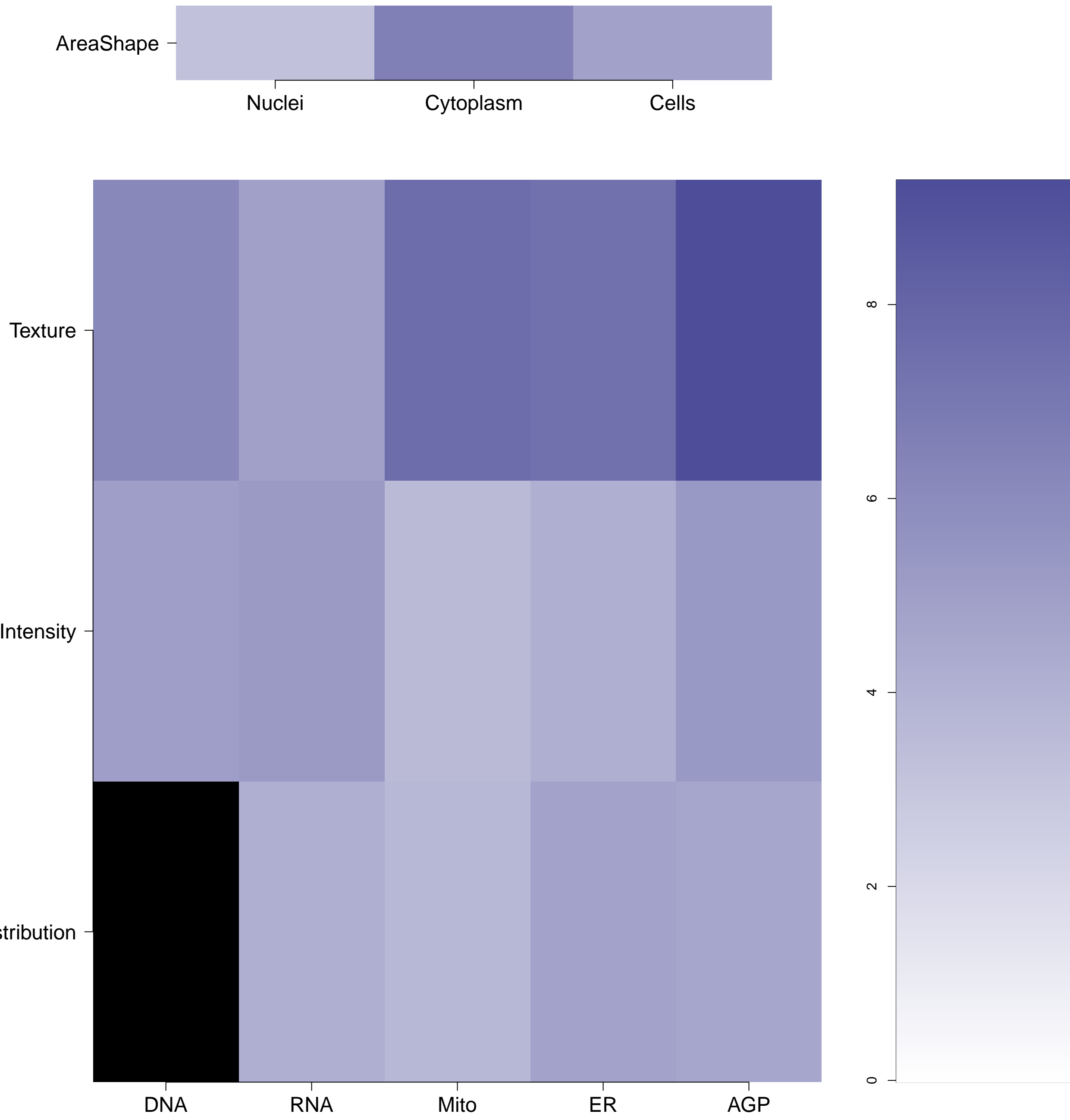
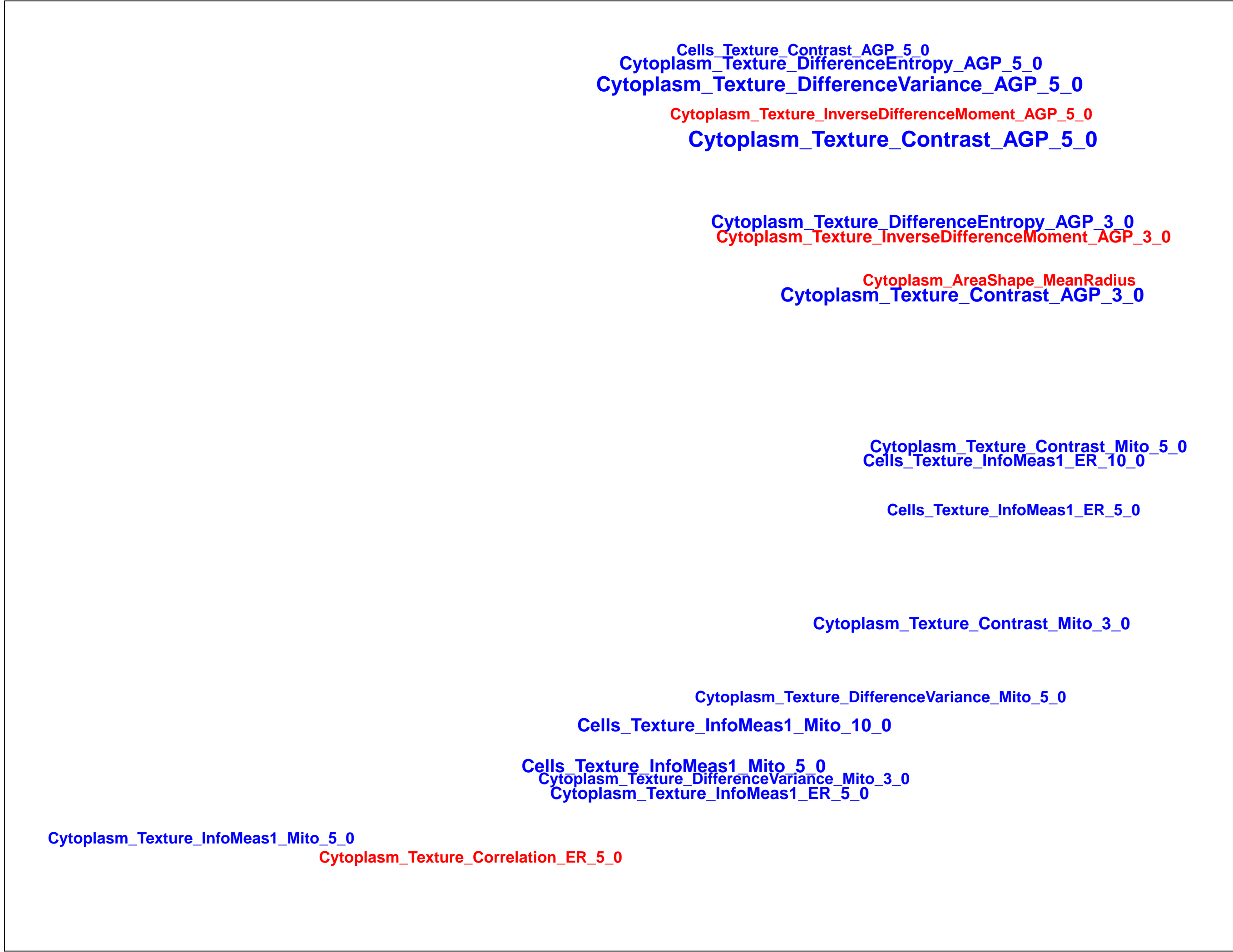


What groups of morphological features are distinguishing in the cluster relative to the untreated samples?
(maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

AKT1S1.WT.2 (41744)

