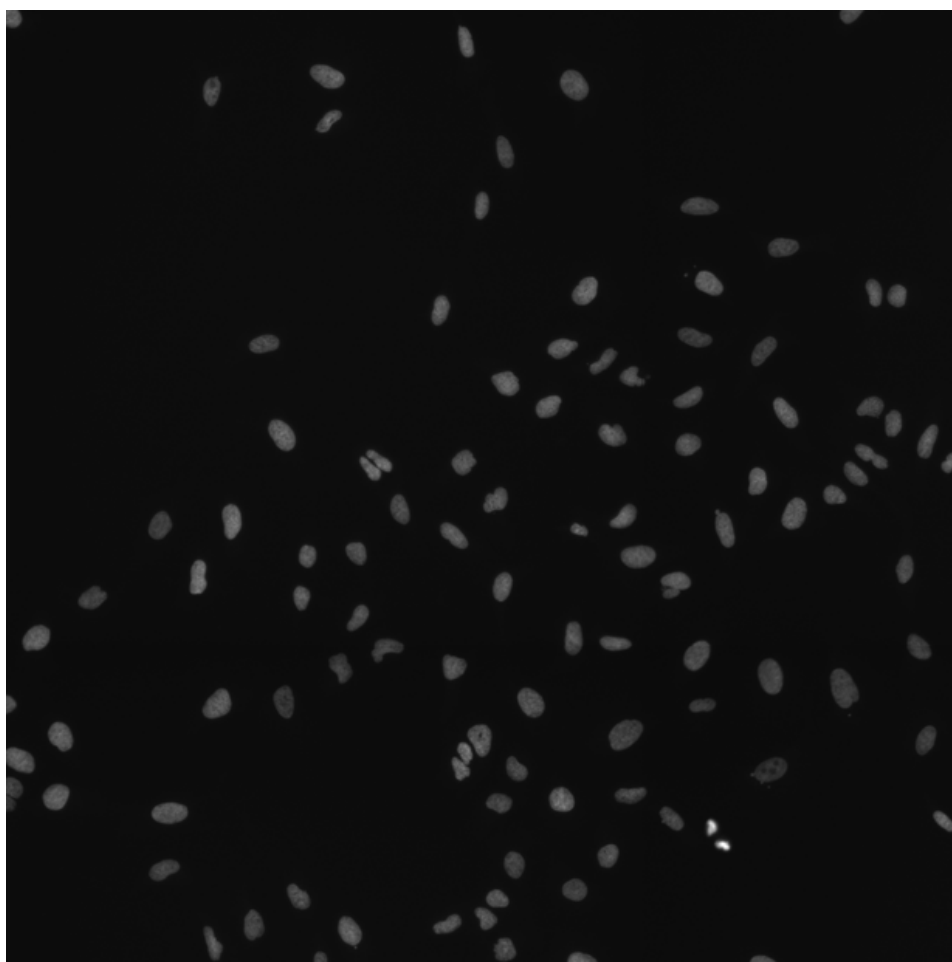
STK11.WT.2 (41755)

STK11.WT.2 (41756)

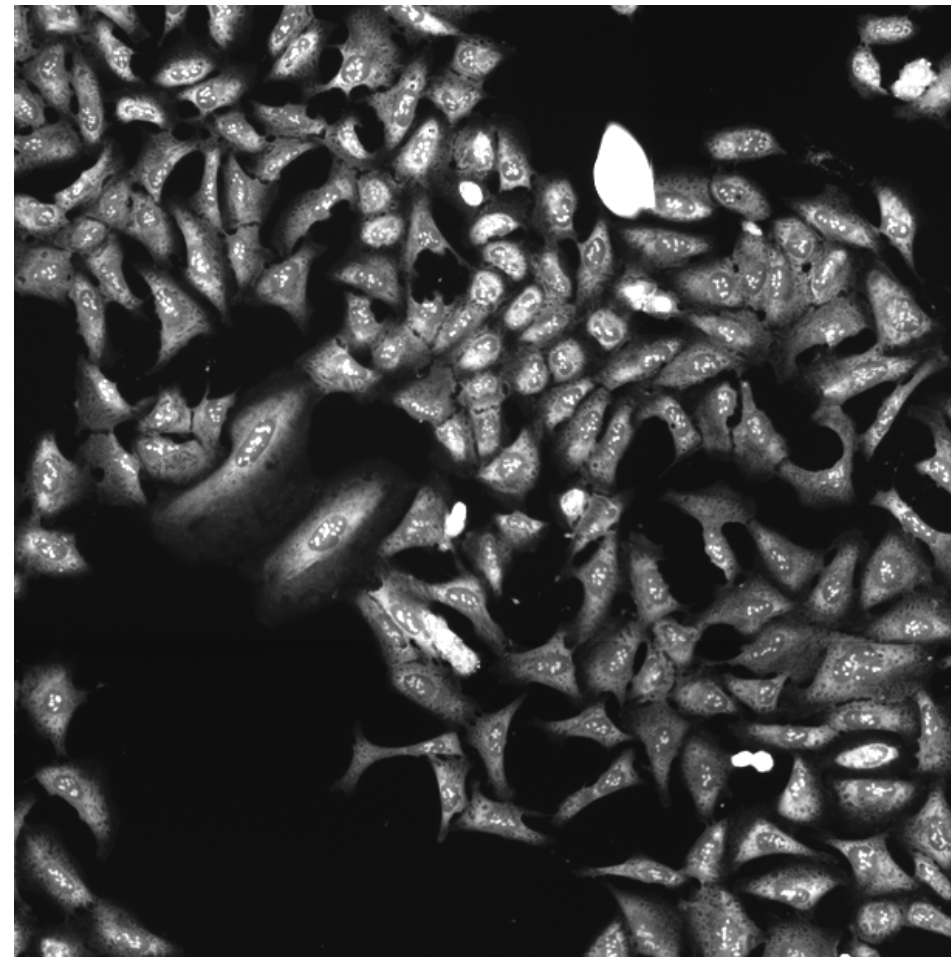
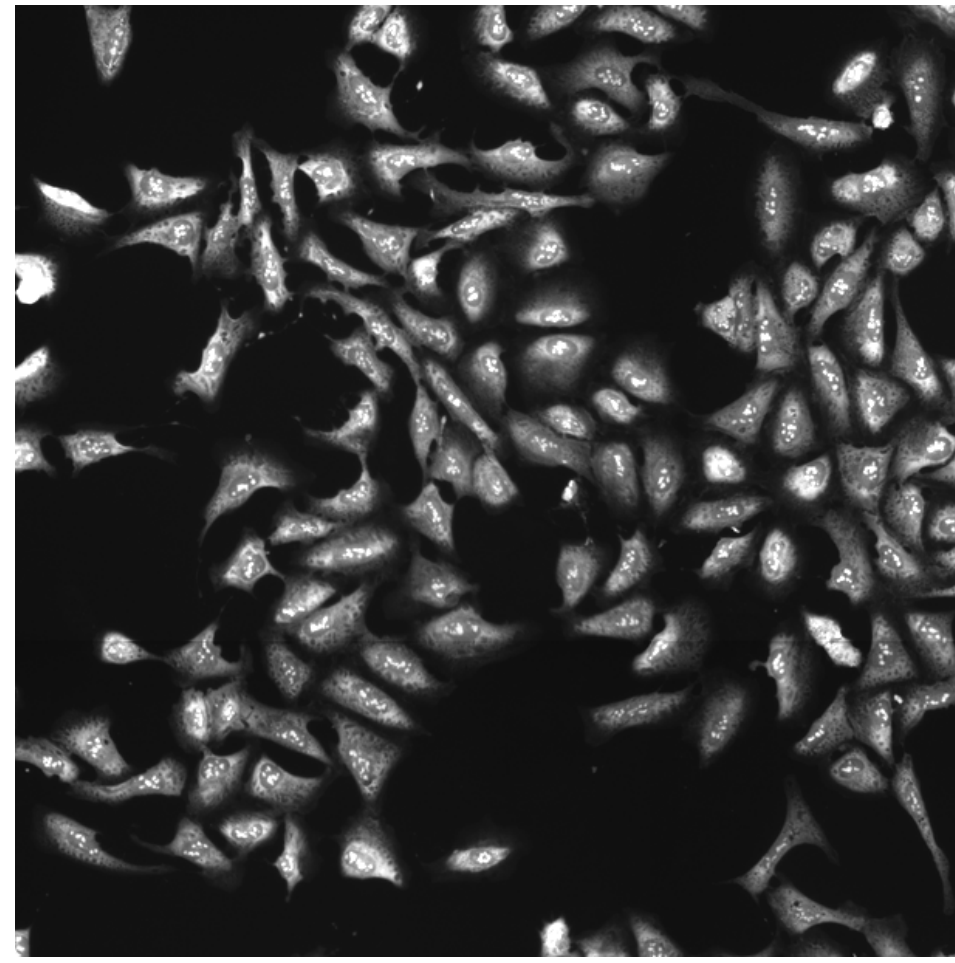
