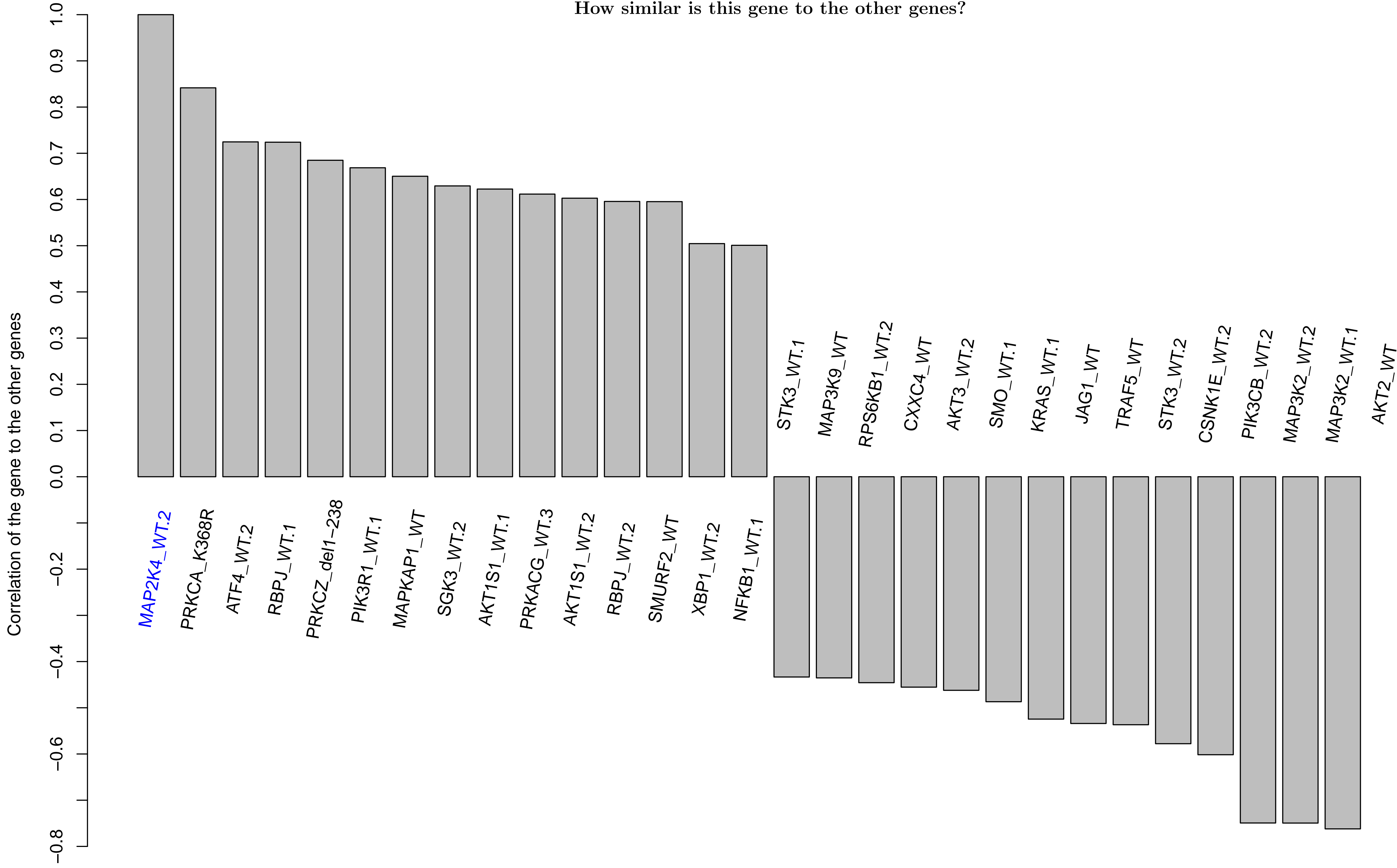
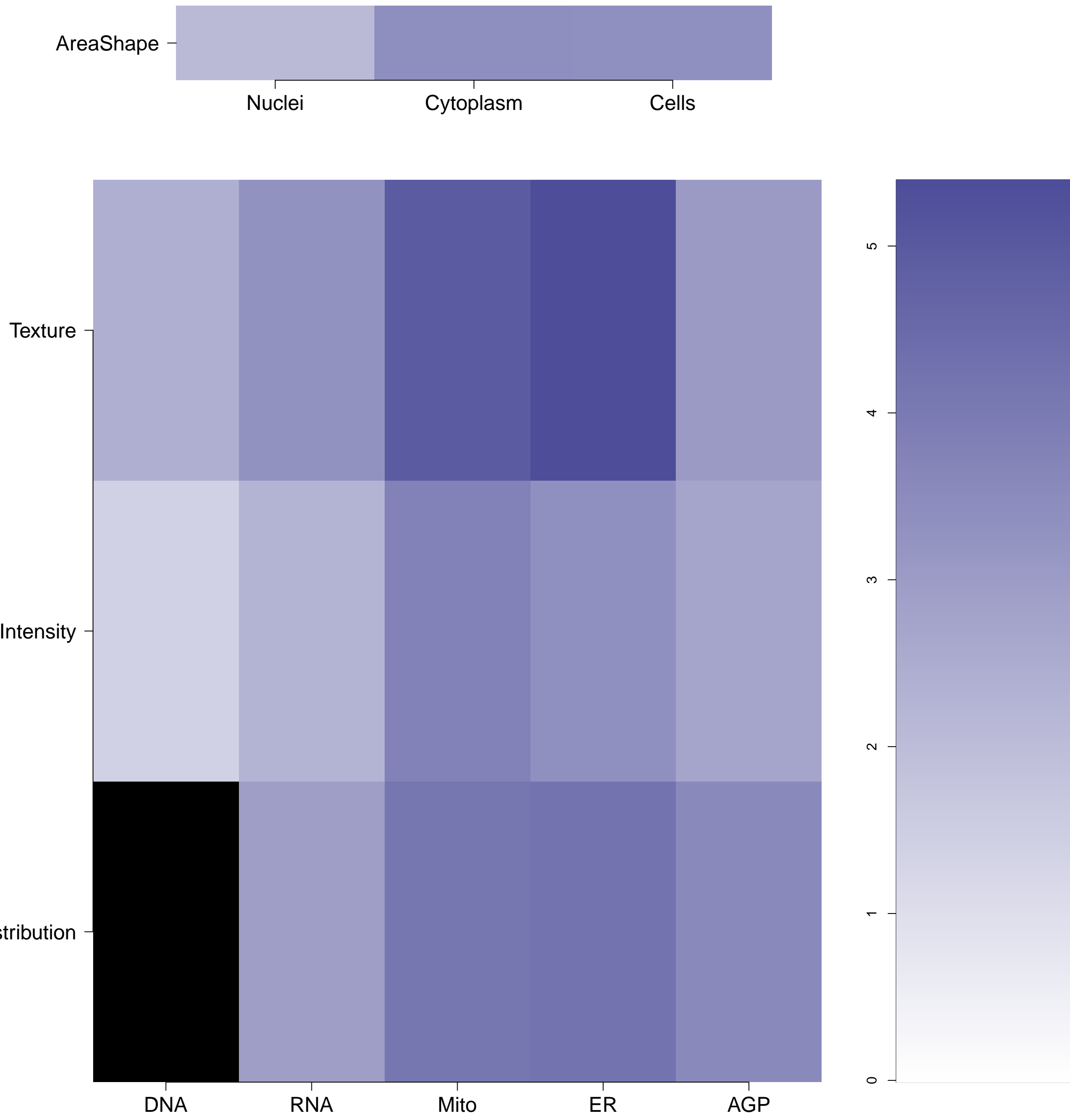


MAP2K4_WT.2 - in Canonical MAPK

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

MAP2K4.WT.2 (41744)