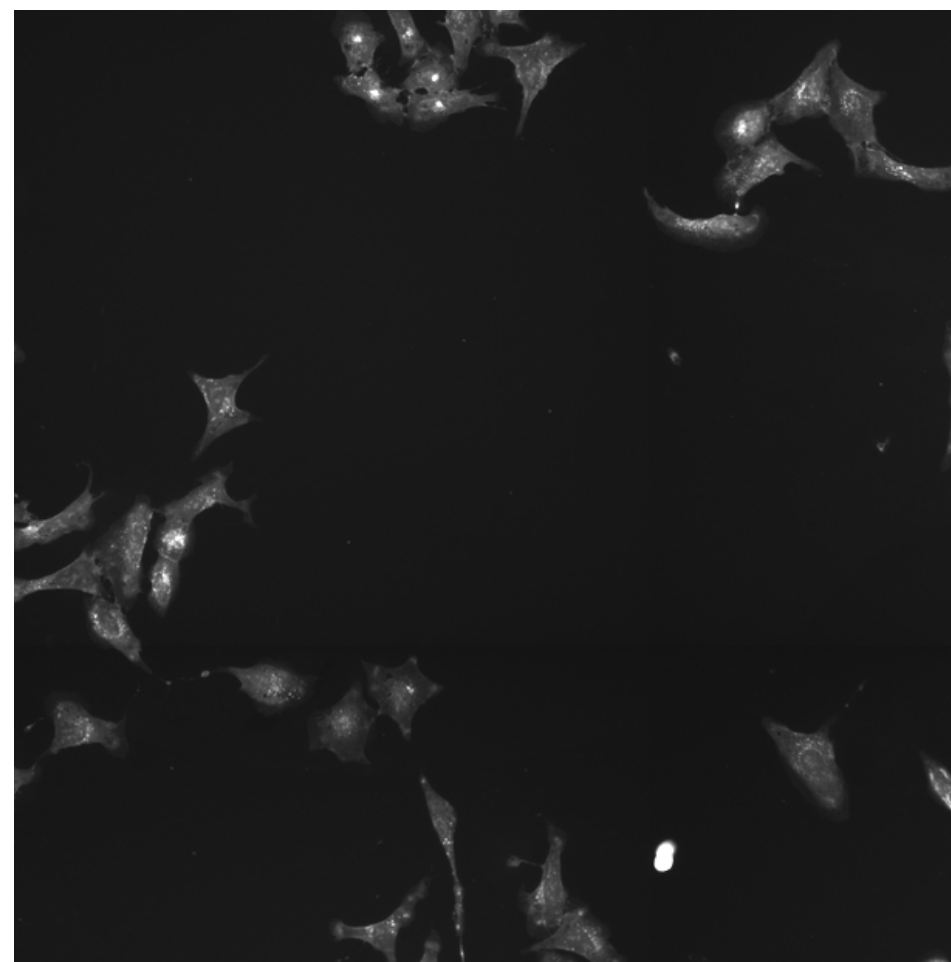
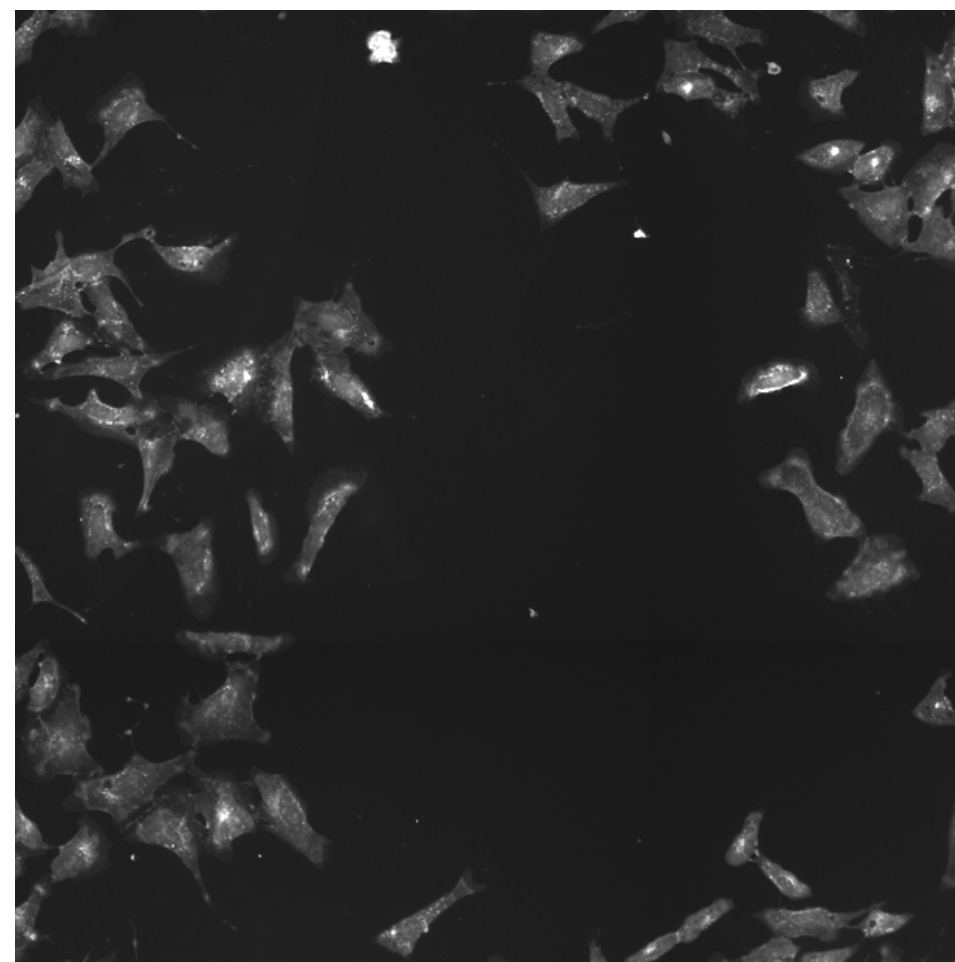
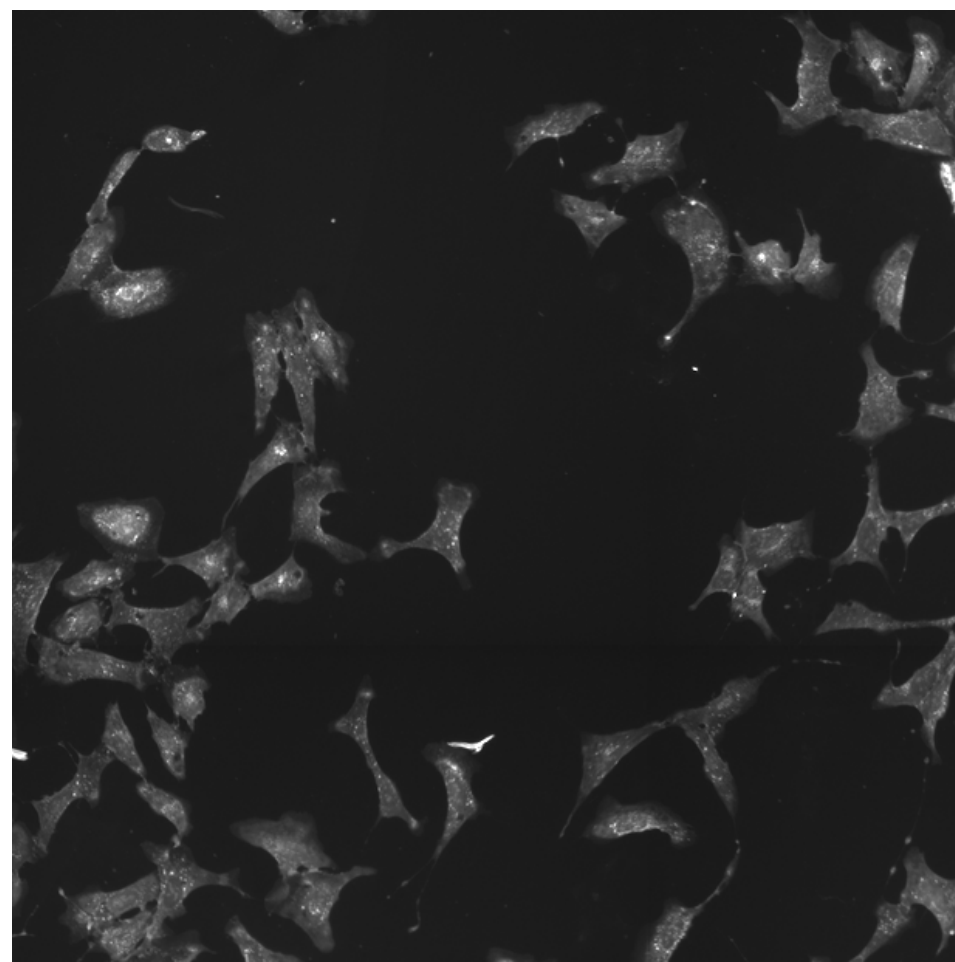
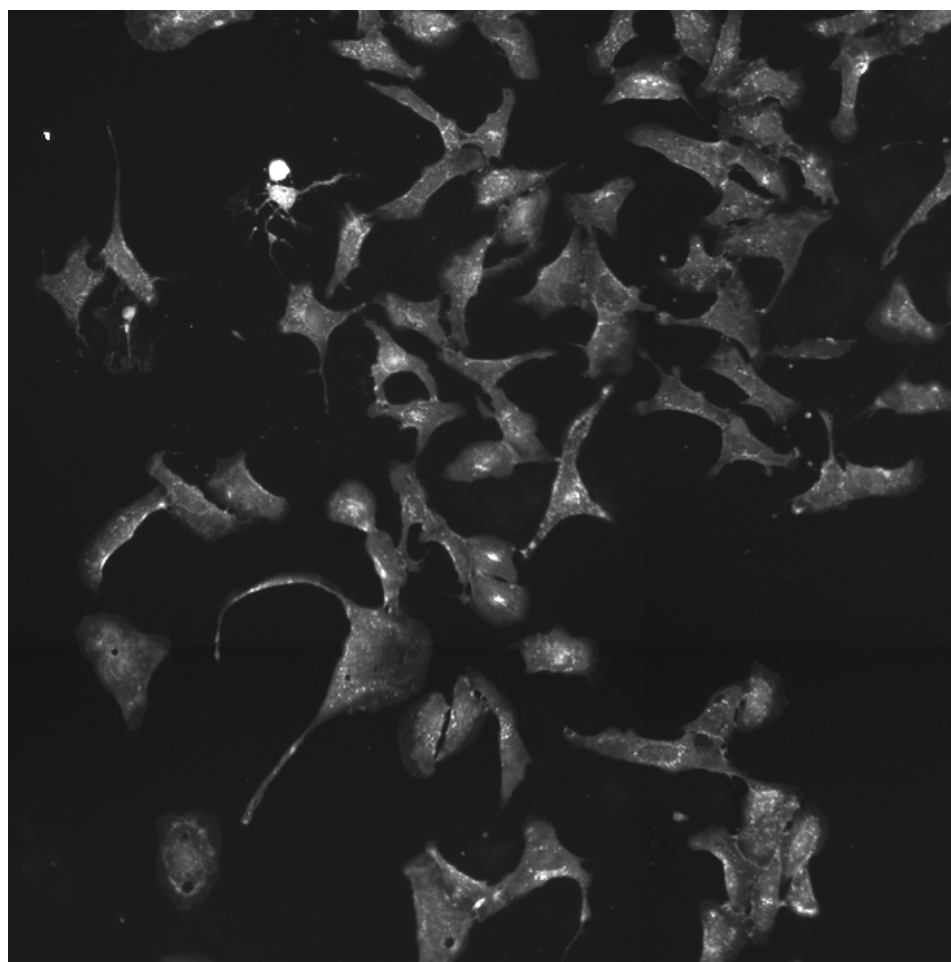
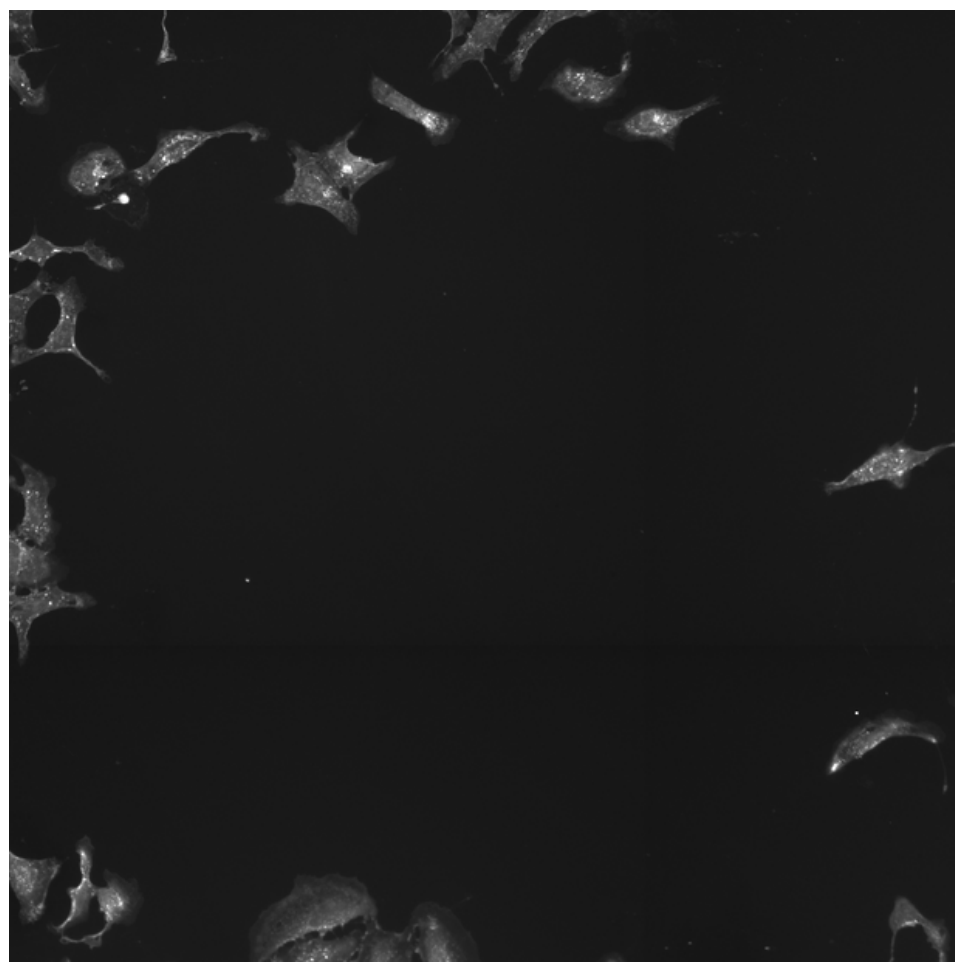
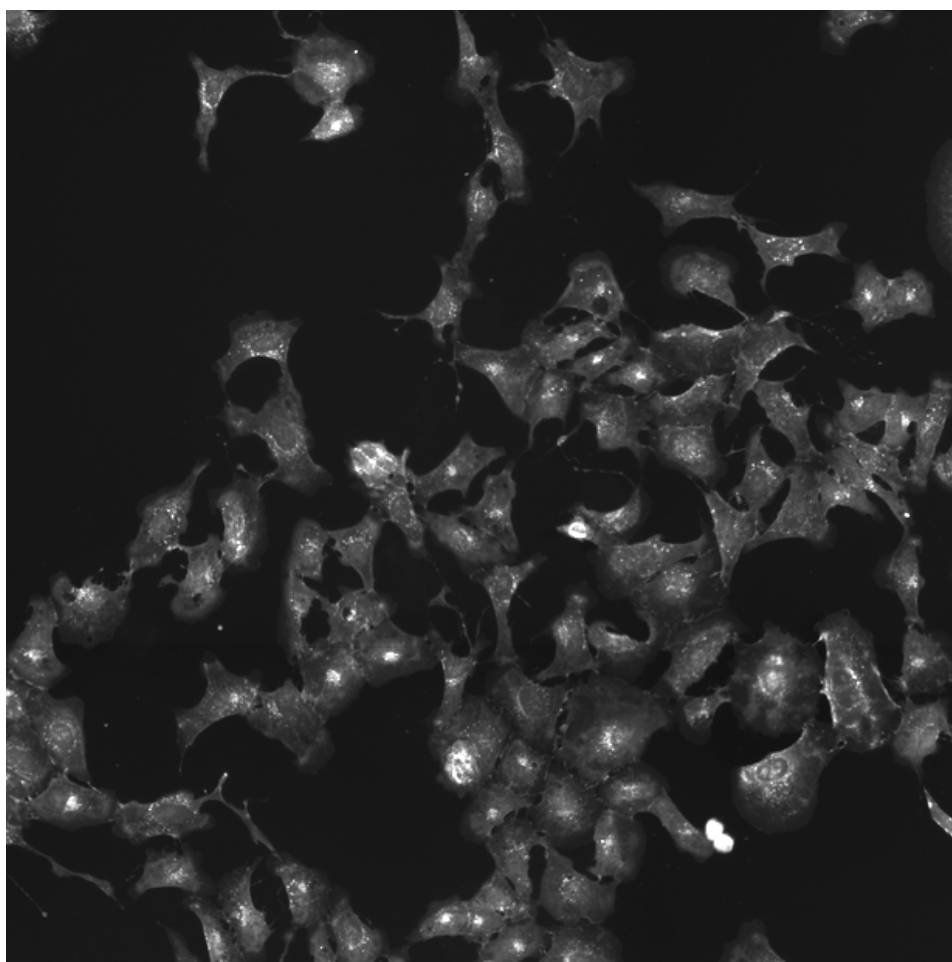
AKT1S1.WT.2 (41755)

AKT1S1.WT.2 (41756)

