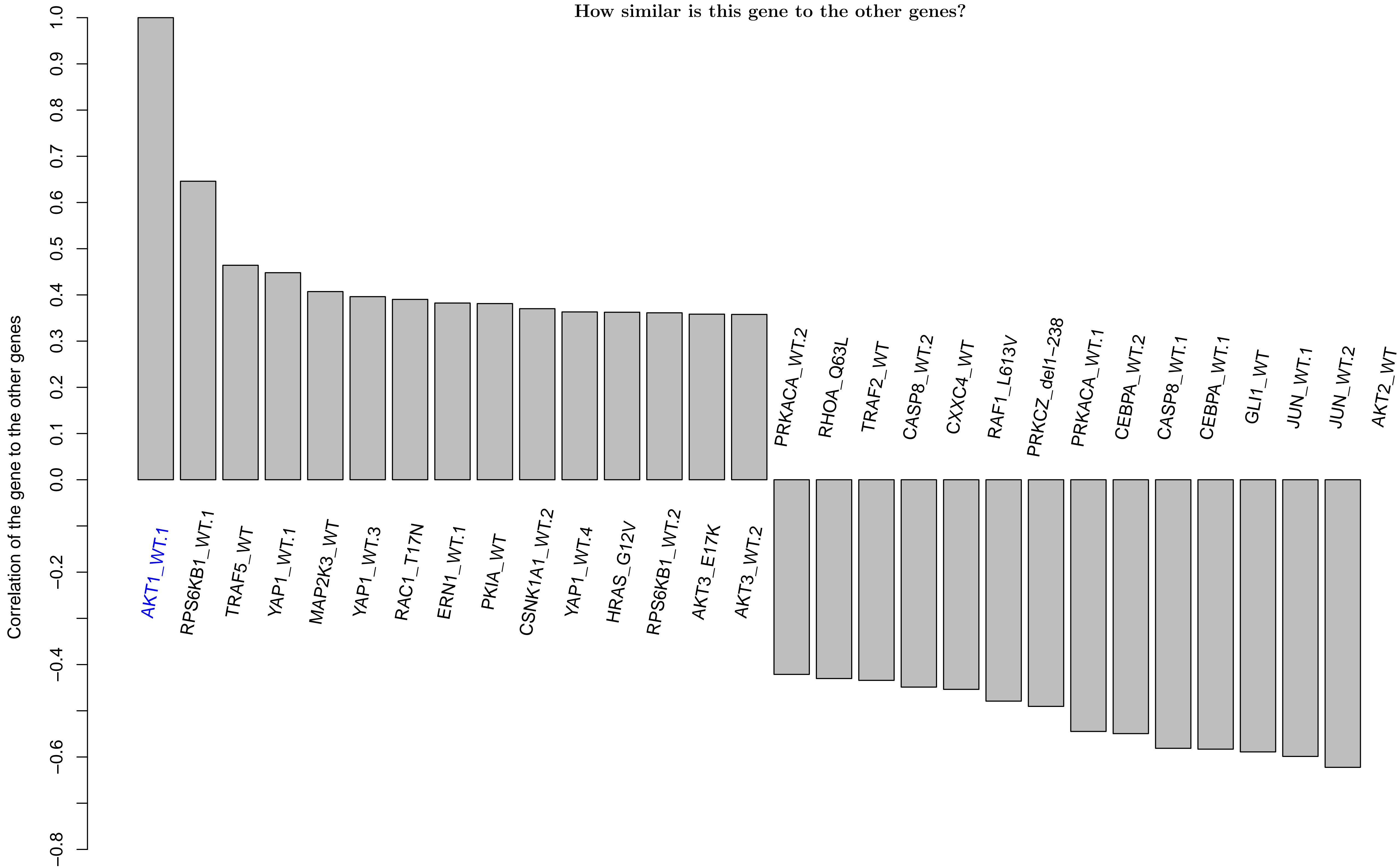
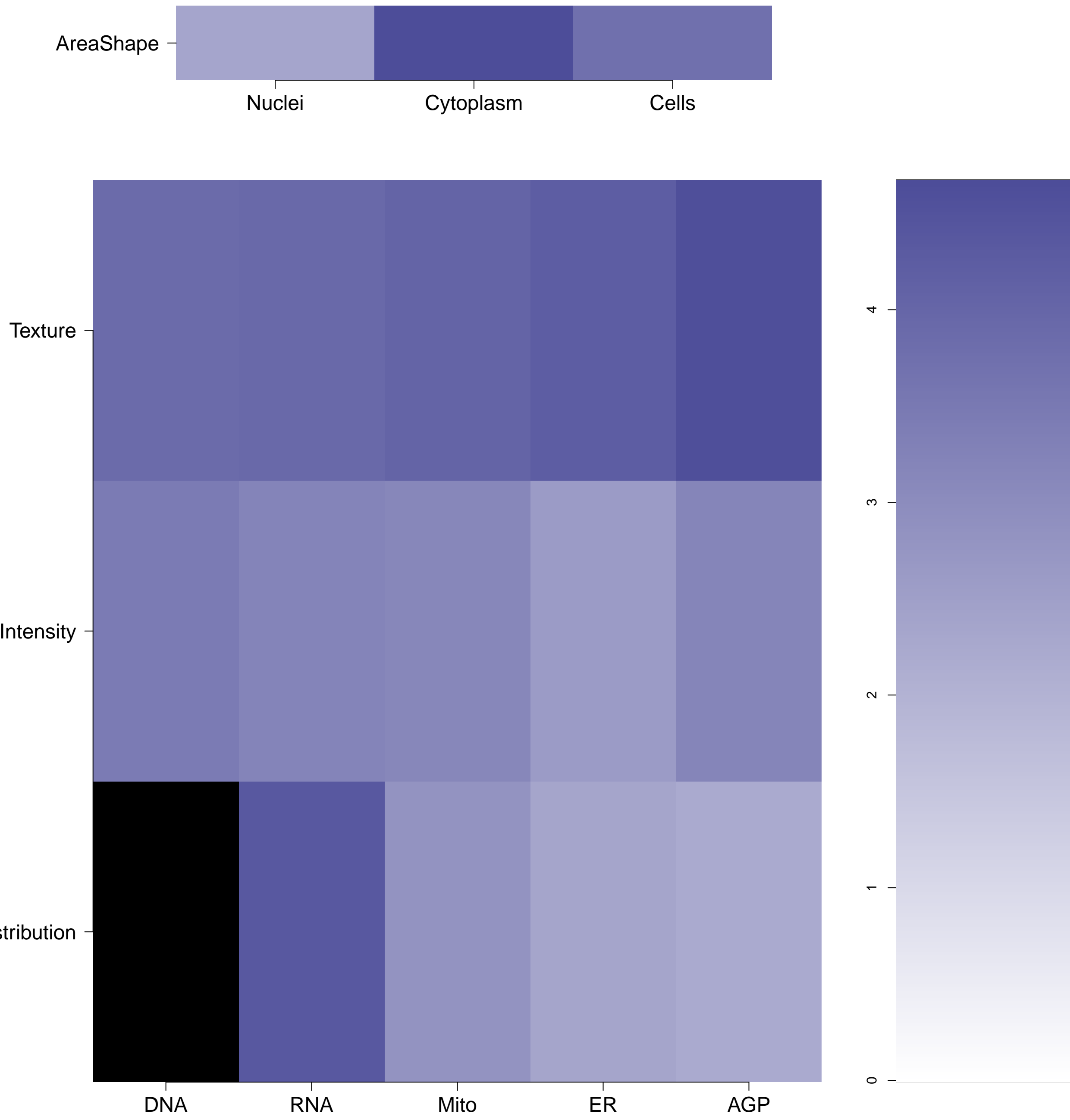


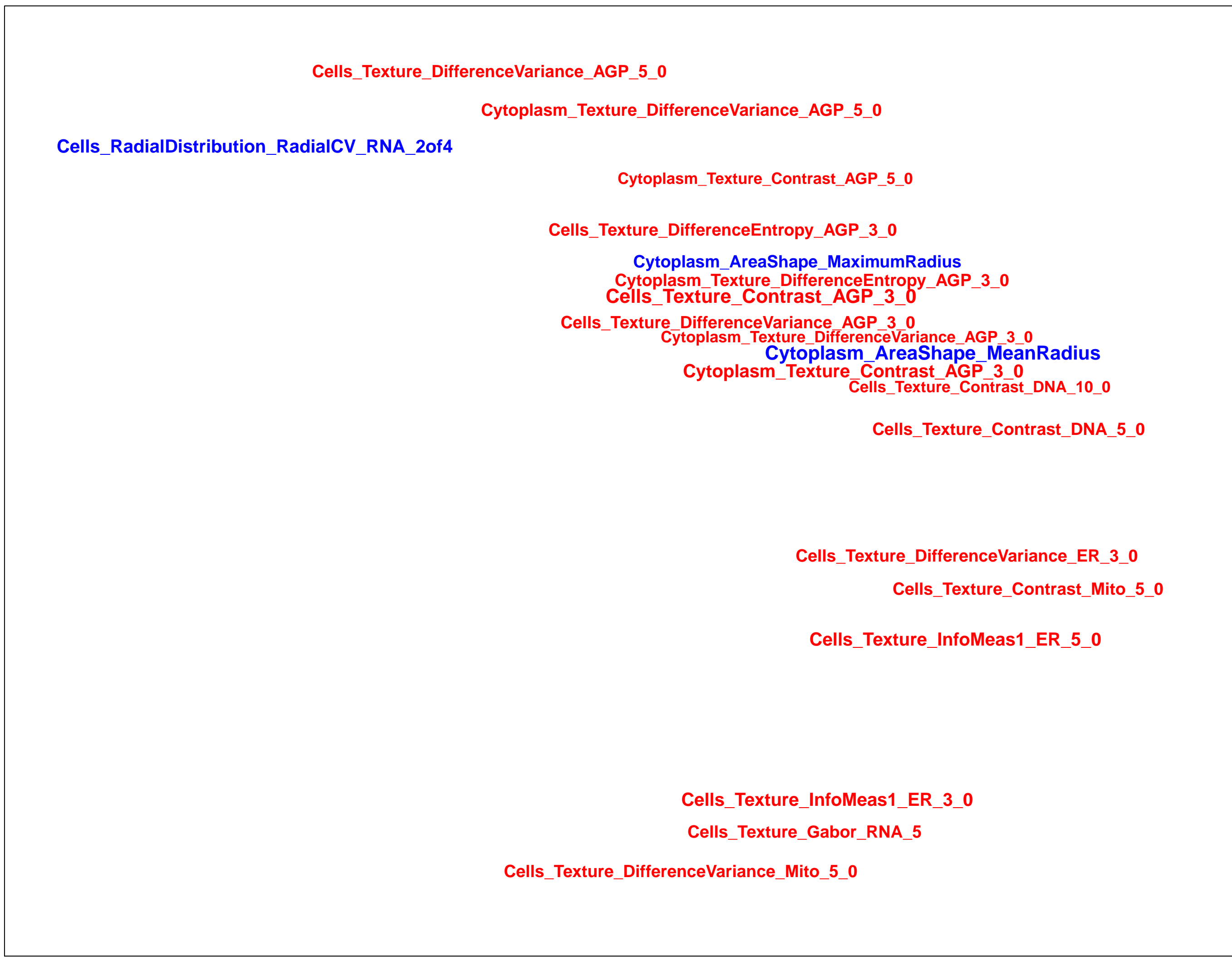
How similar is this gene to the other genes?



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

AKT1.WT.1 (41744)

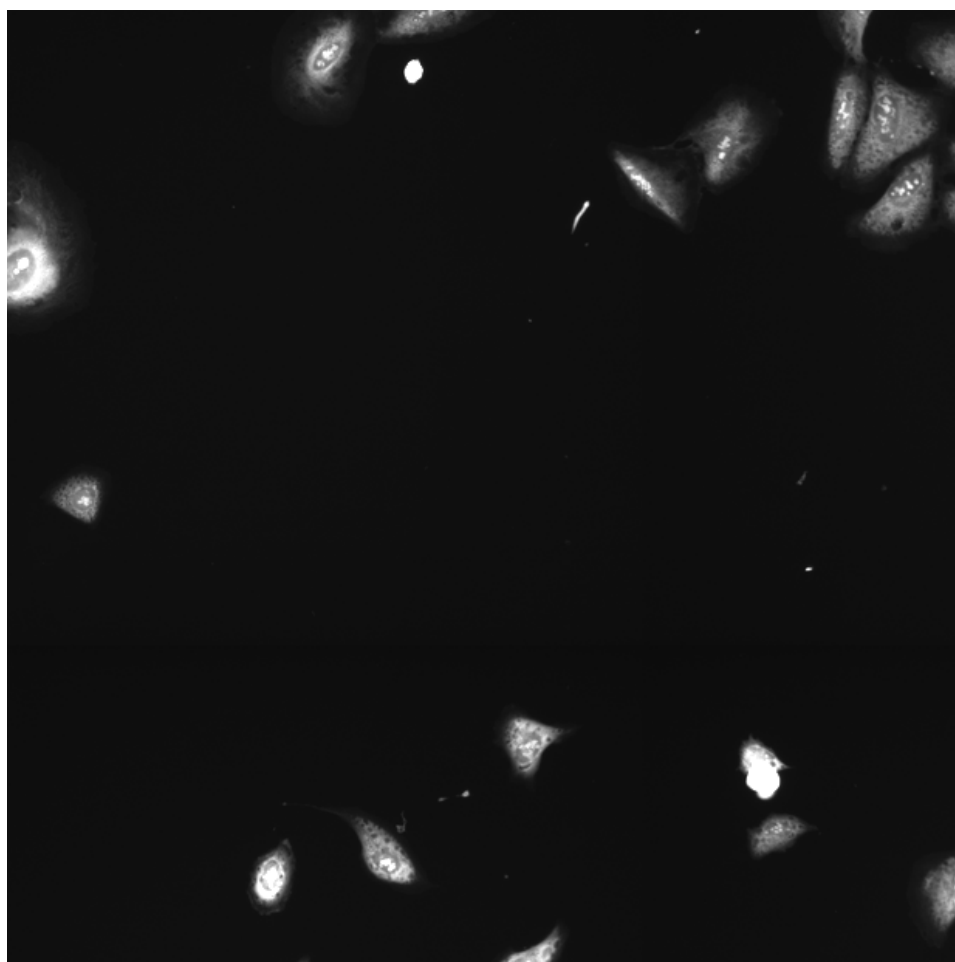
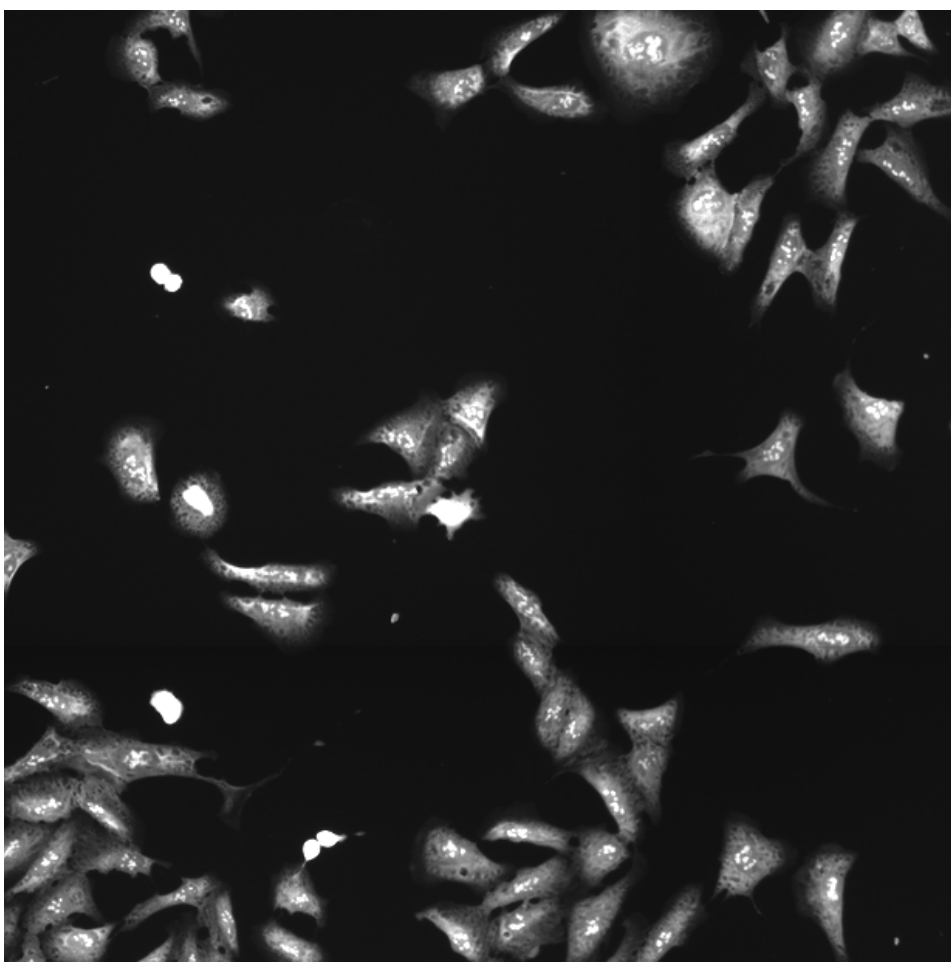
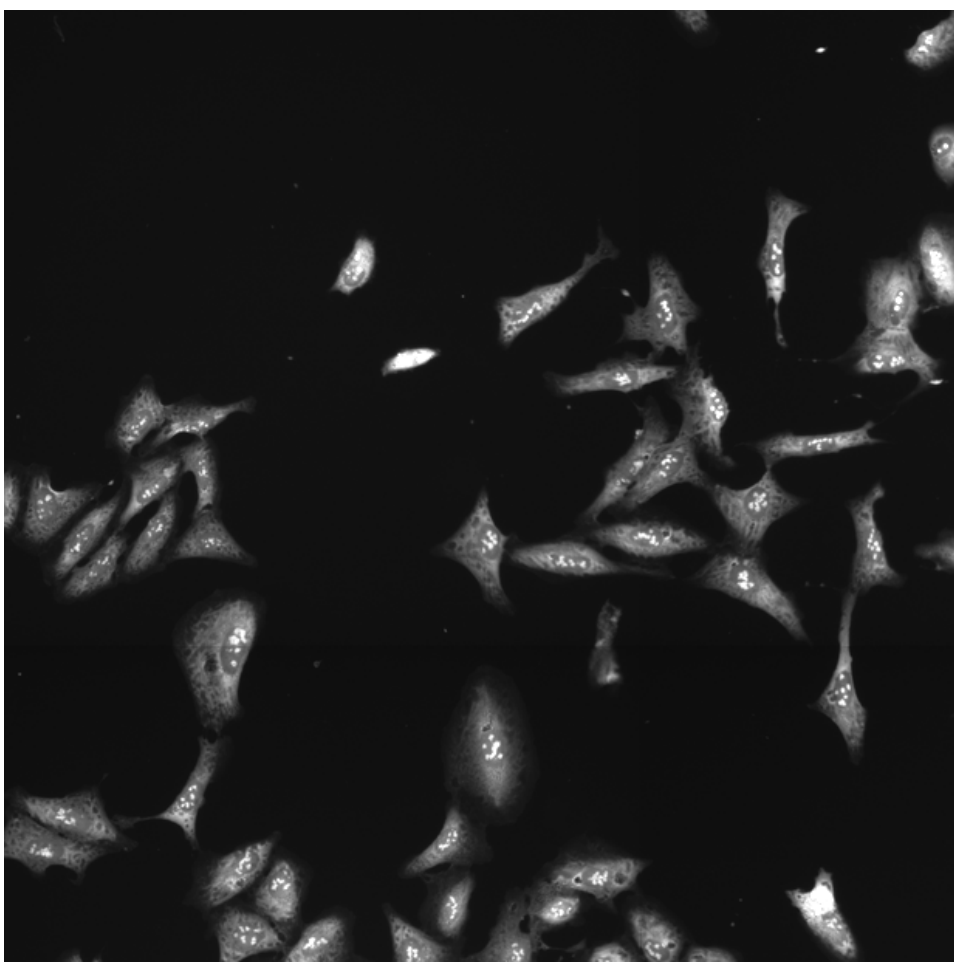
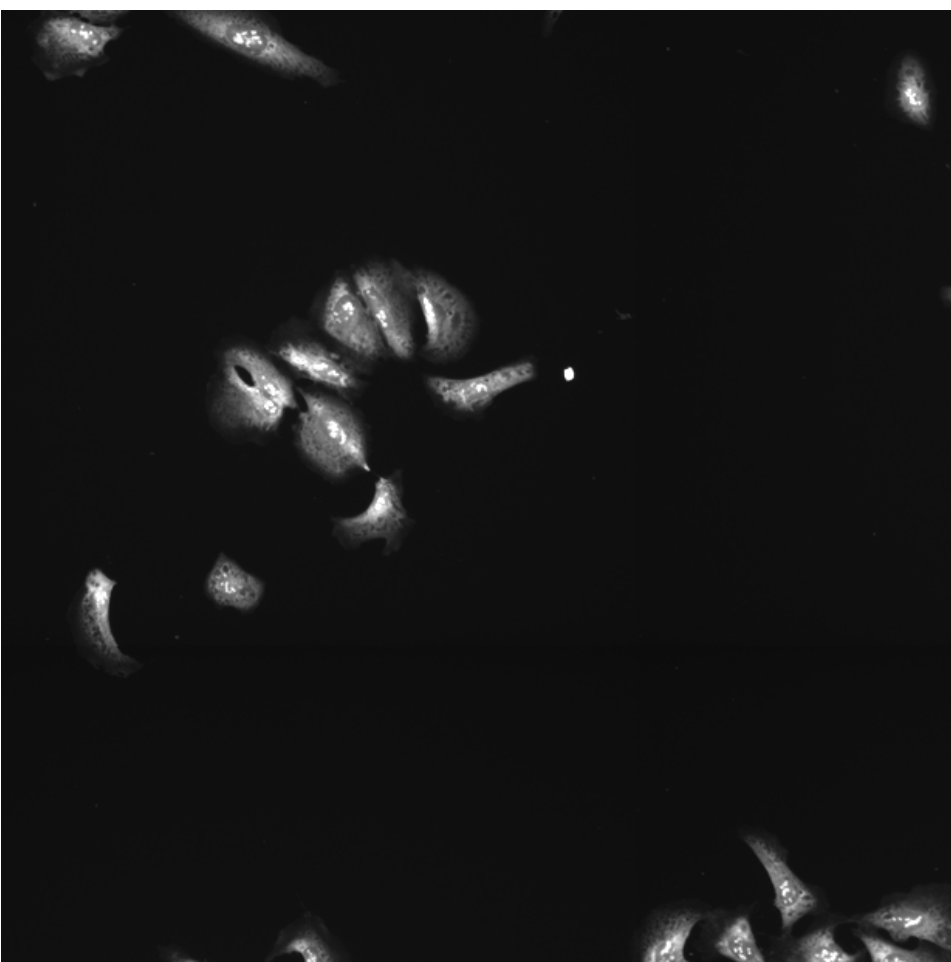
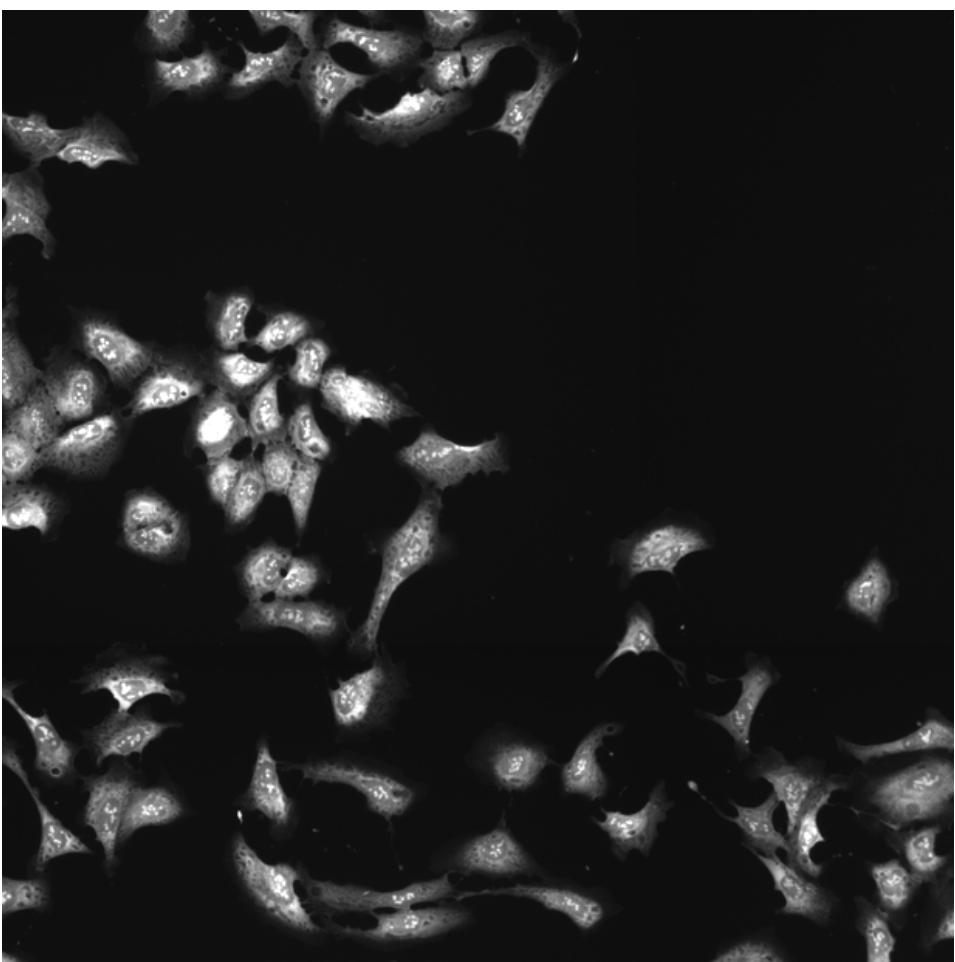
AKT1.WT.1 (41755)