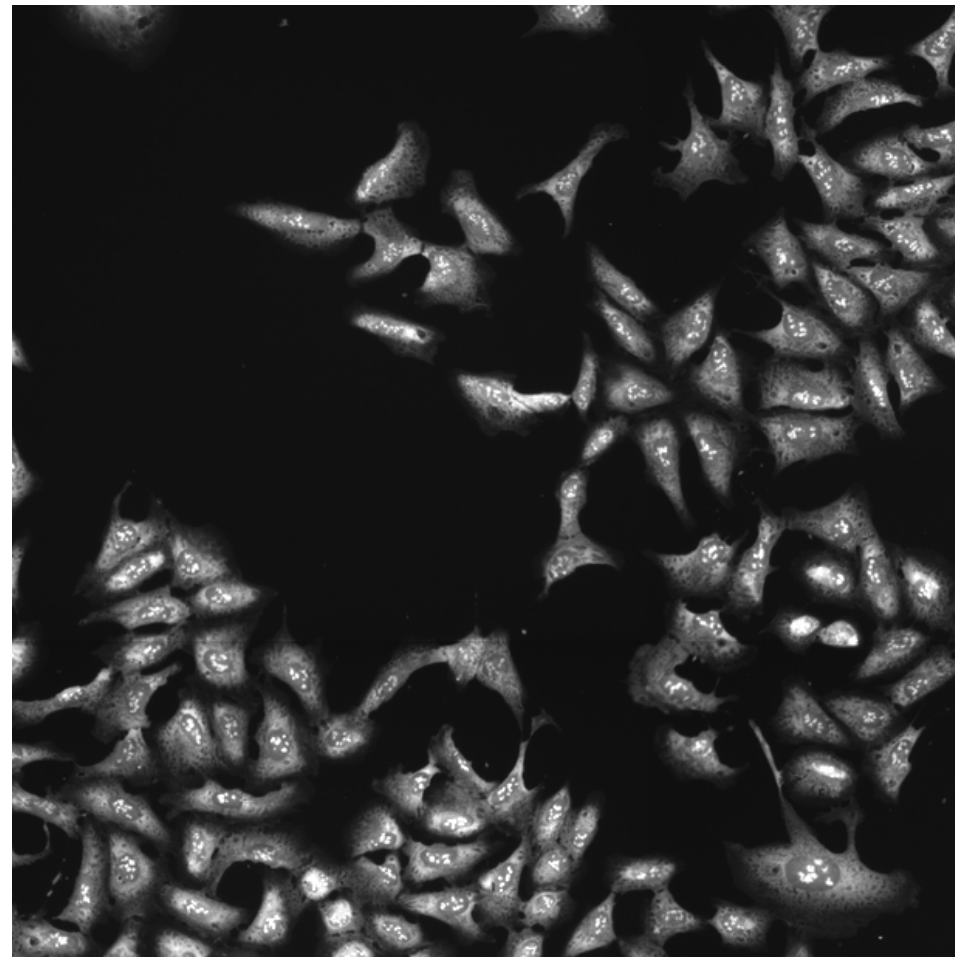
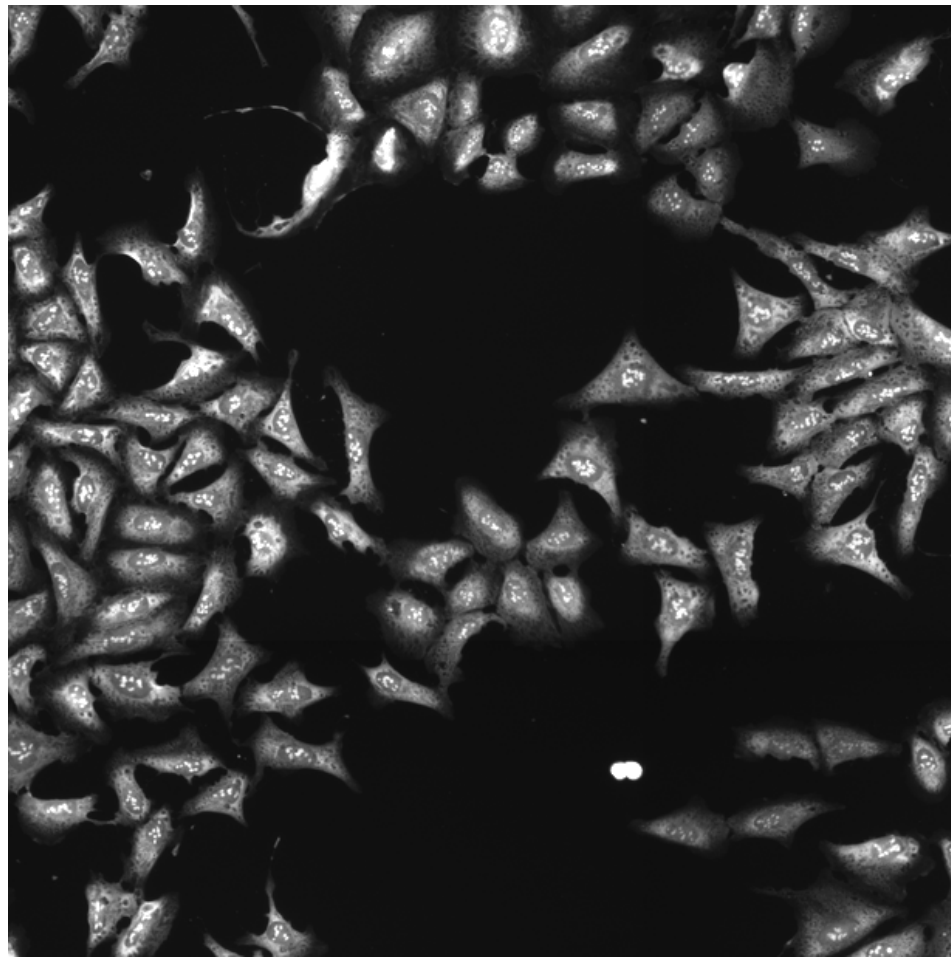
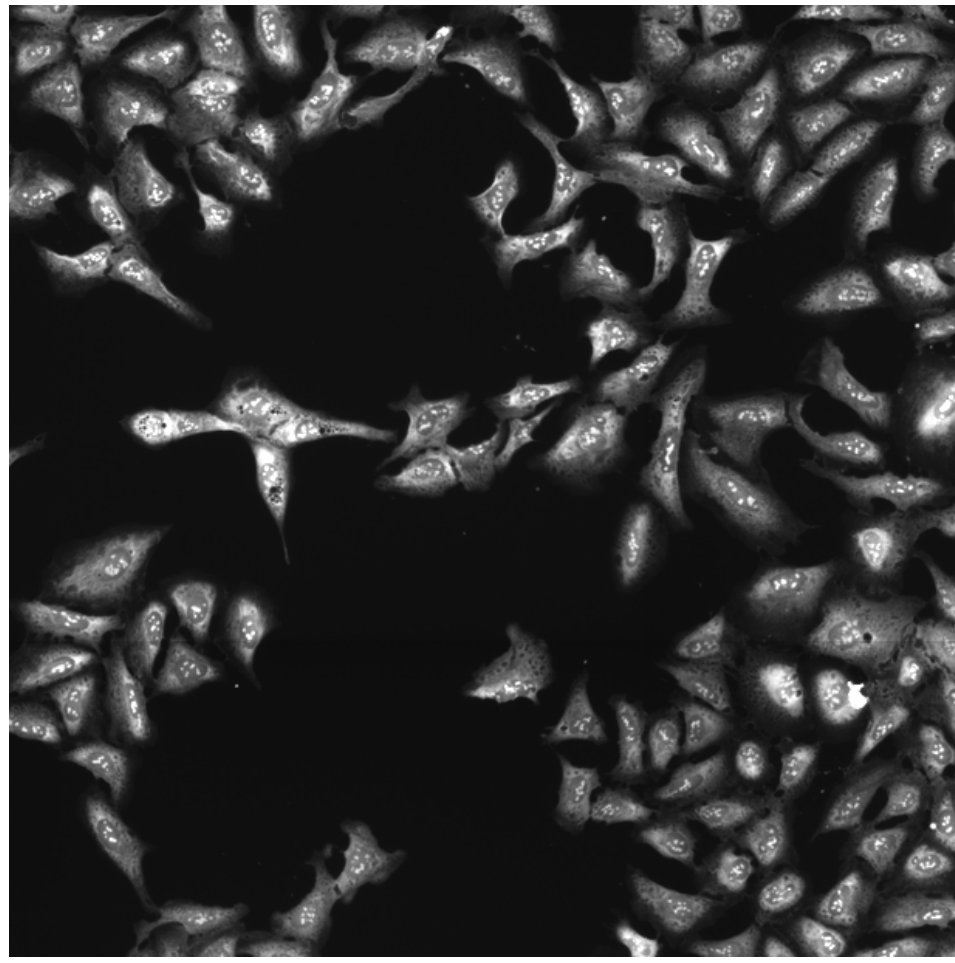
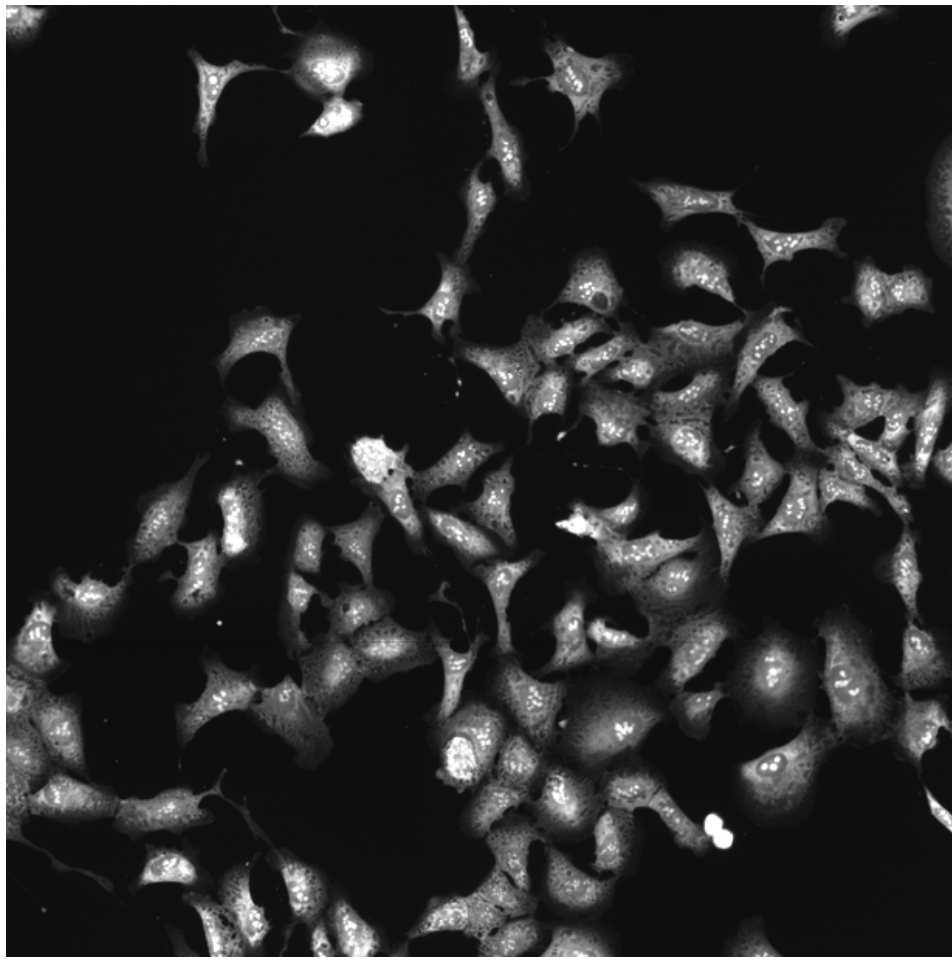
STK11.WT.2 (41757)

STK11.WT.2 (41754)