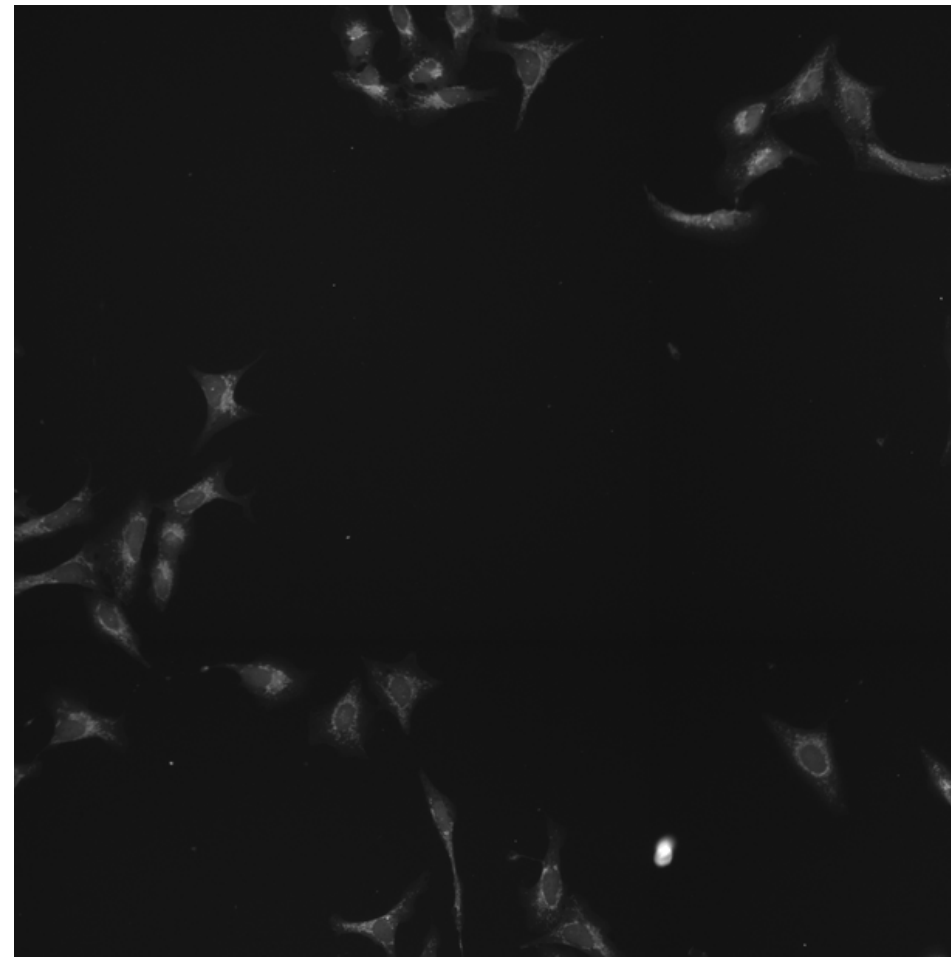
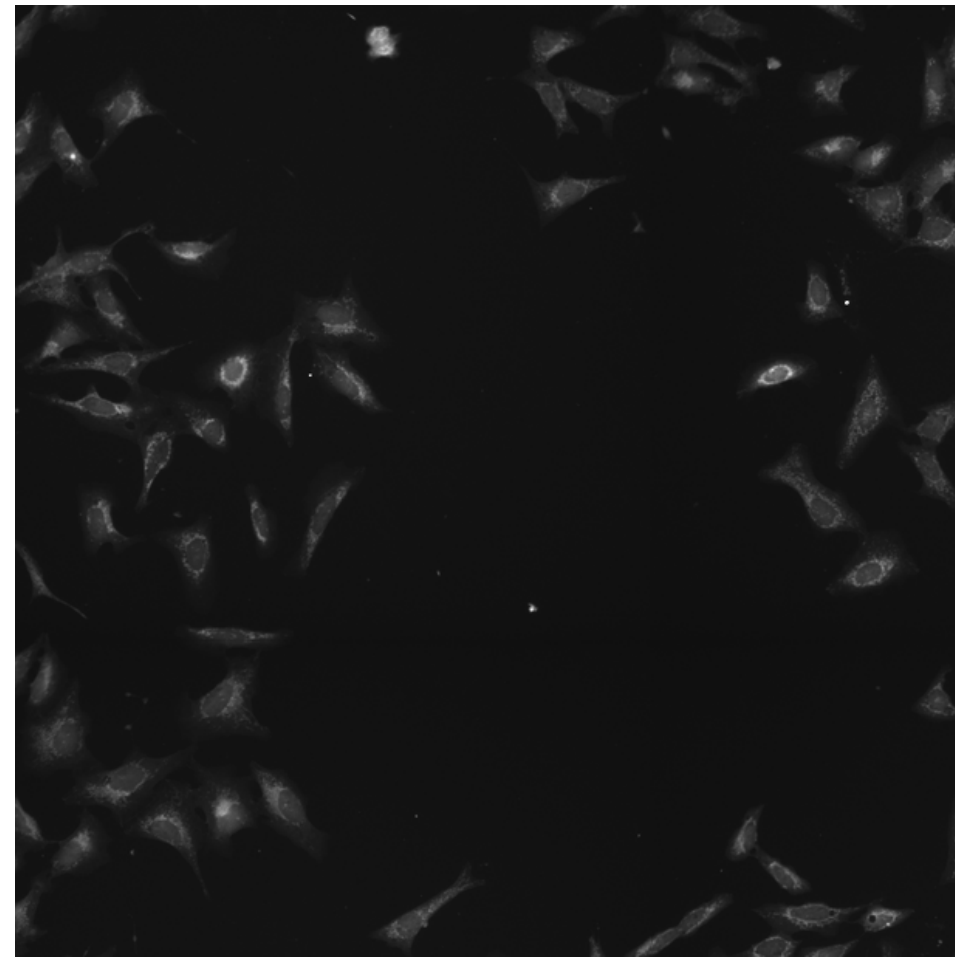
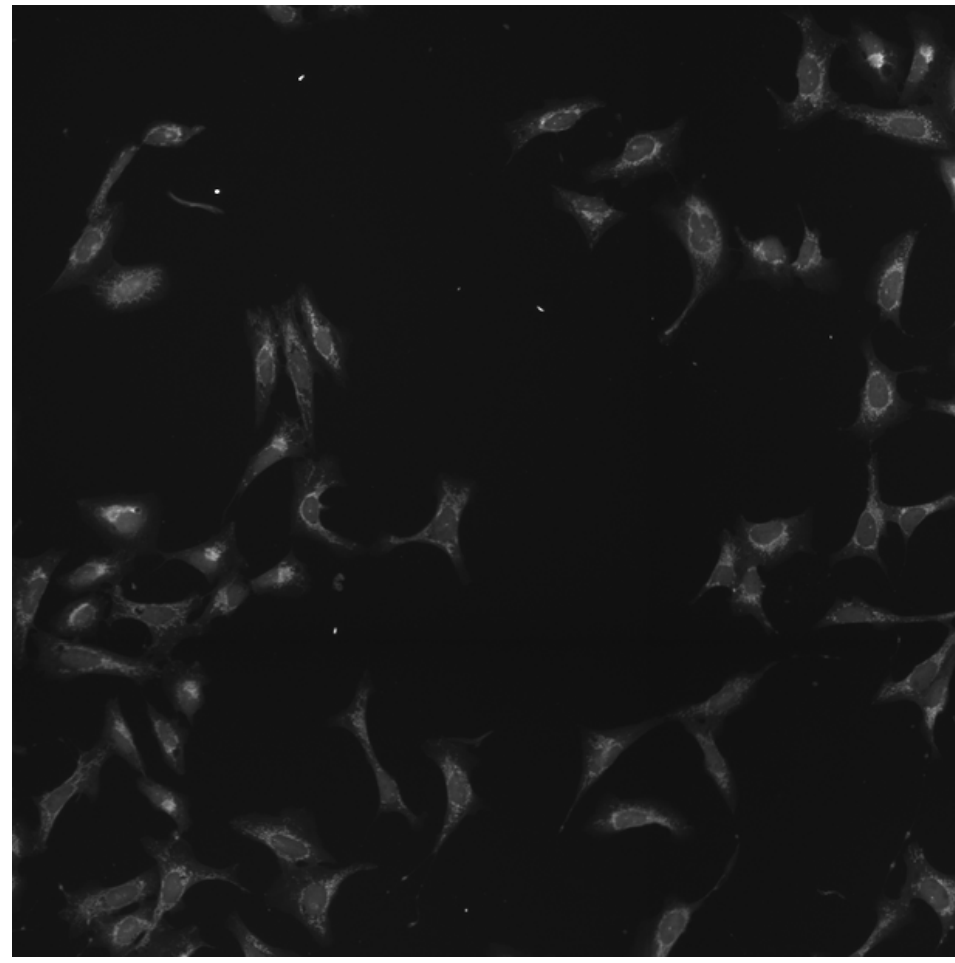
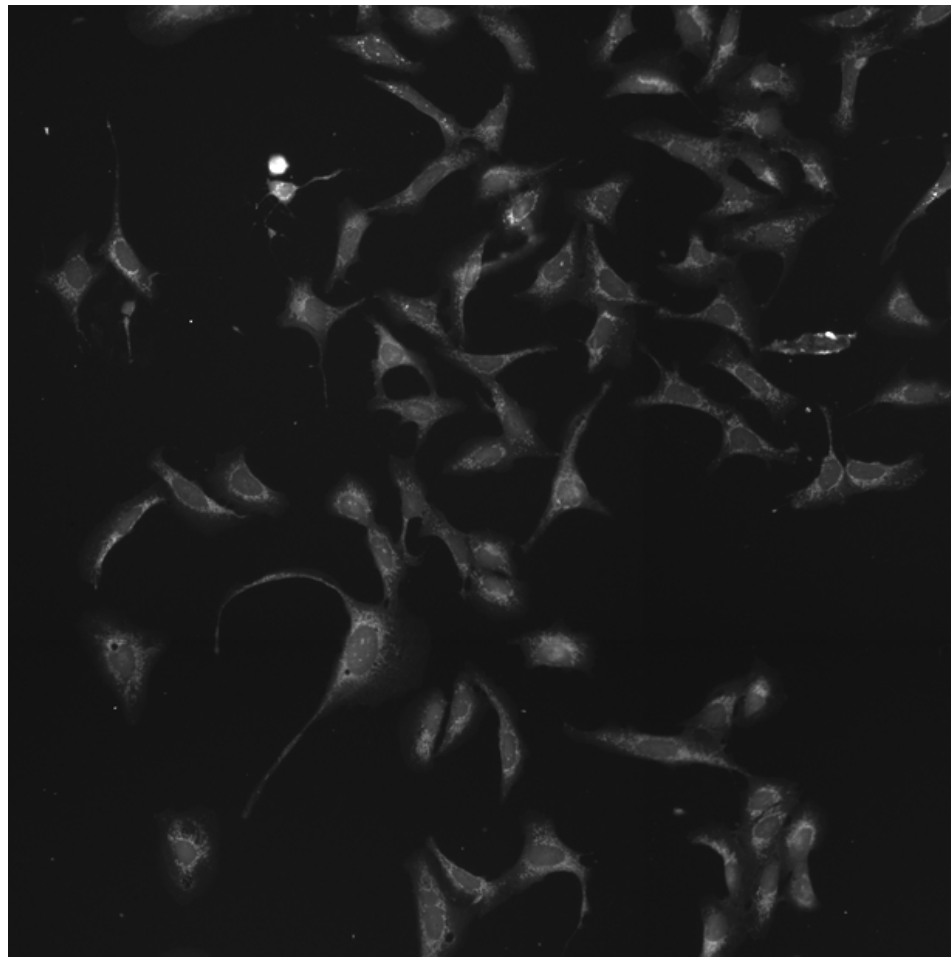
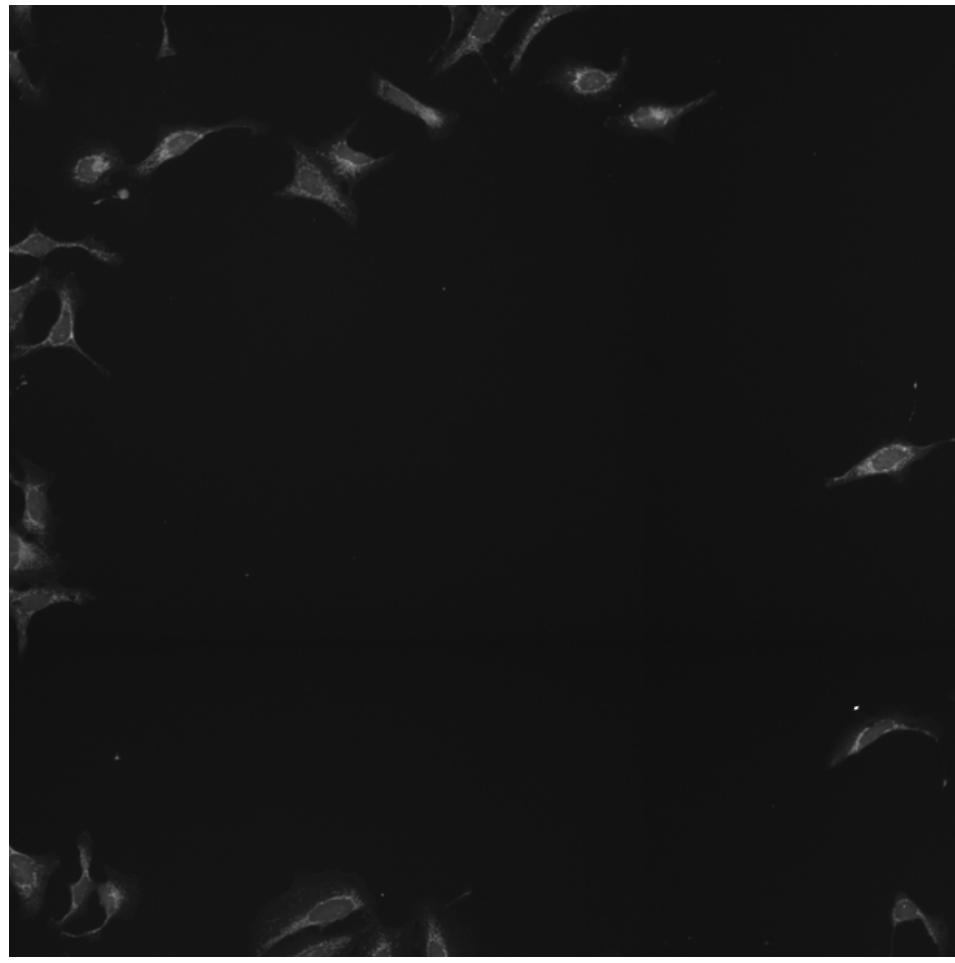
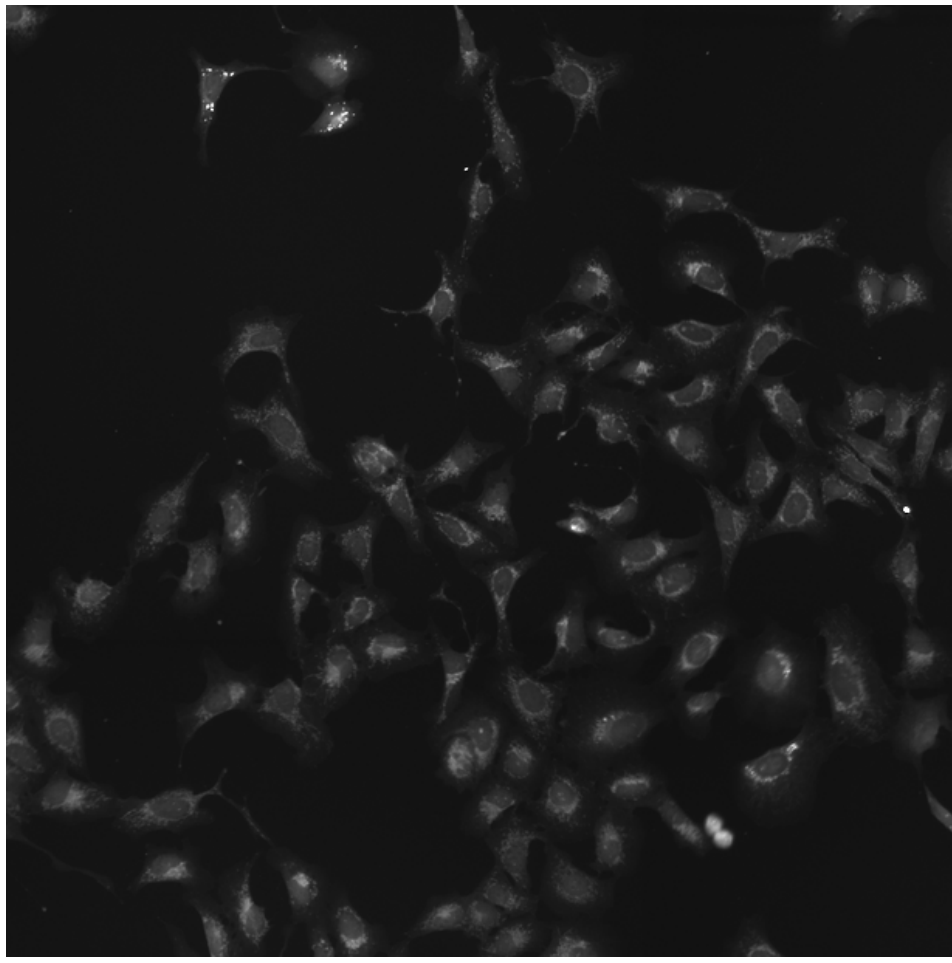
AKT1S1.WT.2 (41757)

AKT1S1.WT.2 (41754)