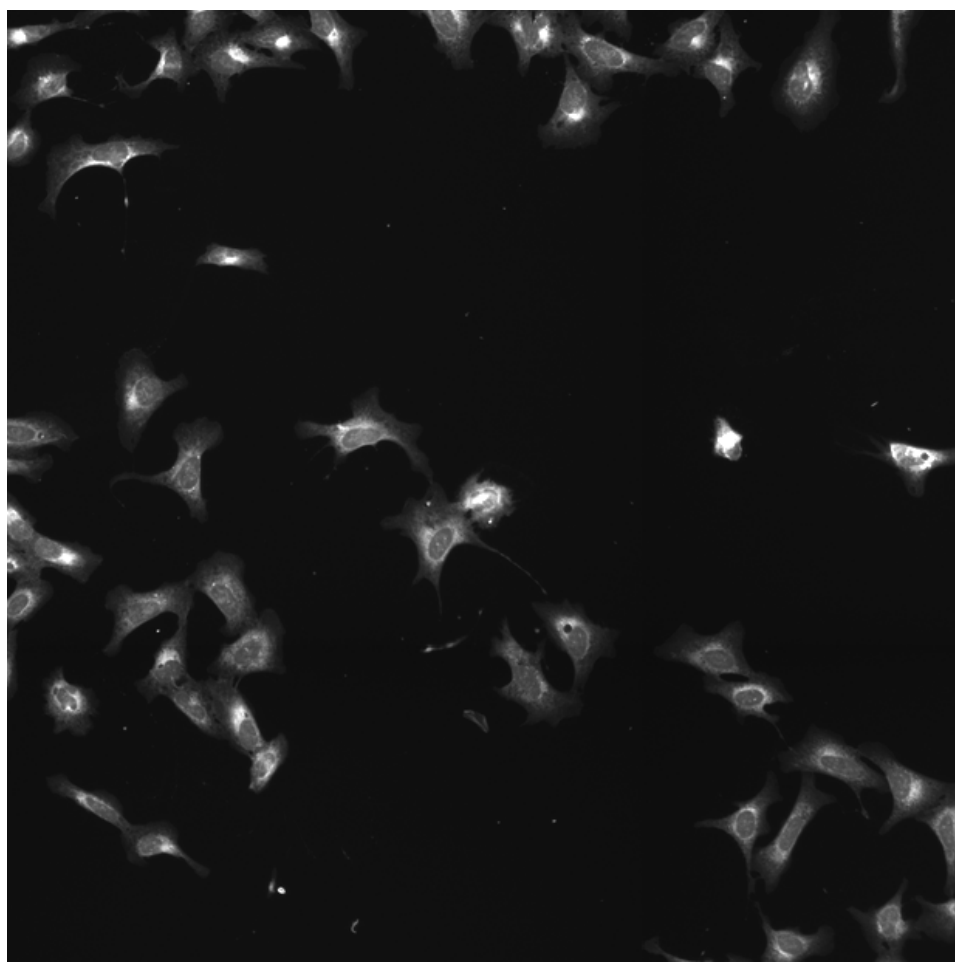
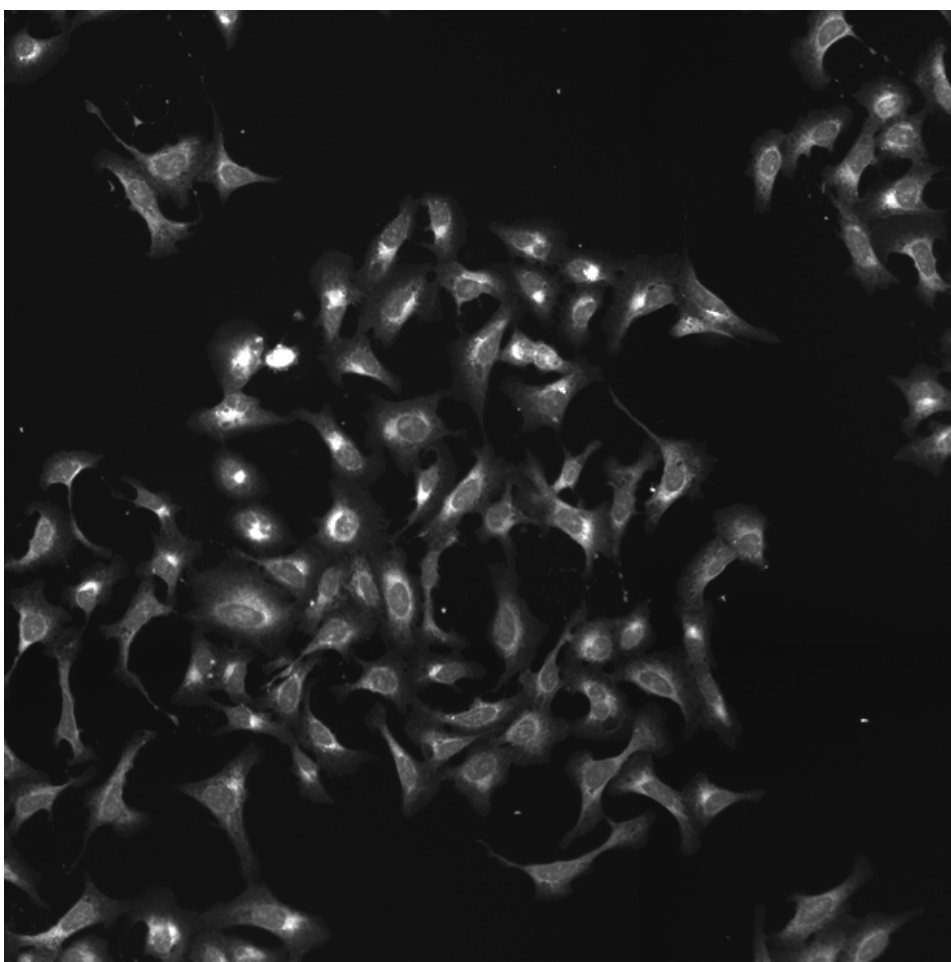
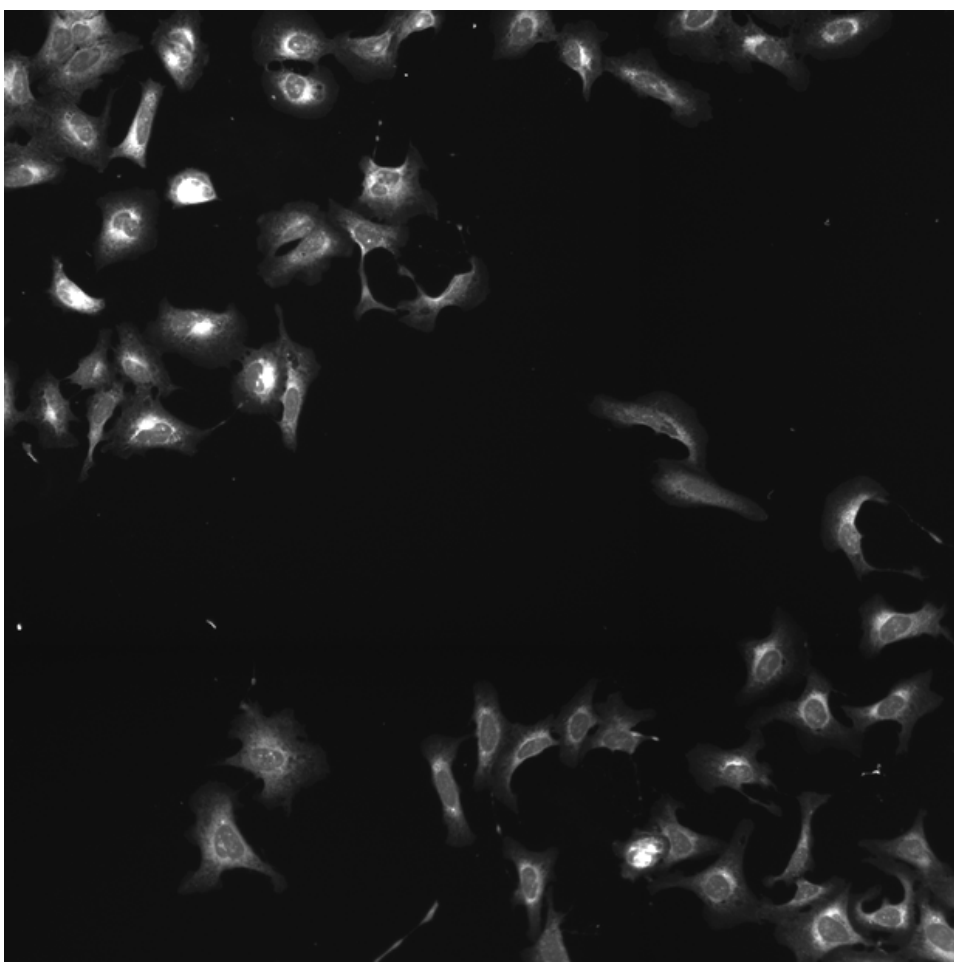
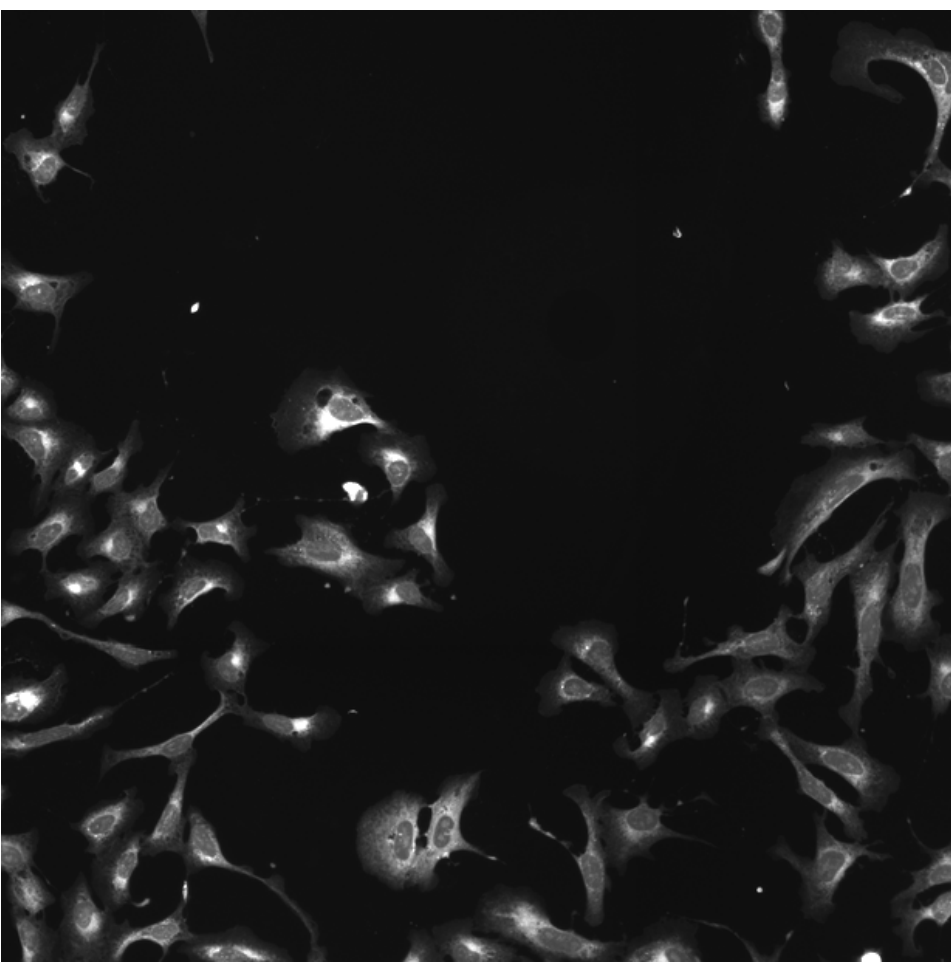
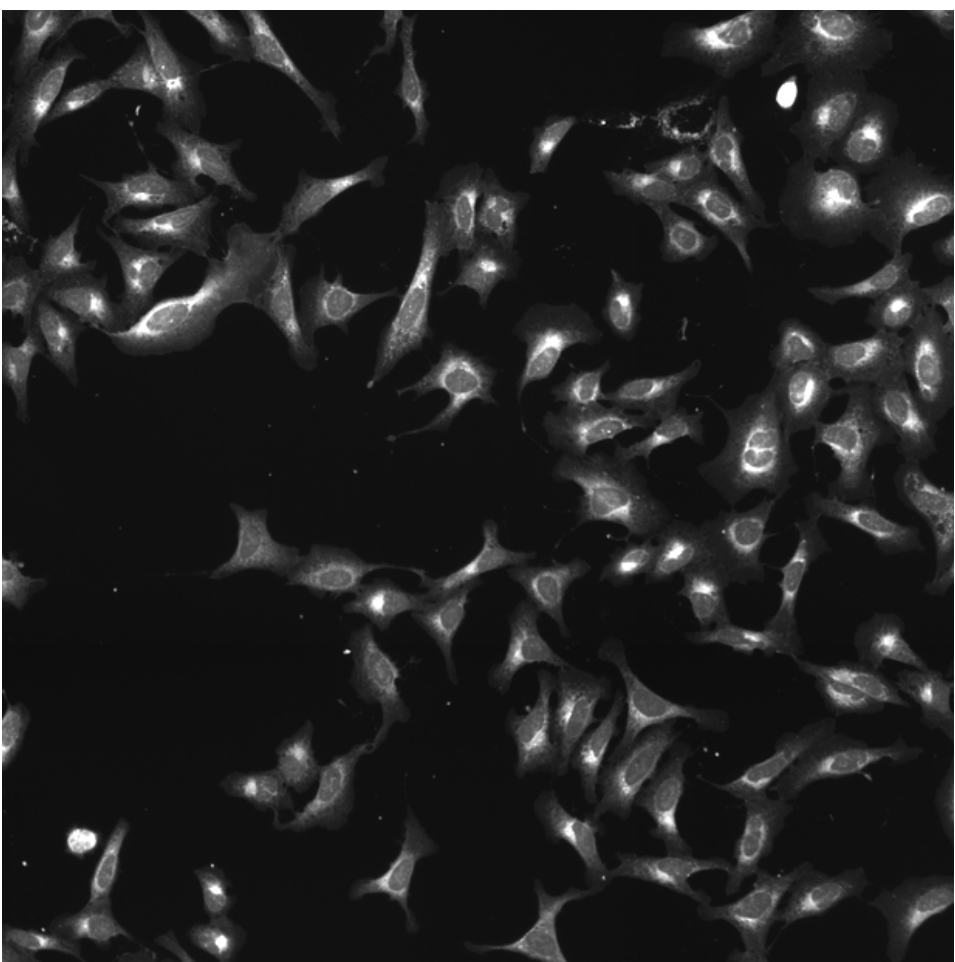
MAP2K4.WT.2 (41755)