AKT1.WT.1 (41756)

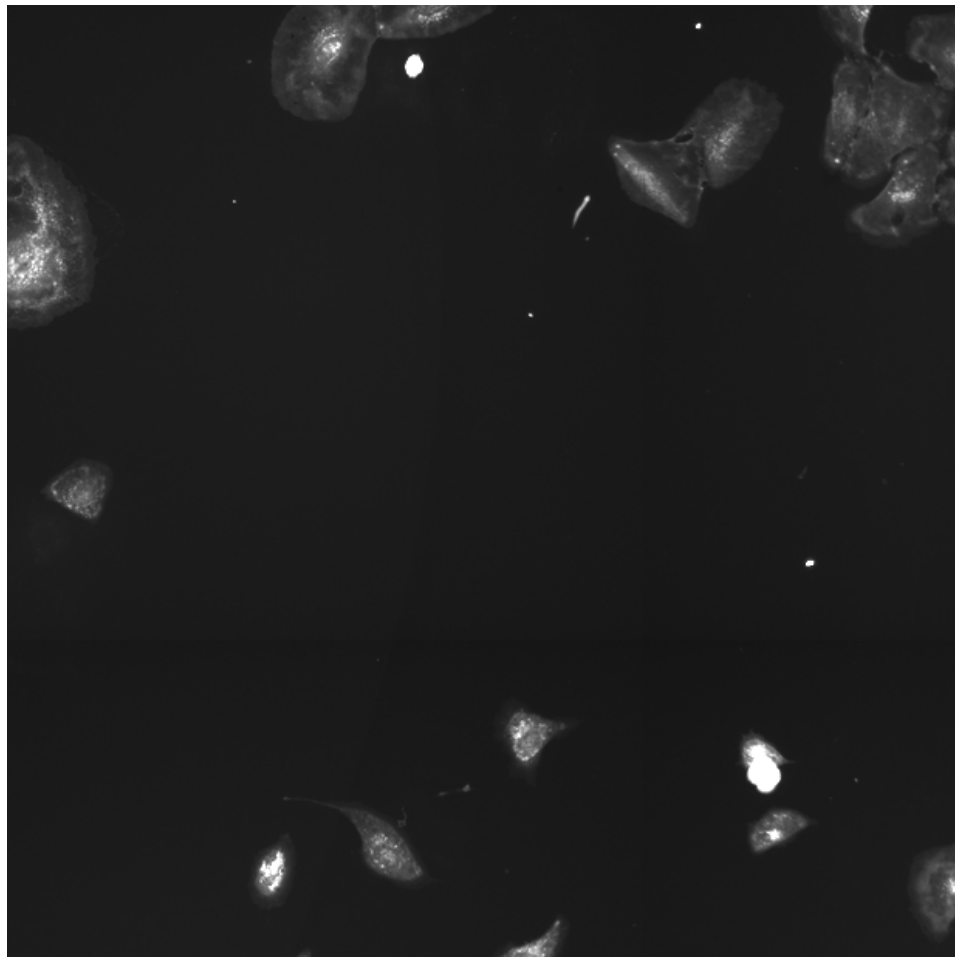
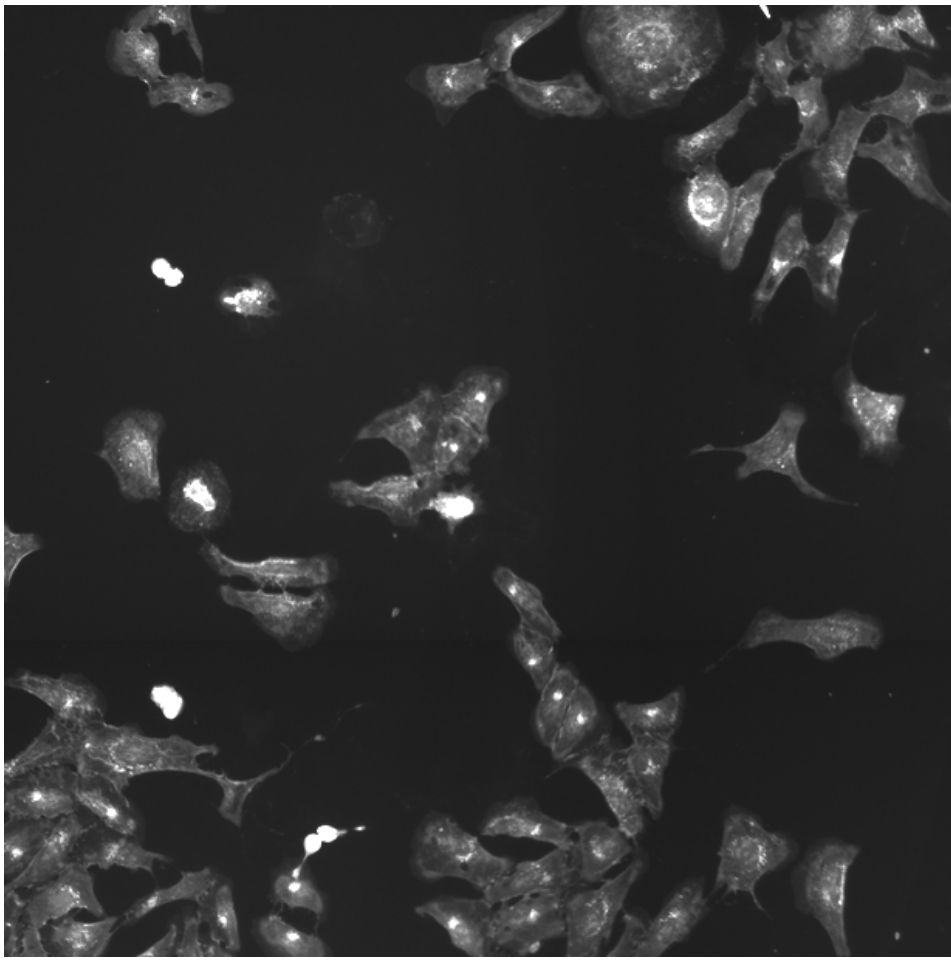
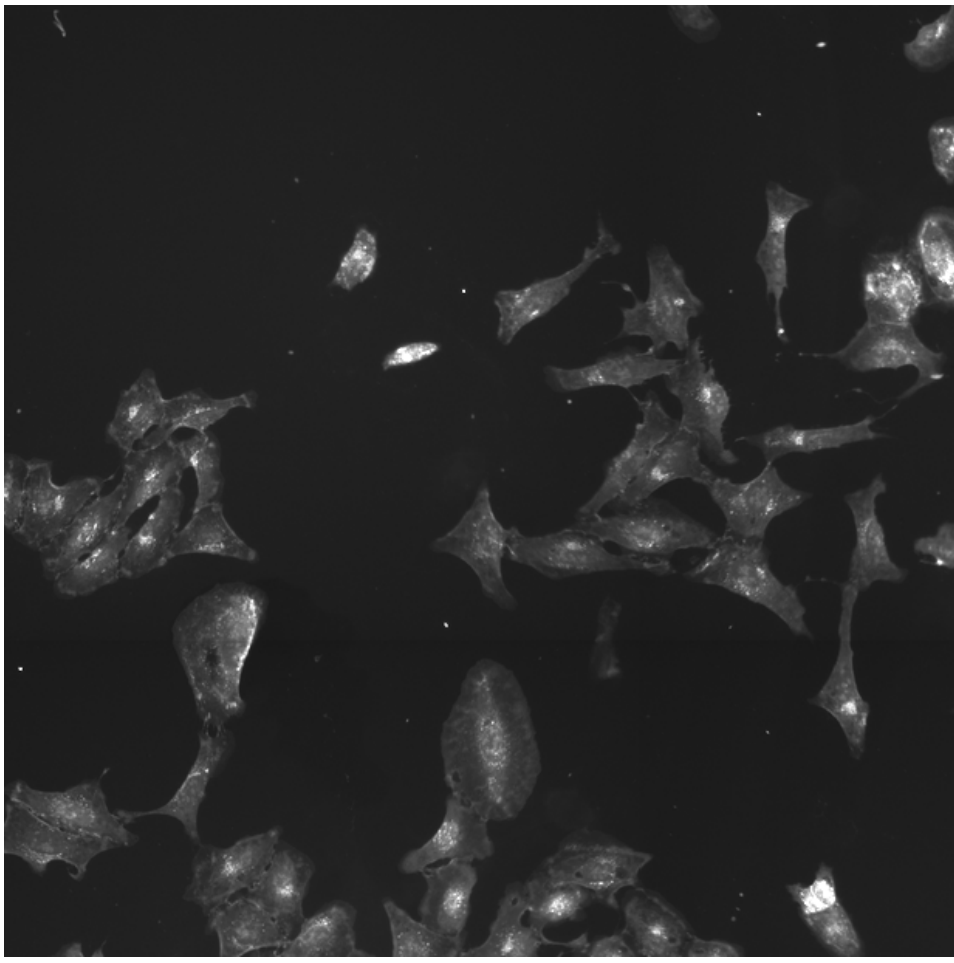
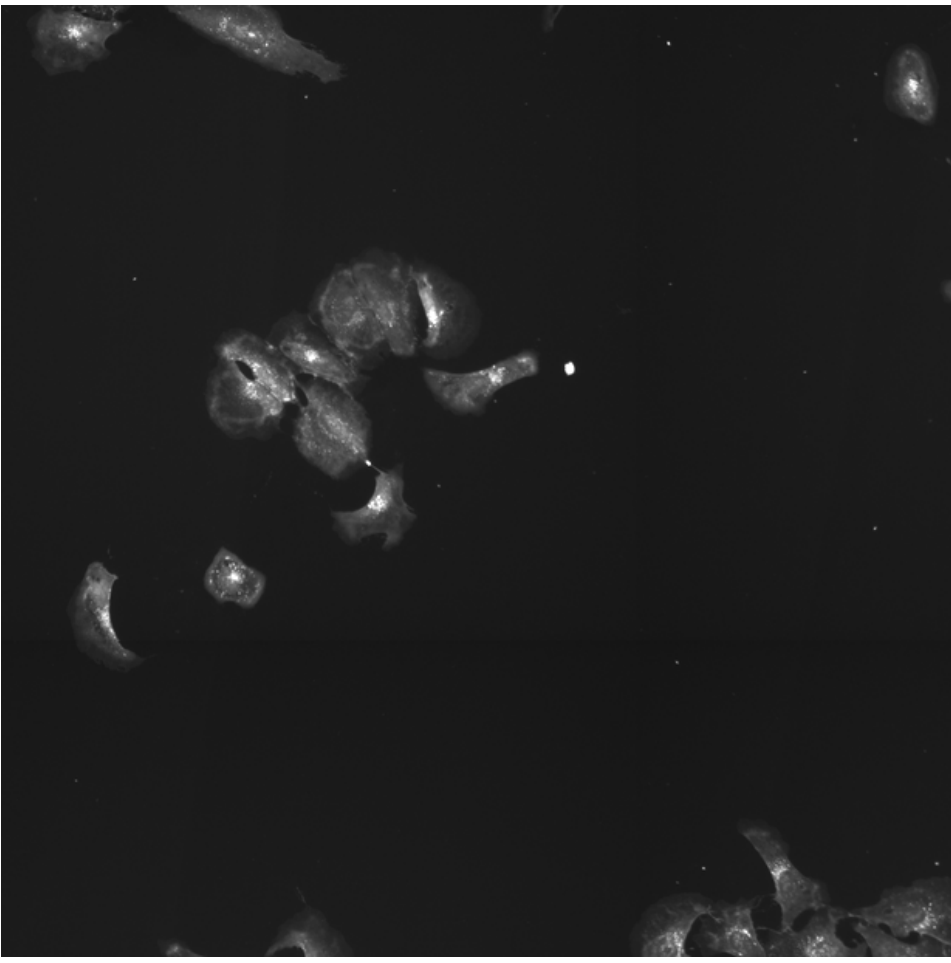
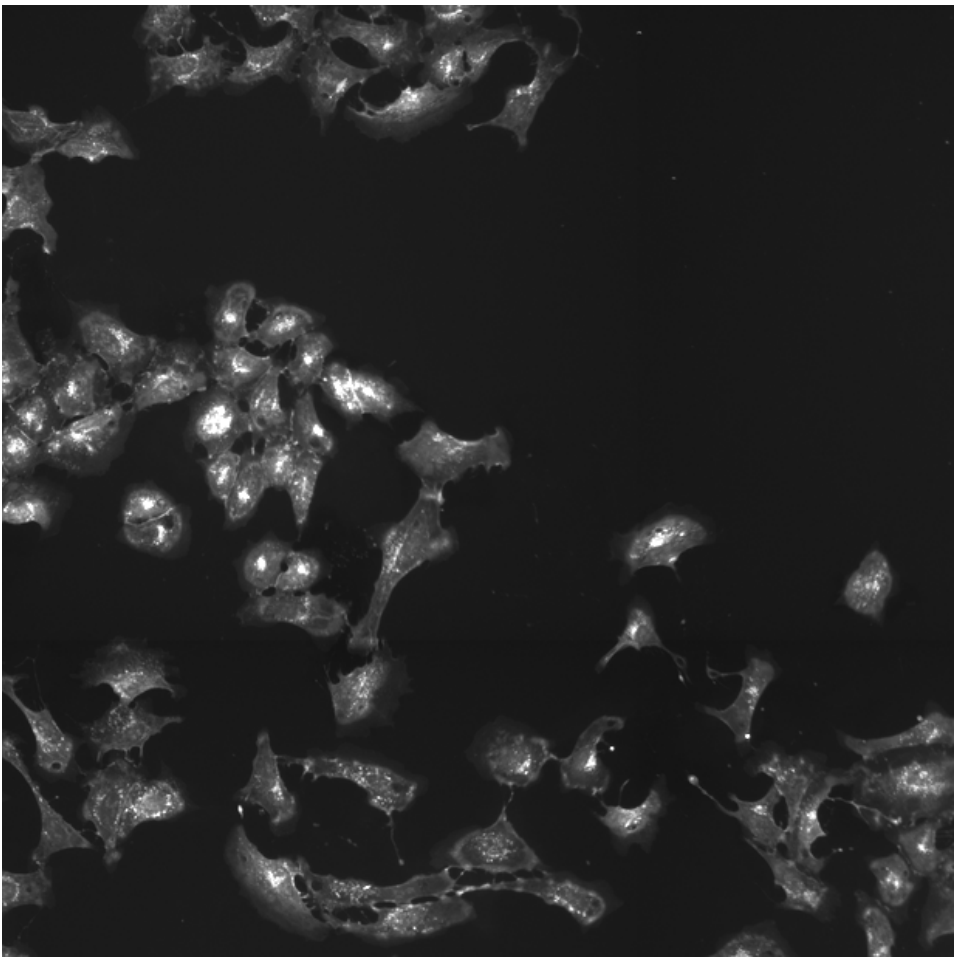
AKT1.WT.1 (41757)

AKT1.WT.1 (41754)

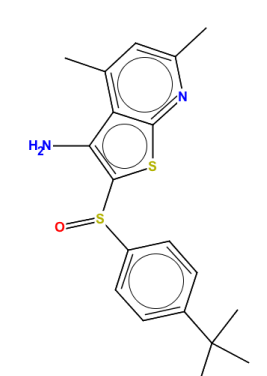
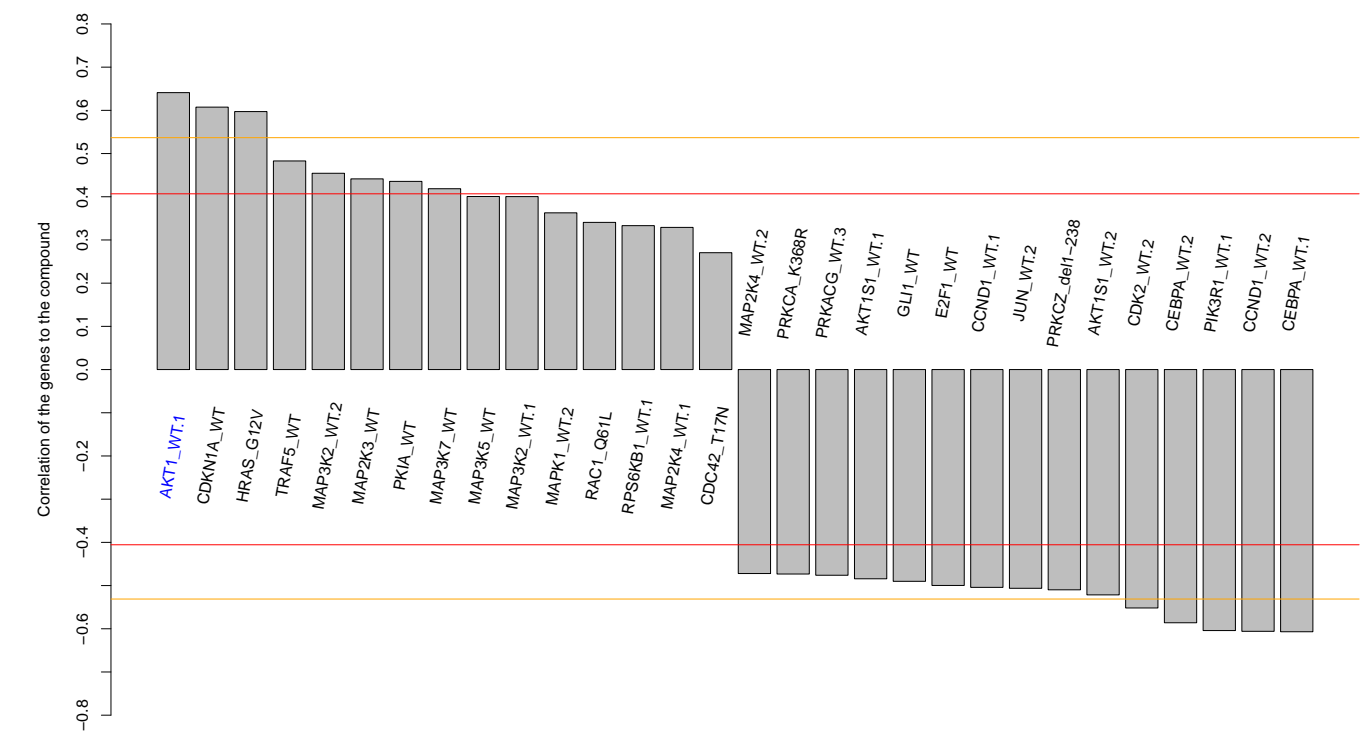