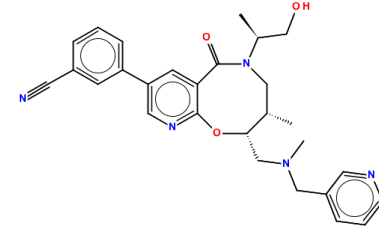
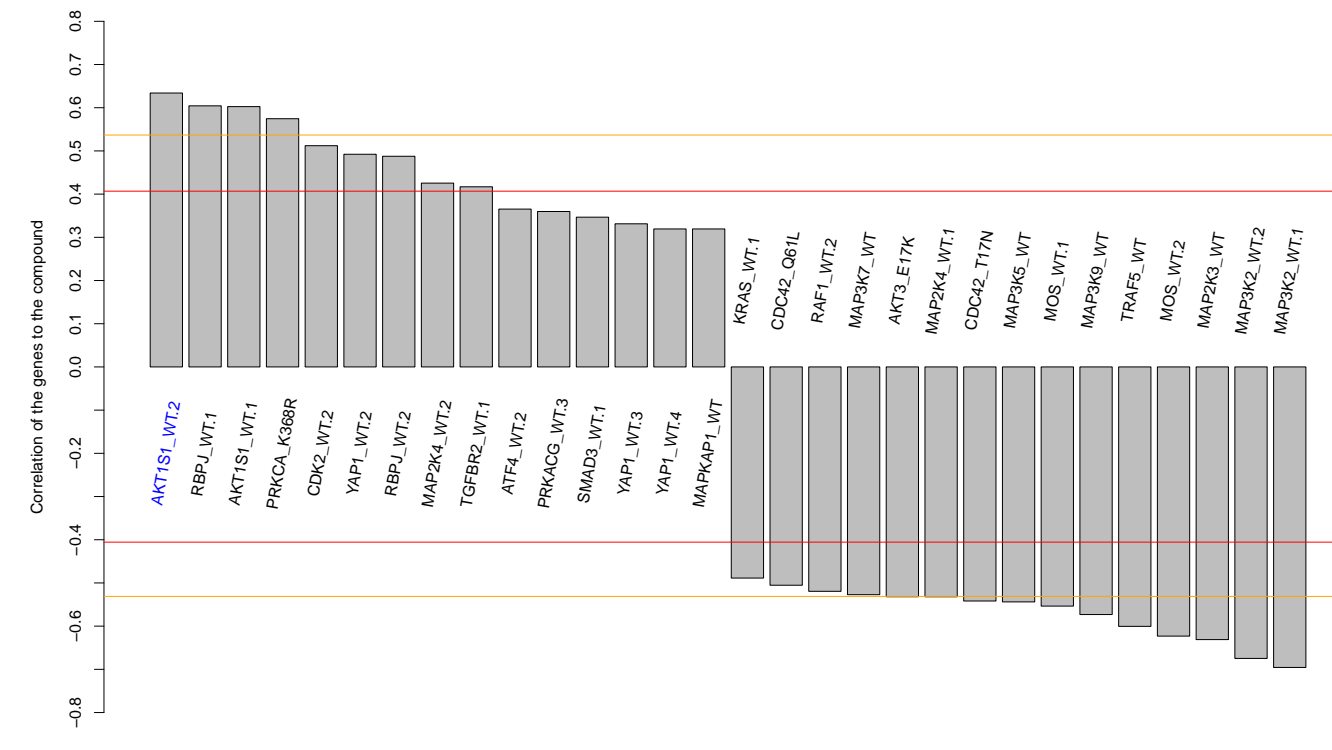
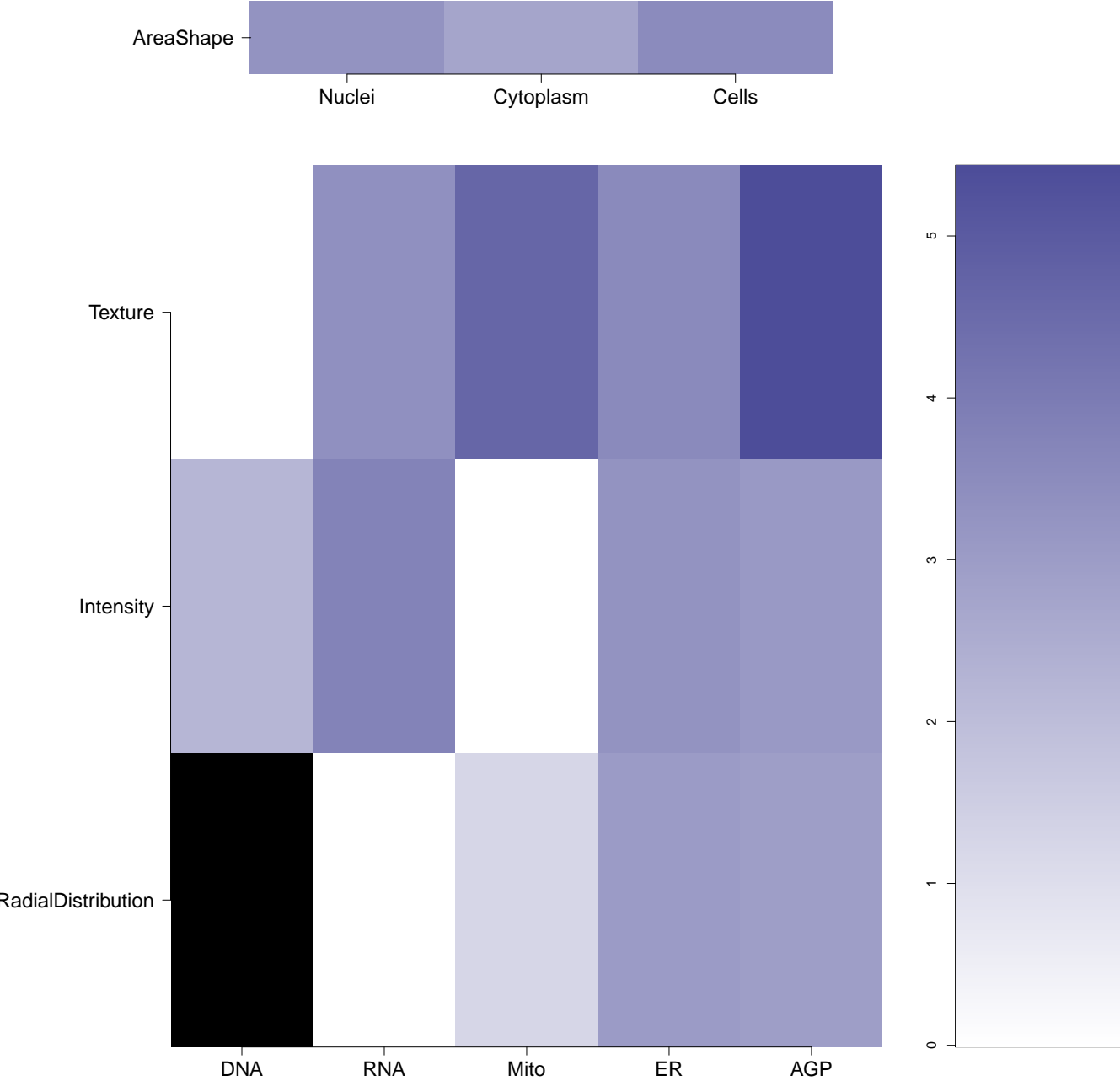
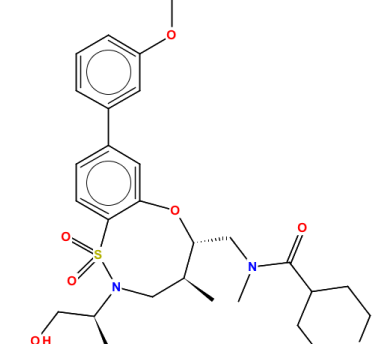
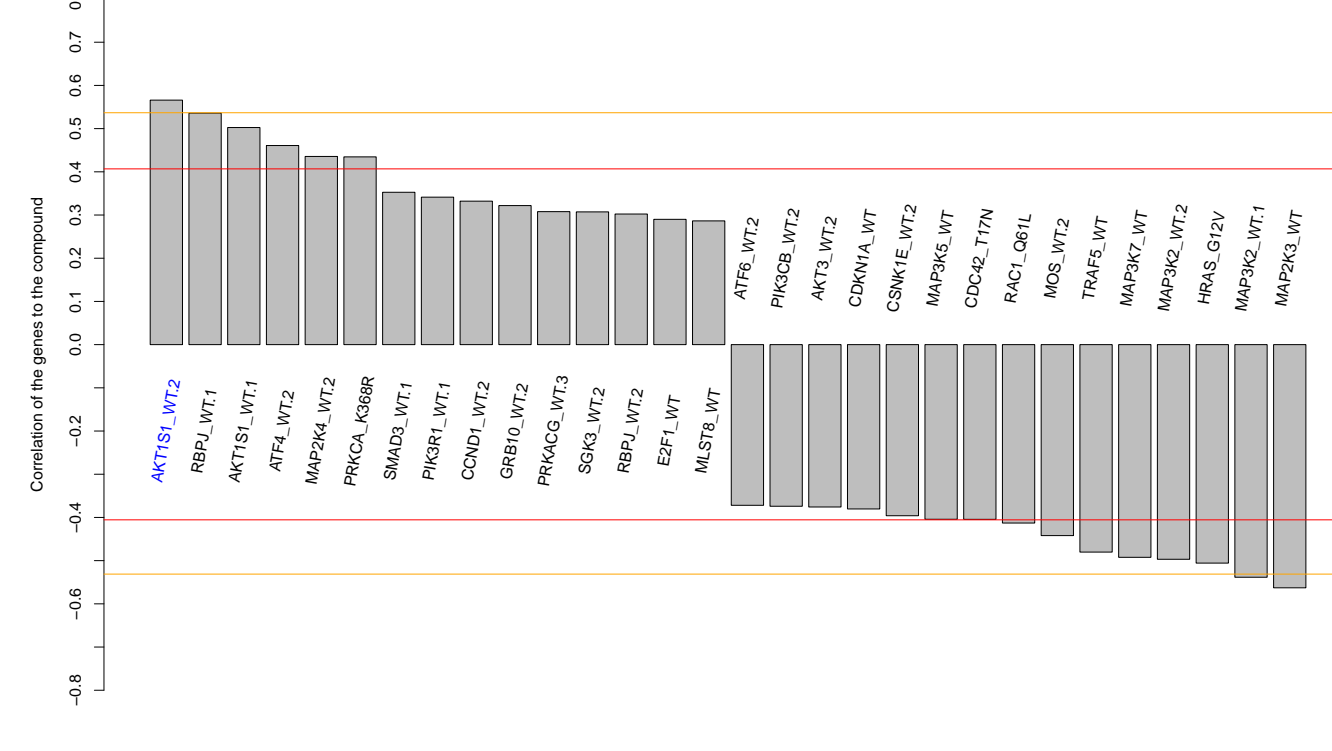
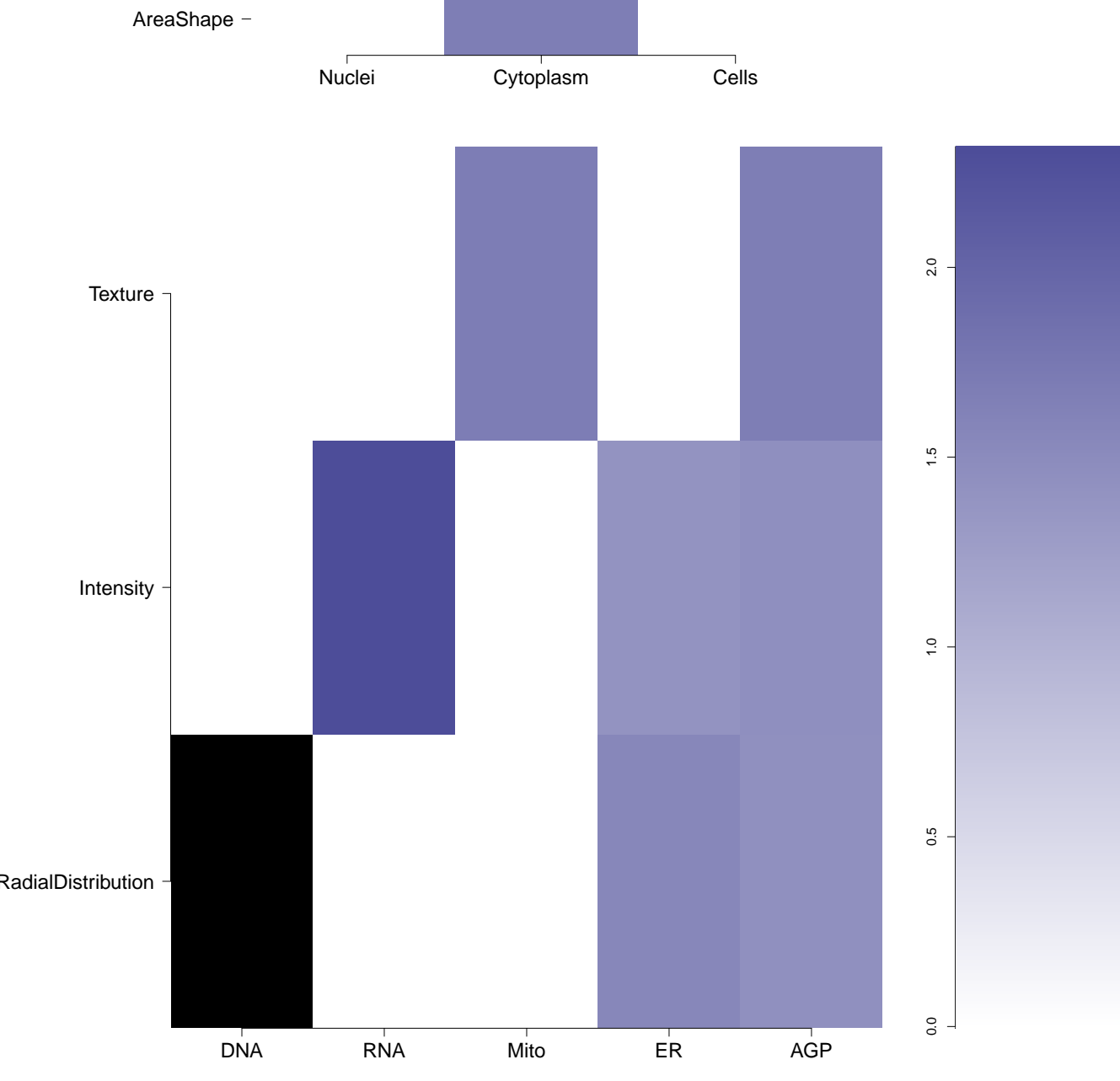
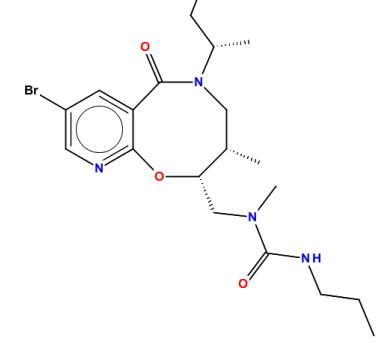
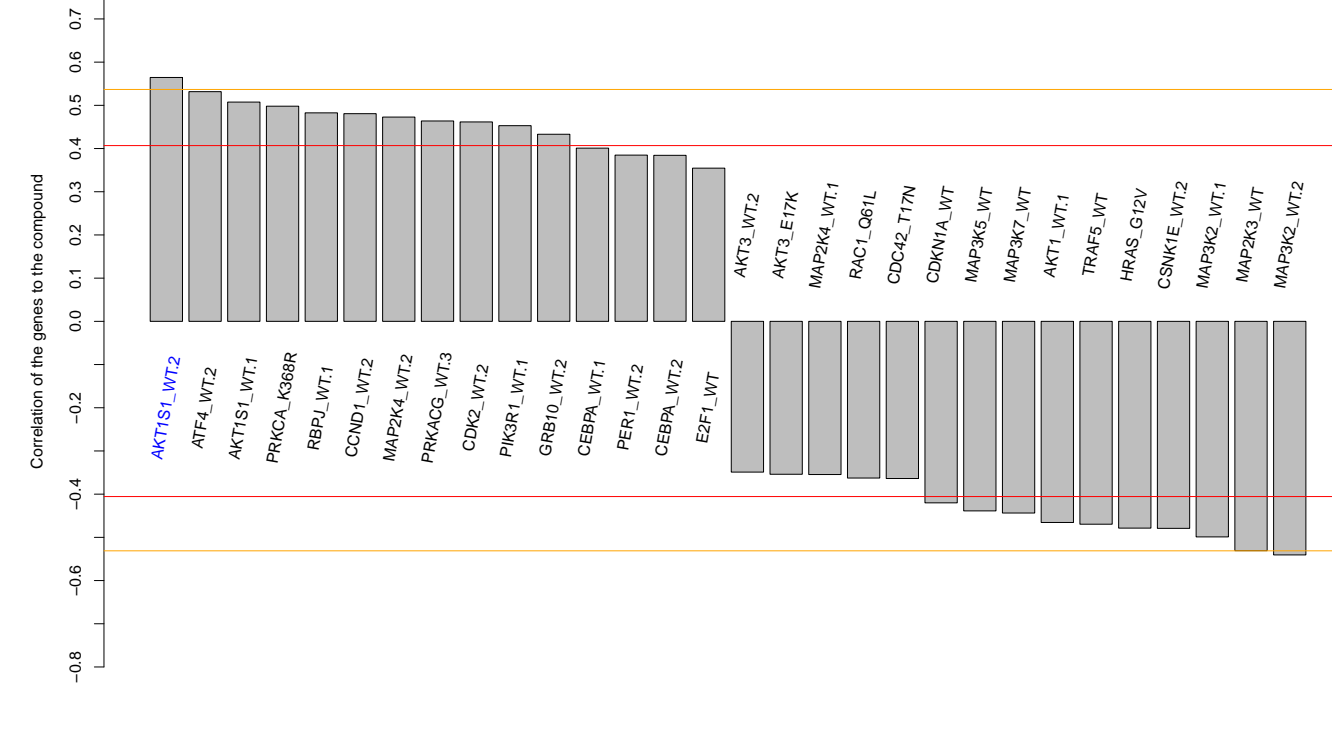
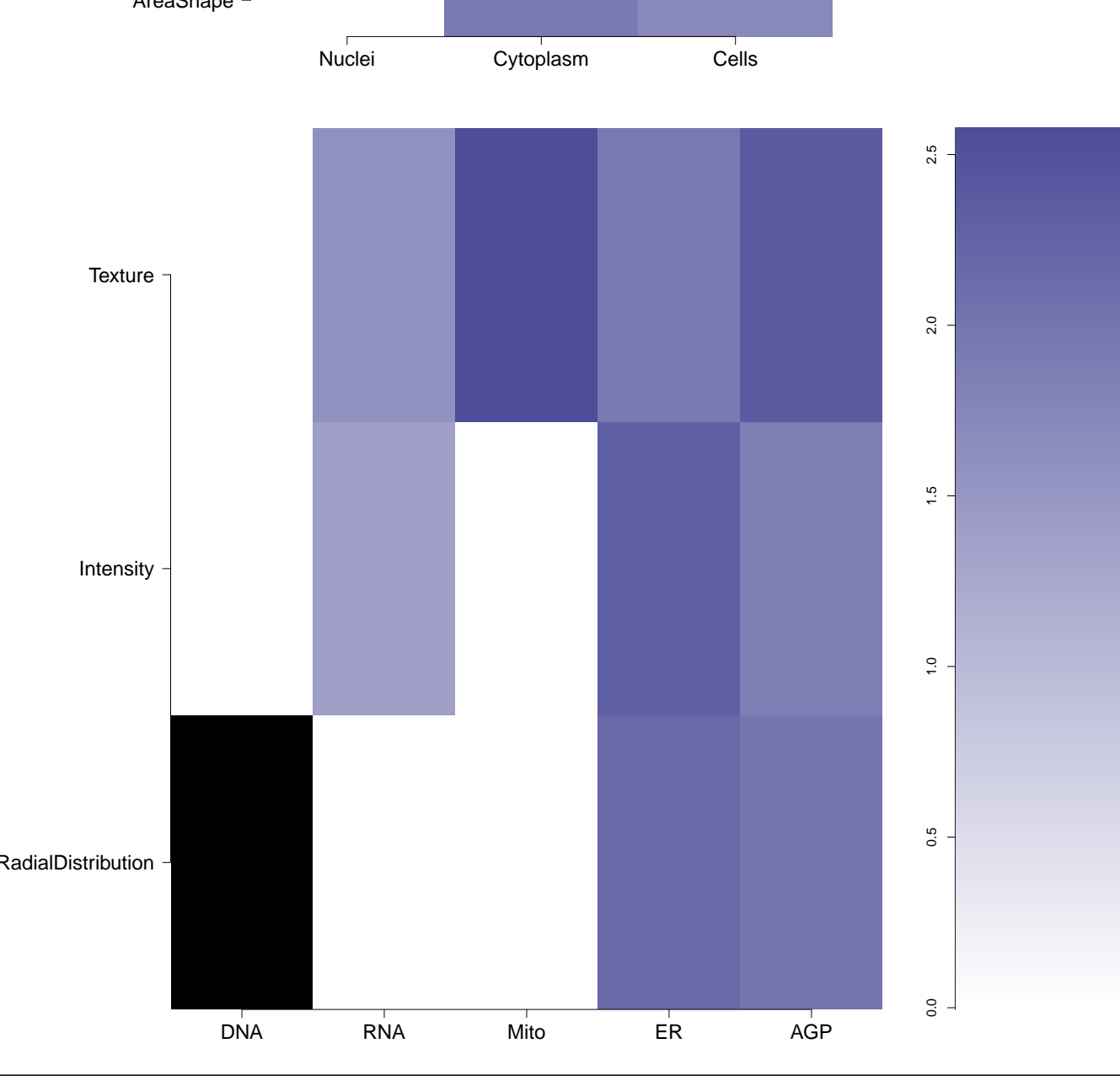
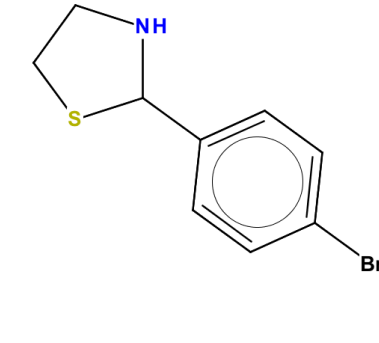
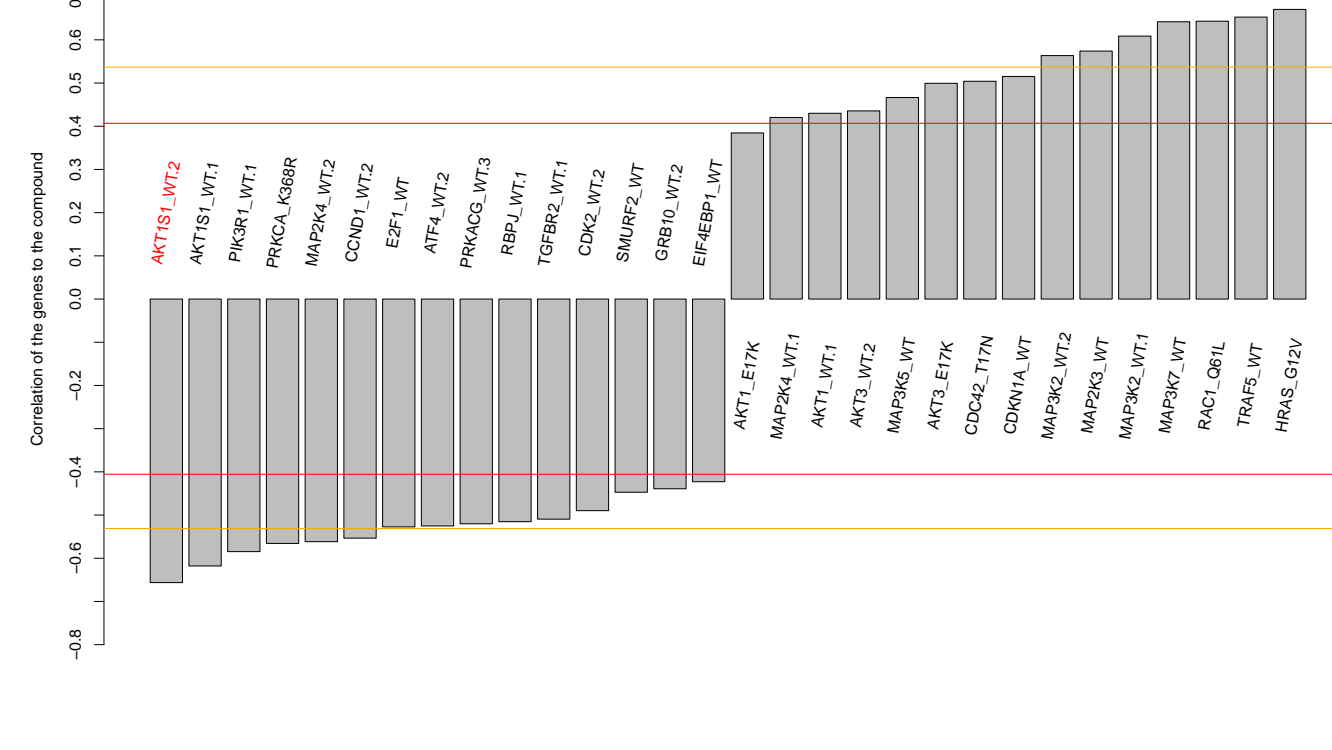
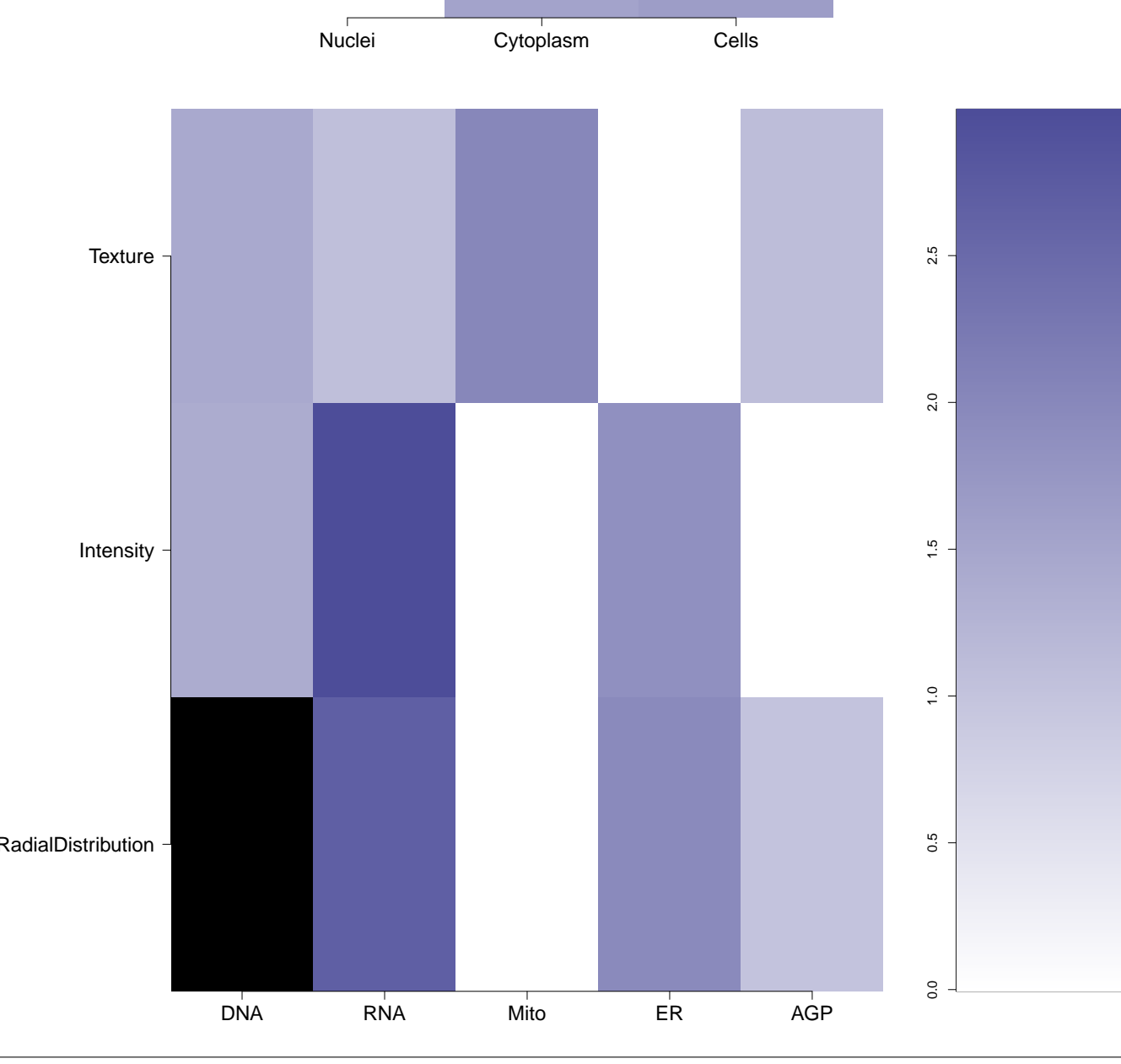
AGP