MAP2K4.WT.2 (41756)

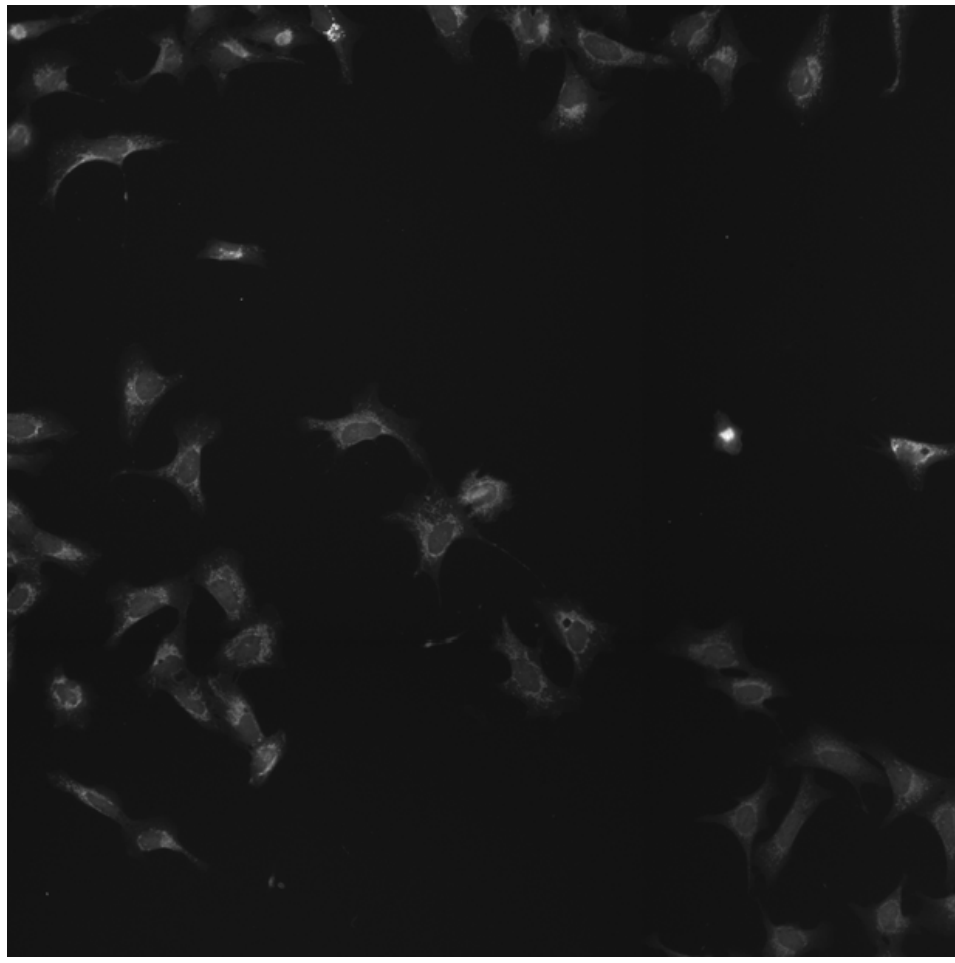
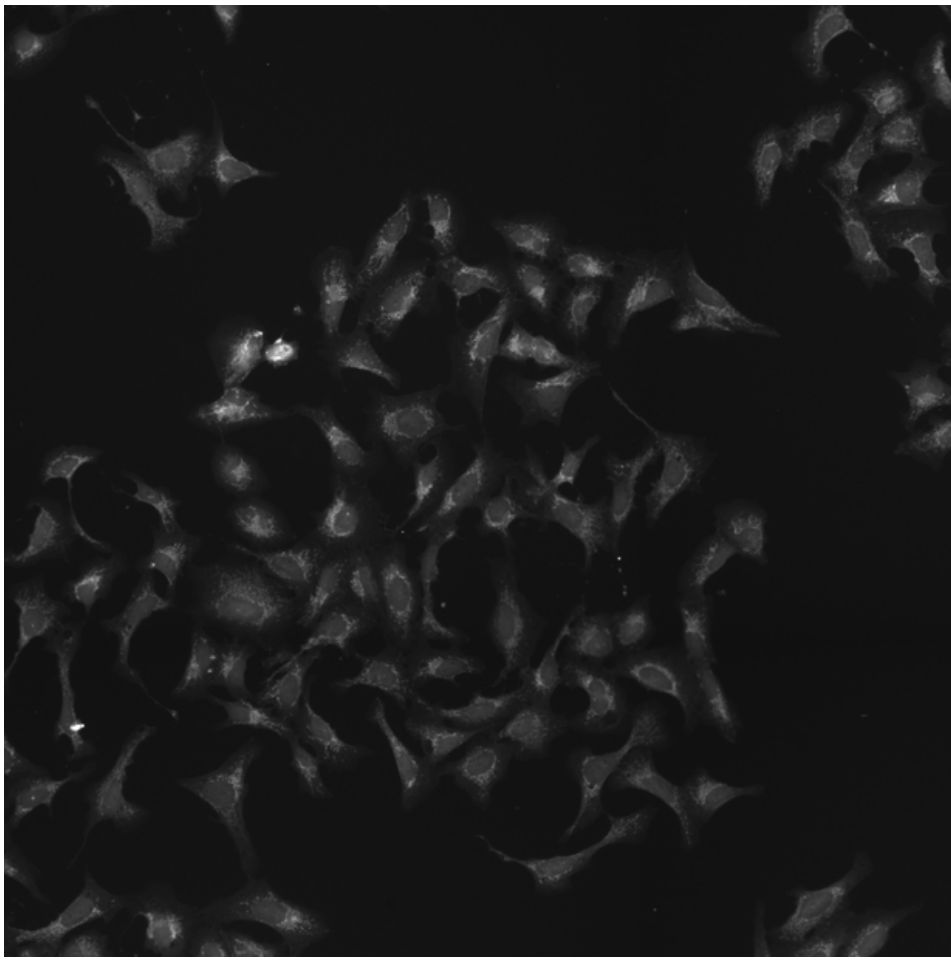
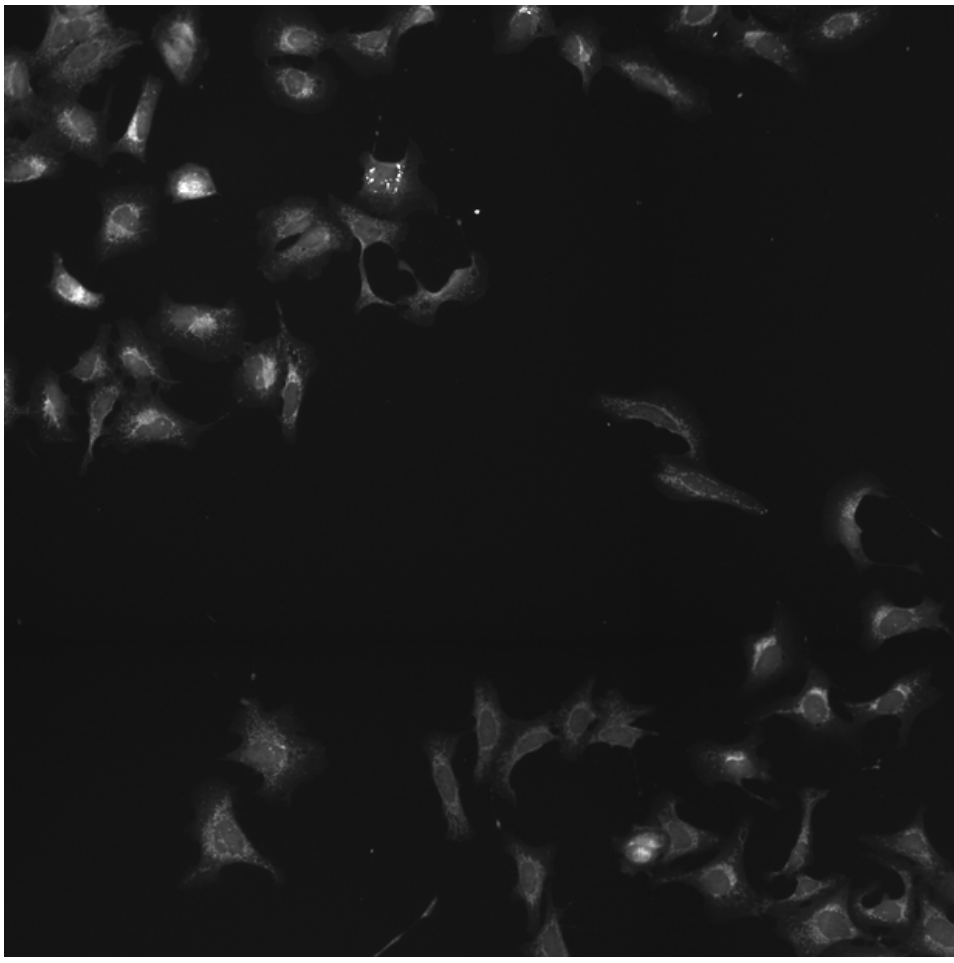
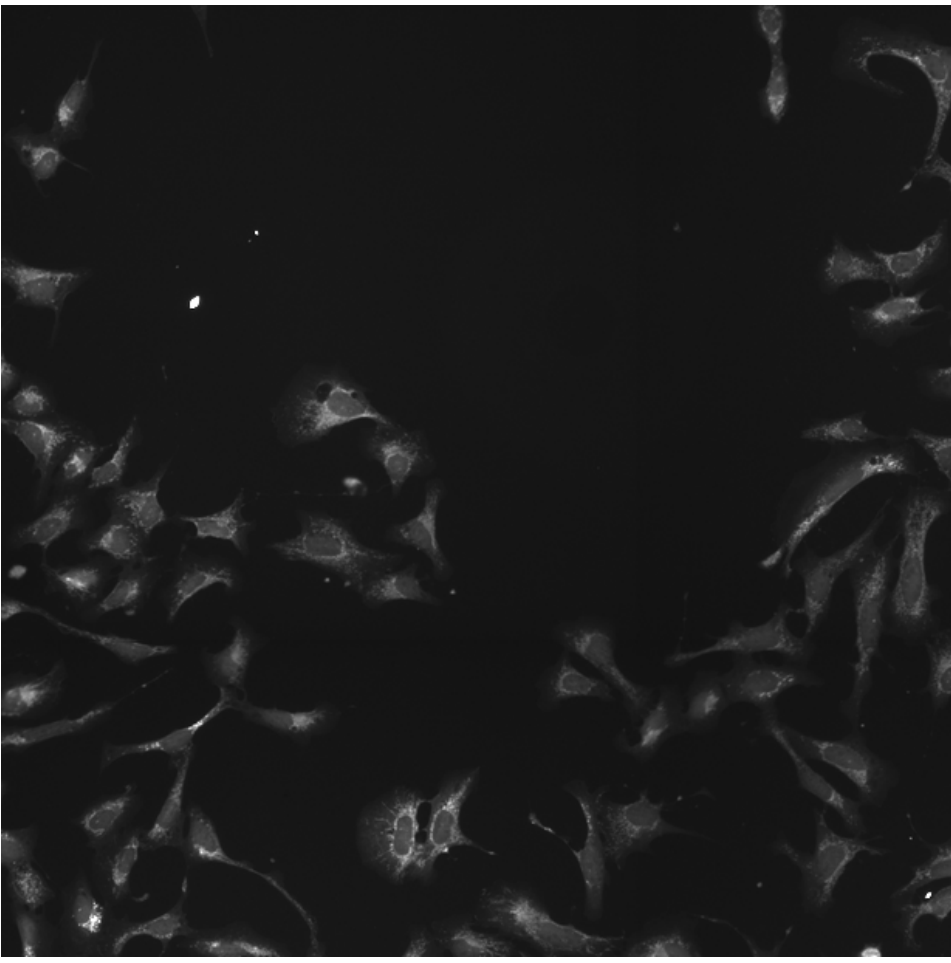