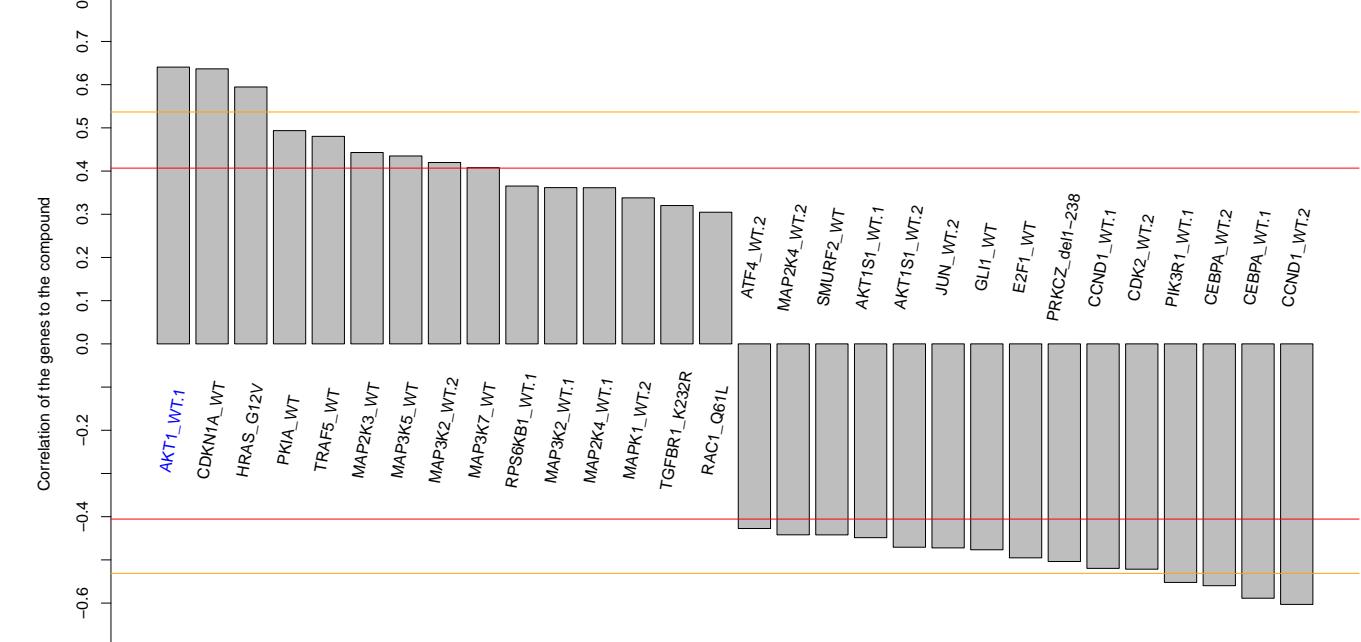
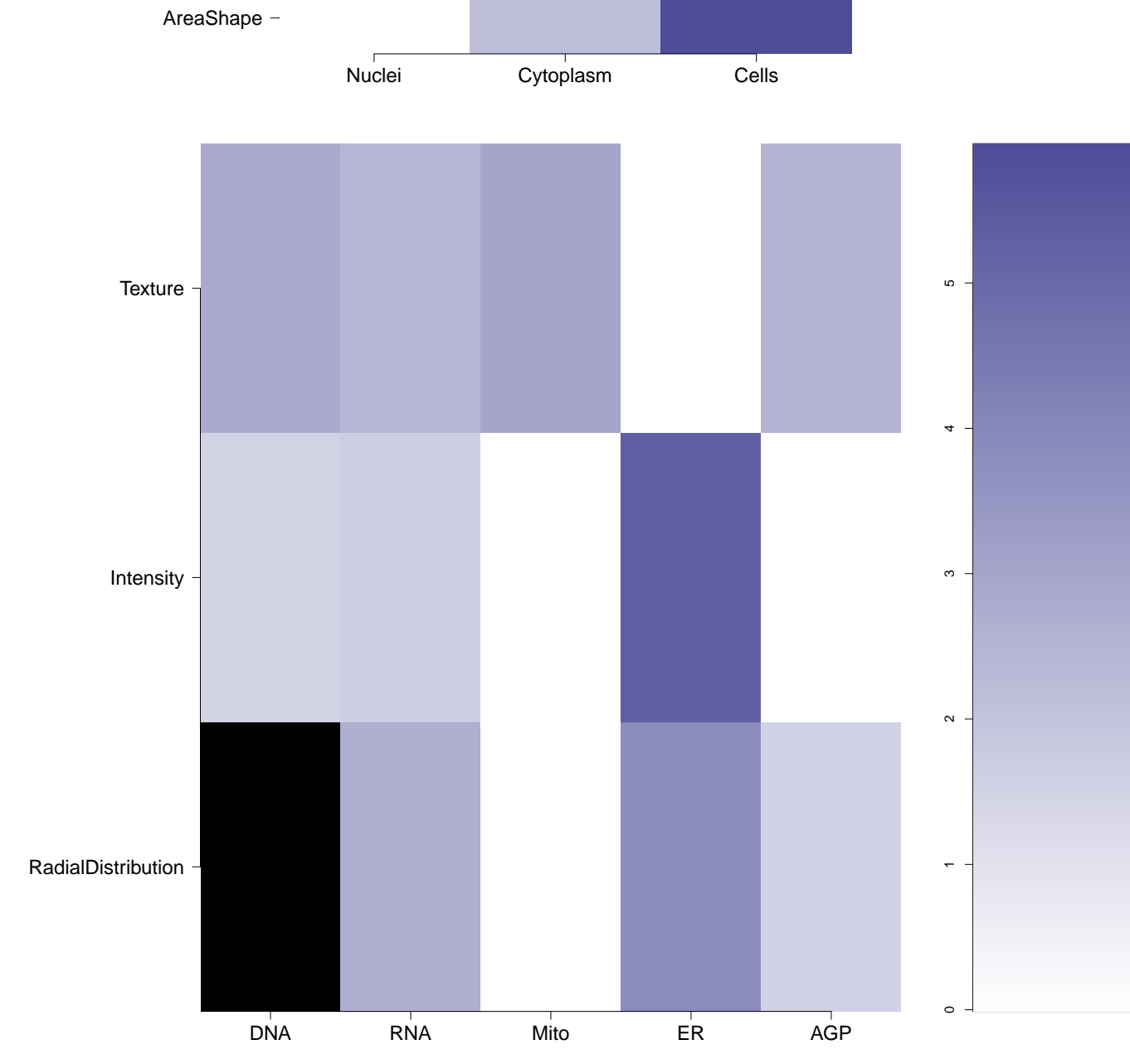
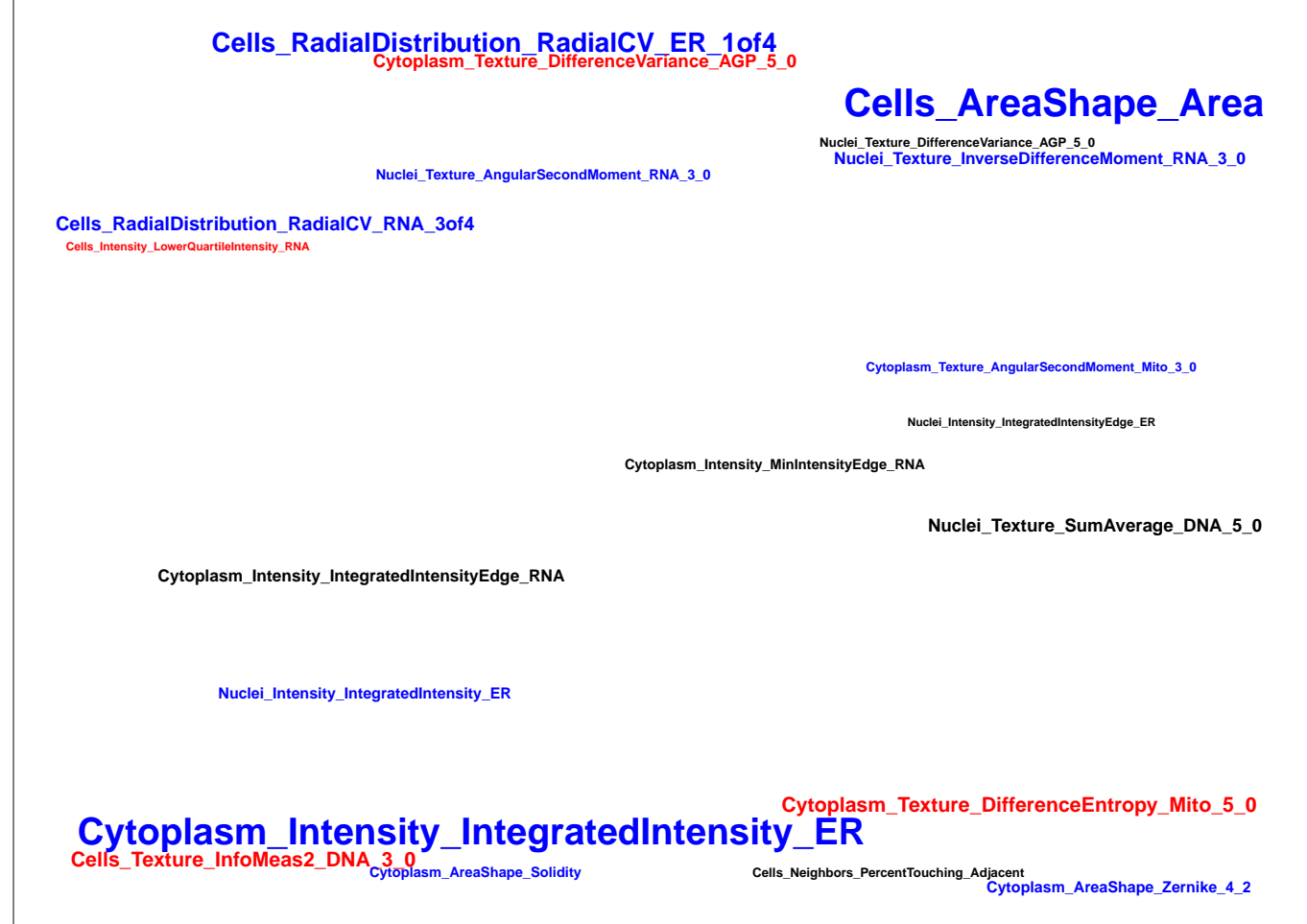
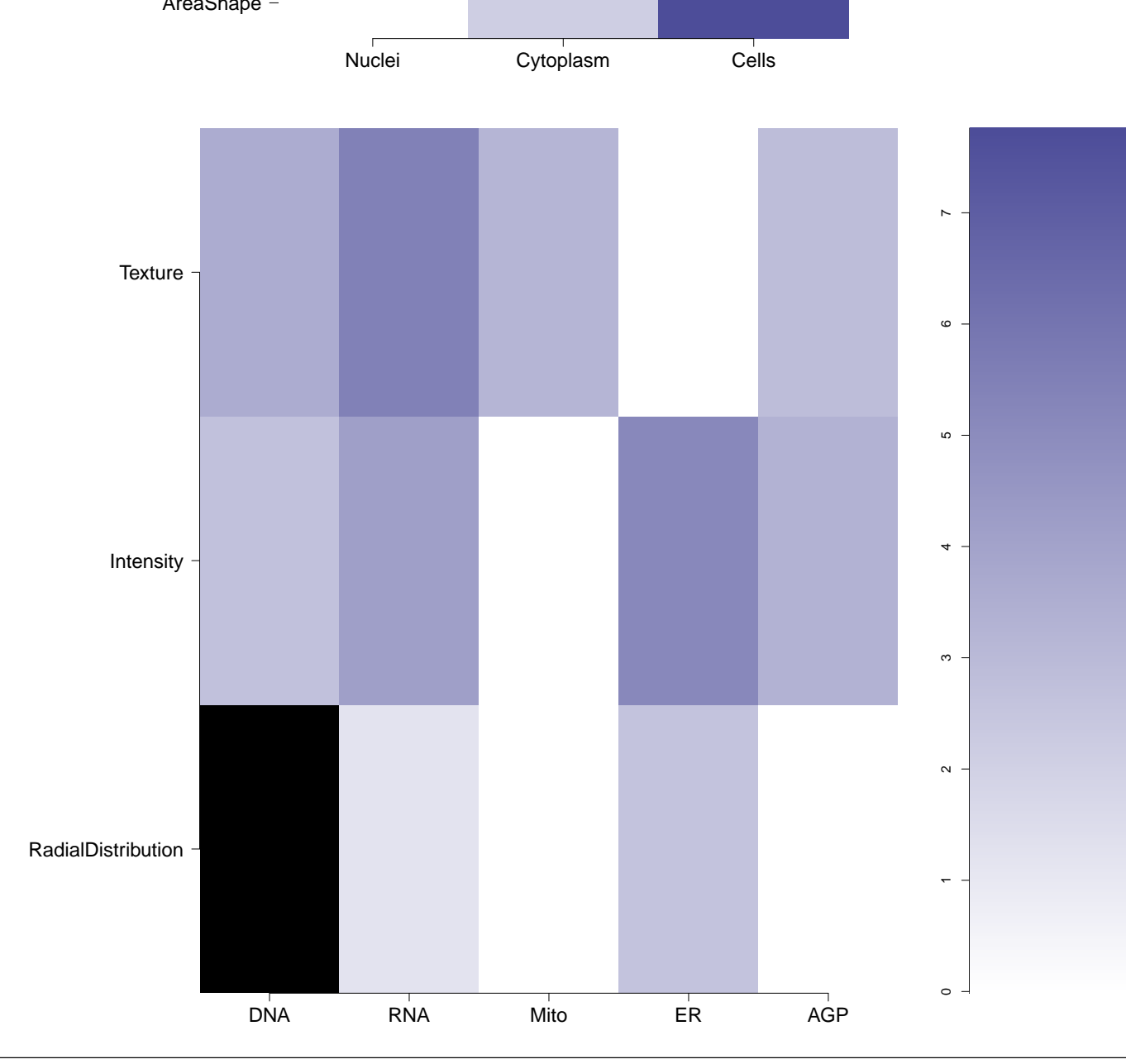
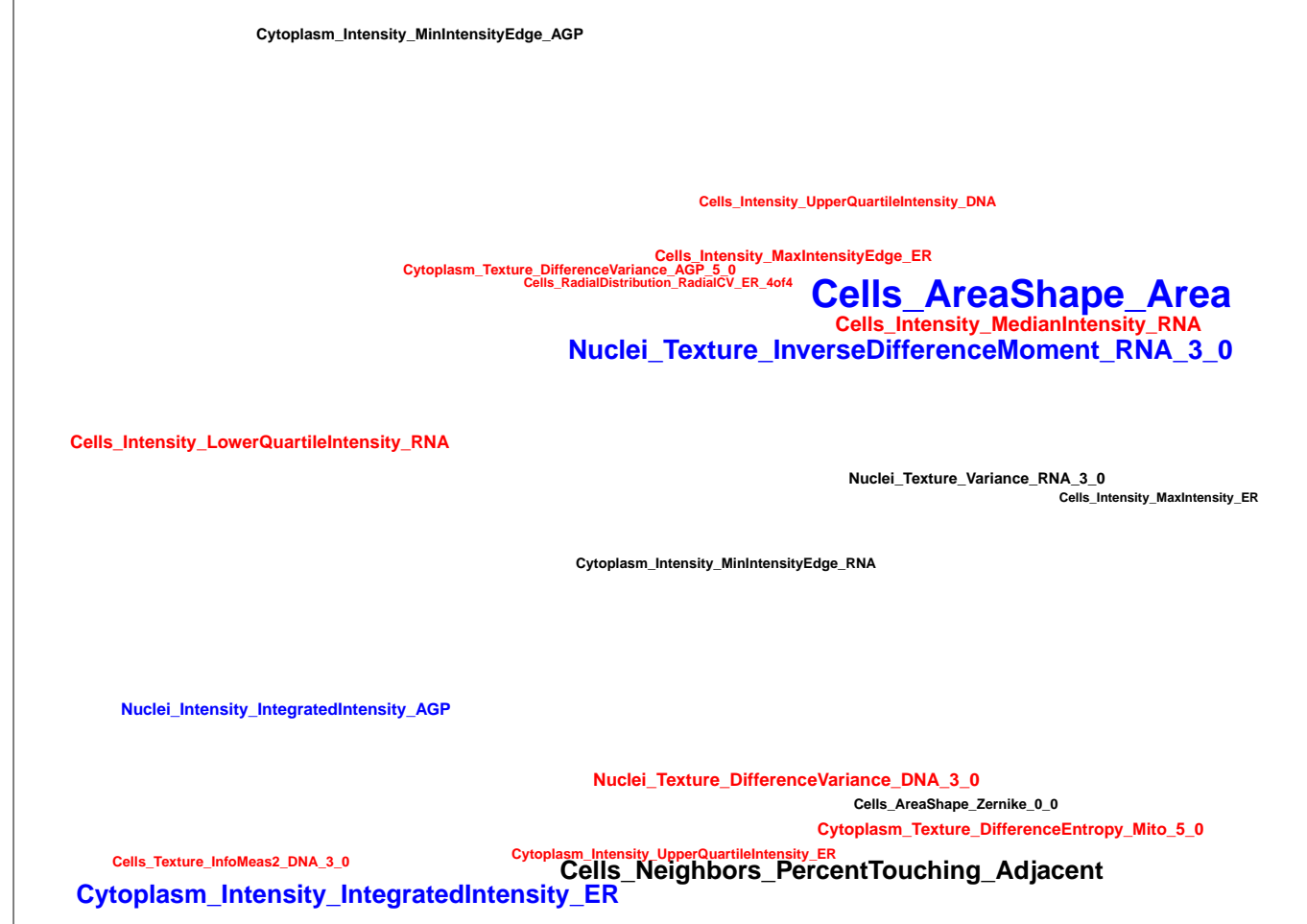
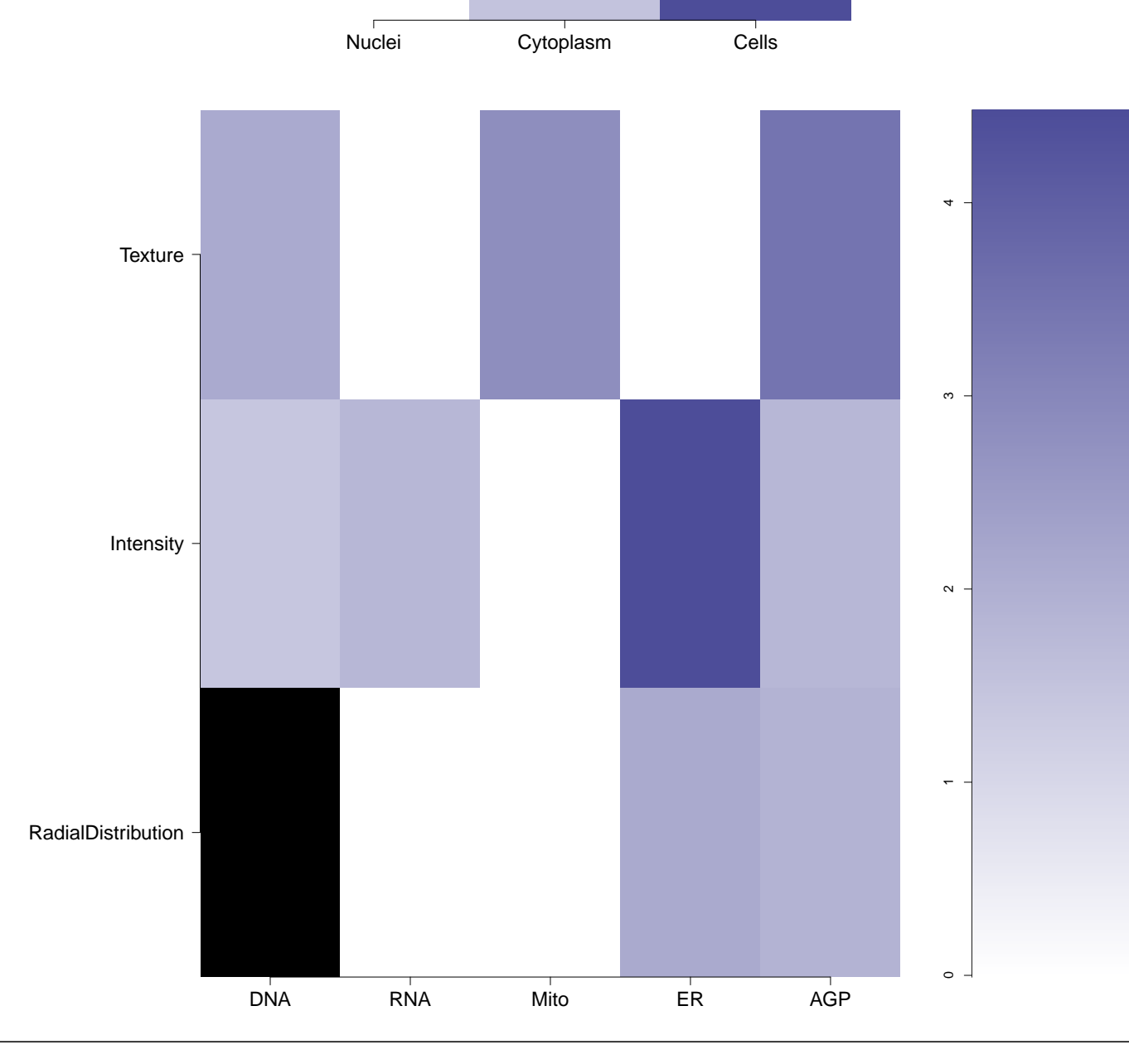
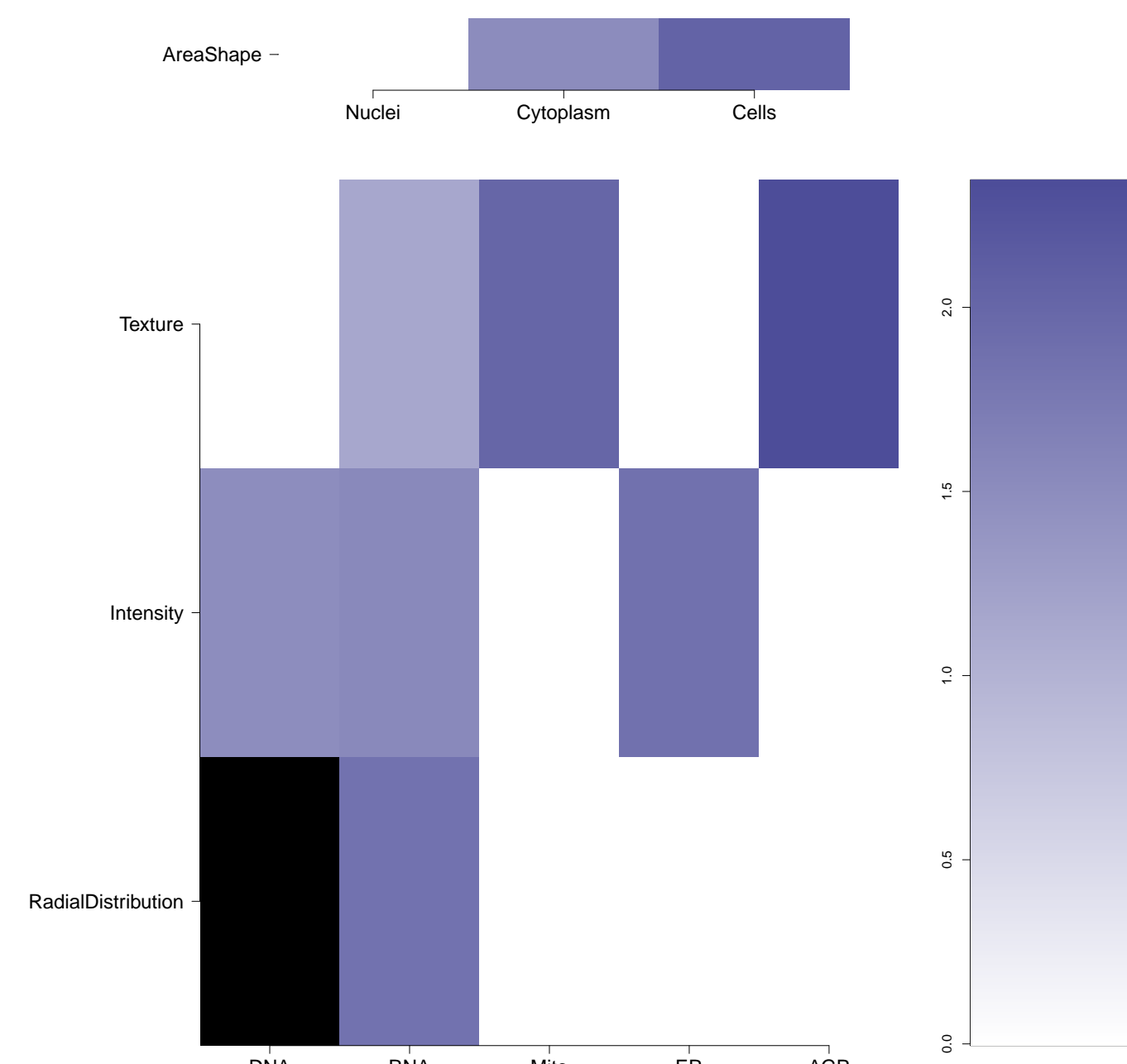
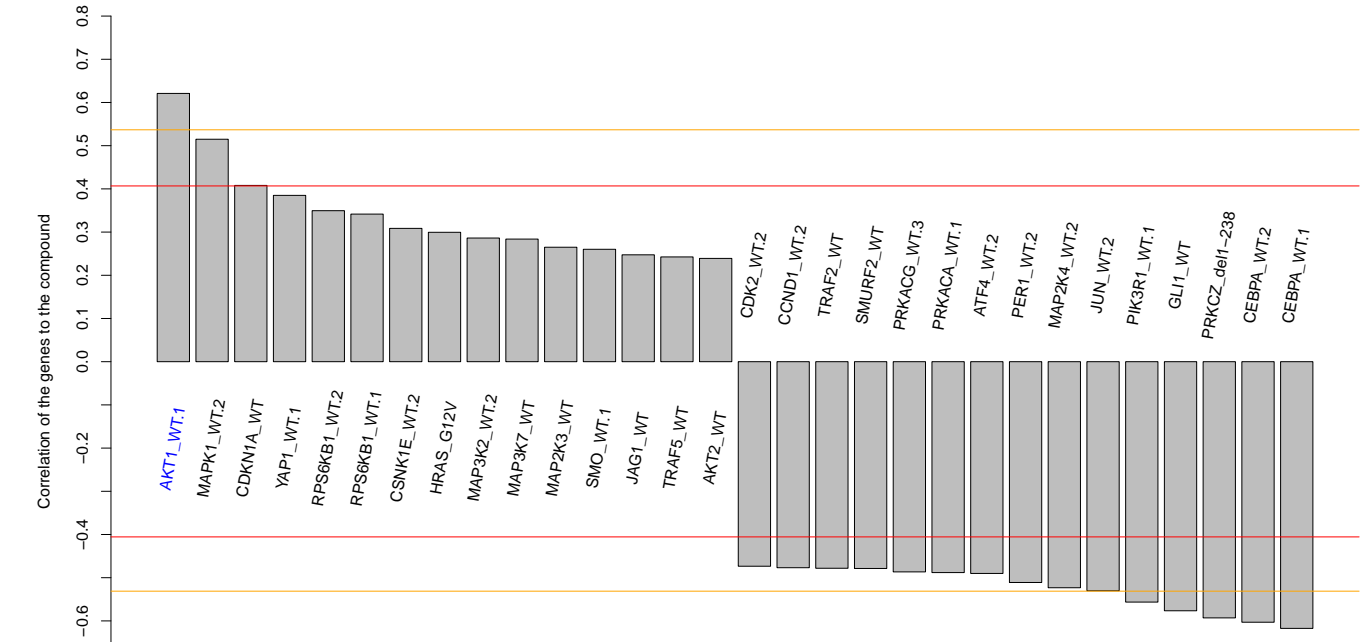