Mito

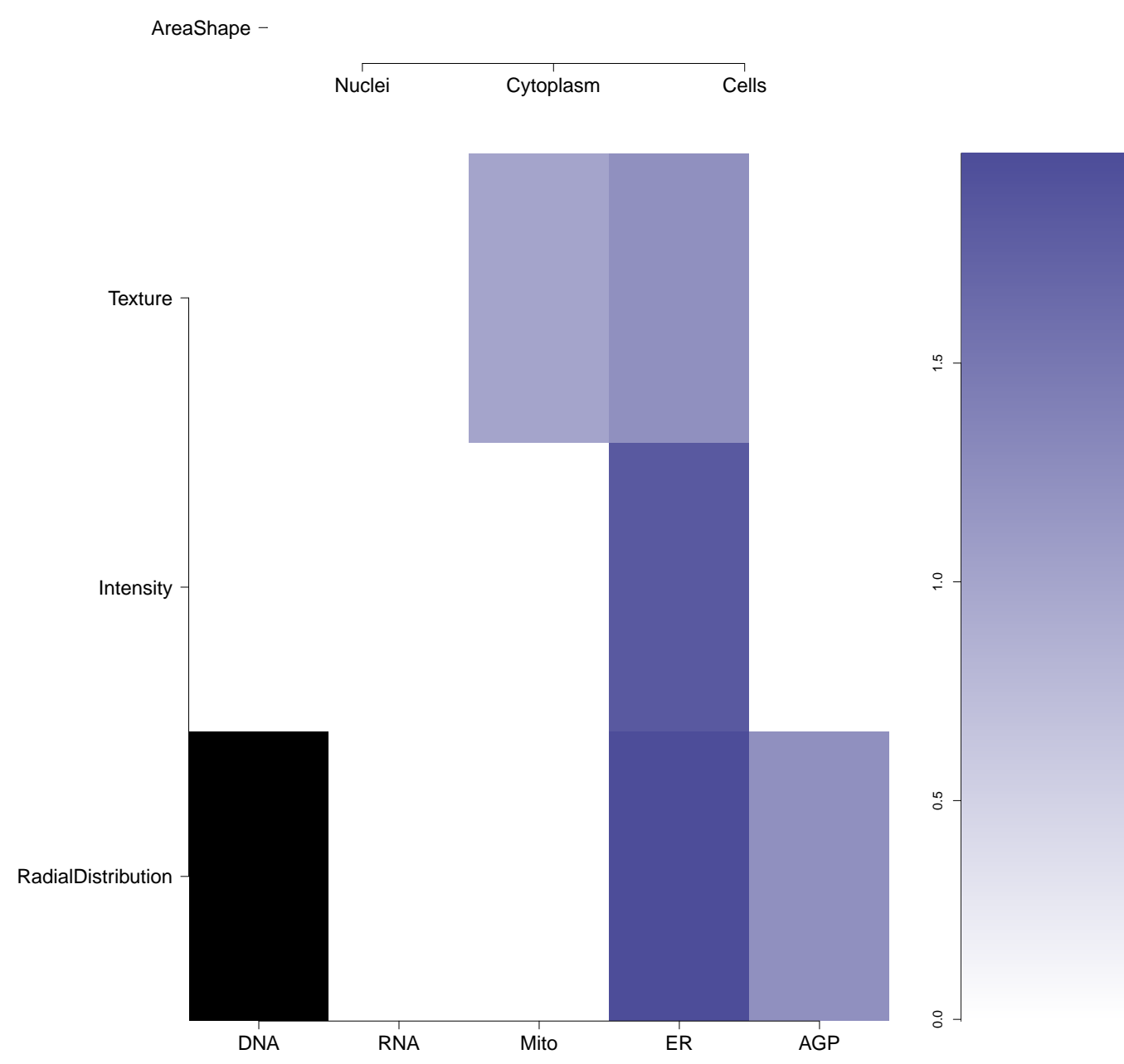
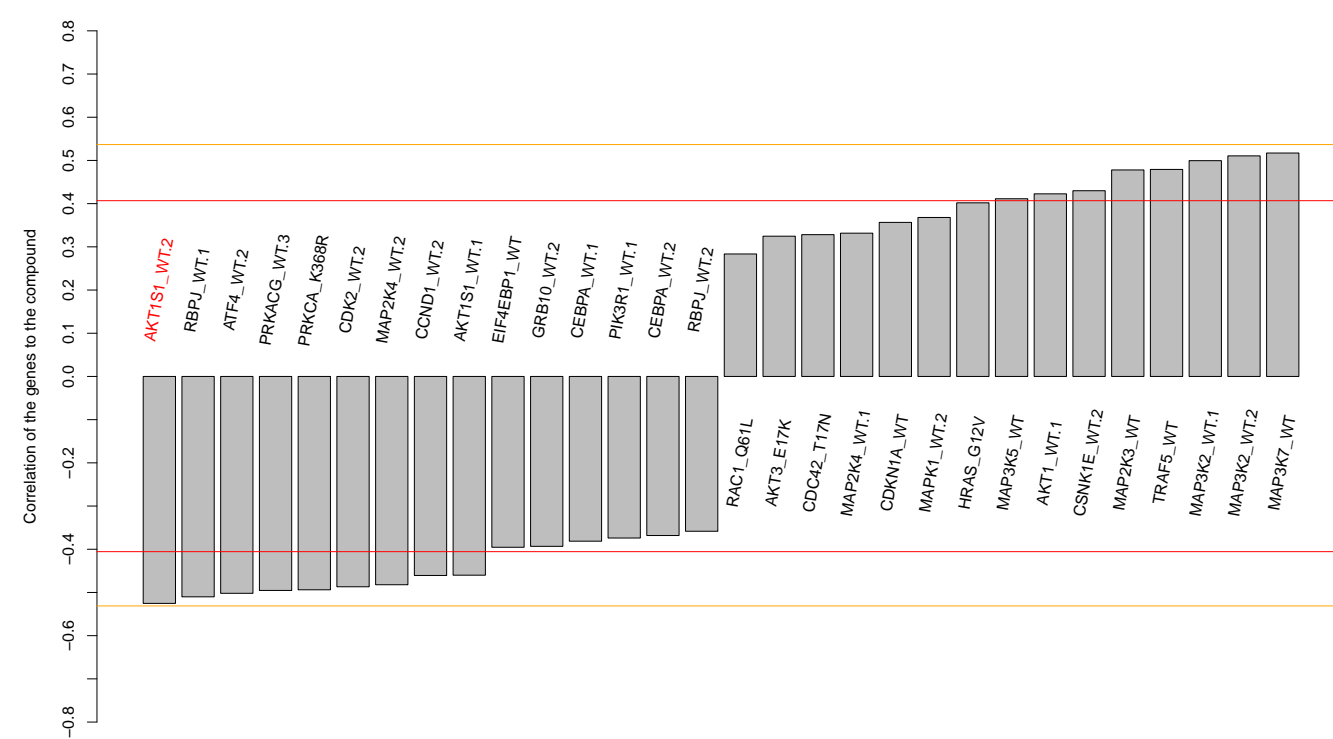


Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.52)	Correlation between compound 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-K48693155-001-01-2 PubChem CID : 54618096		0.87 (in 4 replicates)	0.63	NA			<div><div>Cytoplasm_Intensity_MassIntensityEdge_AGP</div><div>Cytoplasm_Intensity_MassIntensityEdge_AGP</div><div>Nuclei_Texture_DifferenceEntropy_ER_3.0</div><div>Cells_TextureDifference_Entropy_ER_101</div><div>Cells_Intensity_MassIntensityEdge_ER</div><div>Nuclei_Texture_DifferenceEntropy_Mito_3.0</div><div>Cells_RadiatDistribution_RadiatCV_AGP_304</div><div>Nuclei_Texture_VisCells_VisCV_MassIntensity_ER</div><div>Nuclei_Intensity_IntegratedIntensity_ER</div><div>Cytoplasm_Intensity_IntegratedIntensityEdge_RNA</div><div>Nuclei_Intensity_IntegratedIntensity_AGP</div><div>Nuclei_Texture_DifferenceVariance_DNA_3.0</div><div>Nuclei_Texture_DifferenceVariance_AGP_3.0</div><div>Cells_AreaShape_Zenitels_0.0</div><div>Cytoplasm_Texture_DifferenceEntropy_Mito_5.0</div><div>Cytoplasm_AreaShape_Complexness</div></div>	Total number of assays tested in: 37.
BRD-K26421164-001-01-3 PubChem CID : 54618114		0.62 (in 4 replicates)	0.57	0.755			<div><div>Cytoplasm_Intensity_MassIntensityEdge_ER</div><div>Cytoplasm_Intensity_MassIntensityEdge_AGP</div><div>Cytoplasm_Texture_DifferenceVariance_AGP_3.0</div><div>Cells_RadiatDistribution_RadiatCV_AGP_304</div><div>Cytoplasm_Texture_MassDisplacement_DNA</div><div>Cytoplasm_Texture_SumAverage_Mito_5.0</div><div>Cells_Intensity_MassIntensity_ER</div><div>Cytoplasm_Texture_AngularDisplacement_Mito_3.0</div><div>Nuclei_Intensity_IntegratedIntensity_ER</div><div>Cytoplasm_Intensity_IntegratedIntensityEdge_RNA</div><div>Cells_RadiatDistribution_RadiatCV_AGP_304</div><div>Cytoplasm_Texture_AngularDisplacement_AGP_3.0</div><div>Nuclei_Intensity_IntegratedIntensity_AGP</div><div>Cytoplasm_AreaShape_SumOfCytoplasm_Intensity_SumAverage_Mito_5.0</div><div>Cytoplasm_Texture_DifferenceEntropy_Mito_5.0</div><div>Cytoplasm_AreaShape_Complexness</div></div>	Total number of assays tested in: 35.
BRD-K88934376-001-01-4 PubChem CID : 54618098		0.65 (in 4 replicates)	0.56	0.965			<div><div>Cytoplasm_Texture_DifferenceVariance_AGP_3.0</div><div>Cells_RadiatDistribution_RadiatCV_ER_104</div><div>Nuclei_Texture_DifferenceEntropy_Mito_3.0</div><div>Cells_Intensity_MassDisplacement_DNA</div><div>Cytoplasm_Texture_SumAverage_Mito_5.0</div><div>Cells_RadiatDistribution_RadiatCV_AGP_304</div><div>Cells_Intensity_MassIntensity_ER</div><div>Cytoplasm_Texture_AngularDisplacement_Mito_3.0</div><div>Nuclei_Intensity_IntegratedIntensity_ER</div><div>Nuclei_Texture_AngularDisplacement_AGP_3.0</div><div>Cells_Texture_Donor_Mito_3</div><div>Cytoplasm_Texture_Variance_RNA_3.0</div><div>Nuclei_Texture_DifferenceVariance_AGP_3.0</div><div>Cells_Intensity_IntegratedIntensityEdge_AGP</div><div>Cytoplasm_Texture_DifferenceEntropy_Mito_5.0</div><div>Cytoplasm_AreaShape_Complexness</div></div>	Total number of assays tested in: 37.
BRD-A4148464-001-06-0 BRN 1211793 67086-81-1 F1912-0001 AC1MCJDX MLS000678441 CTK517353 HMS2721O10 HE088600 KB-92026 SMR000323916 KB-323361 LS-151122 PubChem CID : 2771064		NA (in 1 replicates)	-0.66	NA			<div><div>Cytoplasm_Intensity_MassIntensity_ER</div><div>Cytoplasm_Texture_DifferenceEntropy_ER_104</div><div>Cells_RadiatDistribution_RadiatCV_ER_104</div><div>Cells_RadiatDistribution_RadiatCV_ER_AGP</div><div>Cells_RadiatDistribution_RadiatCV_RNA_304</div><div>Cells_Intensity_MassIntensity_ER</div><div>Cytoplasm_Texture_AngularDisplacement_Mito_3.0</div><div>Cytoplasm_Intensity_IntegratedIntensityEdge_RNA</div><div>Nuclei_Intensity_IntegratedIntensity_ER</div><div>Cells_Texture_Intensity_ER_104</div><div>Cytoplasm_AreaShape_Fortifactor</div><div>Cytoplasm_Texture_DifferenceEntropy_Mito_5.0</div><div>Cytoplasm_Intensity_IntegratedIntensity_ER</div><div>Cytoplasm_AreaShape_Complexness</div></div>	<div>Total number of assays tested in: 617. Active in the following assays:<ul style="list-style-type: none">• sHTS identification of TNAP inhibitors in the absence of phosphate acceptor performed in luminescent assay (AID 1012)• Aqueous Solubility from MLSMR Stock Solutions (AID 1096)• Primary biochemical fluorescence polarization-based high throughput screening assay to identify inhibitors of protein arginine methyltransferase 1 (PRMT1) (AID 652257)</div>

-0.53

0.245



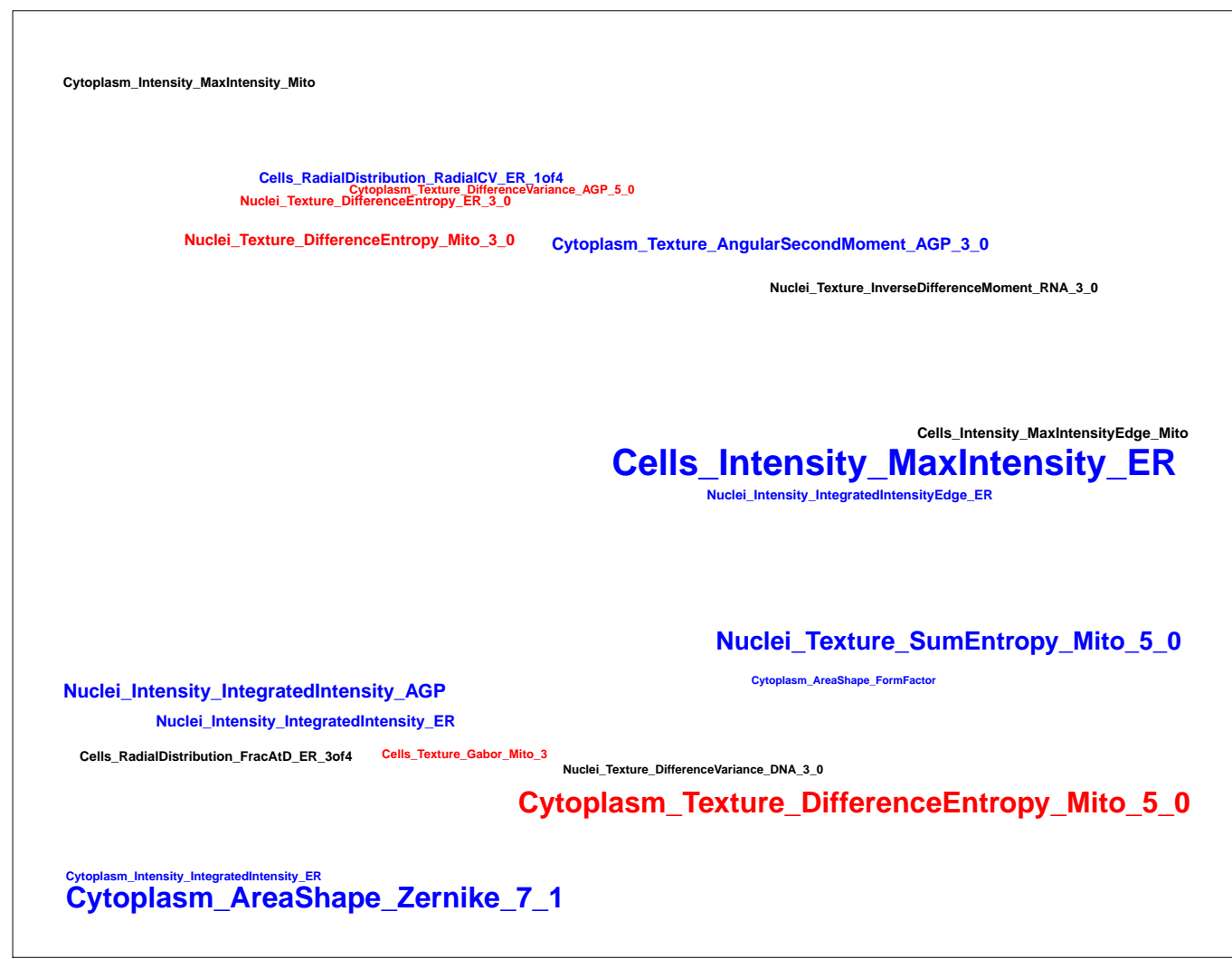
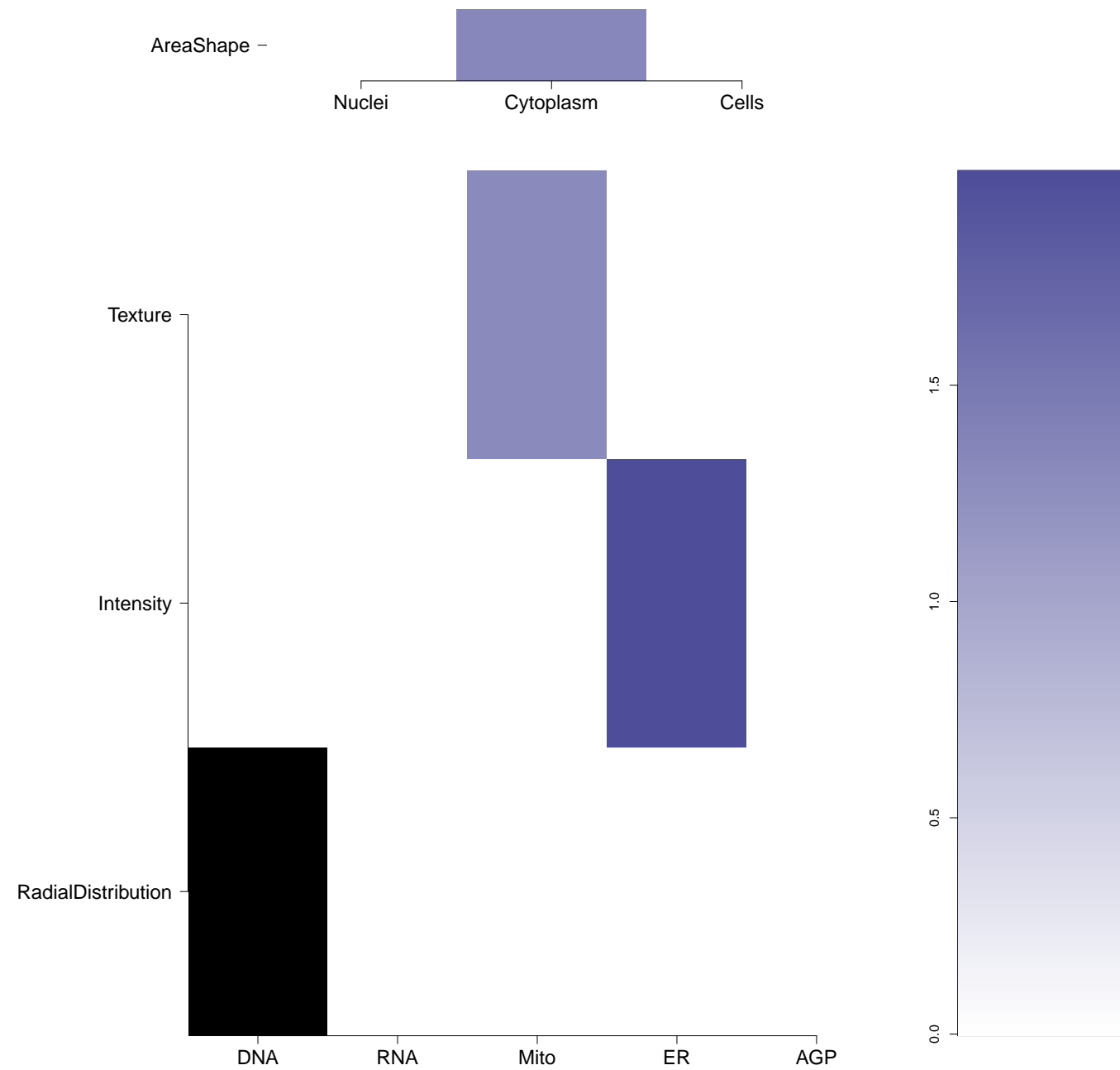
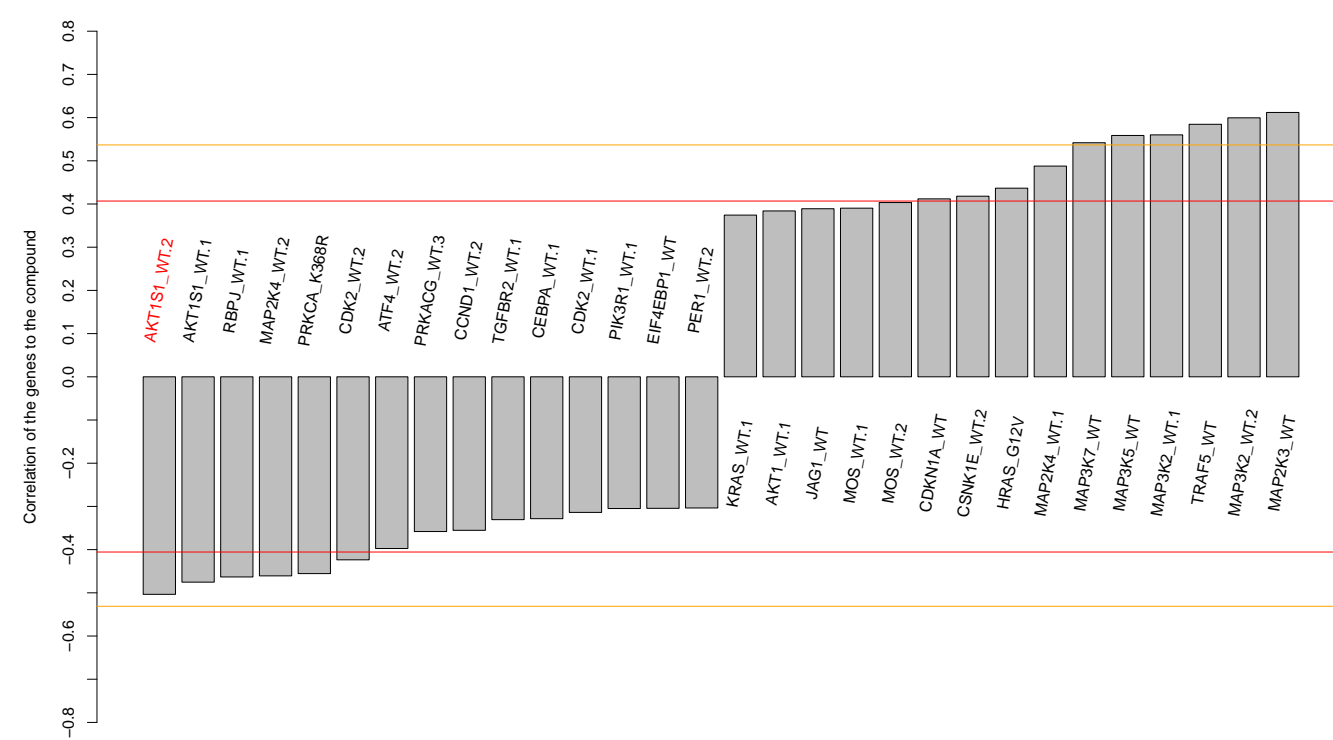
Total number of assays tested in: 761. Active in the following assays:

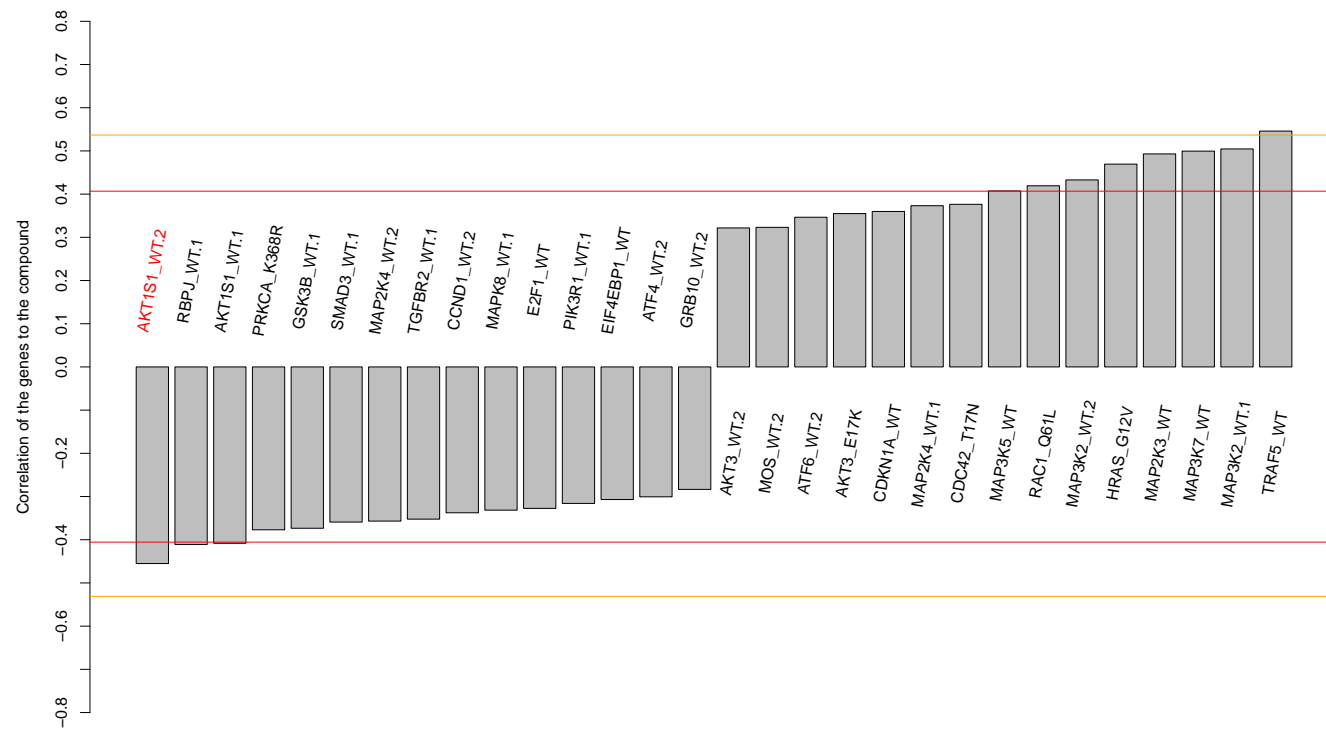
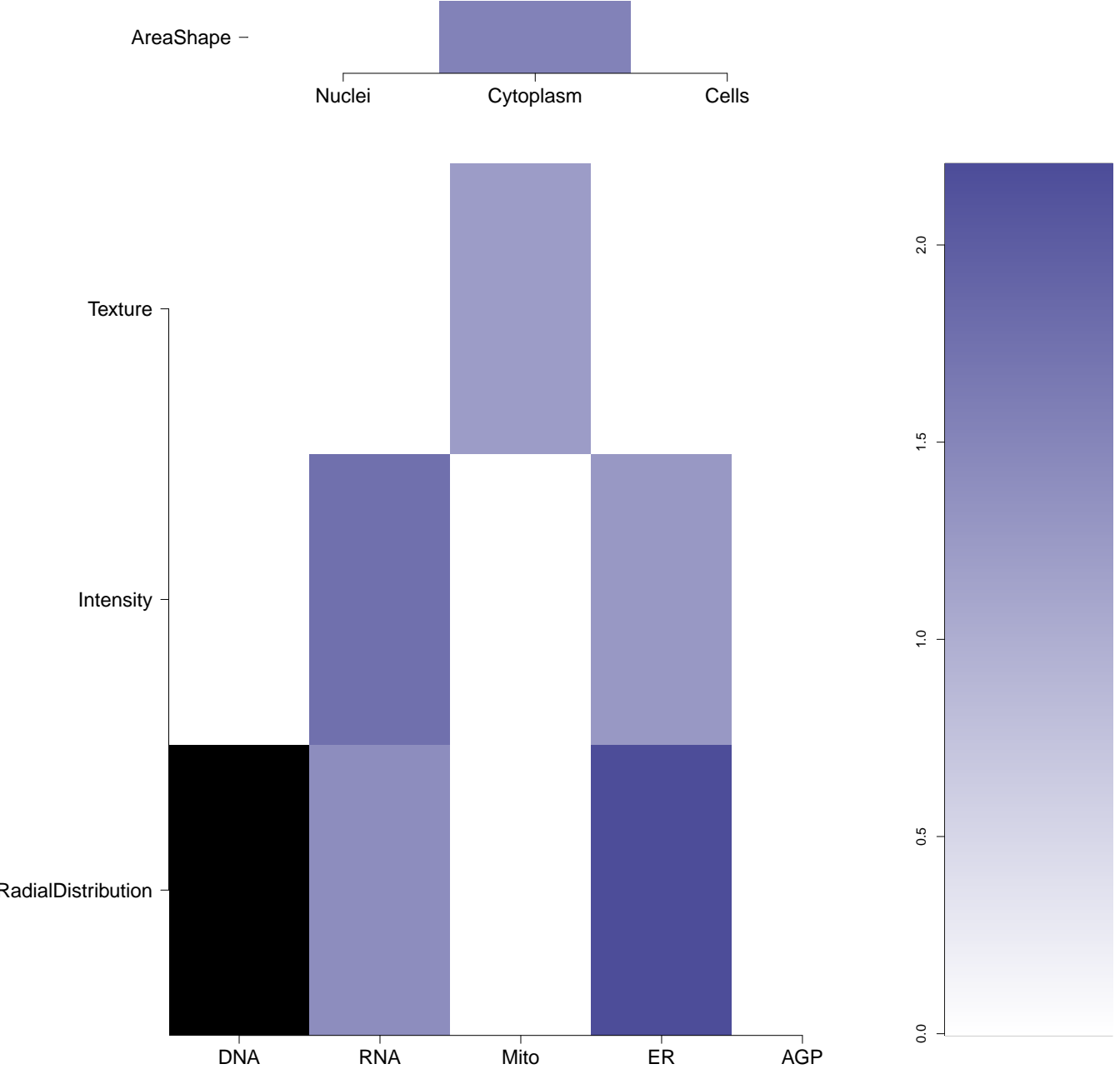

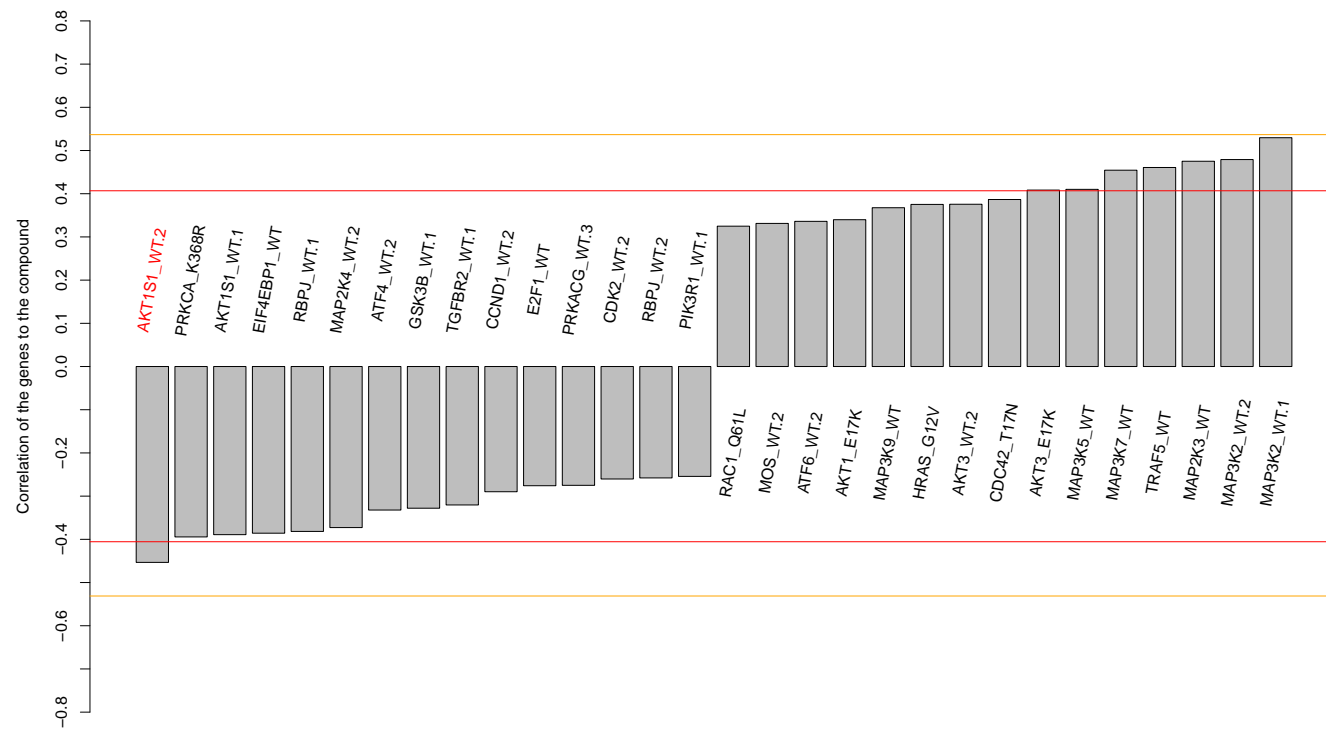
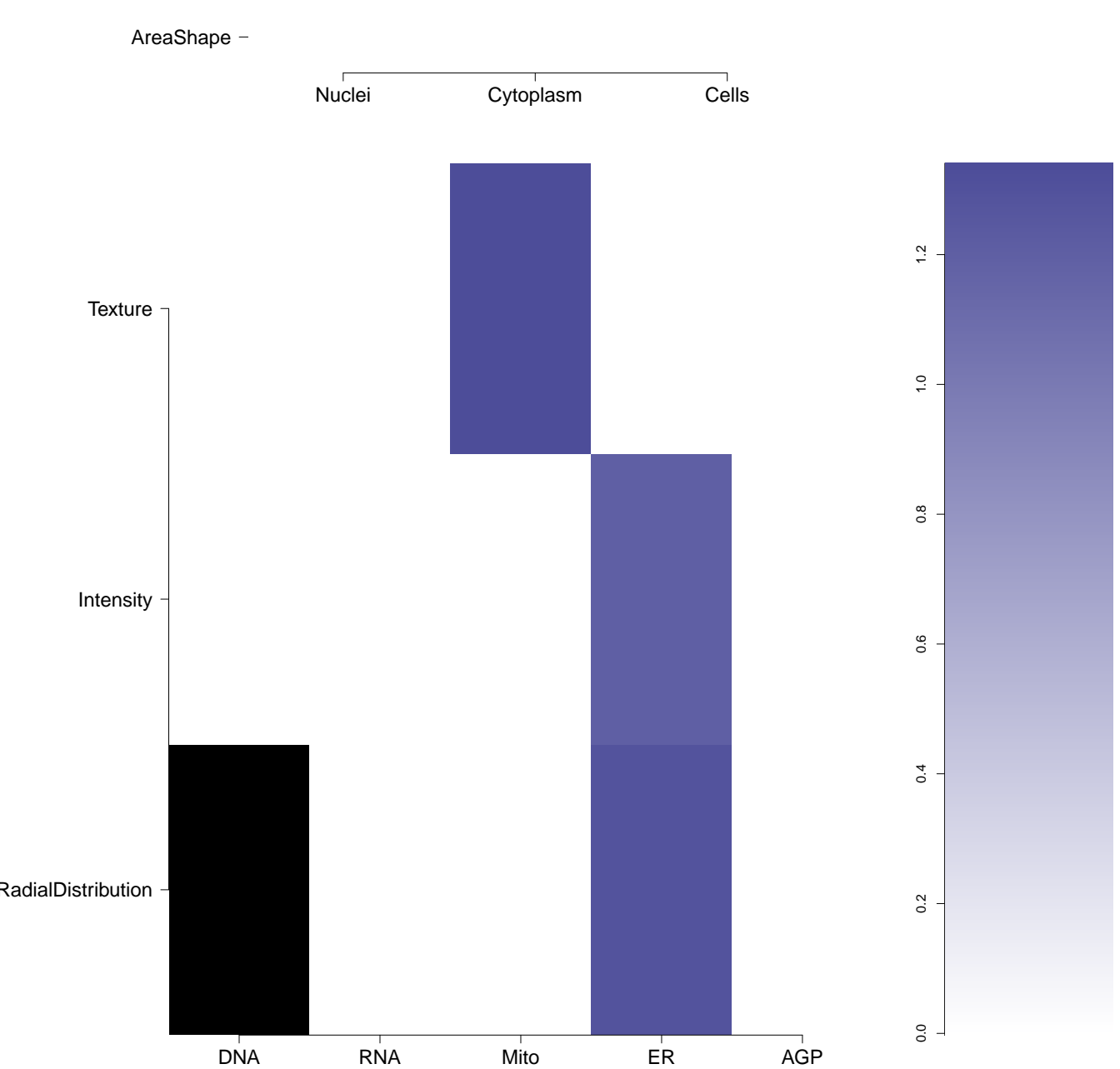