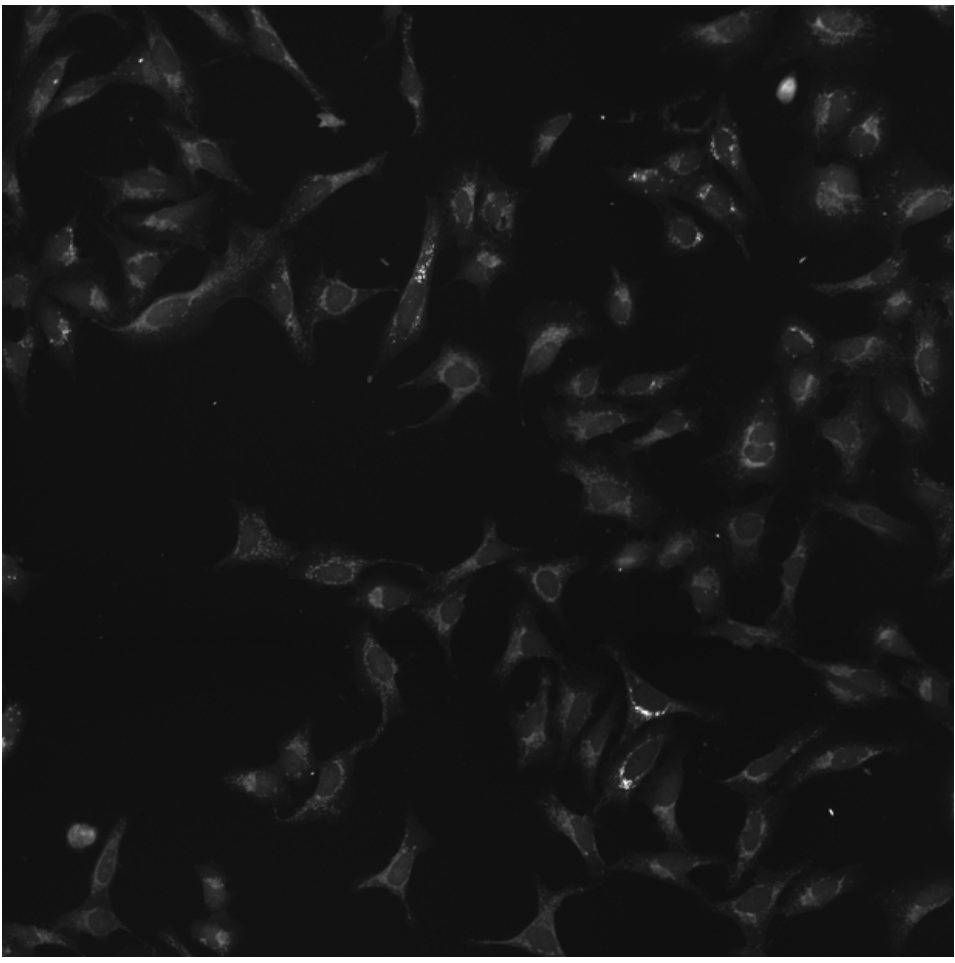
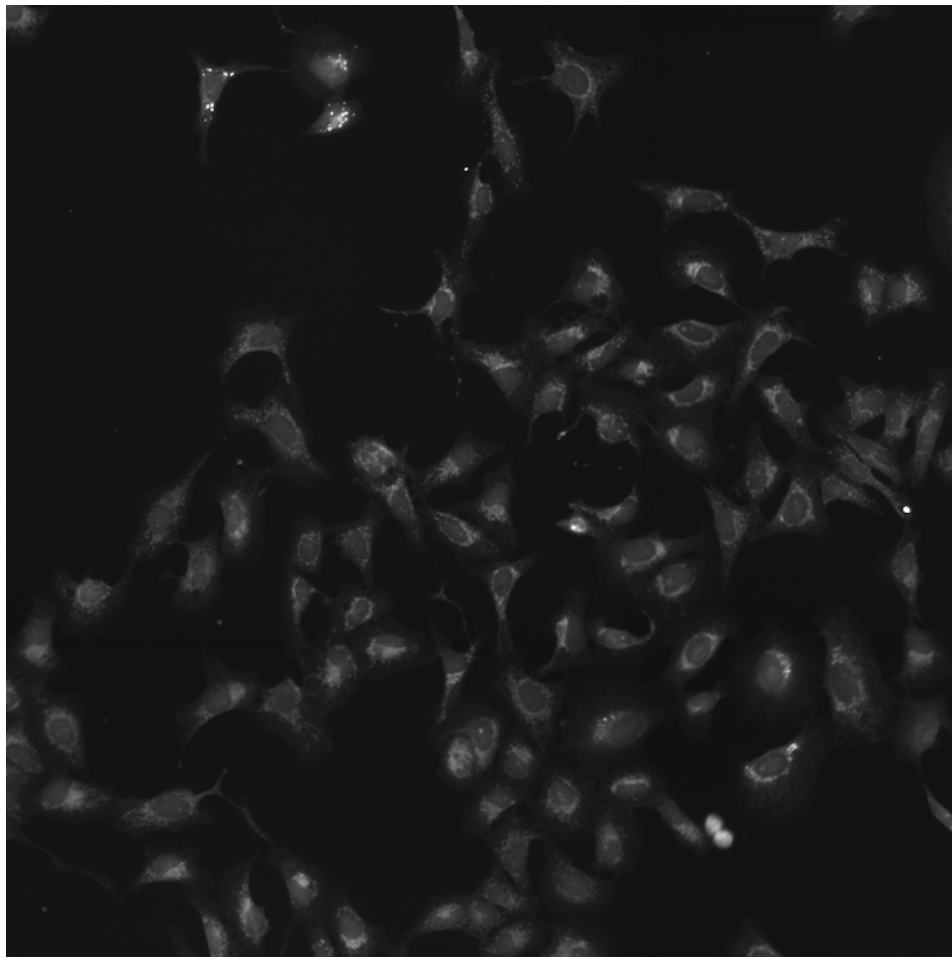
MAP2K4.WT.2 (41757)

MAP2K4.WT.2 (41754)

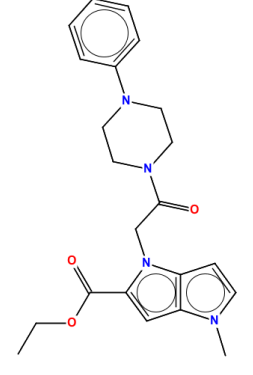
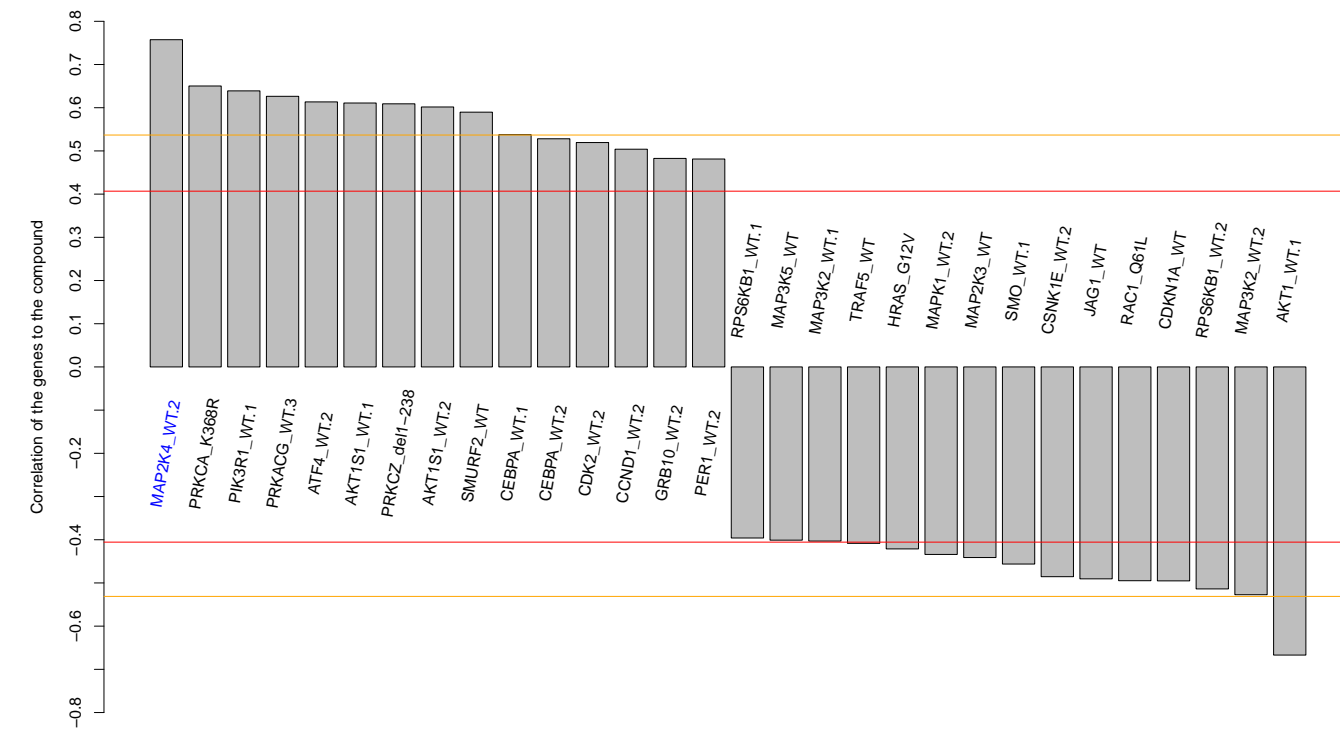