DNA

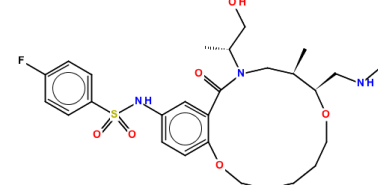
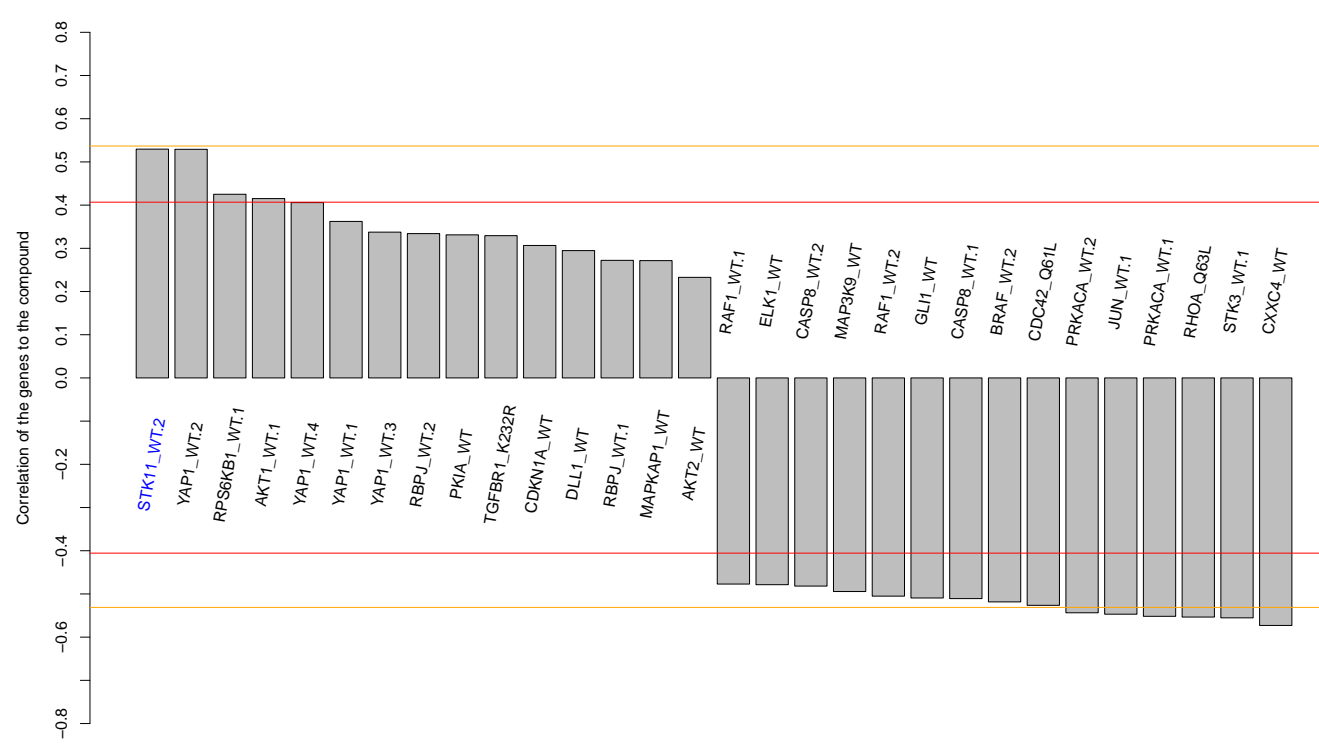
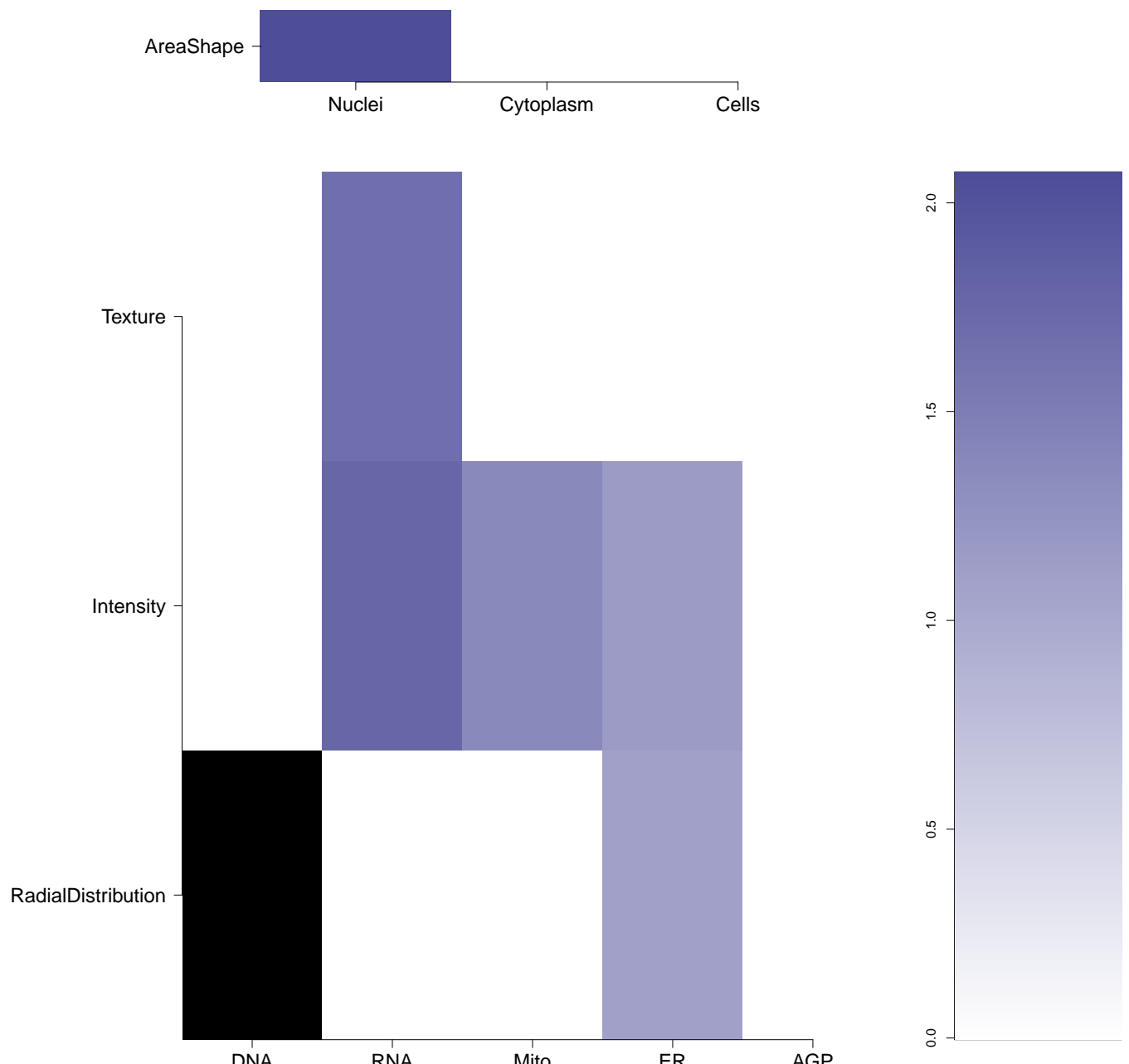

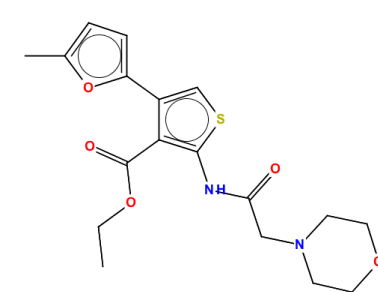