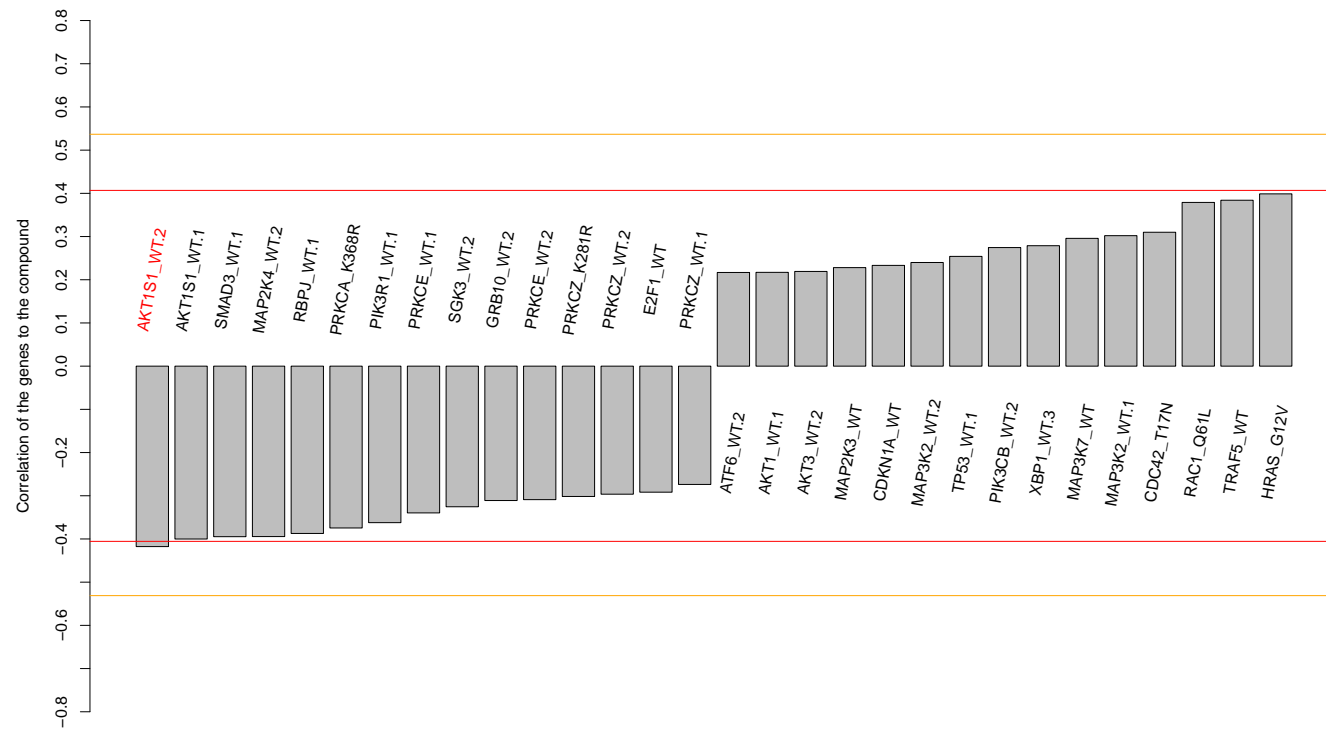
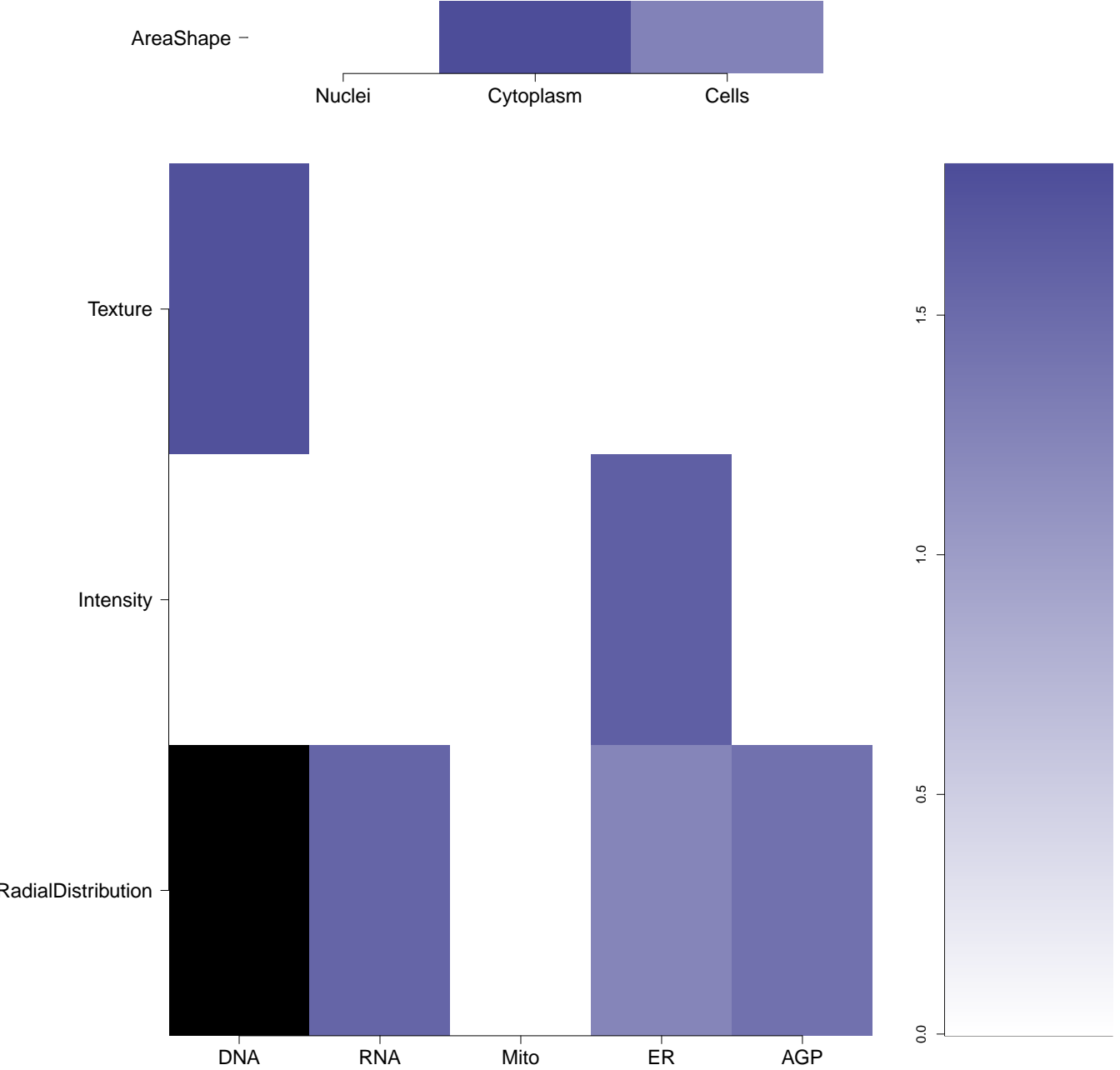

- Fluorescent HTS Cytotoxicity/Cell viability assay (HPDE-C7K cells) (AID 431)
- Human H69AR Lung Tumor Cell Growth Inhibition Assay - 86K Screen (AID 598)
- CYP2C9 Assay (AID 777)
- High Throughput Screen to Identify Compounds that Suppress the Growth of Human Colon Tumor Cells Lacking Oncogenic Beta Catenin Expression - Dose Response (AID 1045)
- High Throughput Screen to Identify Compounds that Suppress the Growth of Cells with a Deletion of the PTEN Tumor Suppressor - Dose Response (AID 1047)
- qHTS absorbance assay for the identification of compounds that inhibit PHOSPHOI (AID 1565)
- HCS for Compounds that Down-Regulate Insulin Promoter Activity in MIN6 Cells (AID 1628)
- CounterScreen for inhibitors of PP5: fluorescence-based biochemical high throughput primary assay to identify inhibitors of Protein Phosphatase 1 (PP1). (AID 2235)
- 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 419762)
- A High Throughput Confirmatory Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in the absence of Glycerol (AID 419764)
- Fluorescence-based counterScreen for orexin 1 receptor (OX1R) antagonists: cell-based assay to identify antagonists of the parental CHO cell line (AID 463079)
- qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxisomes (AID 483564)
- Nrf2 qHTS screen for inhibitors (AID 504444)
- Primary qHTS for delayed death inhibitors of the malarial parasite placoid, 96 hour incubation (AID 504834)
- Primary cell-based high-throughput screening for identification of compounds that inhibit thapsigargin-activated chloride channels (TMEM16A) calcium-activated chloride channels (TRPV6) (AID 585511)
- Fluorescence-based cell-based primary high-throughput screening assay to identify antagonists of the human trace amine associated receptor 1 (TAAR1) (AID 624466)
- HIV entry: Env-mediated Cell Fusion Measured in Cell-Based System Using Plate Reader - 703-01. Inhibitor. SinglePoint. HTS Activity (AID 651610)
- qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820)
- Fluorescence-based cell-based primary high-throughput screening assay to identify inhibitors of COUP-TFII (NR2P2) (AID 686940)
- 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)
- High Throughput Screening for Cold and Mouth Disease Virus Antivirals (AID 1150524)

CCCCc1c2ccccc2nc1CSCc3cc(C)cc(C)c3

-0.50

0.245



<div>BRD-A59677526-001-05-6</div> <div>BAS 11133255</div> <div>AC1NY8BA</div> <div>MLS000718751</div> <div>HMS1619N08</div> <div>HMS2759B23</div> <div>STK210566</div> <div>CCG-122289</div> <div>SMR000291019</div> <div>ST063907</div> <div>PubChem CID : 5769936</div>	<chem>O=C1C(=O)N2C(=O)C(=C1)N2C(=O)N3C(=O)C(=C3)C4=CC=CC=C4</chem>	0.59 (in 3 replicates)	-0.46	NA				Total number of assays tested in: 573. Active in the following assays: <ul style="list-style-type: none">• nHTS luminescence assay for the identification of chemical inhibitors of B-cell specific antigen receptor-induced NF-κB activation (AID 435022)
<div>BRD-K54658376-001-05-0</div> <div>MLS000575341</div> <div>AC1M4YTA</div> <div>Ambcb6884374</div> <div>ZINC2994573</div> <div>STL370139</div> <div>SMR000196575</div> <div>PubChem CID : 2291919</div>	<chem>O=C1C(=O)N2C(=O)C(=C1)N2C(=O)N3C(=O)C(=C3)C4=CC=CC=C4</chem>	0.57 (in 4 replicates)	-0.45	NA				Total number of assays tested in: 644. Active in the following assays: <ul style="list-style-type: none">• qHTS Assay for Inhibitors of HPGD (15-Hydroxyprostaglandin Dehydrogenase) (AID 894)• Multiplexed high-throughput screen for small molecule regulators of Bcl-2 family protein interactions, specifically Bim-Med-1 (AID 1009)• qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030)• Total Fluorescence Counterscreen for Inhibitors of the Interaction of Thyroid Hormone Receptor and Steroid Receptor Coregulator 2 (AID 1479)• qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphotransferase (PTase) (AID 1490)• nHTS fluorescence polarization assay for the identification of translation initiation inhibitors (eIF4H) (AID 2012)• nHTS fluorescence polarization assay for the identification of translation initiation inhibitors (PABP) (AID 2014)• qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)
<div>BRD-A03433391-003-05-9</div> <div>MLS001211006</div> <div>SMR000517306</div> <div>PubChem CID : 24747061</div>	<chem>O=C1C(=O)N2C(=O)C(=C1)N2C(=O)N3C(=O)C(=C3)C4=CC=CC=C4</chem>	0.67 (in 4 replicates)	-0.42	NA				Total number of assays tested in: 487. Active in the following assays: <ul style="list-style-type: none">• Aqueous Solubility from MLSMR Stock Solutions (AID 1996)• 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 Rab9 Promoter Activators (AID 485297)• qHTS Assay for NPC1 Promoter Activators (AID 485313)• qHTS profiling assay for firefly luciferase-inhibitor/activator using purified enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)• nHTS identification of microRNA-mediated mRNA deadenylation inhibitors by fluorescence polarization assay (AID 588489)