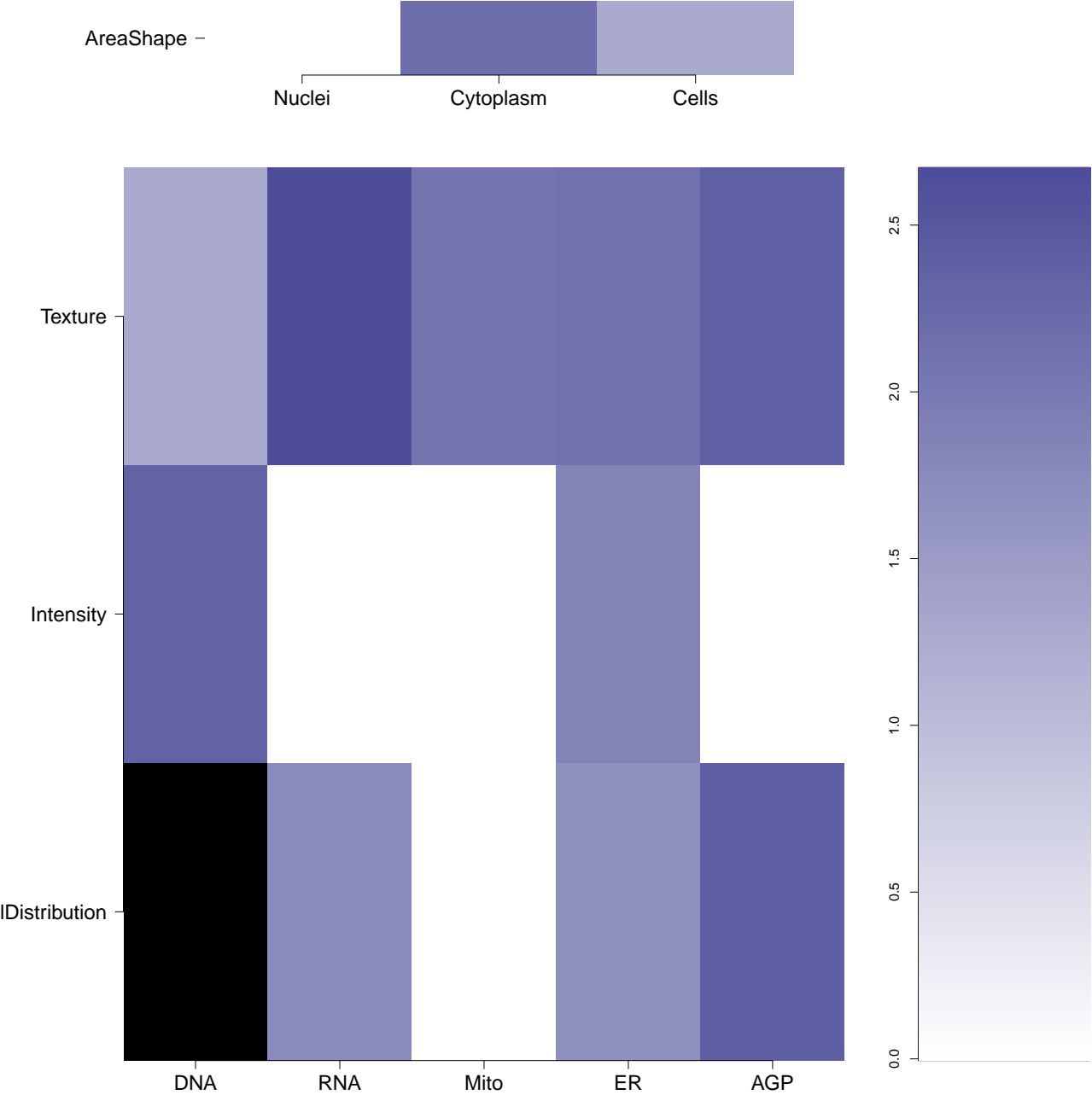

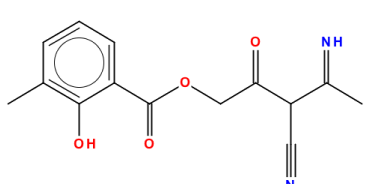
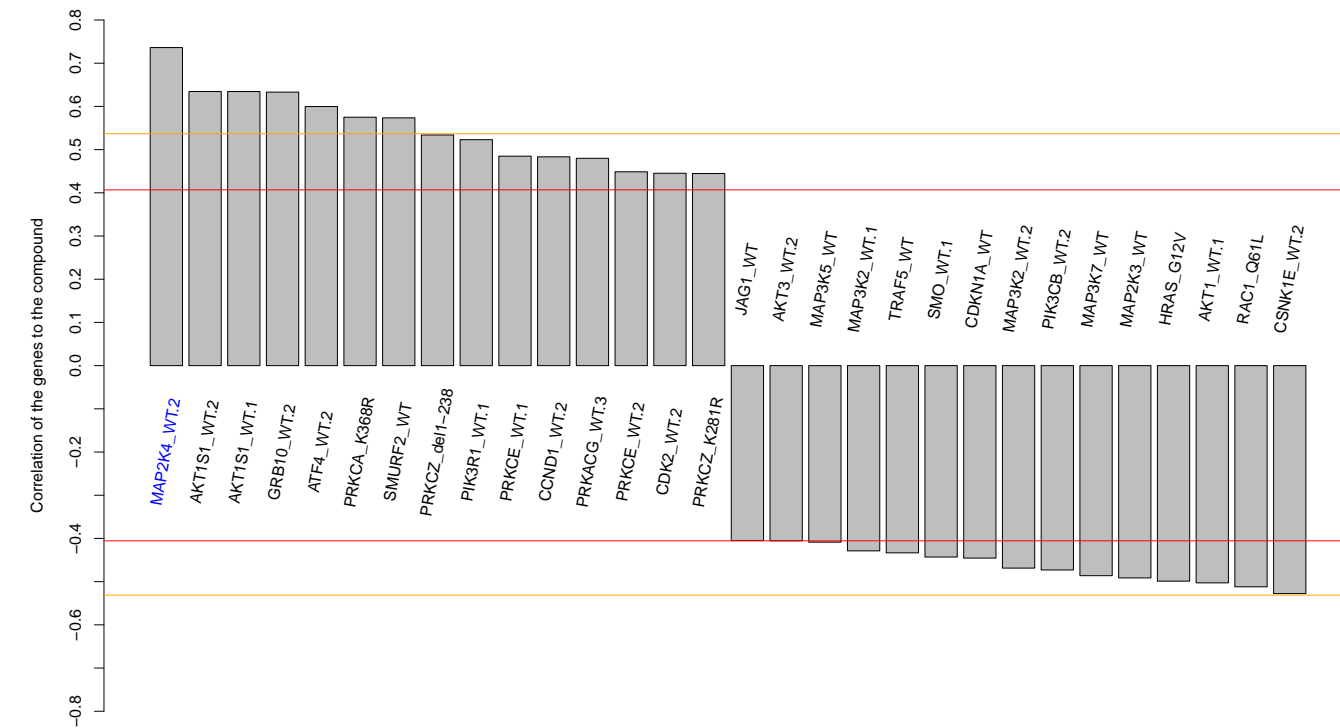
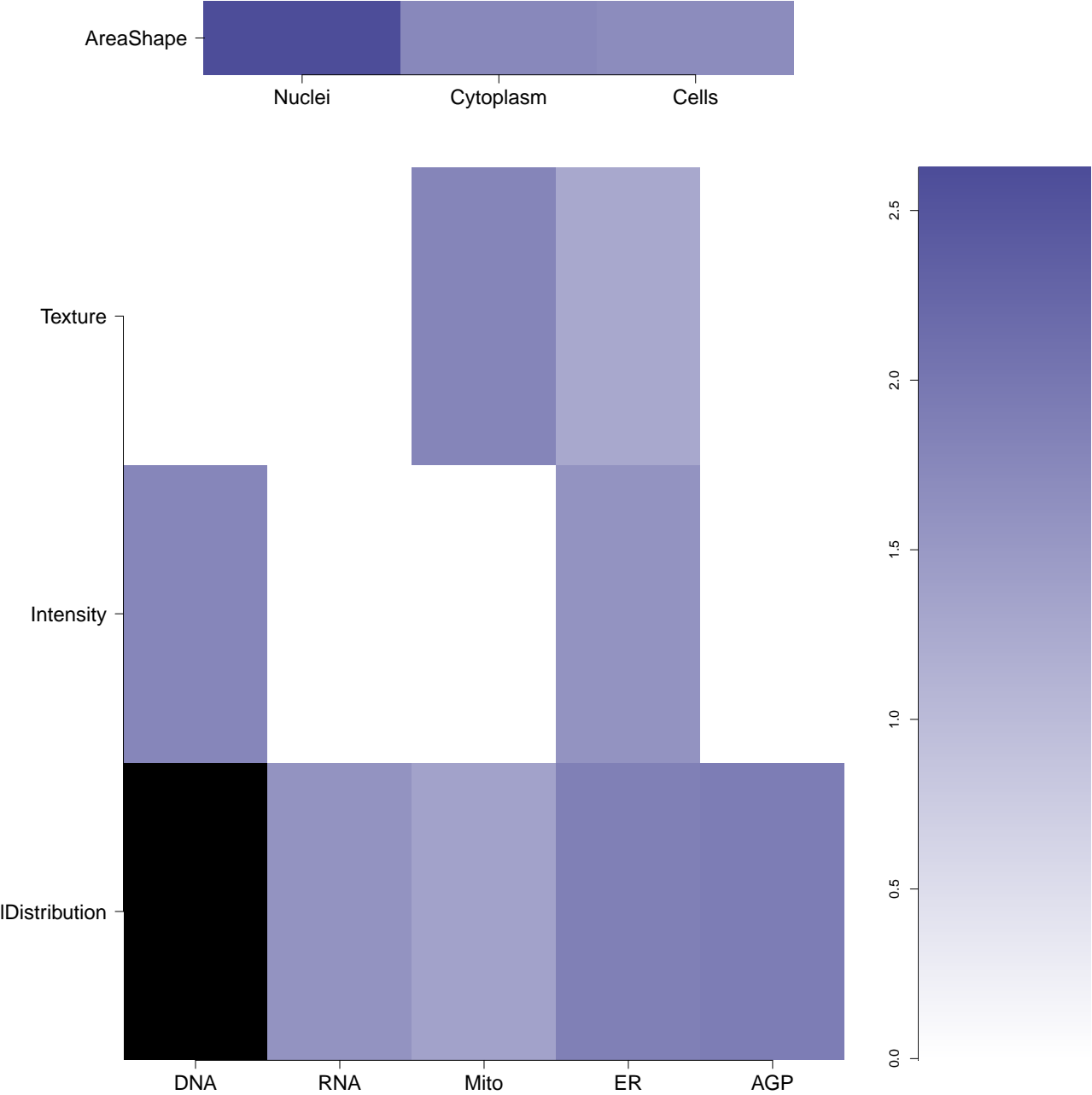

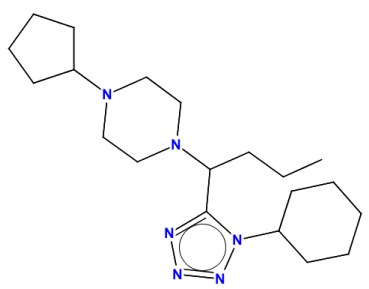