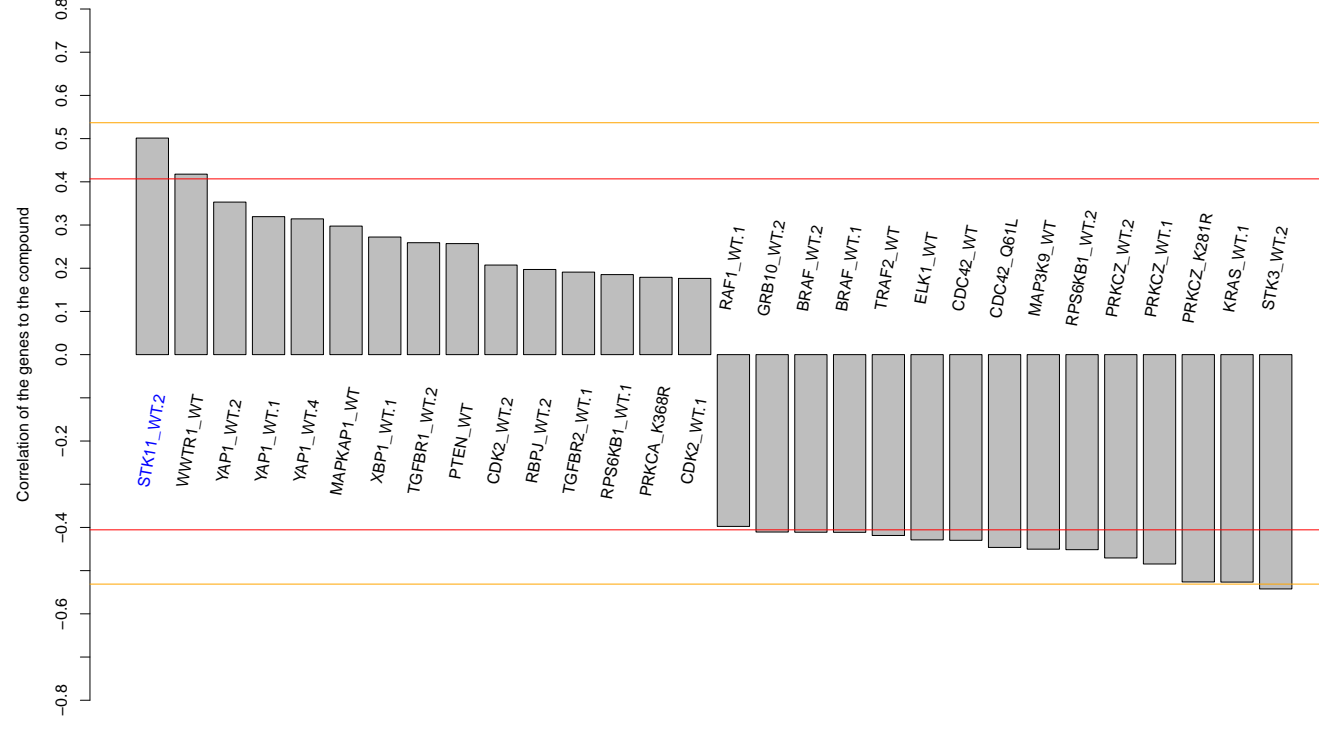
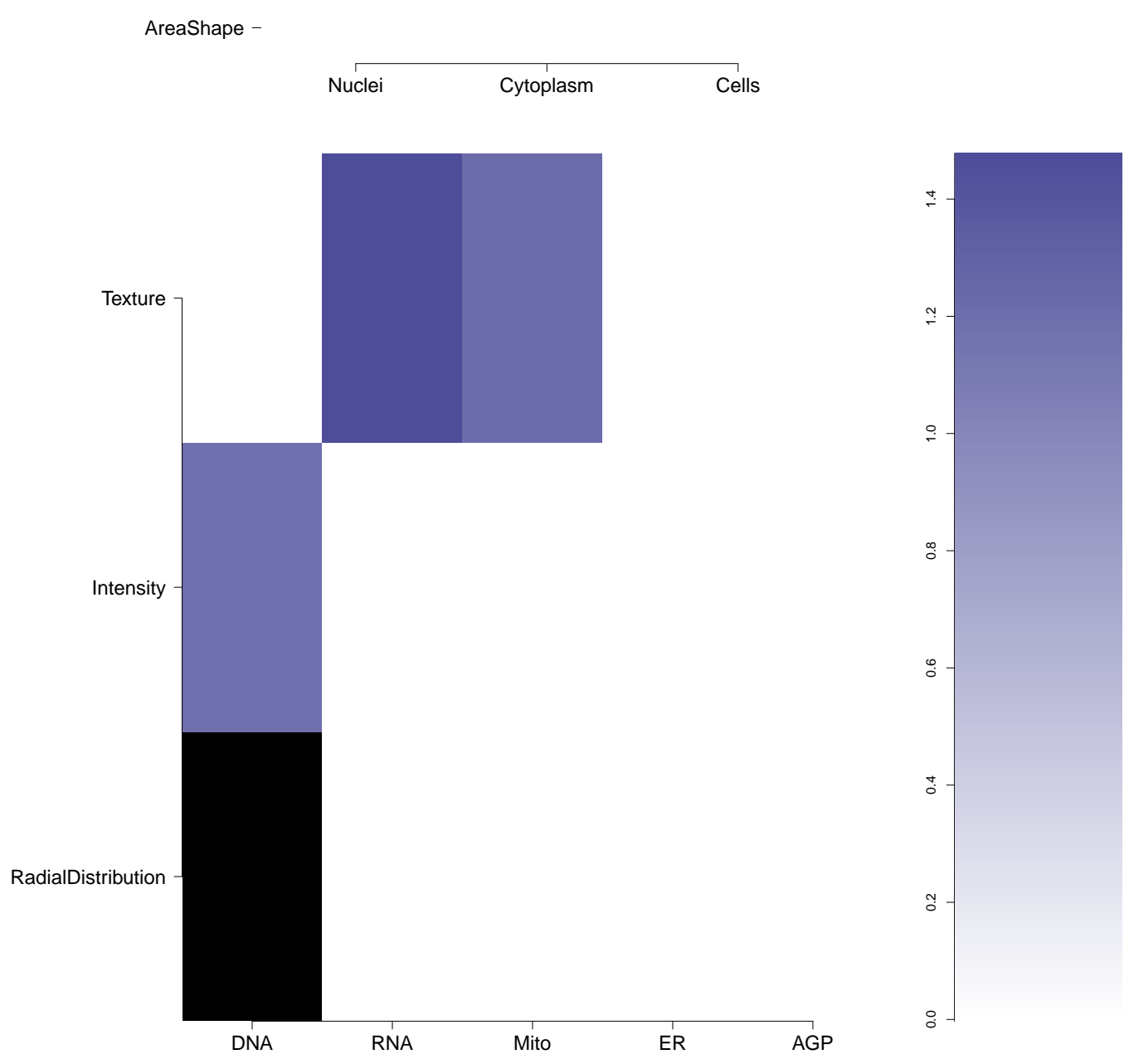

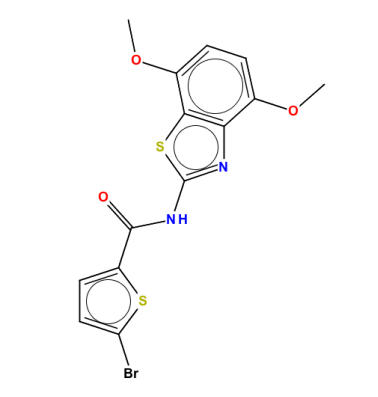
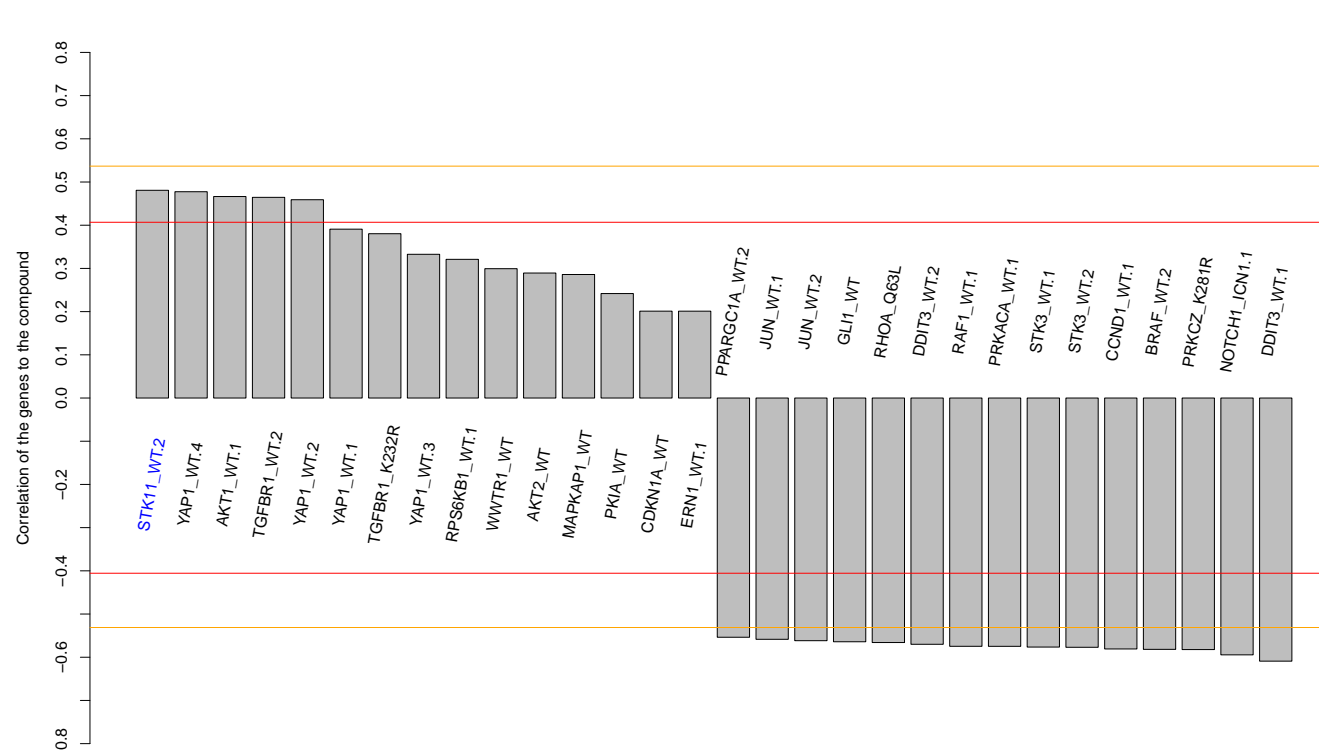
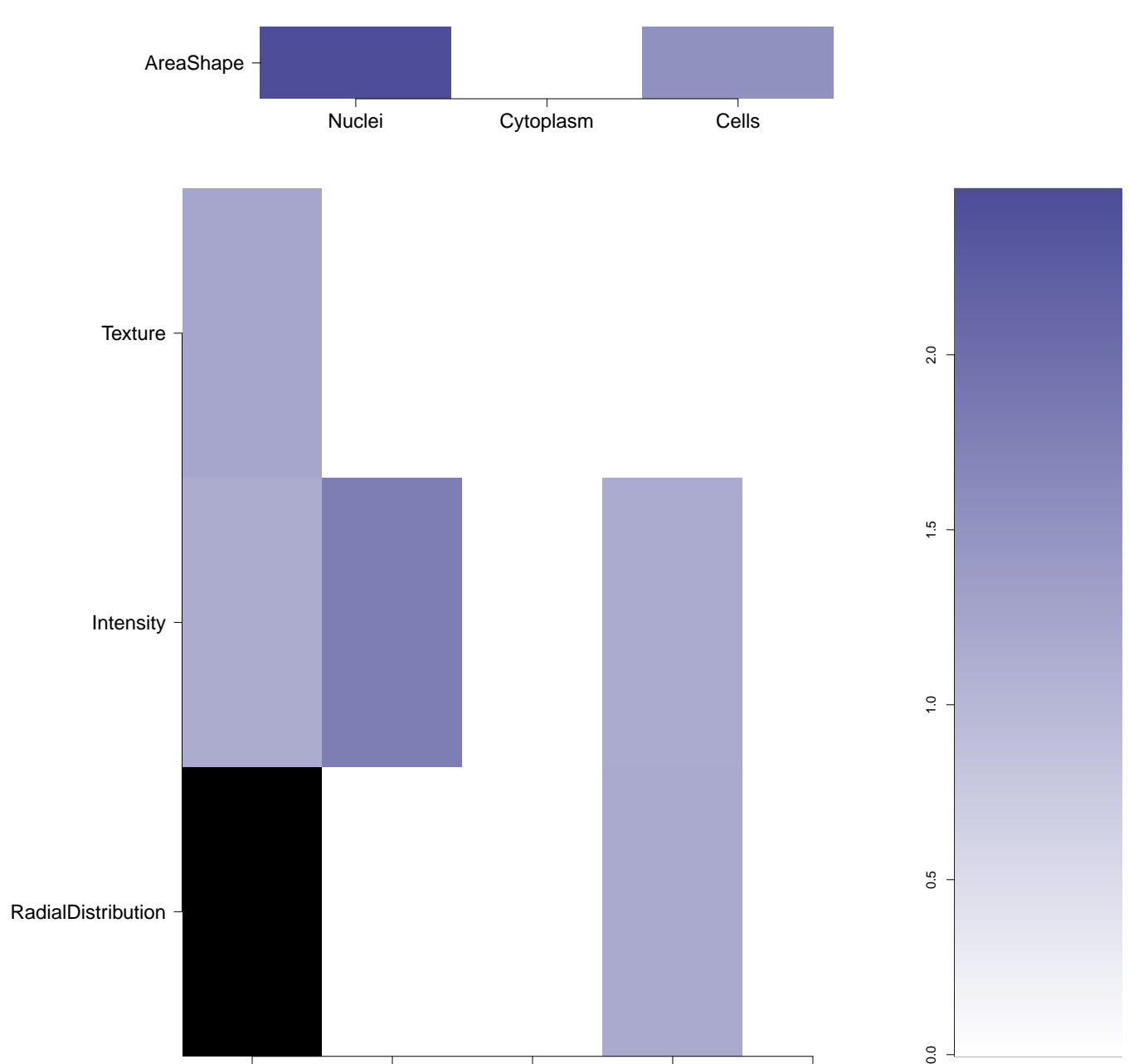