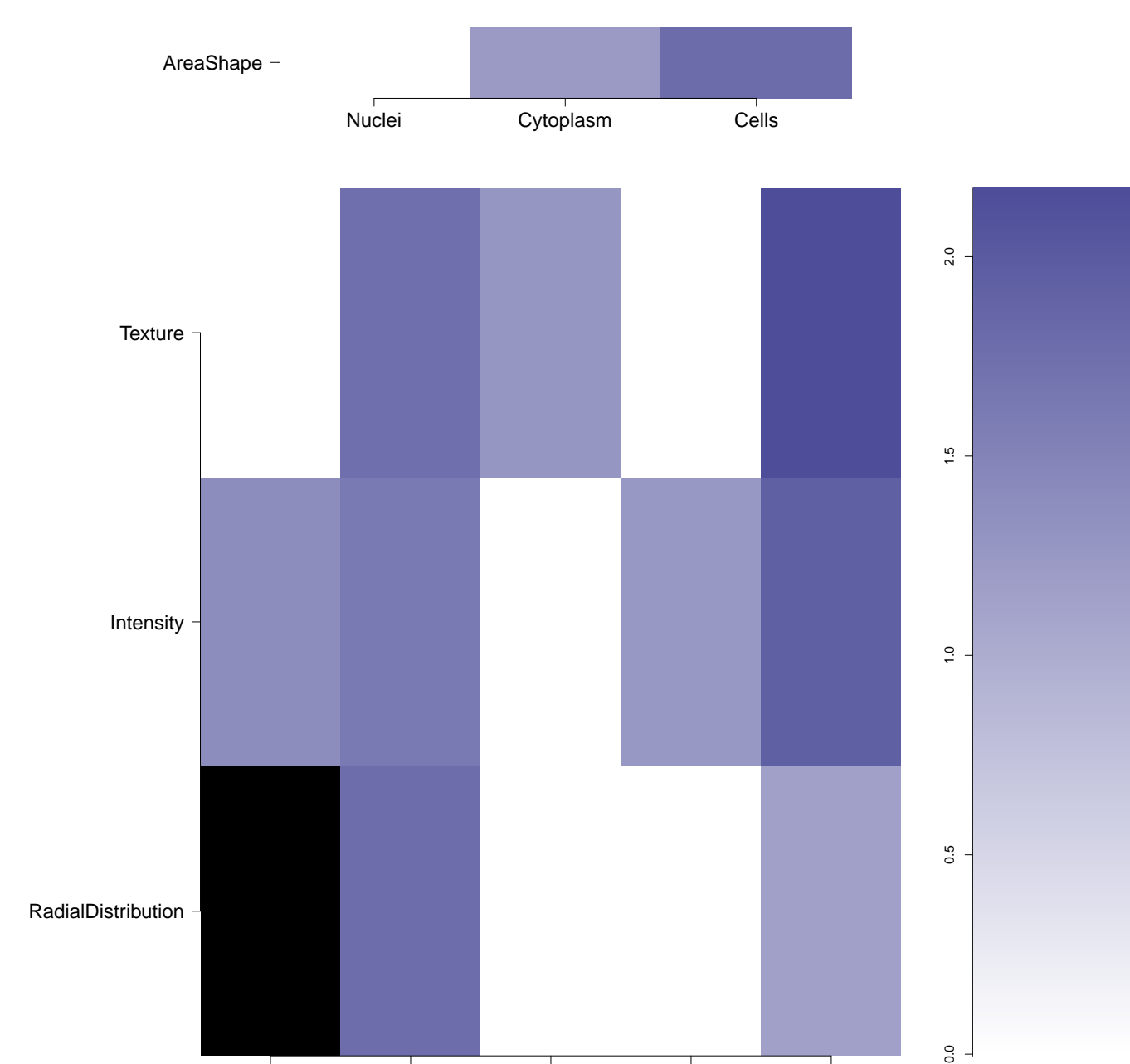
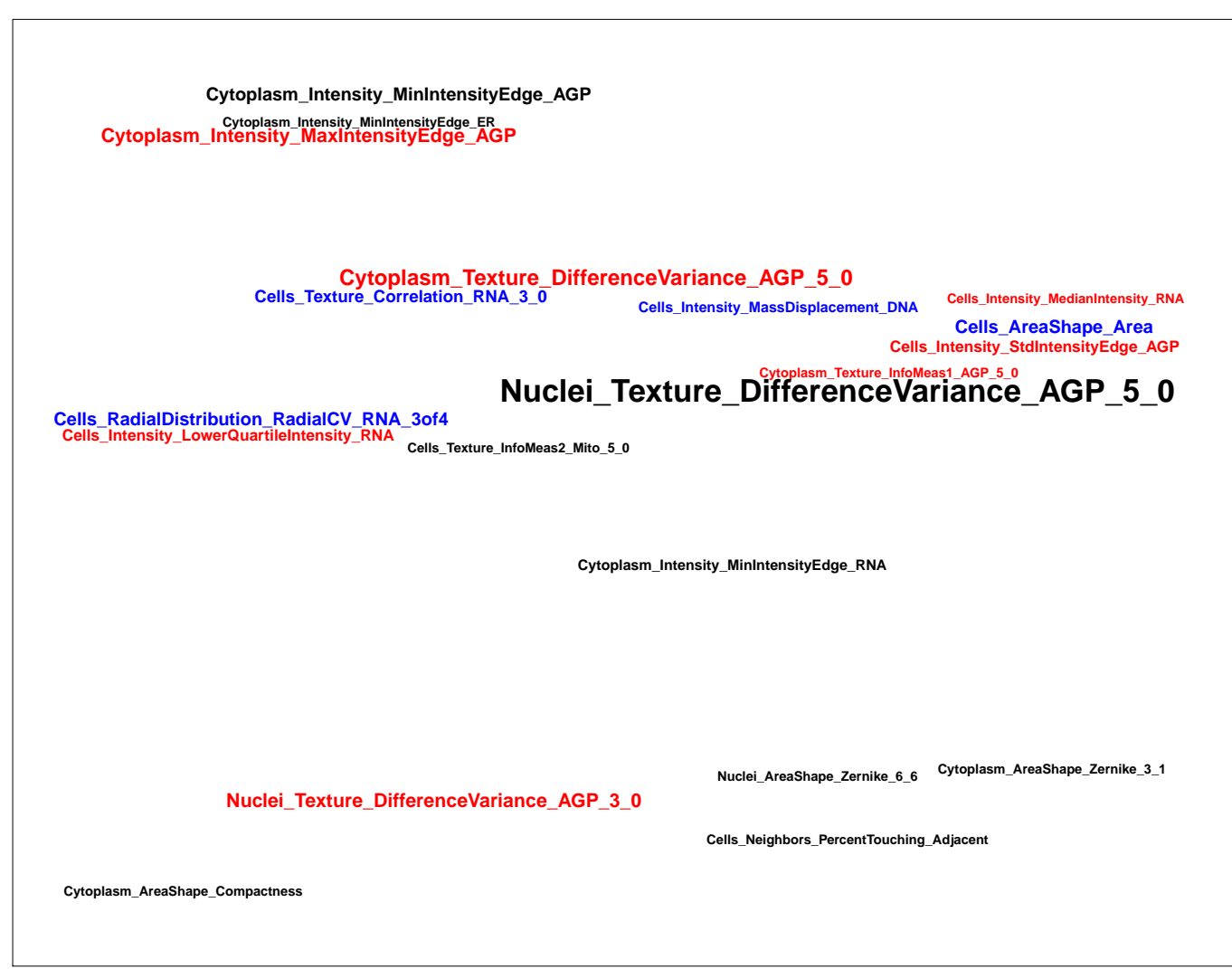
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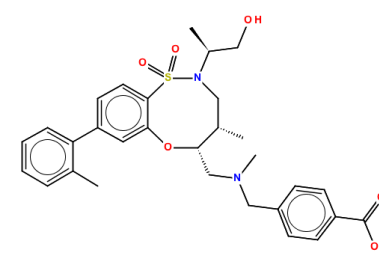
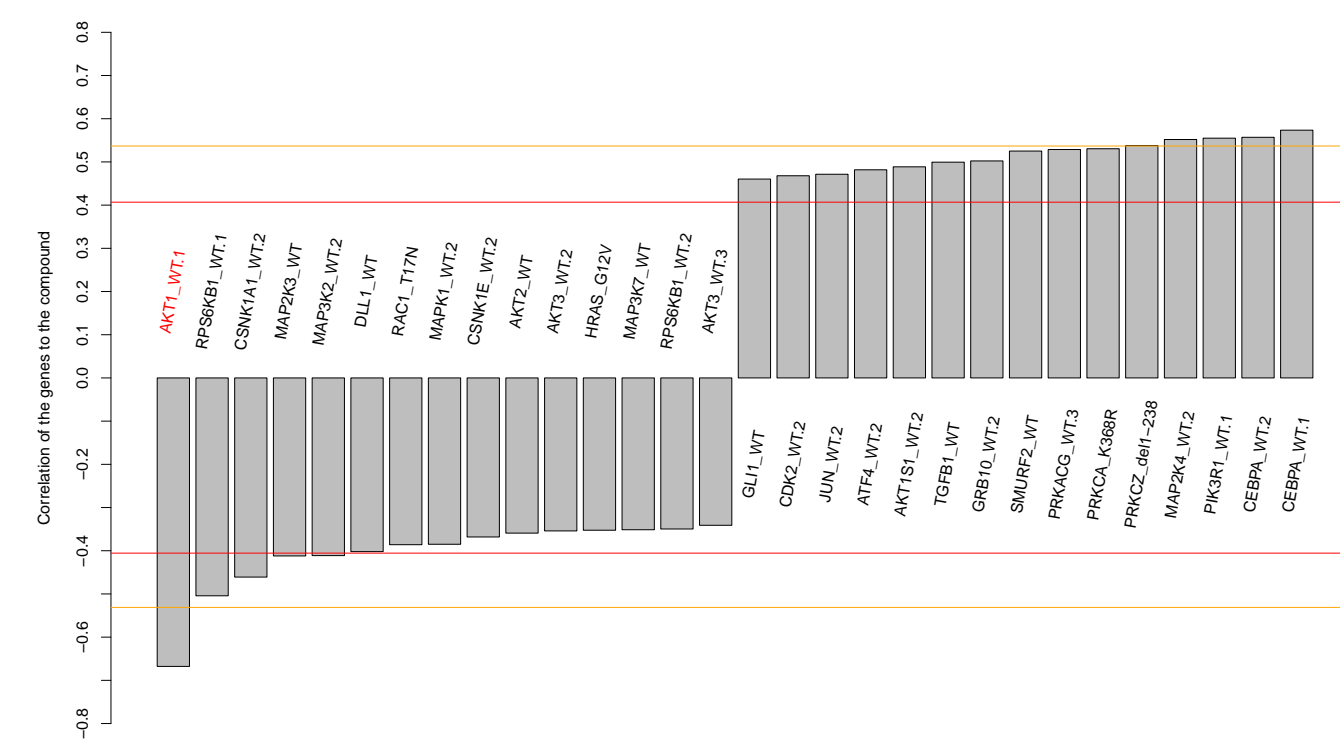
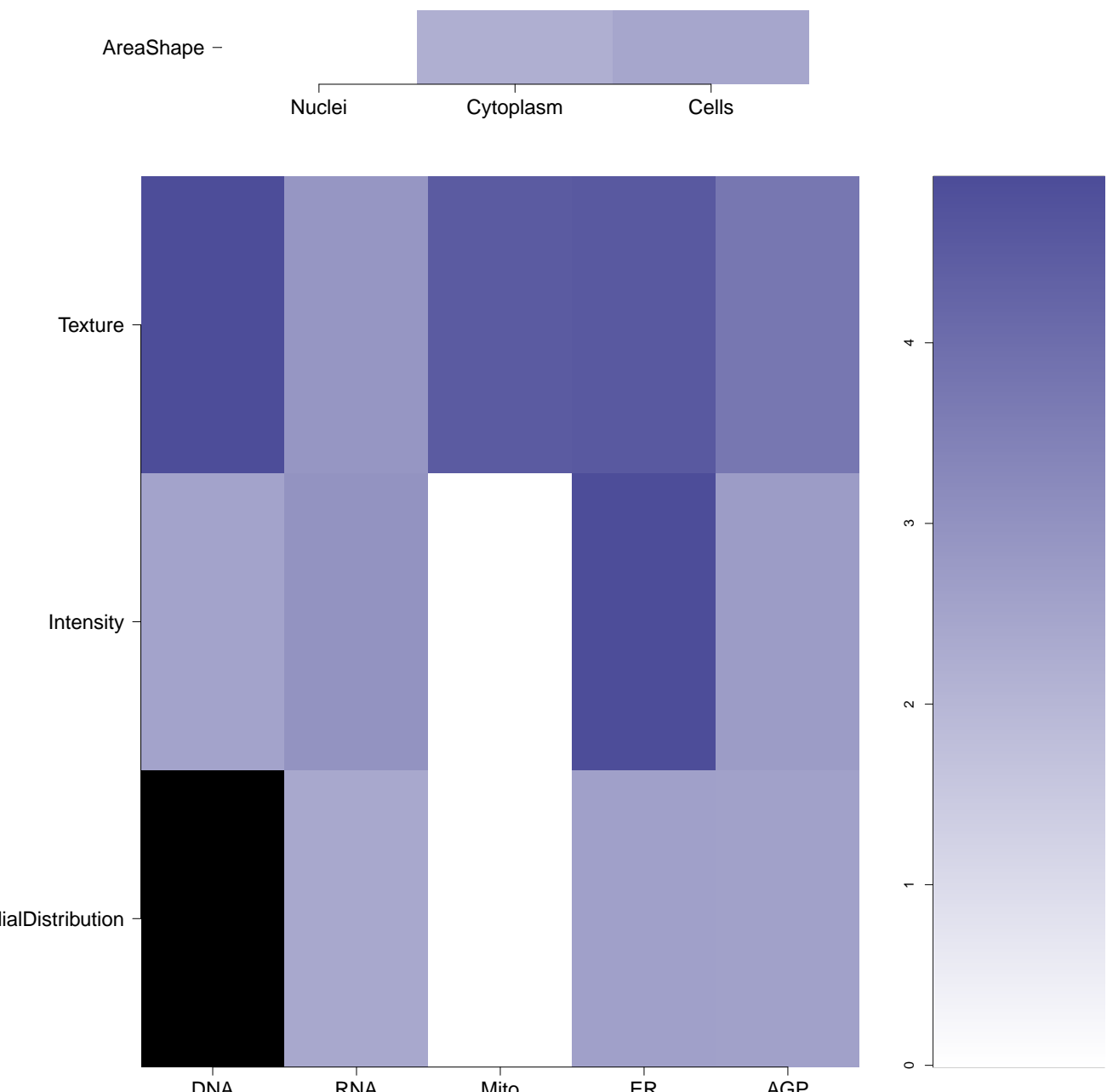