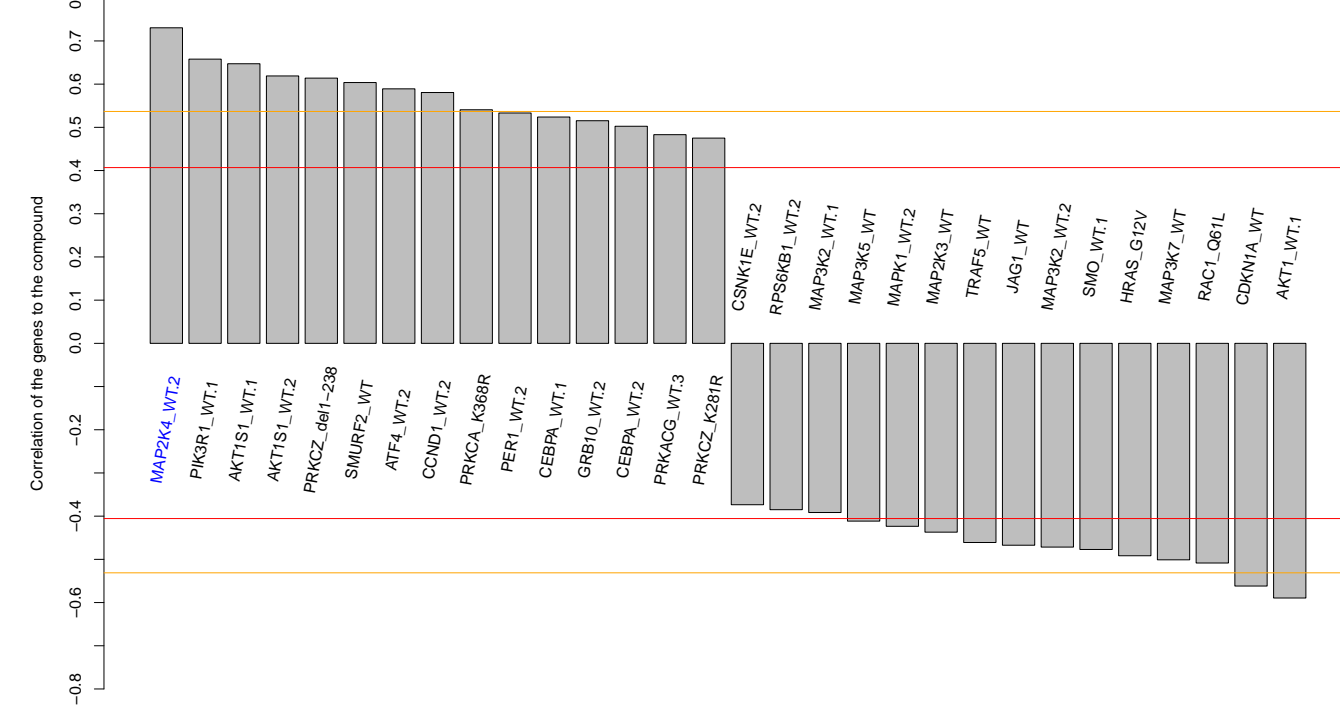
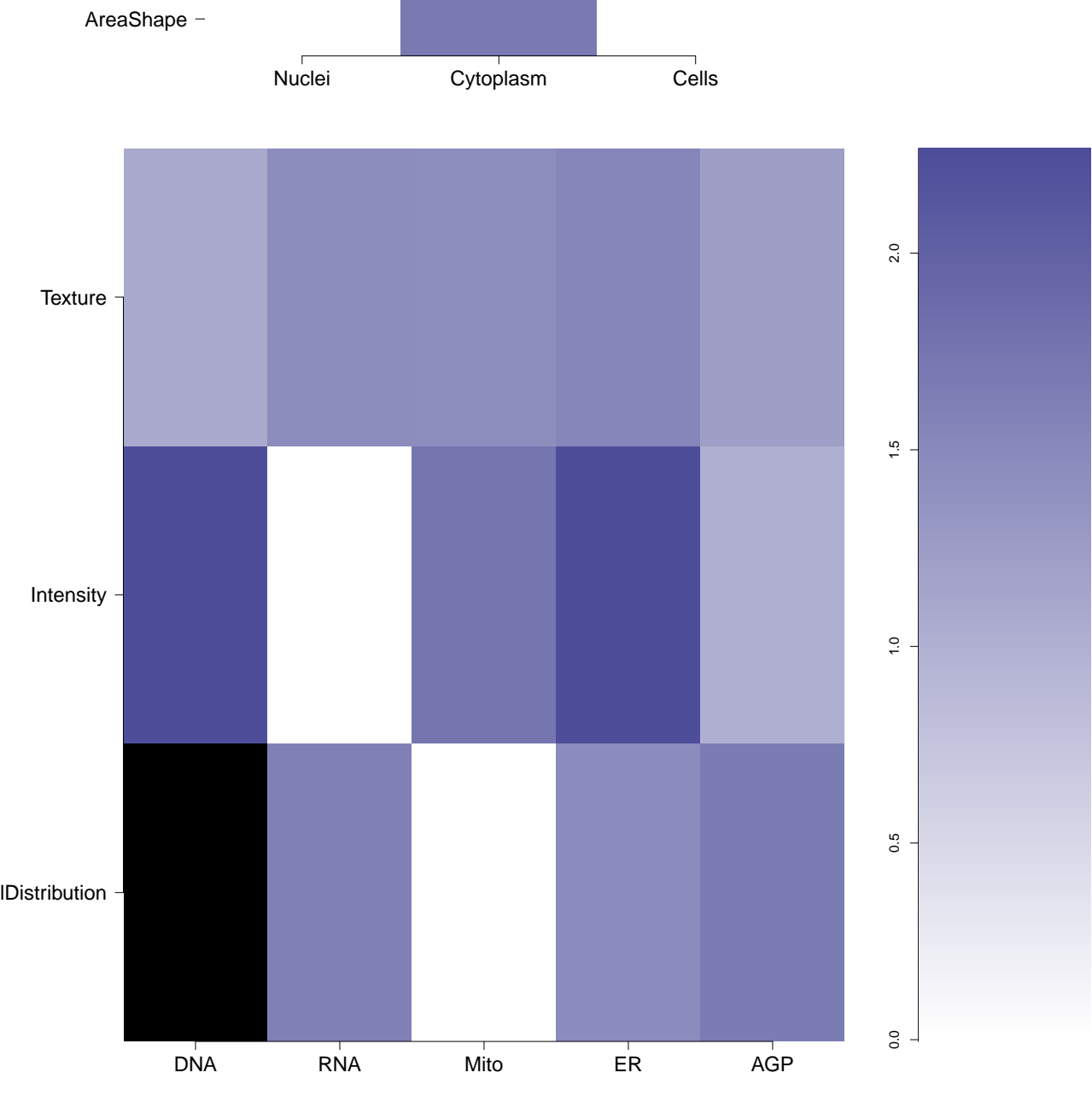
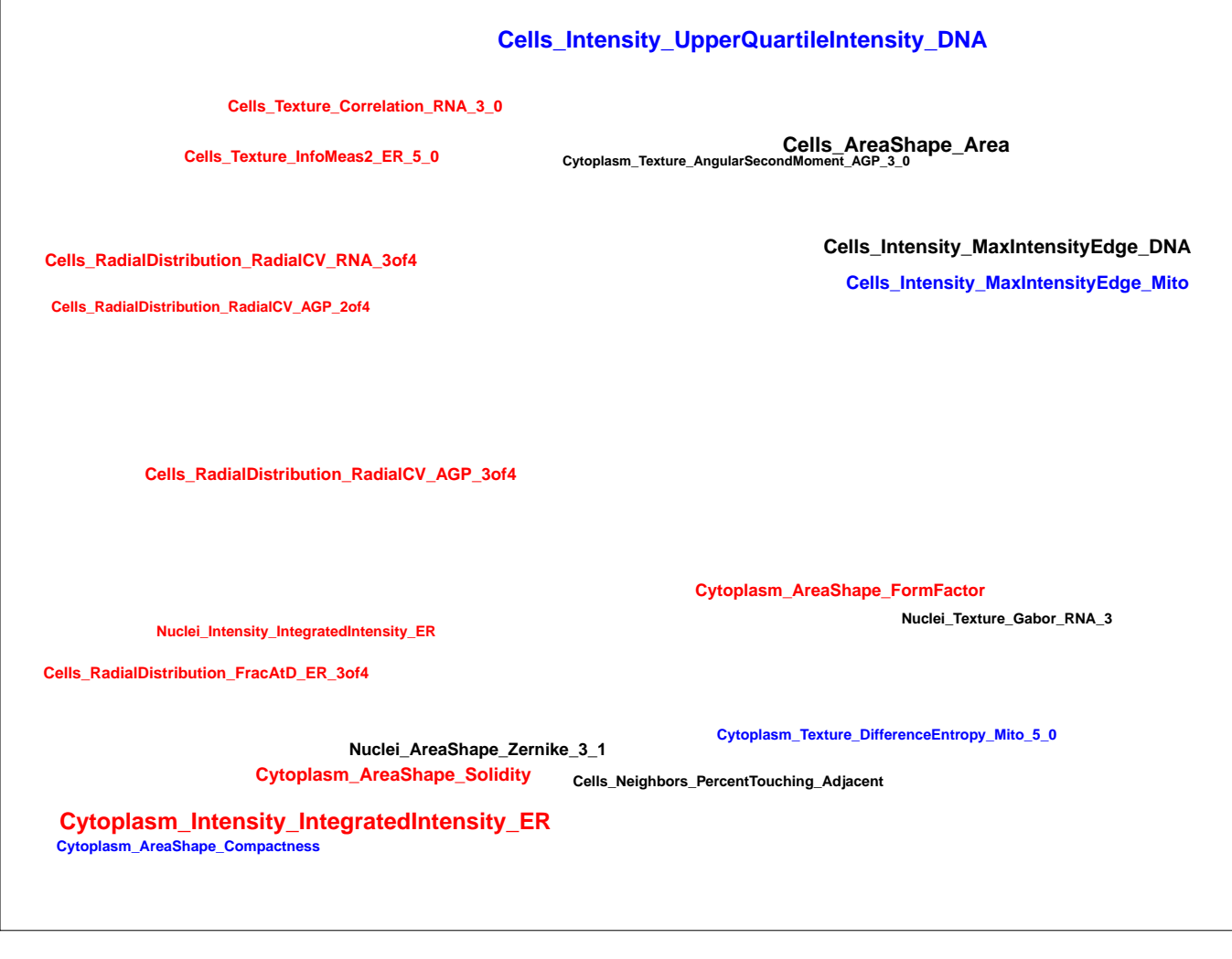
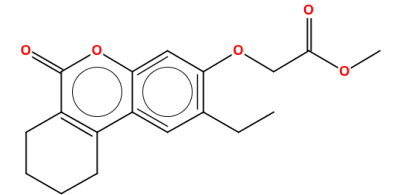
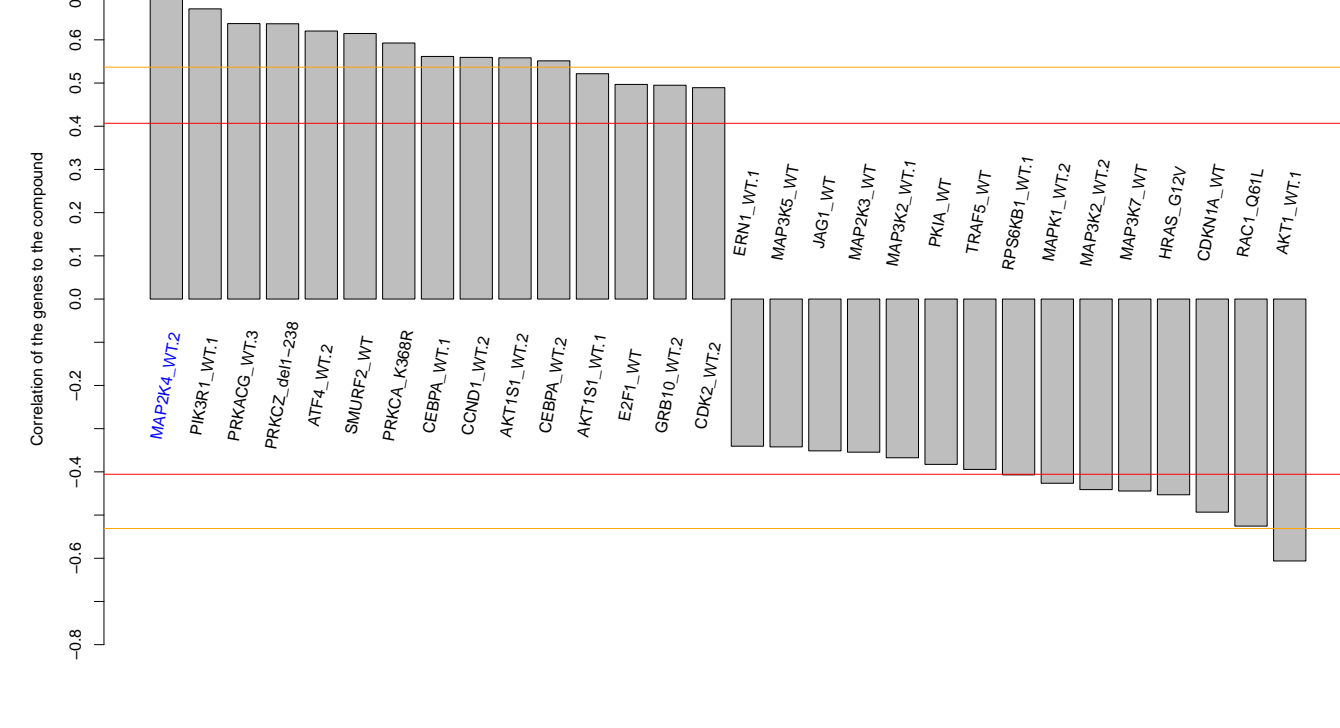