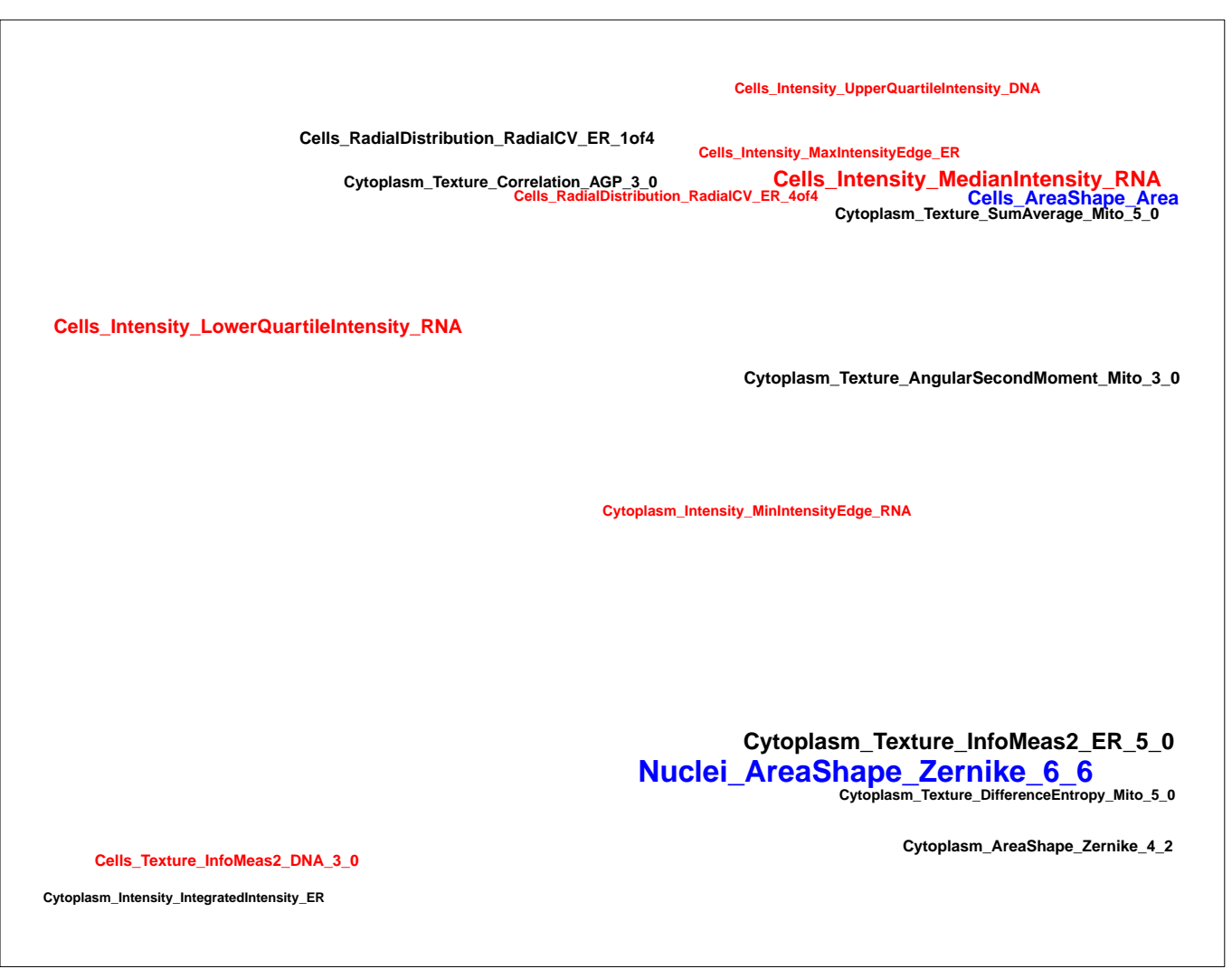
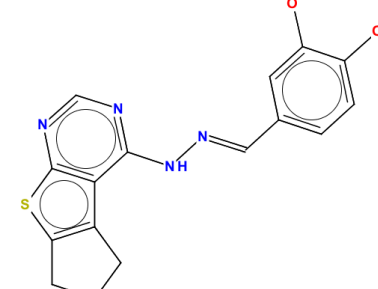
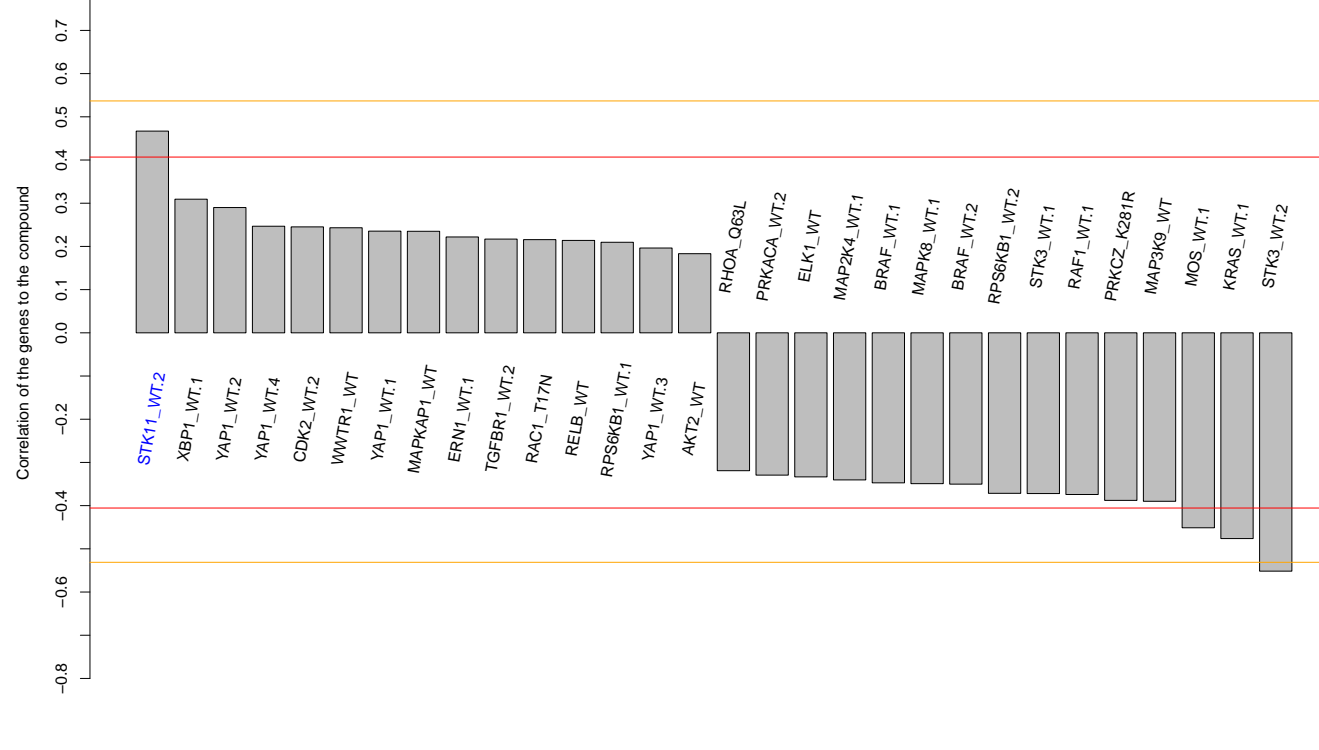
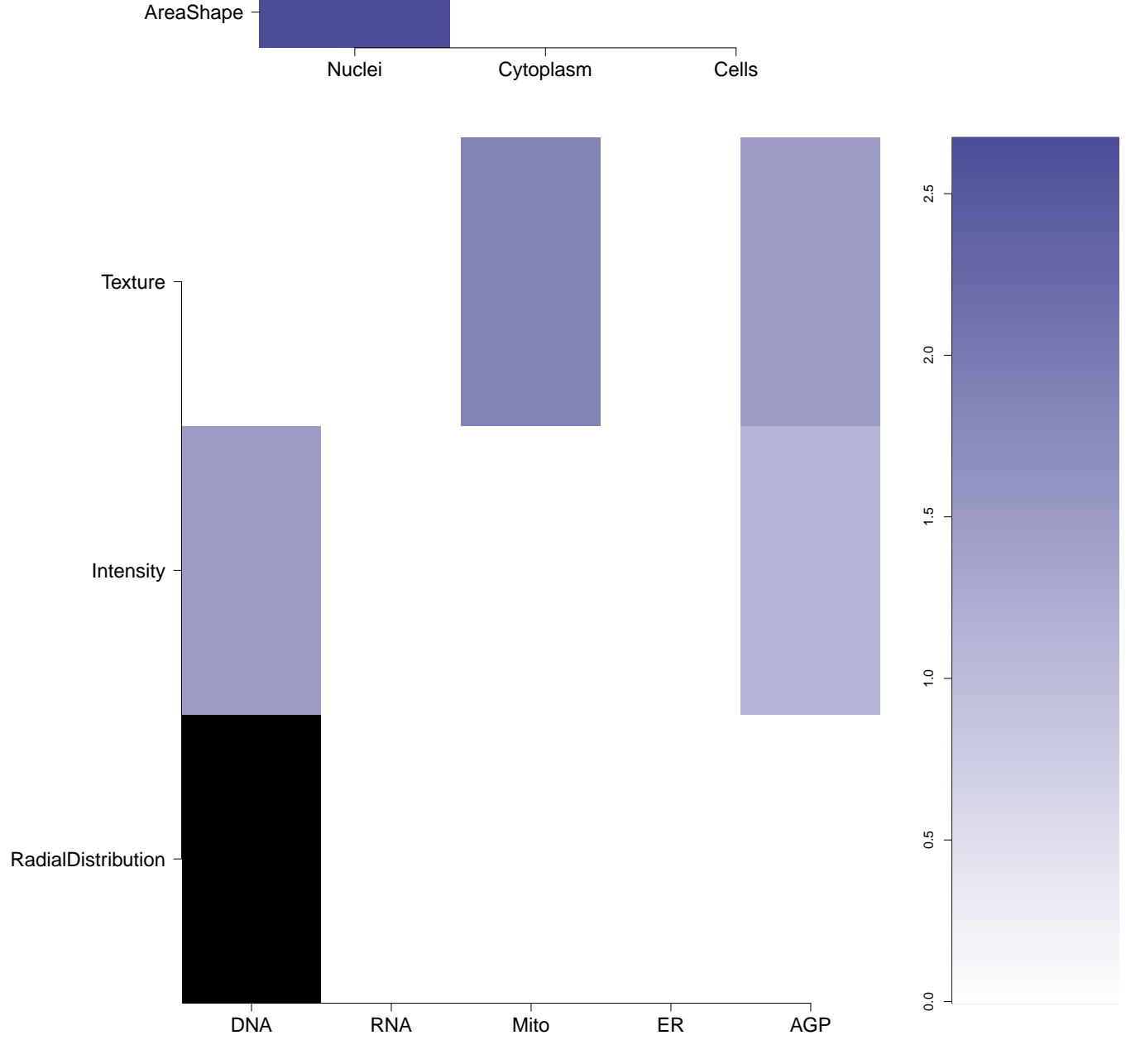