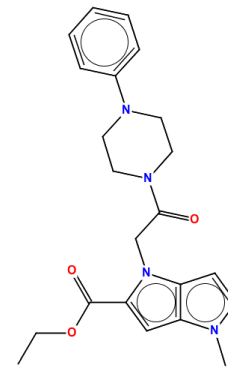
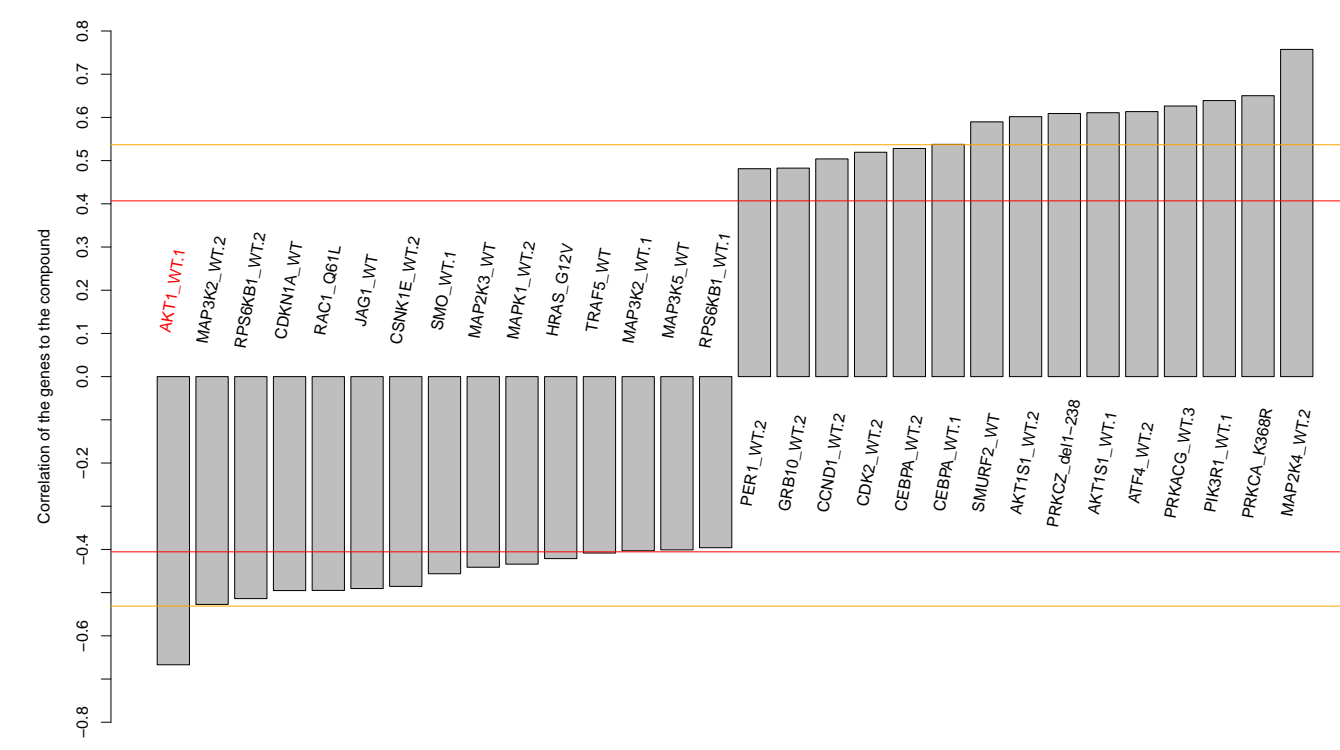
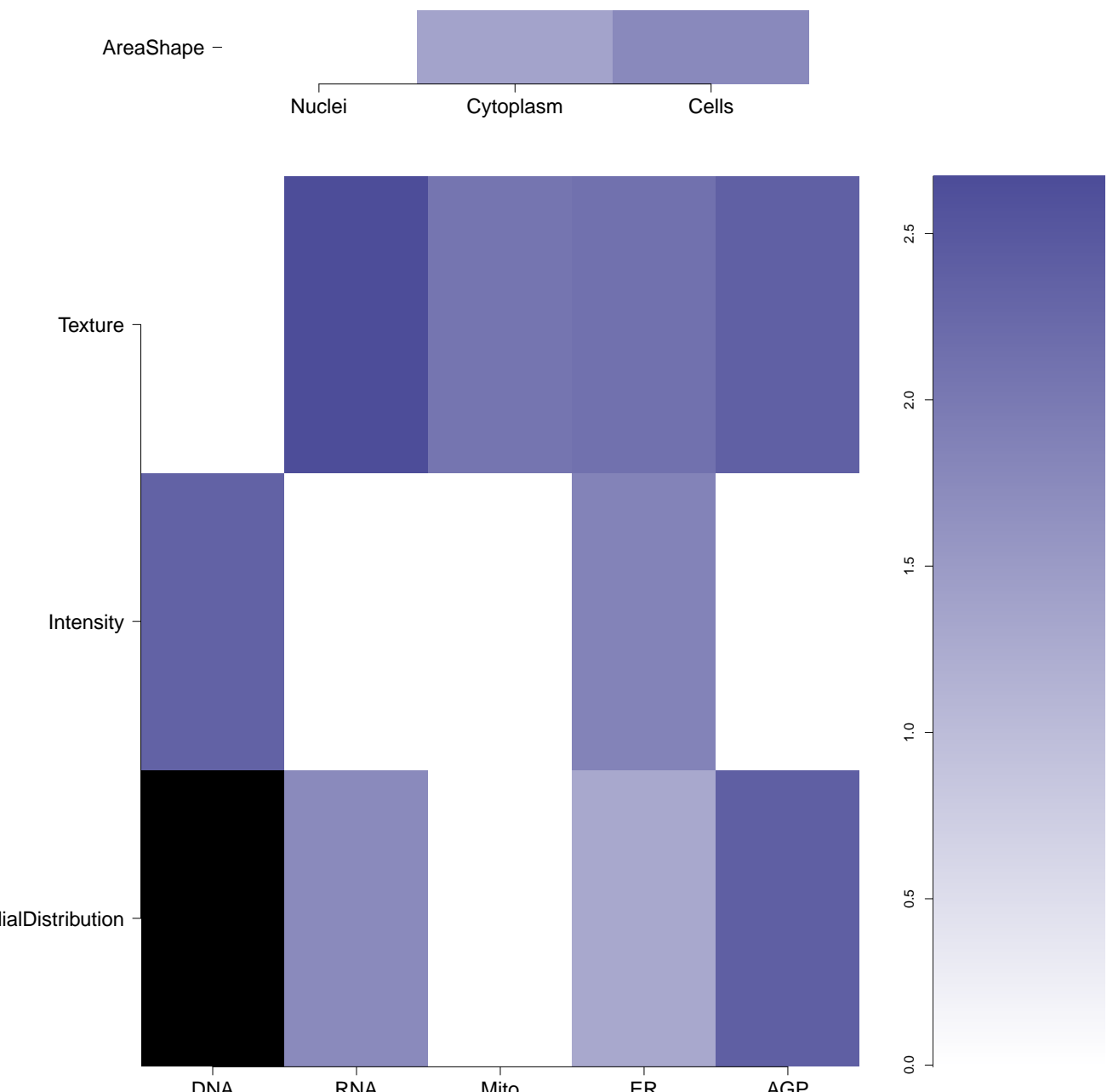

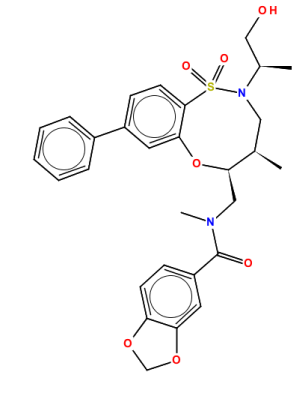
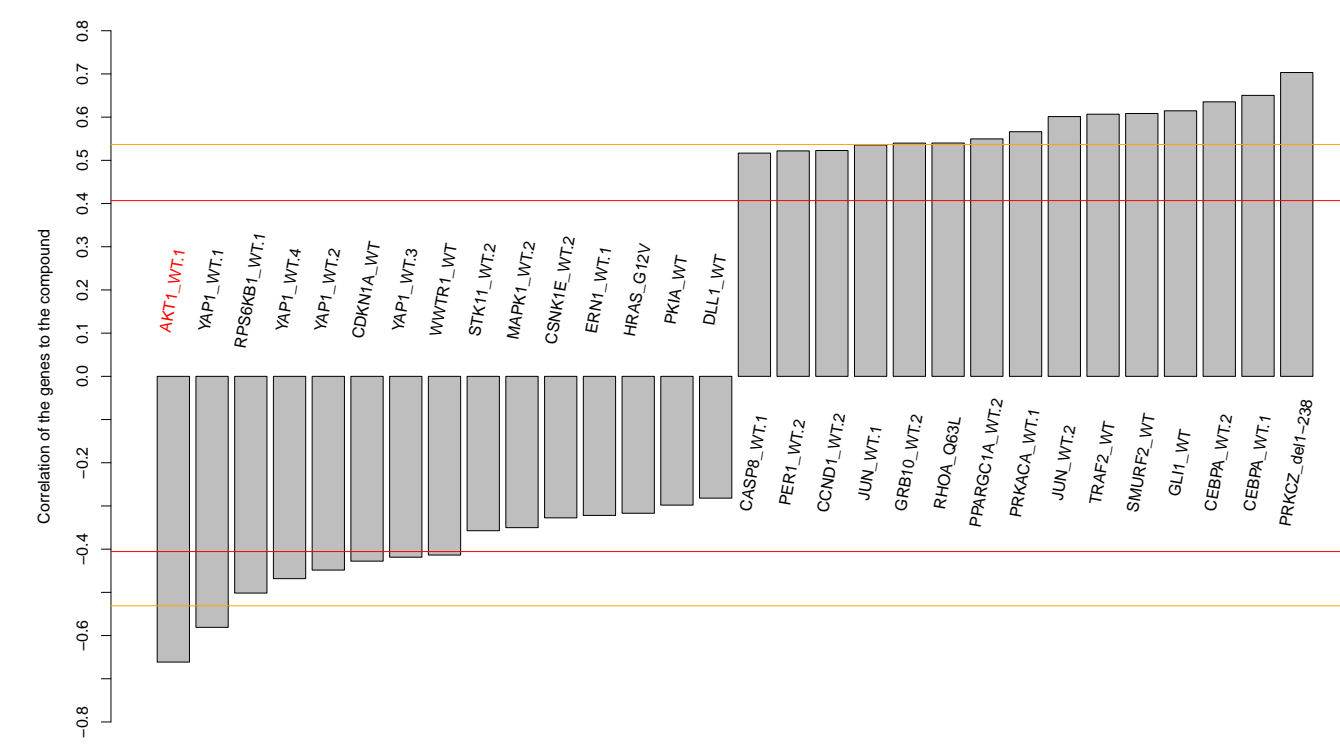
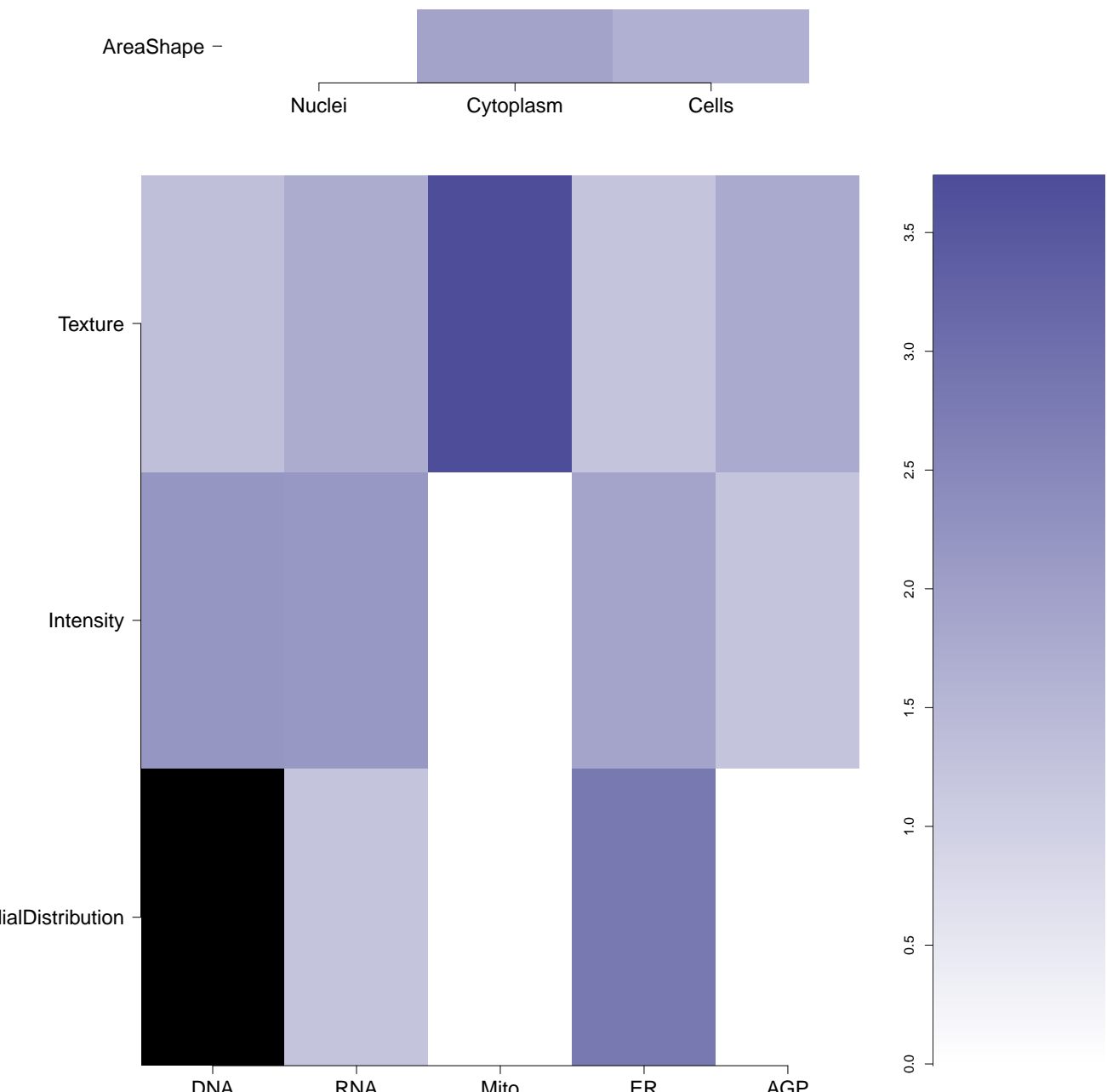
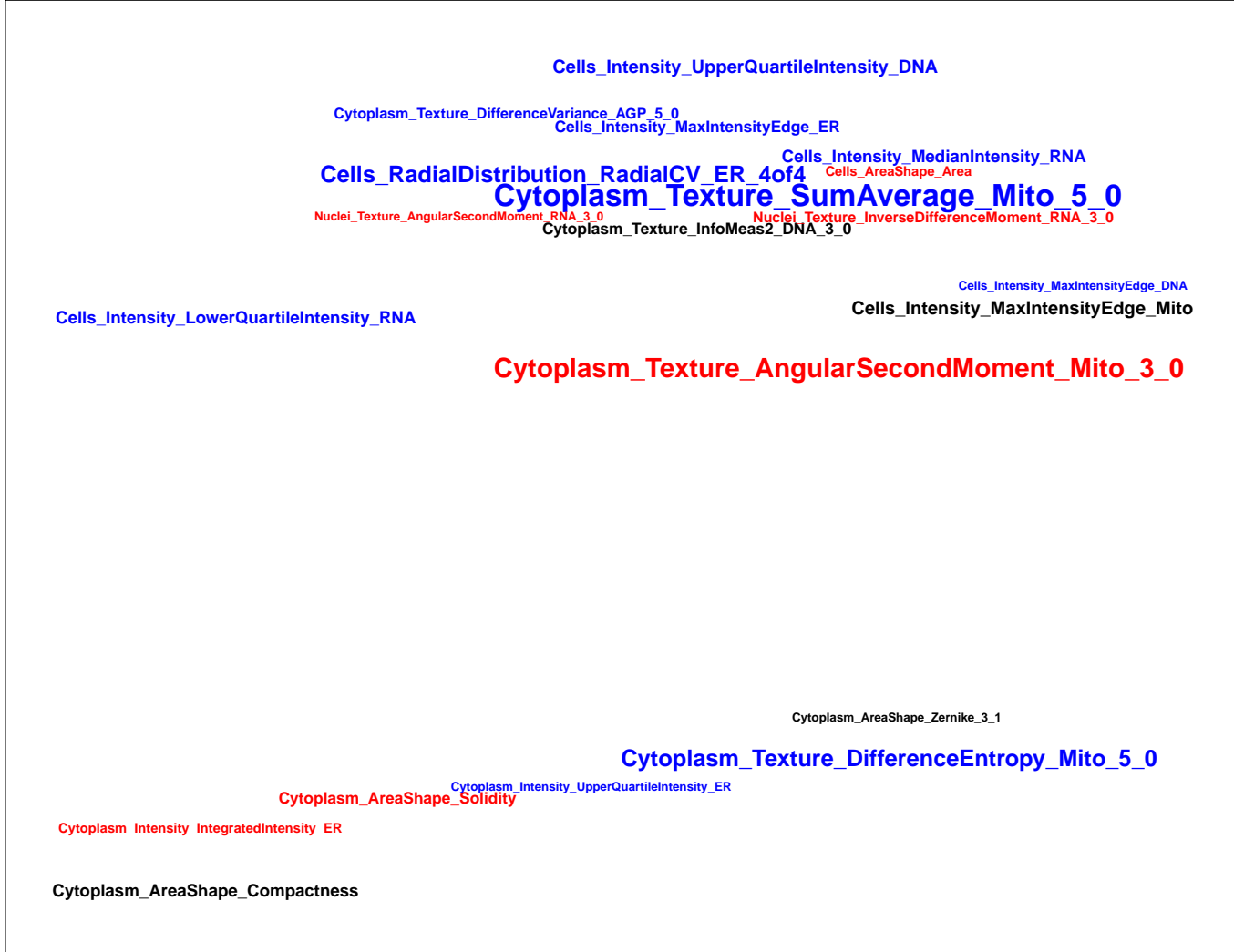
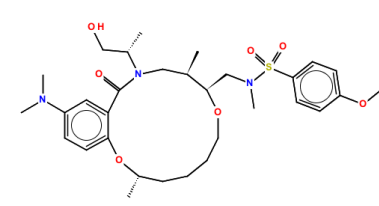
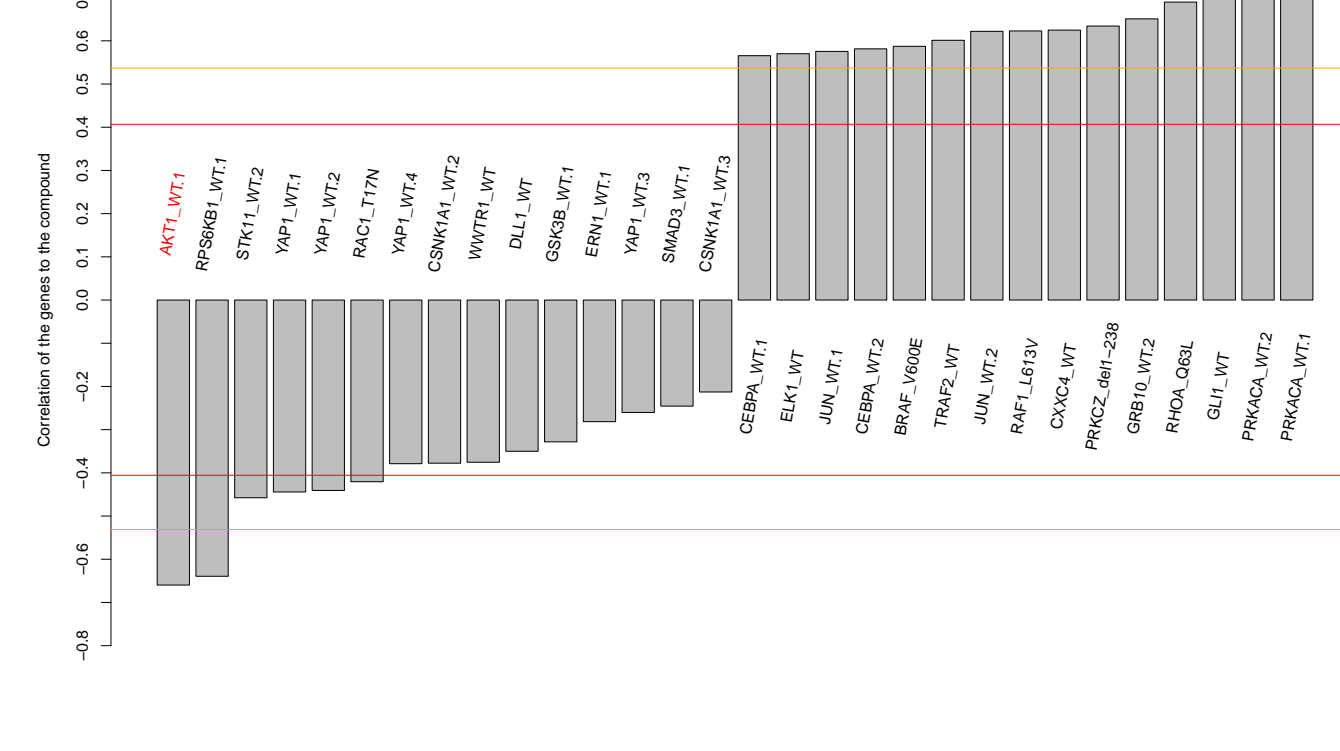
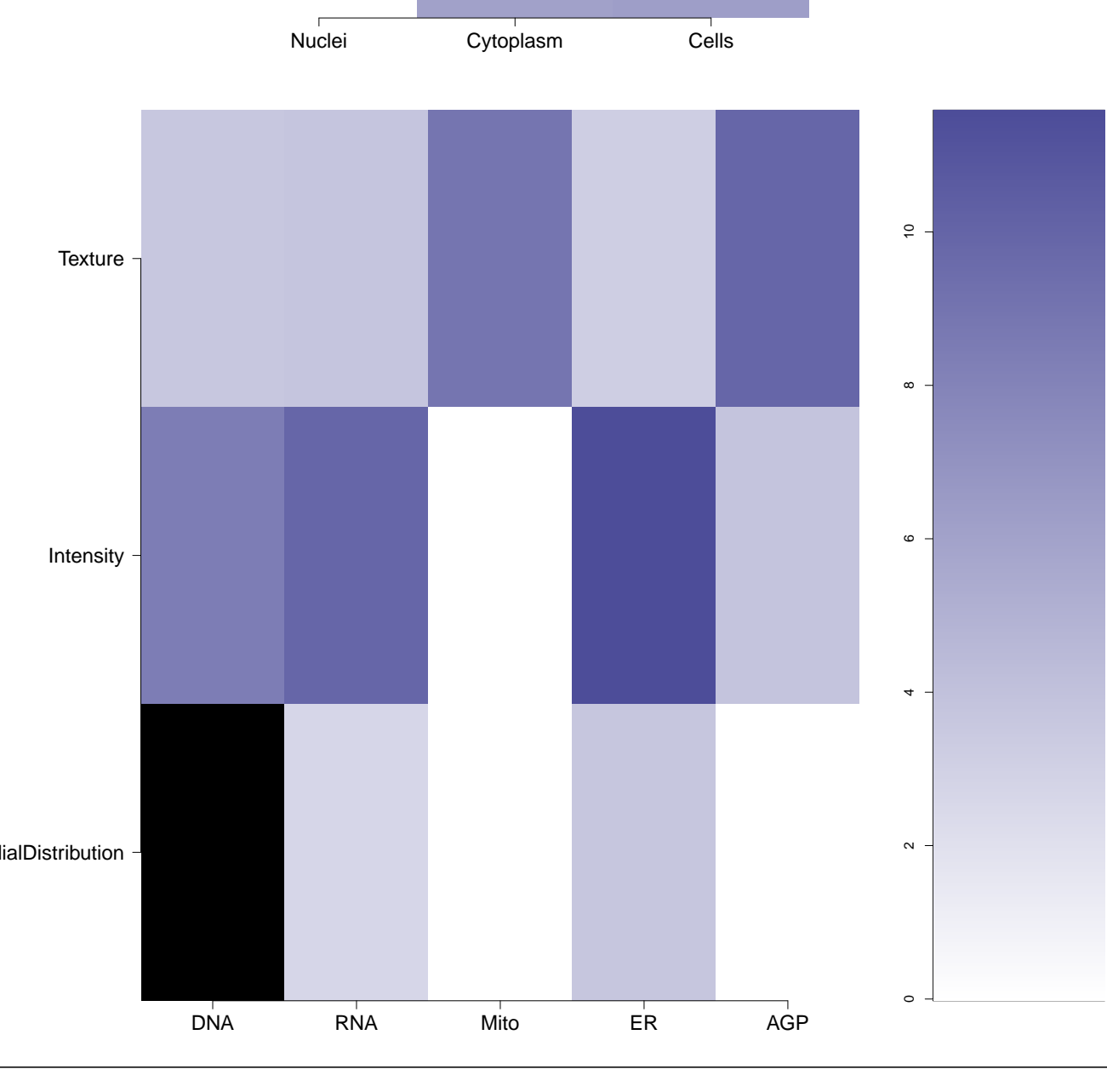