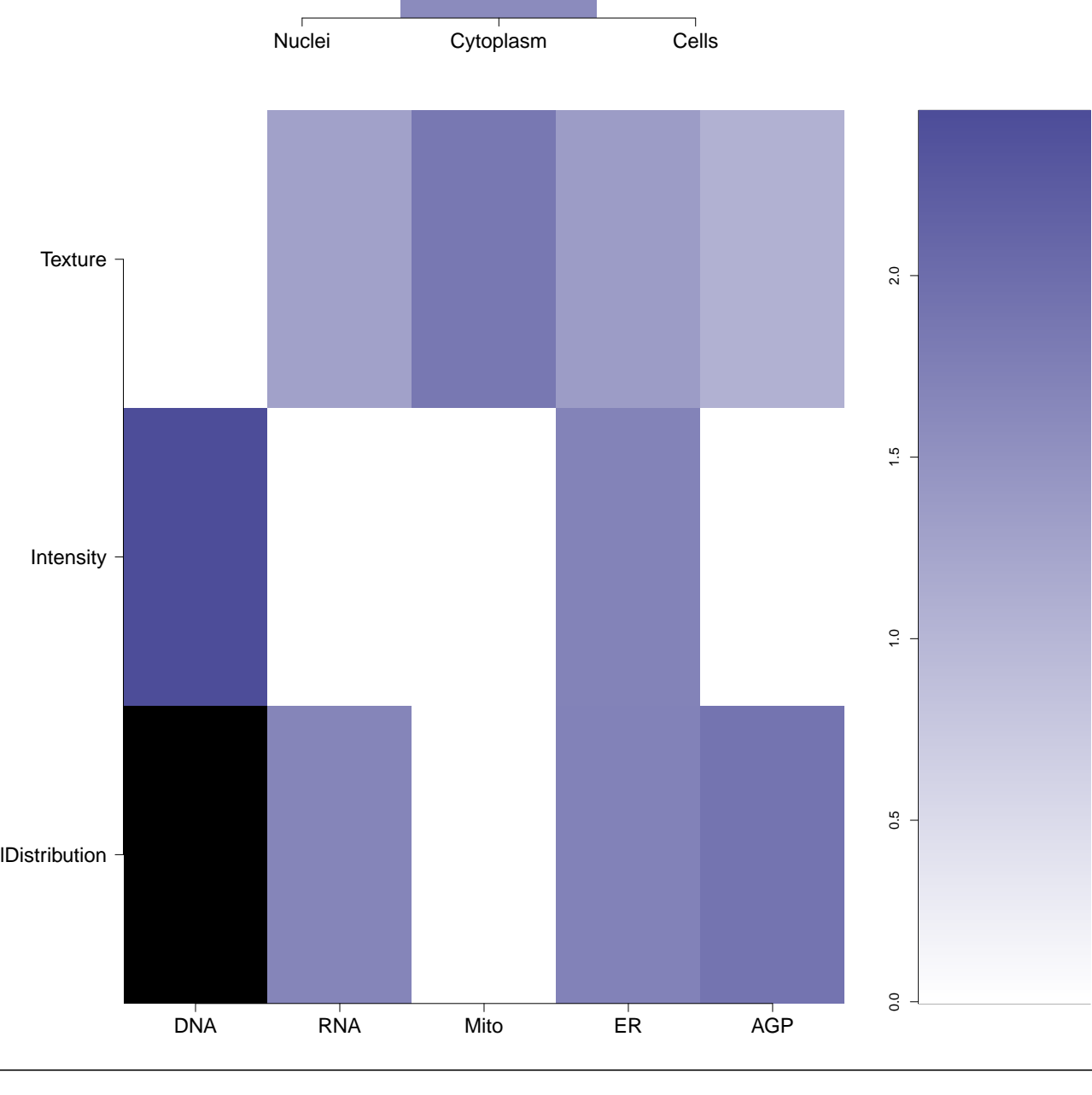

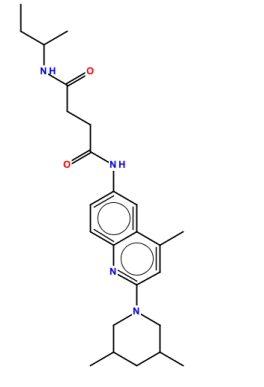
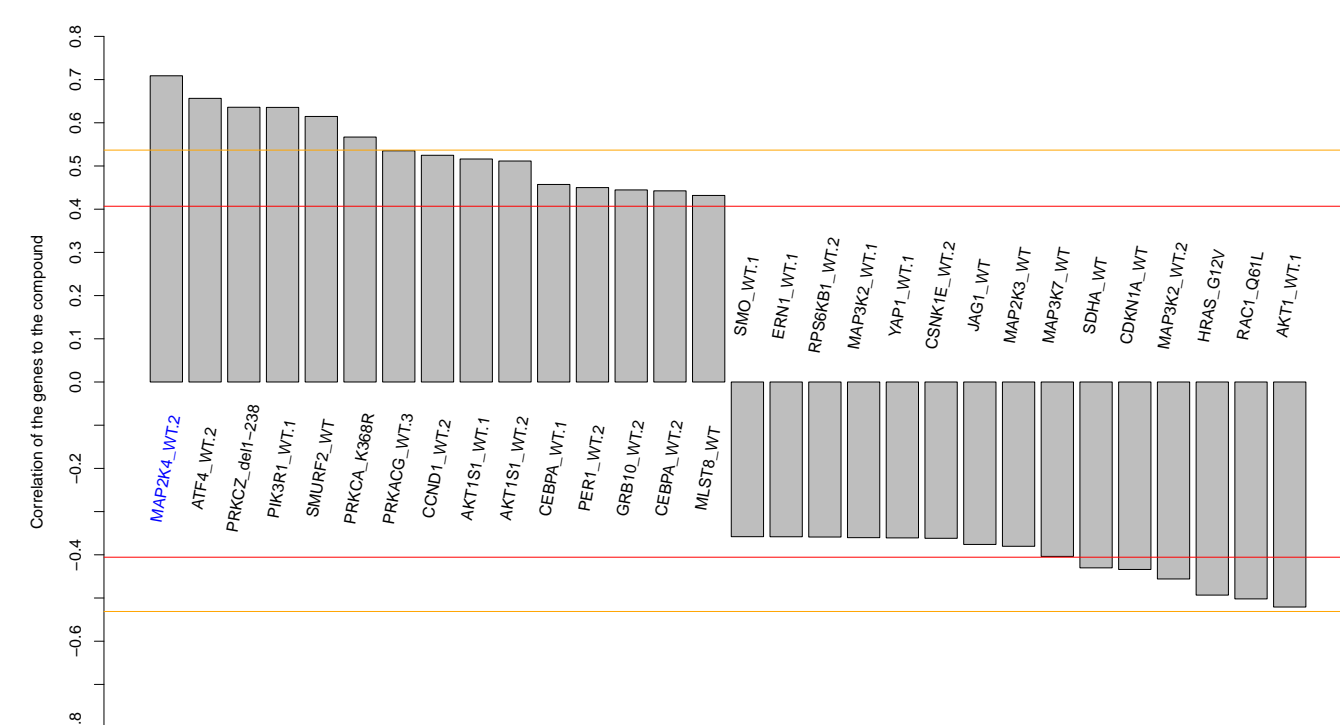
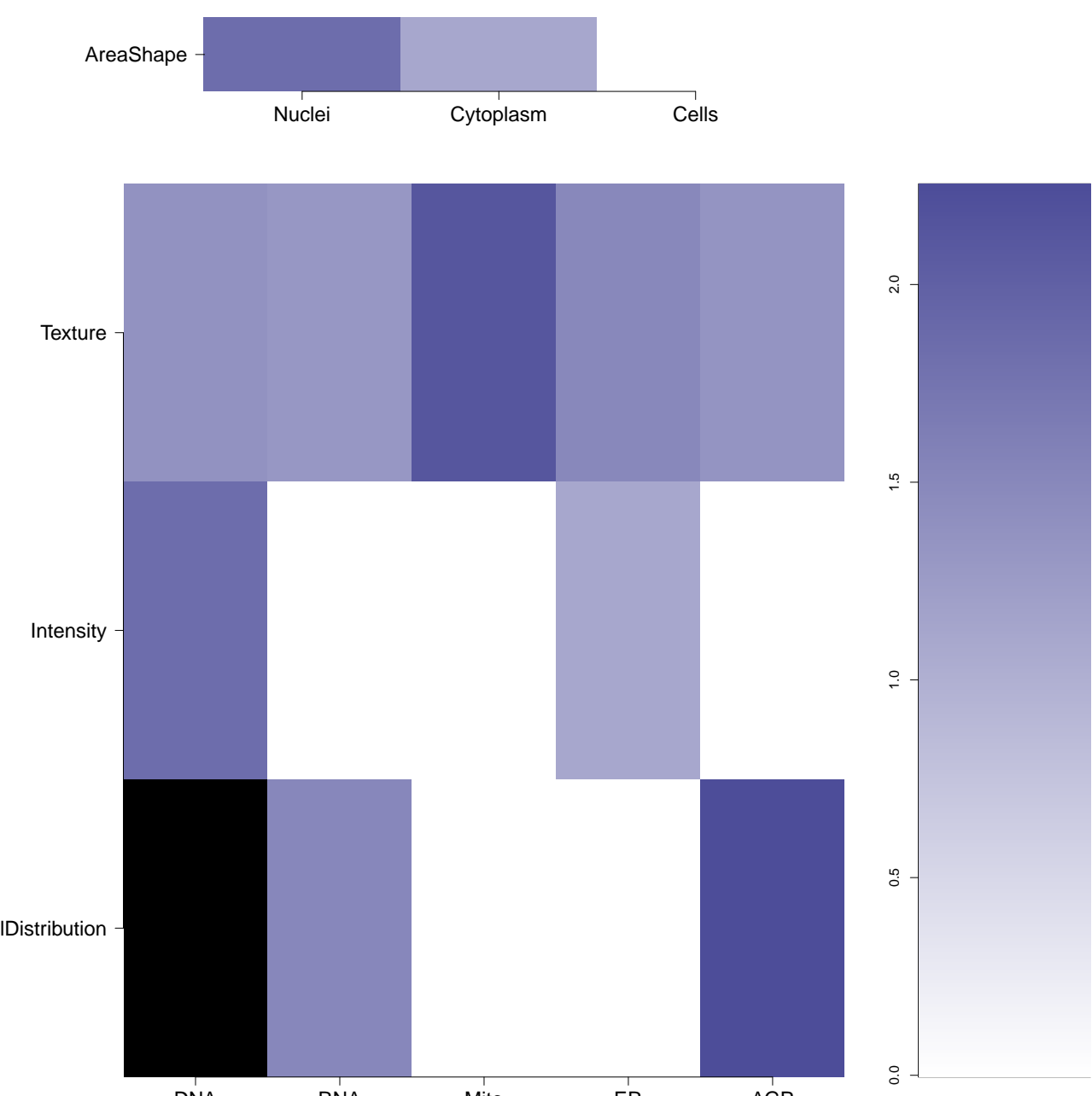

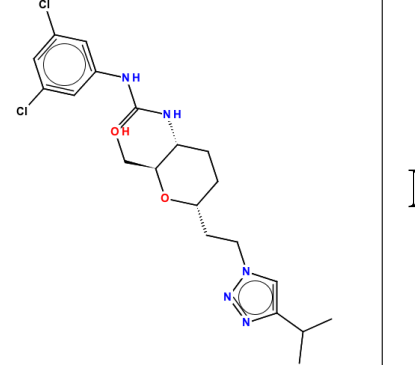