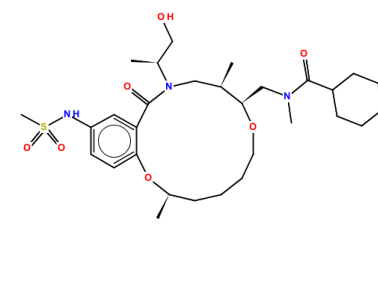
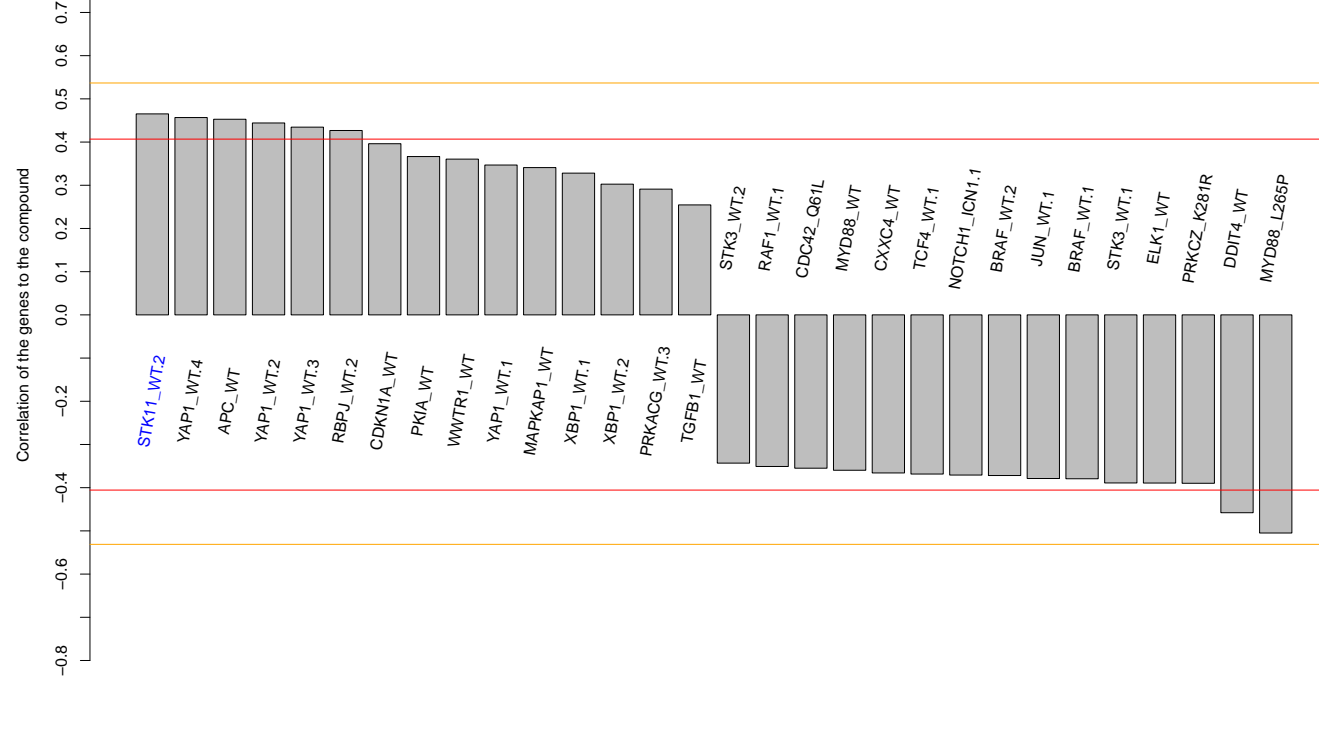
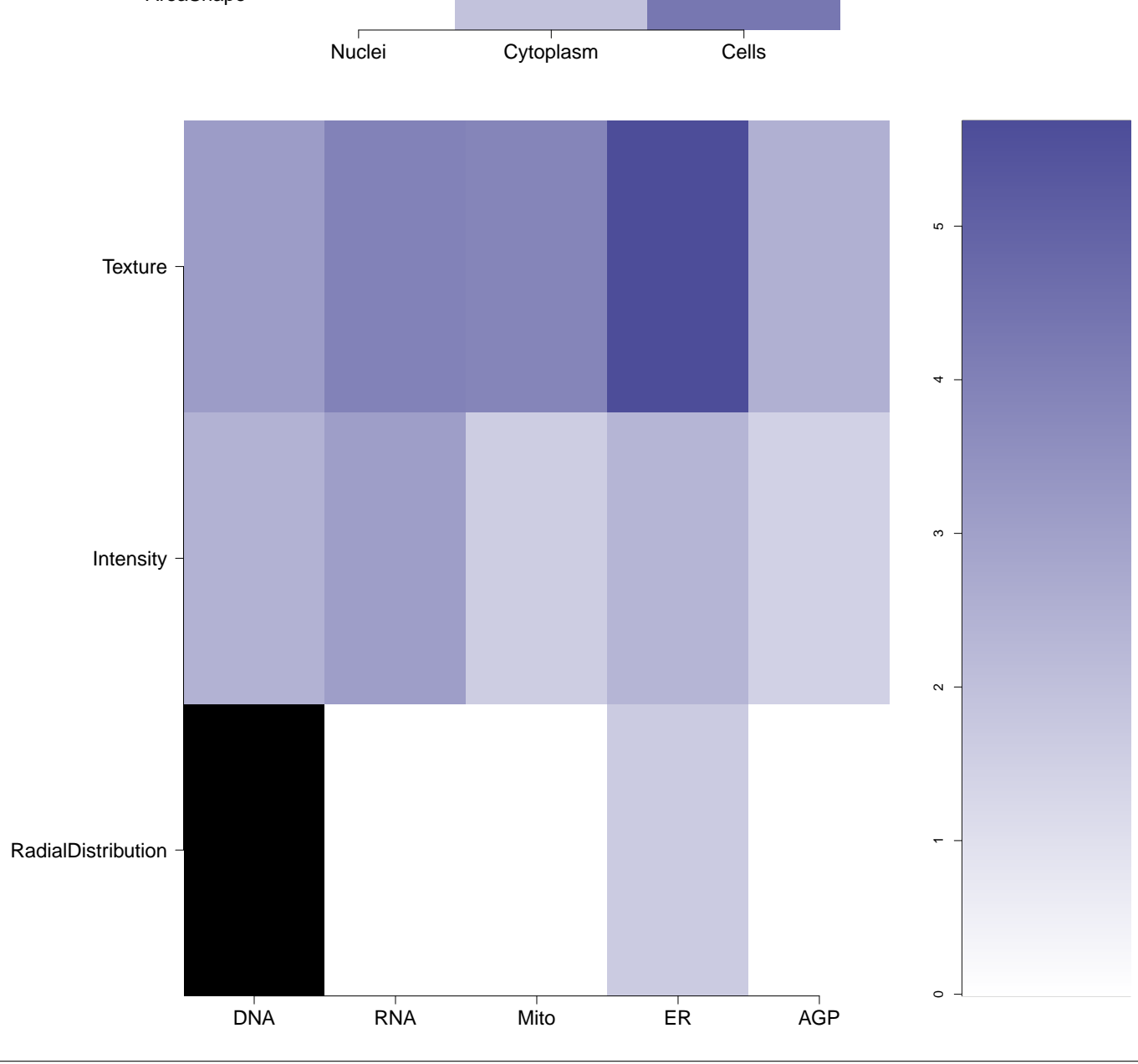



RNA



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
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BRD-K75606012-001-01-3 PubChem CID : 54614897		0.71 (in 4 replicates)	0.53	0.093				Total number of assays tested in: 39.