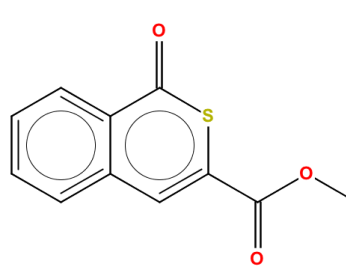
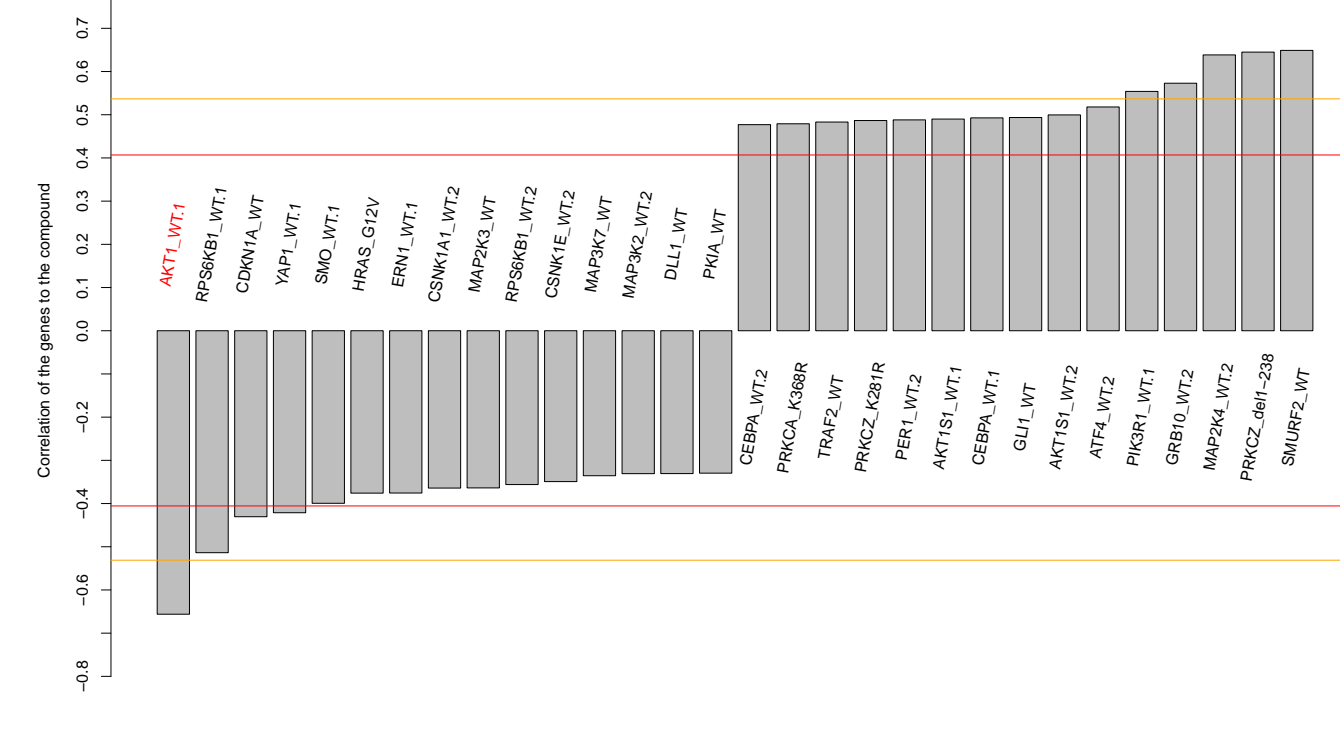
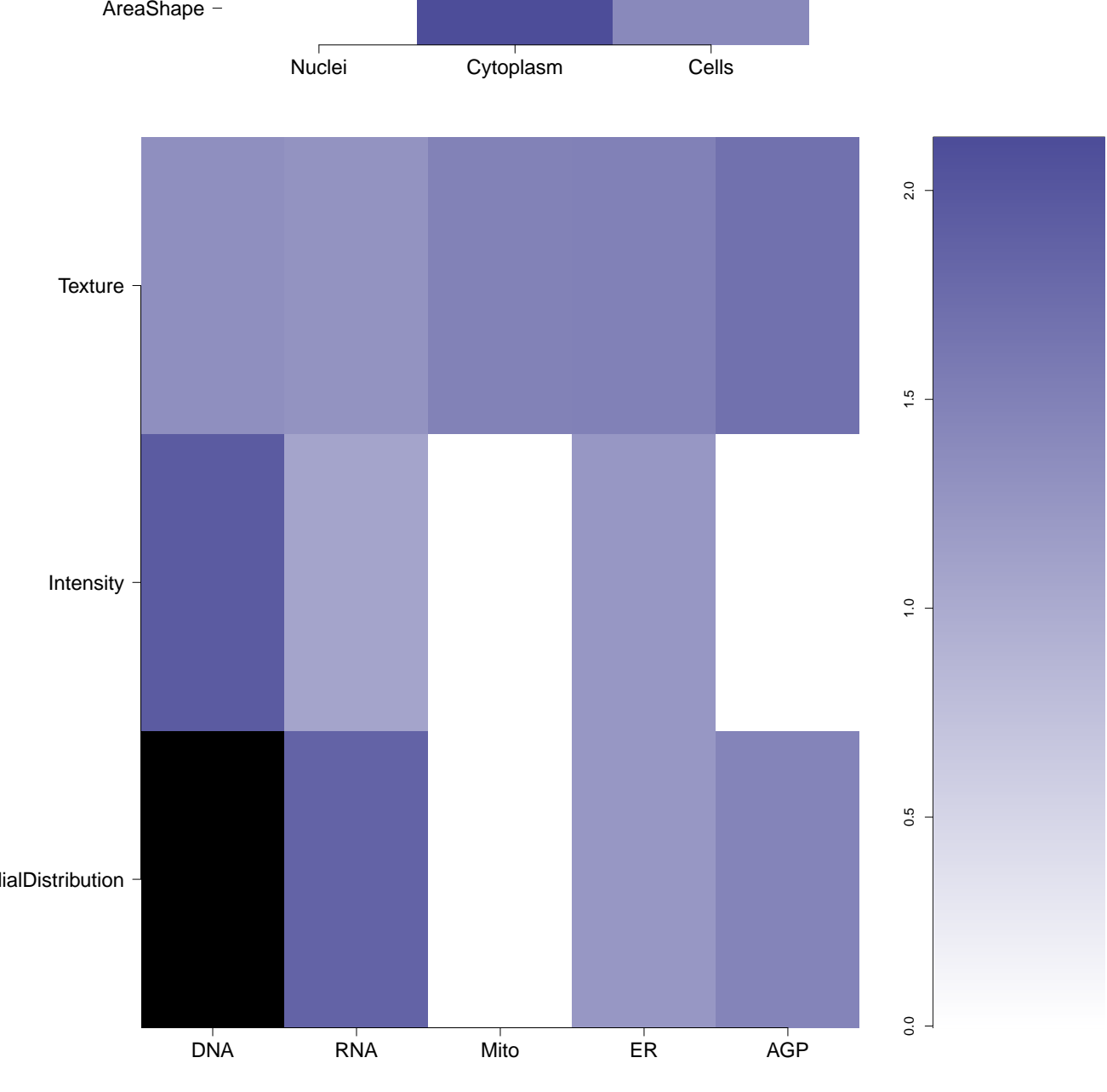
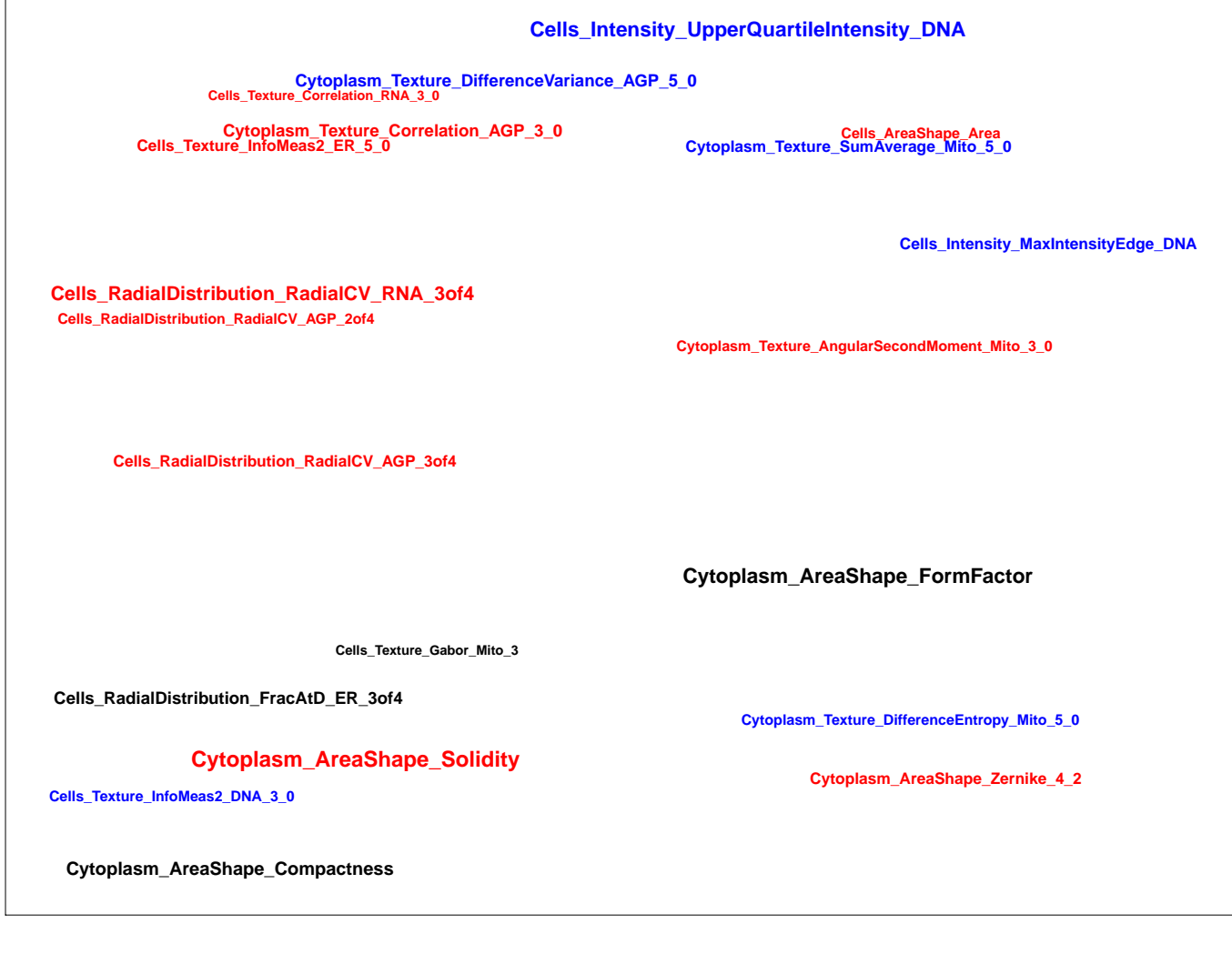
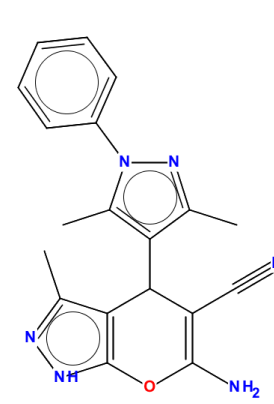
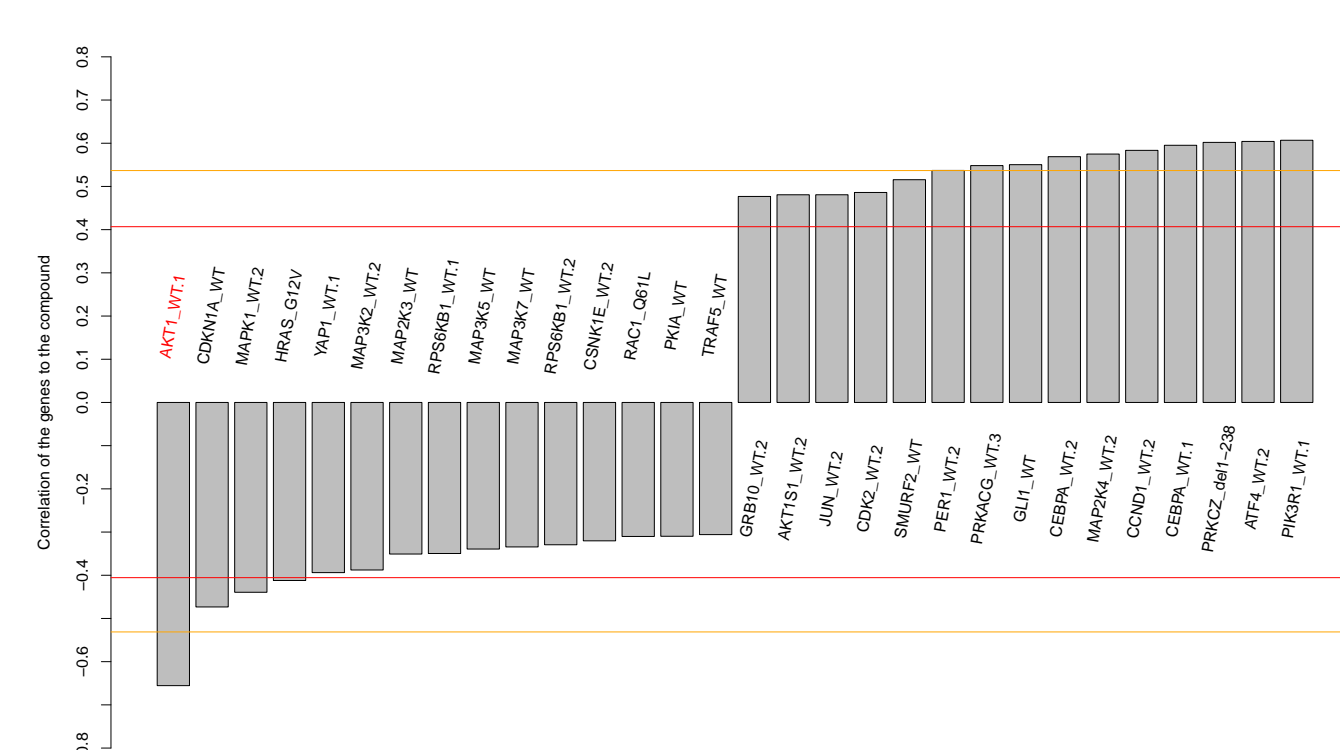
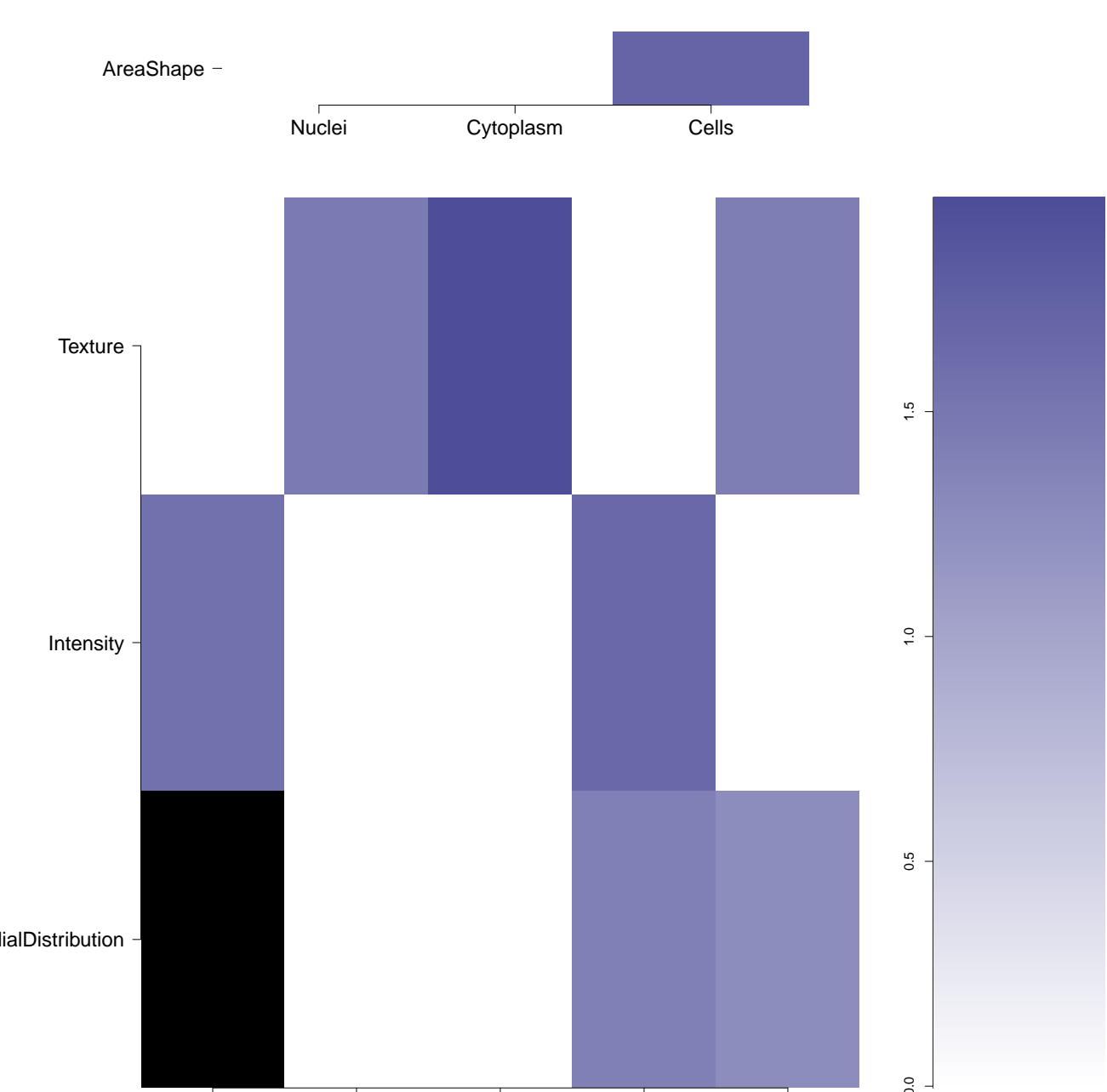