BRD-K17708248-001-05-5 ST50134193 SMR000150119 AC1LP02B MLS000570099 HMS2340O20 STL307306 ZINC21822453 T0511-6007 PubChem CID : 1276757		0.69 (in 2 replicates)	0.50	NA				Total number of assays tested in: 683. Active in the following assays: <ul style="list-style-type: none"> <li>● CYP2C9 Assay (AID 777)</li> <li>● CYP2C19 Assay (AID 778)</li> <li>● Leishmania major promastigote HTS (AID 1063)</li> <li>● qHTS Assay for Inhibitors of Bacillus subtilis Sp phosphotransferyl transferase (PPTase) (AID 1490)</li> <li>● qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxidoxins (AID 485364)</li> <li>● qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)</li> <li>● qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)</li> <li>● qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979)</li> </ul>
BRD-K07726175-001-06-4 MLS000101513 SMR000017682 F0600-1566 ZINC02723956 AC1M1ZD5 MLS002152803 BDBM39509 HMS2244B03 ZINC2723956 PubChem CID : 2159329		NA (in 1 replicates)	0.48	NA				Total number of assays tested in: 760. Active in the following assays: <ul style="list-style-type: none"> <li>● Primary Cell-based High Throughput Screening assay for activators of the nuclear receptor Steroidogenic Factor 1 (SF-1) (AID 522)</li> <li>● HTS of Estrogen Receptor- alpha Coactivator Binding inhibitors (AID 629)</li> <li>● HTS for Estrogen Receptor-beta Coactivator Binding inhibitors (AID 633)</li> <li>● Primary cell-based high-throughput screening assay to identify agonists of Galanin Receptor 2 (GALR2) (AID 808)</li> <li>● qHTS of Mcl-1/Bid interaction inhibitors (AID 1021)</li> <li>● qHTS of Mcl-1/Noxa interaction inhibitors (AID 1022)</li> <li>● Dose Response Confirmation for Mcl-1/Bid Interaction Inhibitors (AID 1418)</li> <li>● Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Primary Screen (AID 1456)</li> <li>● qHTS Assay for Promiscuous and Specific Inhibitors of Cruzin (without detergent) (AID 1476)</li> <li>● HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732)</li> <li>● qHTS identification of DNMT1 inhibitors in a Fluorescent Molecular Beacon assay (AID 588458)</li> <li>● qHTS for Stage-Specific Inhibitors of Vaccinia Orthopoxvirus: Venus Reporter Primary qHTS (AID 720580)</li> </ul>
BRD-K62703930-001-05-3 HMS2622E10 PubChem CID : 15945340		0.61 (in 2 replicates)	0.47	NA				Total number of assays tested in: 578. Active in the following assays: <ul style="list-style-type: none"> <li>● HTS to identify inhibitors of vAD Induced Cell Death in 1929 Cells. (AID 1377)</li> <li>● Primary biochemical high throughput screening assay to identify inhibitors of VIM-2 metallo-beta-lactamase (AID 1527)</li> <li>● MLPCN Streptokinase Expression Inhibition (AID 1662)</li> <li>● Profiling Assay to determine GST-GSH interactions in multiplex bead-based assays (AID 1709)</li> <li>● Luminescence Microorganism-Based Dose Confirmation HTS to Identify Inhibitors of Streptokinase Promotor Activity (AID 1902)</li> <li>● Absorbance Microorganism-Based Dose Response HTS to Identify Inhibitors of Streptokinase Expression (AID 1914)</li> <li>● Luminescence-based cell-based primary high throughput screening assay to identify activators of the GAA850 frataxin (FXN) promoter (AID 540364)</li> <li>● Counterscreen for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis: Absorbance-based biochemical high throughput Glycero-phosphate Dehydrogenase-Triosephosphate Isomerase (GDH-TPI) full deck assay to identify assay artifacts (AID 588335)</li> <li>● qHTS profiling assay for finely luciferase inhibitor/activator using purified enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)</li> <li>● Counterscreen for activators of the GAA850 frataxin promoter: luminescence-based cell-based high throughput screening assay to identify activators of the GAA30 frataxin promoter (AID 588350)</li> <li>● Luminescence-based cell-based high throughput confirmation assay for activators of the GAA850 frataxin (FXN) promoter (AID 588351)</li> <li>● A quantitative high throughput screen for small molecules that induce DNA re-replication in SW480 colon adenocarcinoma cells. (AID 624297)</li> <li>● Fluorescence polarization-based biochemical primary high throughput screening assay to identify inhibitors of ADP-ribosylation factor GTPase activating protein 1 (ARFGAP1) (AID 651572)</li> <li>● Absorbance-based biochemical primary high throughput screening assay to identify inhibitors of Methionine sulfoxide reductase A (MsrA) (AID 651718)</li> <li>● qHTS Assay for Inhibitors of the CIBP/E1A Interaction (AID 651724)</li> <li>● qHTS Assay for Inhibitors of the Six1/Eya2 Interaction (AID 651725)</li> <li>● HTS for Bacterial rRNA inhibitors Measured in Microorganism-Based System Using Plate Reader - 7056-01.Inhibitor.SinglePoint.HTS.Activity (AID 720706)</li> </ul>
BRD-K21059010-001-01-2 PubChem CID : 44619639		0.74 (in 4 replicates)	0.47	0.938				Total number of assays tested in: 43. Active in the following assays: <ul style="list-style-type: none"> <li>● Inhibition of Teruzzi proliferation in culture Measured in Cell-Based System Using Plate Reader - 2138-01.Inhibitor.SinglePoint.HTS.Activity (AID 624255)</li> </ul>



BRD-K98061543-001-01-2 PubChem CID : 44485960		0.79 (in 3 replicates)	0.46	0.000				Total number of assays tested in: 56.
BRD-K08606983-001-05-1 STK138991 AC1OBPFE SMR000259826 MLS000390788 ZINC15989497 T0500-2826 PubChem CID : 6900173		NA (in 1 replicates)	0.45	NA				Total number of assays tested in: 631. Active in the following assays: <ul style="list-style-type: none"> <li>• Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)</li> <li>• A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315)</li> <li>• VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546)</li> <li>• qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)</li> <li>• uHTS identification of small molecule antagonists of the CCR6 receptor via a luminescent beta-arrestin assay (AID 493098)</li> <li>• qHTS profiling assay for firefly luciferase inhibitor/activator using purified enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)</li> <li>• uHTS identification of small molecule modulators of myocardial damage (AID 588492)</li> <li>• Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human trace amine associated receptor 1 (TAAR1) (AID 624466)</li> <li>• uHTS identification of inhibitors of collin neddylation in a TR-FRET assay (AID 651699)</li> </ul>
BRD-K33869336-001-01-7 PubChem CID : 49843282		0.58 (in 4 replicates)	0.44	0.159				Total number of assays tested in: 36.
BRD-K32732553-001-05-5 SMR000154968 MLS000569346 AC1M4FVJ BDBM61026 HMS2288M19 KUC110285N KSC-265-38 PB67745830 PubChem CID : 2306986		NA (in 1 replicates)	0.44	NA				Total number of assays tested in: 673. Active in the following assays: <ul style="list-style-type: none"> <li>• Profiling compound fluorescence on GSH Beads with 488 nm excitation and 530 nm emission (AID 1776)</li> <li>• MLPCN Alpha-Synuclein 5'UTR - 5'UTR binding - activators (AID 1814)</li> <li>• Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)</li> <li>• HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732)</li> <li>• Luminescence-based primary cell-based high throughput screening assay to identify activators of the Aryl Hydrocarbon Receptor (AHR) (AID 2796)</li> <li>• TR-FRET-based biochemical high throughput dose response assay to identify NR2E3 inverse agonists (AID 463236)</li> <li>• Counterscreen for NR2E3 inverse agonists: TR-FRET-based biochemical high throughput dose response assay to identify inverse agonists of the interaction between peroxisome proliferator-activated receptor gamma (PPARg) and nuclear receptor co-repressor 2 (NCOR2) (AID 463257)</li> <li>• qHTS profiling assay for firefly luciferase inhibitor/activator using purified enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)</li> <li>• 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)</li> <li>• Cytotoxicity screening for potential Inhibitors of Bacterial Capsule Biogenesis (5) (AID 602414)</li> <li>• Screen for inhibitors of the SWI/SNF chromatin remodeling complex (esBAF) in mouse embryonic stem cells with Luciferase reporter assay Measured in Cell-Based System Using Plate Reader - 2141-01.Inhibitor.Dose.CherryPick.Activity (AID 651717)</li> </ul>
BRD-K45307499-001-02-5 MLS003129643 SMR001834089 PubChem CID : 44493077		0.66 (in 3 replicates)	0.41	0.674				Total number of assays tested in: 54.