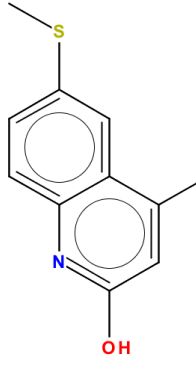
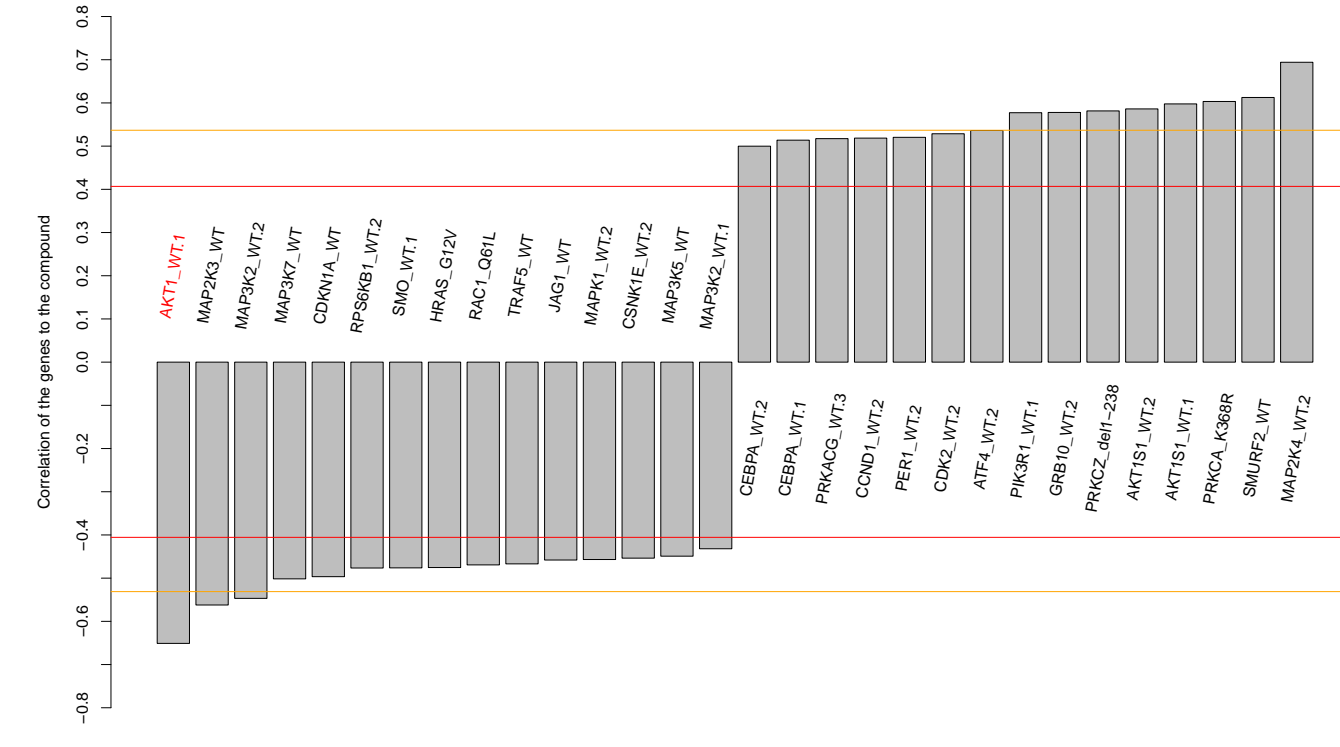
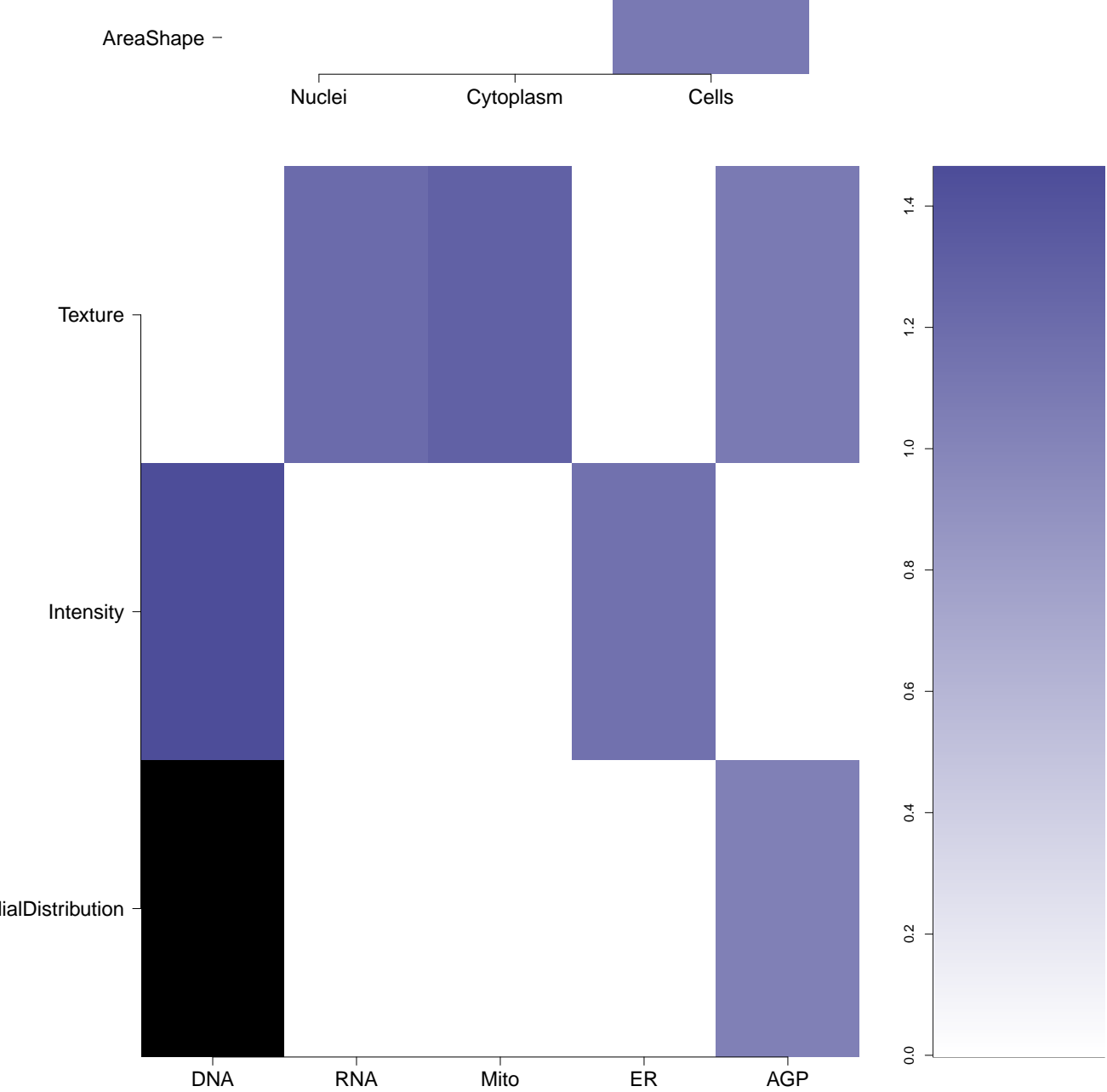



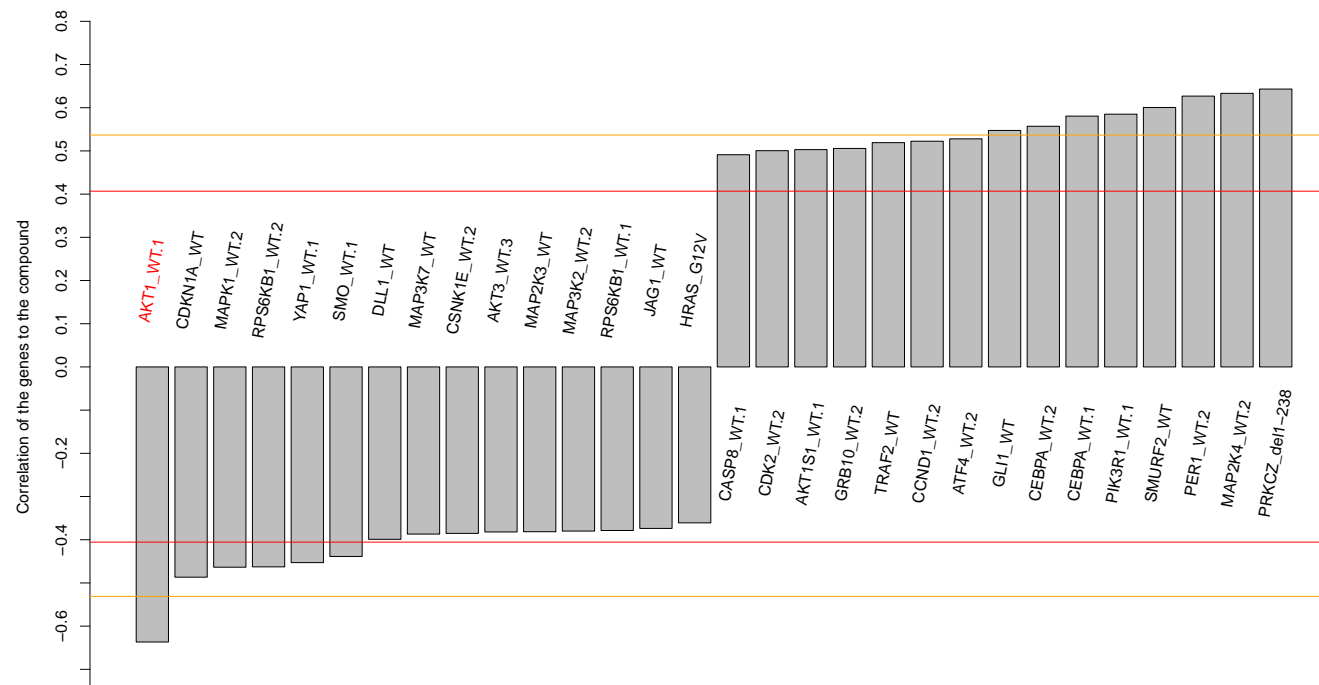
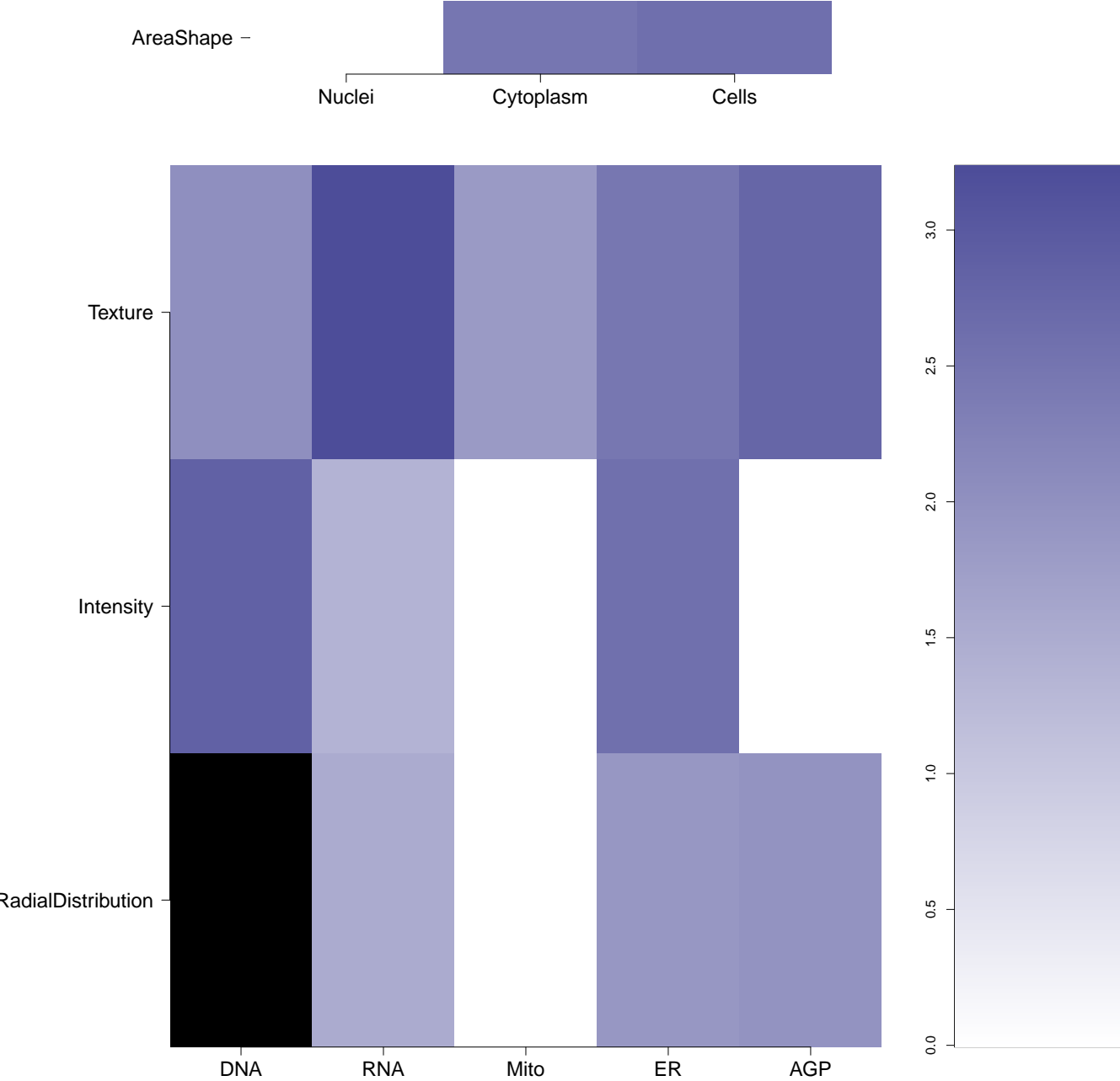

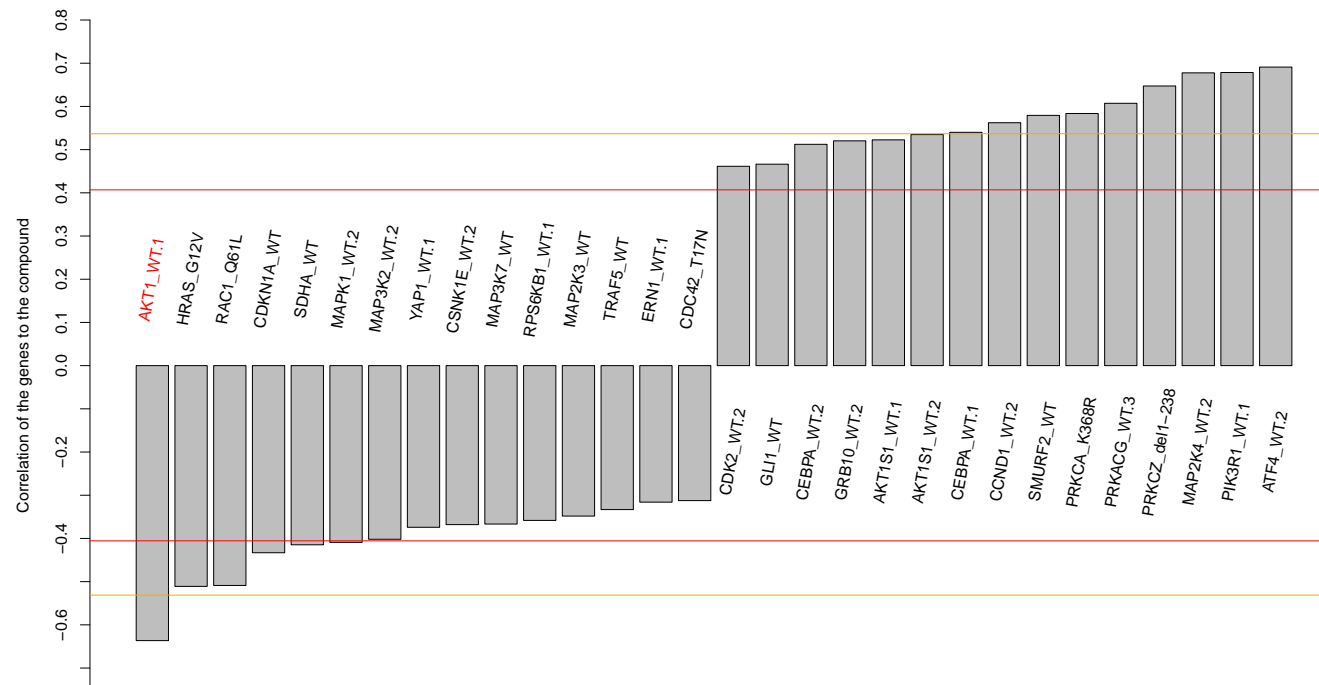
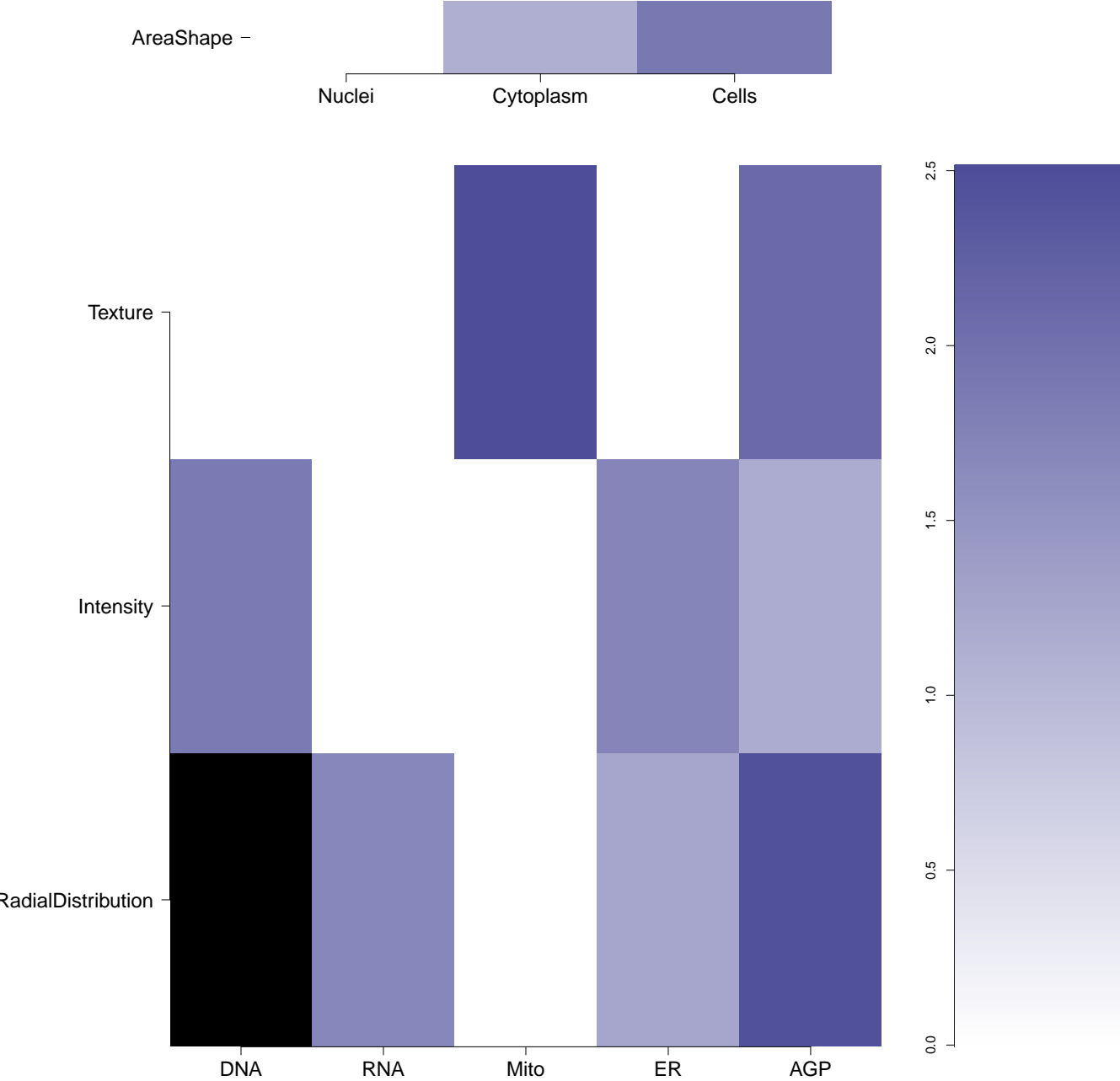
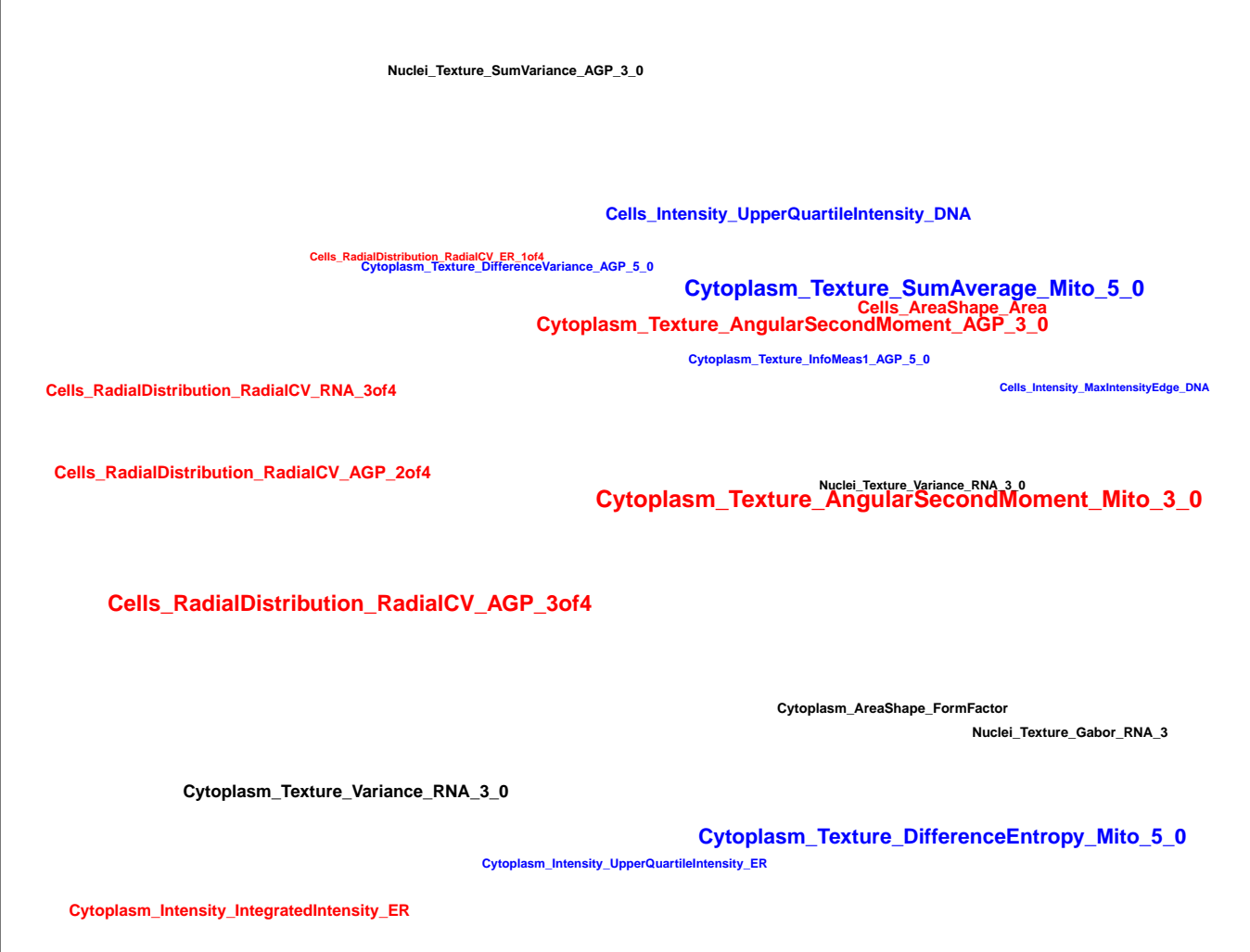
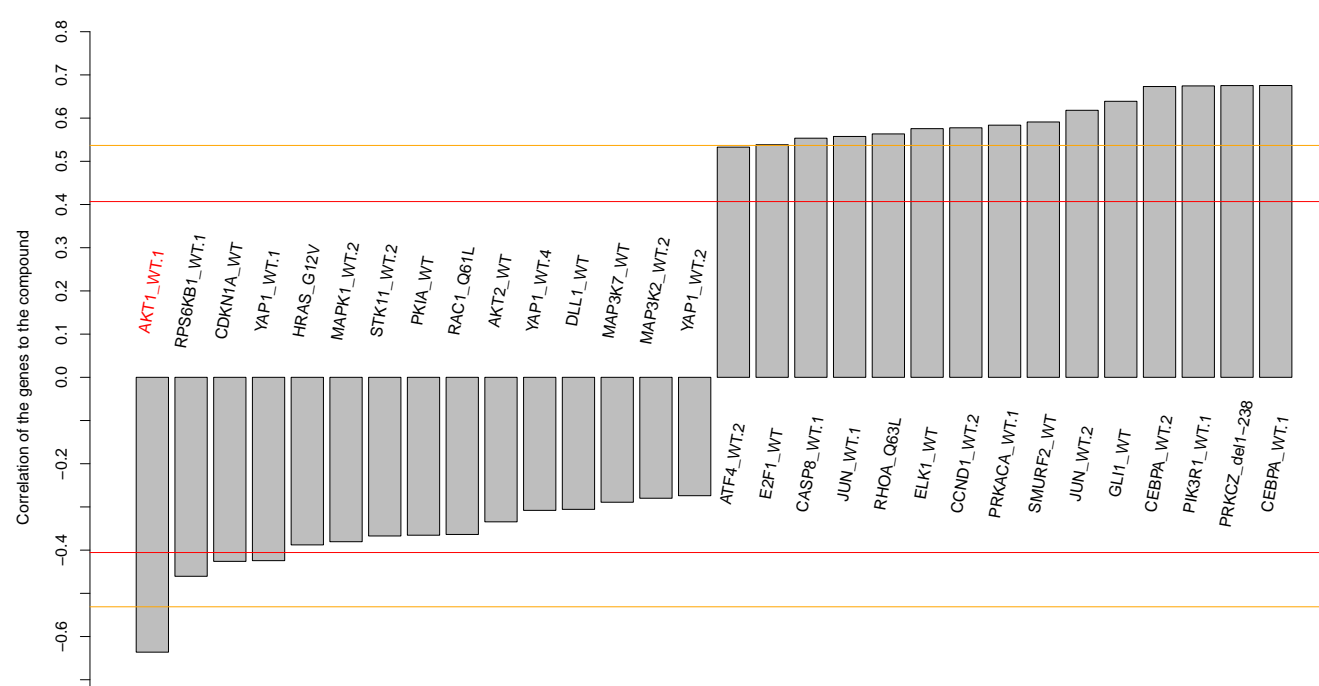
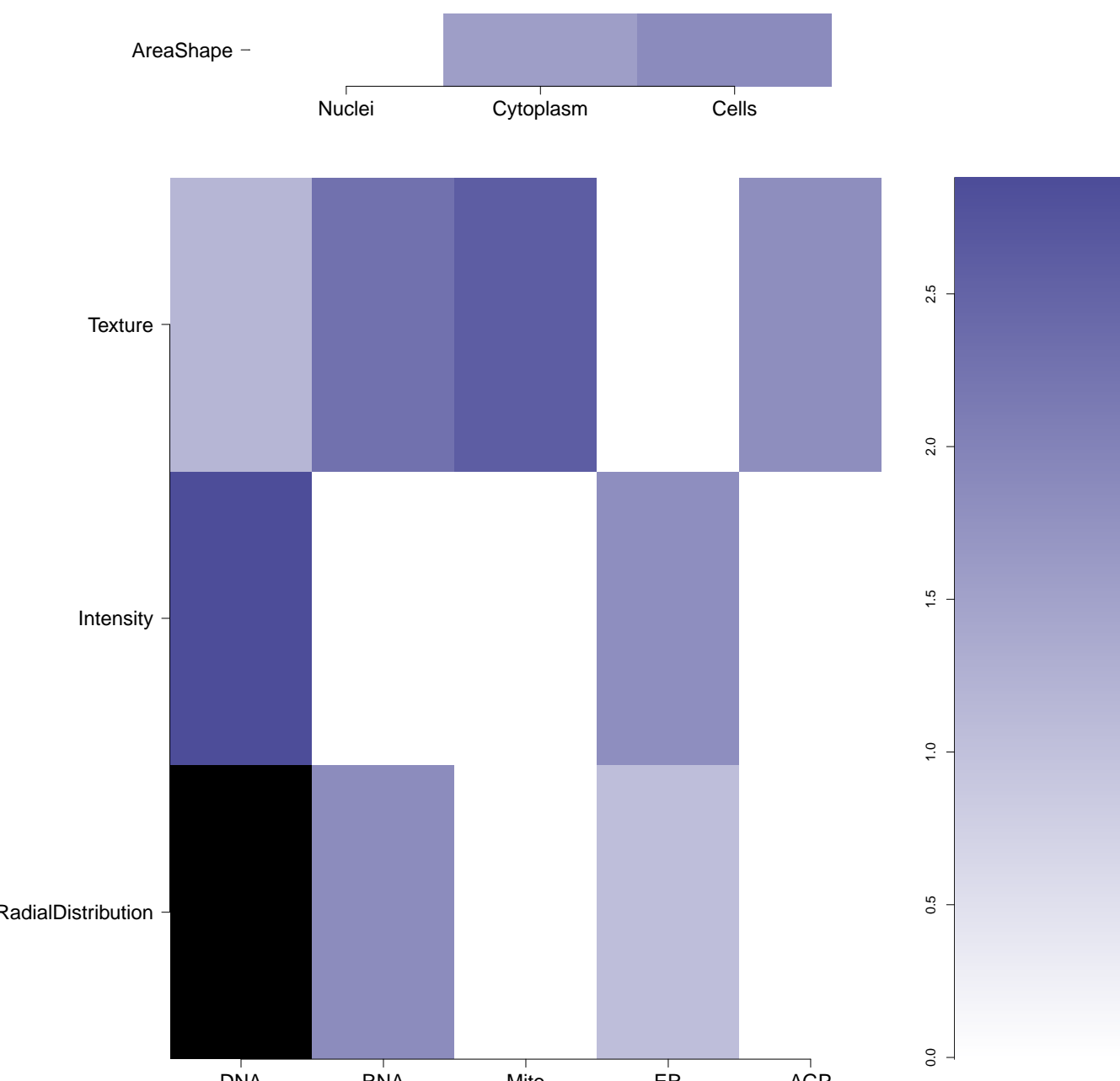
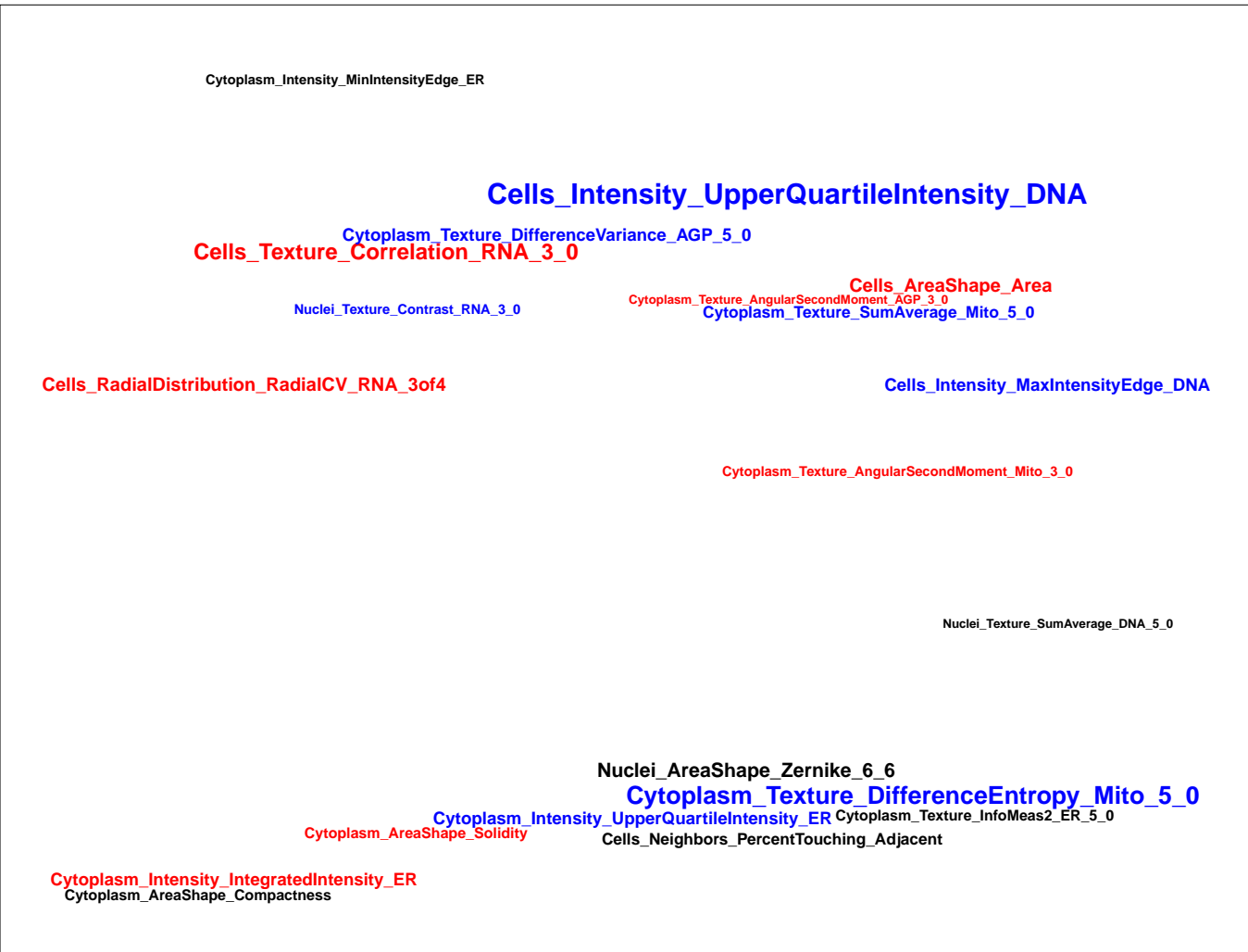
AGP



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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<p>BRD-A24067393-001-06-0</p> <p>MLS000519150</p> <p>AC1N4YYT</p> <p>HMS1481J14</p> <p>HMS2485I18</p> <p>SMR000129569</p> <p>EU-0077783</p> <p>PubChem CID : 4136788</p>		<p>0.77 (in 3 replicates)</p>	<p>0.64</p>	<p>NA</p>				<p>Total number of assays tested in: 681. Active in the following assays:</p> <ul style="list-style-type: none"> • CYP2C19 Assay (AID 778) • qHTS for Inhibitors of Tau Fibril Formation, Thioflavin T Binding (AID 1460) • nHTS absorbance assay for the identification of compounds that inhibit PHOSPHO1 (AID 1565) • nHTS identification of small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 463190) • nHTS identification of small molecule inhibitors of tim23-1 yeast via a luminescent assay (AID 463212) • Single concentration confirmation of small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 463213) • Single concentration confirmation of small molecule inhibitors of tim23-1 yeast via a luminescent assay (AID 463218) • Primary biochemical fluorescence polarization-based high throughput screening assay to identify inhibitors of protein arginine methyltransferase 1 (PRMT1) (AID 632257) • TRFRET-based biochemical primary high throughput screening assay to identify inhibitors of HIV-1 LEDGF/p75 DNA Integration (AID 743269) • qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279)
<p>BRD-K82852127-001-05-7</p> <p>SMR000176073</p> <p>AC1LG02I</p> <p>MLS000552877</p> <p>HMS2379P11</p> <p>ZINC284181</p> <p>STK869885</p> <p>ZINC00284181</p> <p>BAS 00796096</p> <p>PubChem CID : 786620</p>		<p>0.79 (in 4 replicates)</p>	<p>0.64</p>	<p>NA</p>				<p>Total number of assays tested in: 648. Active in the following assays:</p> <ul style="list-style-type: none"> • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)
<p>BRD-K58585880-001-01-9</p> <p>PubChem CID : 44492034</p>		<p>0.86 (in 3 replicates)</p>	<p>0.63</p>	<p>0.769</p>				<p>Total number of assays tested in: 52.</p>
<p>BRD-A79317887-001-05-8</p> <p>ASN 07088465</p> <p>SMR000065273</p> <p>T5420128</p> <p>AC1MHD0V</p> <p>MLS000057867</p> <p>MLS002632825</p> <p>HMS2474B20</p> <p>PubChem CID : 3000183</p>		<p>0.68 (in 4 replicates)</p>	<p>0.62</p>	<p>NA</p>				<p>Total number of assays tested in: 813. Active in the following assays:</p> <ul style="list-style-type: none"> • Primary HTS assay to assess cytotoxicity for IL-1B stimulated NFkB expression. (AID 845) • Novel Modifiers of Toll-like and RIG-like Receptor Signaling-Poly IC Stimulus (AID 602277) • Fluorescence-based biochemical high throughput screening primary assay to identify inhibitors of Cytosine-Congo Hemorrhagic Fever (CCHF) viral ovarian tumor domain protease (vOTU): Pep-AMC substrate (AID 651958) • QFRET-based biochemical high throughput primary assay to identify inhibitors of human group III secreted phospholipase A2 enzyme (HGIII-sPLA2) (AID 743126)
<p>BRD-K03496708-001-01-5</p> <p>PubChem CID : 54645817</p>		<p>0.55 (in 2 replicates)</p>	<p>0.62</p>	<p>0.635</p>				<p>Total number of assays tested in: 40.</p>
<p>BRD-K67716105-001-01-8</p> <p>PubChem CID : 54638093</p>		<p>0.61 (in 3 replicates)</p>	<p>0.62</p>	<p>0.169</p>				<p>Total number of assays tested in: 36.</p>
<p>BRD-K93742092-001-05-8</p> <p>MLS000559233</p> <p>STK201638</p> <p>SMR000177950</p> <p>BAS 03293881</p> <p>AC1MK000</p> <p>BDBM56552</p> <p>HMS2548H24</p> <p>ZINC4739852</p> <p>ZINC04739852</p> <p>PubChem CID : 3146297</p>		<p>NA (in 1 replicates)</p>	<p>0.61</p>	<p>NA</p>				<p>Total number of assays tested in: 602. Active in the following assays:</p> <ul style="list-style-type: none"> • Kallikrein 5 1536 HTS (AID 873) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • HTS to identify inhibitors of TNF-alpha Induced Cell Death in Jurkat FADD-/- Cells. (AID 463075) • Identify inhibitors of TNF-alpha Induced Cell Death in Jurkat FADD-/- Cells: Confirmation Assay (AID 463178) • QFRET-based biochemical primary high throughput screening assay to identify exosite inhibitors of ADAM17. (AID 720618)

BRD-K34576879-001-01-0 PubChem CID : 54618169		0.88 (in 4 replicates)	-0.67	0.365				Total number of assays tested in: 42. Active in the following assays: <ul style="list-style-type: none">MLPCN ERAP1 Measured in Biochemical System Using Plate Reader - 7016-01 Inhibitor.Dose:CherryPick.Activity (AID 743317)
BRD-K59496950-001-06-2 SMR000008290 AC1LDHEO ASN 08222509 MLS000068187 MLS002538128 HMS2502P09 ZINC1337997 ZINC01337997 PubChem CID : 648117		NA (in 1 replicates)	-0.67	NA				Total number of assays tested in: 762. Active in the following assays: <ul style="list-style-type: none">Luminescence Cell-Based Primary HTS to Identify Transcriptional Activators of Hypoxia-Inducible Factor Pathway (AID 1910)qHTS Inhibitors of AmpC Beta-Lactamase (assay with detergent) (AID 485294)
BRD-K53255530-001-01-8 PubChem CID : 54618578		0.79 (in 4 replicates)	-0.66	0.365				Total number of assays tested in: 39. Active in the following assays: <ul style="list-style-type: none">Small molecule inhibitors of miR122 Measured in Cell-Based System Using Plate Reader - 2144-01 Activator.SinglePoint.HTS.Activity (AID 623901)Small molecule inhibitors of miR122 Measured in Cell-Based System Using Plate Reader - 2144-01 Activator.Dose:CherryPick.Activity (AID 651956)
BRD-K92570288-001-01-7 PubChem CID : 54614939		0.90 (in 4 replicates)	-0.66	0.941				Total number of assays tested in: 19.
BRD-K90062066-001-05-6 NSC403269 AC1Q5YXN MLS000085563 AC1L831T ZINC79326 HMS1428L12 HMS2163L14 HMS3314C21 CCG-25169 ZINC00079326 NSC-403269 ID11 011289 SMR000020498 ST50075968 F1470-0040 PubChem CID : 345568		0.78 (in 3 replicates)	-0.66	NA				Total number of assays tested in: 786. Active in the following assays: <ul style="list-style-type: none">CYP2C19 Assay (AID 778)Cycloheximide Counter-screen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)
BRD-A72832265-001-06-3 MLS000548215 AC1NAQN8 HMS2366J06 STK315958 SMR000114937 PubChem CID : 4431146		0.76 (in 2 replicates)	-0.66	NA				Total number of assays tested in: 668. Active in the following assays: <ul style="list-style-type: none">Multiplex HTS Screen of TOR pathway GFP-fusion proteins in Saccharomyces cerevisiae specifically - MEP2.MLPCN. (AID 2016)Multiplex HTS Screen of TOR pathway GFP-fusion proteins in Saccharomyces cerevisiae specifically - RPL19A.MLPCN. (AID 2025)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)High-throughput multiplex microsphere screening for inhibitors of toxin protease, specifically Botulinum neurotoxin light chain F protease, MLPCN compound set (AID 588497)qHTS for Inhibitors of Glutaminase (GLS) (AID 624170)
BRD-K90692821-001-05-6 STK632947 BAS 00898395 AC1LCOWB MLS000031732 HMS2299B24 ZINC8716787 ZINC08716787 SMR000009689 PubChem CID : 653661		NA (in 1 replicates)	-0.65	NA				Total number of assays tested in: 776. Active in the following assays: <ul style="list-style-type: none">qHTS Assay for Spectroscopic Profiling in 4-MU Spectral Region (AID 589)qHTS Assay for Spectroscopic Profiling in A350 Spectral Region (AID 590)Profiling the NIH Molecular Libraries Small Molecule Repository - Autofluorescence at 339/460 nm (AID 7709)qHTS Assay for Inhibitors of HADH2 (Hydroxacyl-Coenzyme A Dehydrogenase, Type II) (AID 886)qHTS Assay for Inhibitors of HSD17B4, hydroxysteroid (17-beta) dehydrogenase 4 (AID 893)HTS-Luminescent assay for inhibitors of AIR by detection of hydrogen peroxide production Measured in Biochemical System Using Plate Reader - 2036-02 Inhibitor.SinglePoint.HTS (AID 485317)qHTS Assay for Activators of ClpP (AID 651965)

<div>BRD-K78272952-001-05-4</div> <div>MLS000331542</div> <div>SMR000220964</div> <div>AC1M00XM</div> <div>BDBM48723</div> <div>HMS2560K08</div> <div>ZINC8684663</div> <div>STK164689</div> <div>ZINC08684663</div> <div>ST50763472</div> <div>PubChem CID : 2013382</div>	<chem>Cc1ccc(cc1)S(=O)(=O)Nc2ccc(cc2)S(=O)(=O)c3ccc(cc3)S(=O)(=O)c4ccccc4</chem>	0.83 (in 2 replicates)	-0.64	NA				<div>Total number of assays tested in: 642. Active in the following assays:</div> <ul style="list-style-type: none">• uHTS for Small Molecule Inhibitors of Eukaryotic Translation Initiation (AID 782)• Chemical Genetic Screen to Identify Inhibitors of Mitochondrial Fusion - Primary Screen (AID 1362)• qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)• uHTS identification of small molecule inhibitors of tim23-1 yeast via a luminescent assay (AID 463212)• Single concentration confirmation of small molecule inhibitors of tim23-1 yeast via a luminescent assay (AID 463218)
<div>BRD-K50700495-001-05-0</div> <div>ZINC03217226</div> <div>MLS000569421</div> <div>AC1M5TOT</div> <div>HMS1399C03</div> <div>HMS2313L04</div> <div>ZINC3217226</div> <div>SMR000155025</div> <div>T0505-7968</div> <div>PubChem CID : 2335893</div>	<chem>Cc1ccc(cc1)S(=O)(=O)Nc2ccc(cc2)S(=O)(=O)c3ccc(cc3)S(=O)(=O)c4ccccc4</chem>	NA (in 1 replicates)	-0.64	NA				<div>Total number of assays tested in: 696. Active in the following assays:</div> <ul style="list-style-type: none">• High Content Assay for Compounds that inhibit the Assembly of the Perinuclear Compartment (AID 2417)• Primary cell-based high-throughput screening for identification of compounds that antagonize MrgX1 receptor signaling (AID 588676)
<div>BRD-K06736360-001-05-1</div> <div>ZINC03416368</div> <div>AC1MSDOD</div> <div>MLS000760967</div> <div>HMS2708G03</div> <div>ZINC3416368</div> <div>SMR000372267</div> <div>T5315952</div> <div>PubChem CID : 2535434</div>	<chem>Cc1ccc(cc1)S(=O)(=O)Nc2ccc(cc2)S(=O)(=O)c3ccc(cc3)S(=O)(=O)c4ccccc4</chem>	NA (in 1 replicates)	-0.64	NA				<div>Total number of assays tested in: 624. Active in the following assays:</div> <ul style="list-style-type: none">• Primary screen for compounds that activate Alzheimer's amyloid precursor (AID 1276)• Luminescence-based primary biochemical high throughput screening assay to identify inhibitors of the Heat Shock Protein 90 (HSP90) (AID 1780)• MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814)• Luminescence-based confirmation biochemical high throughput screening assay for inhibitors of the Heat Shock Protein 90 (HSP90) (AID 1846)• Luminescence-based counterscreen assay for HSP90 inhibitors: biochemical high throughput screening assay to identify inhibitors of native luciferase. (AID 1847)• Luminescence Cell-Based Primary HTS to Identify Inhibitors of Heat Shock Factor 1 (HSF1). (AID 2098)• Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)• A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315)• uHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346)• Single concentration confirmation of uHTS for Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 489028)• Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of human platelet activating factor acetylhydrolase 2 (PAFAH2) (AID 492966)• Single concentration confirmation of inhibitors of Mdm2/MdmX interaction using a Full-Length Luciferase Counterscreen assay (AID 504607)• Antagonist of Human D 1 Dopamine Receptor: qHTS (AID 504652)• Single concentration confirmation of inhibitors of Mdm2/MdmX interaction using a Bcrx1/Bard1 BILC Counterscreen assay. (AID 504668)• qHTS profiling assay for firefly luciferase inhibitor/activator using purified enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)• Primary cell-based high-throughput screening for identification of compounds that activate/potentiate calcium-activated chloride channels (TMEM16A) (AID 623877)• qHTS of GLP-1 Receptor Inverse Agonists (Inhibition Mode) (AID 624417)• Counterscreen for inhibitors of 5-mecpG-binding domain protein 2 (MBD2): TRFRET-based biochemical primary high throughput screening assay to identify inhibitors of binding of ubiquitin-like with PHD and ring finger domains 1 (UHRF1) to methylated oligonucleotide (AID 687016)• HTS for Bacterial rRNA inhibitors Measured in Microorganism-Based System Using Plate Reader - 7056-01 Inhibitor.SinglePoint HTS Activity (AID 720706)