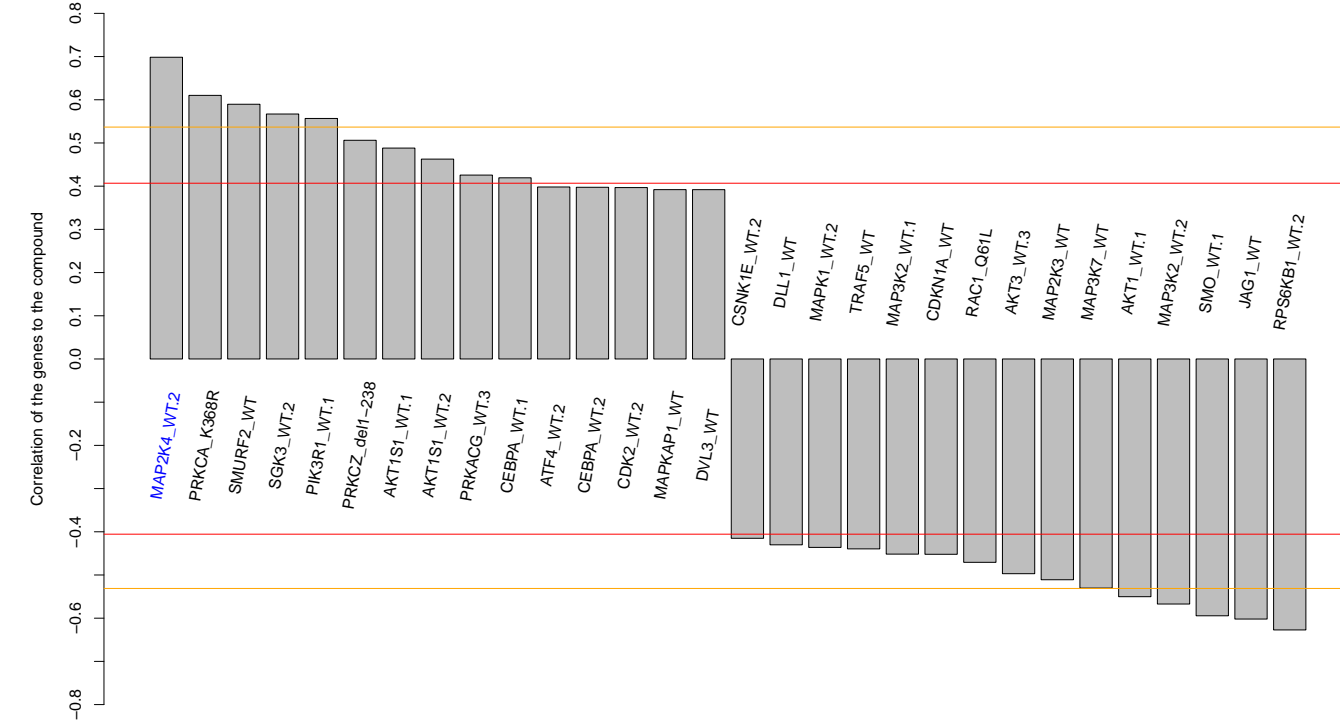
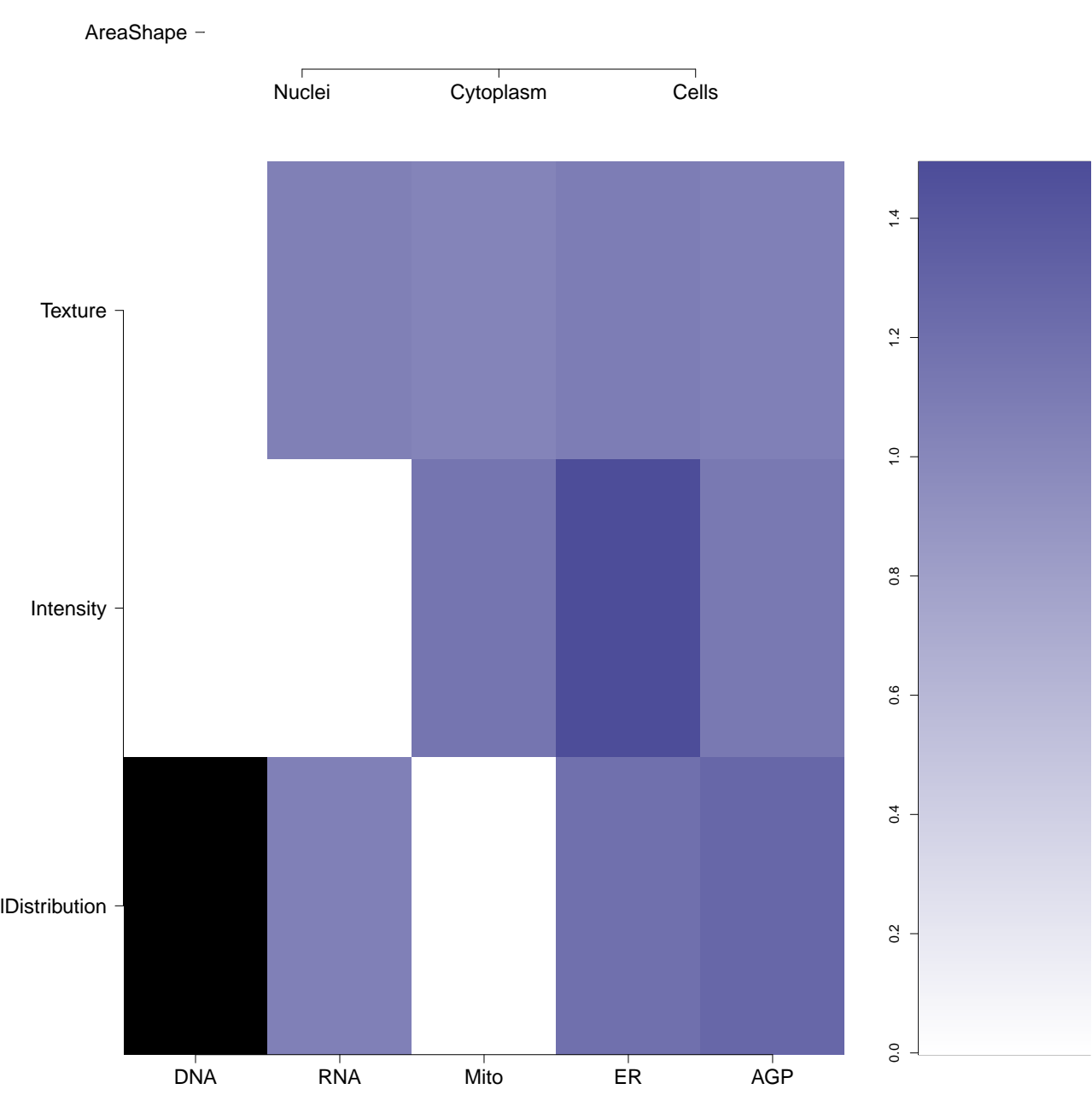
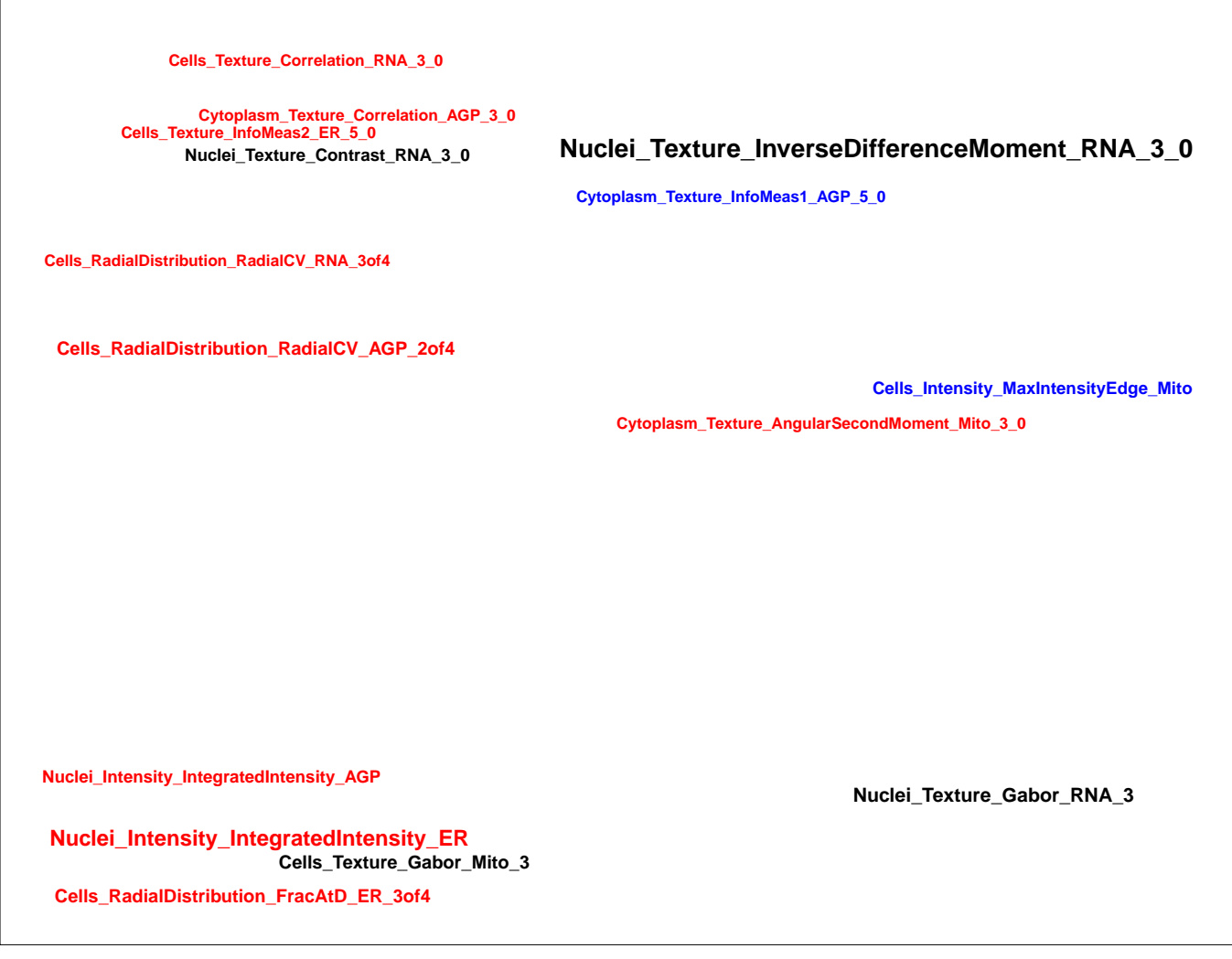
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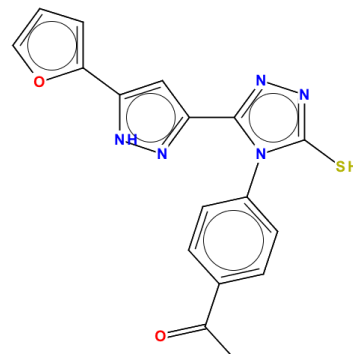
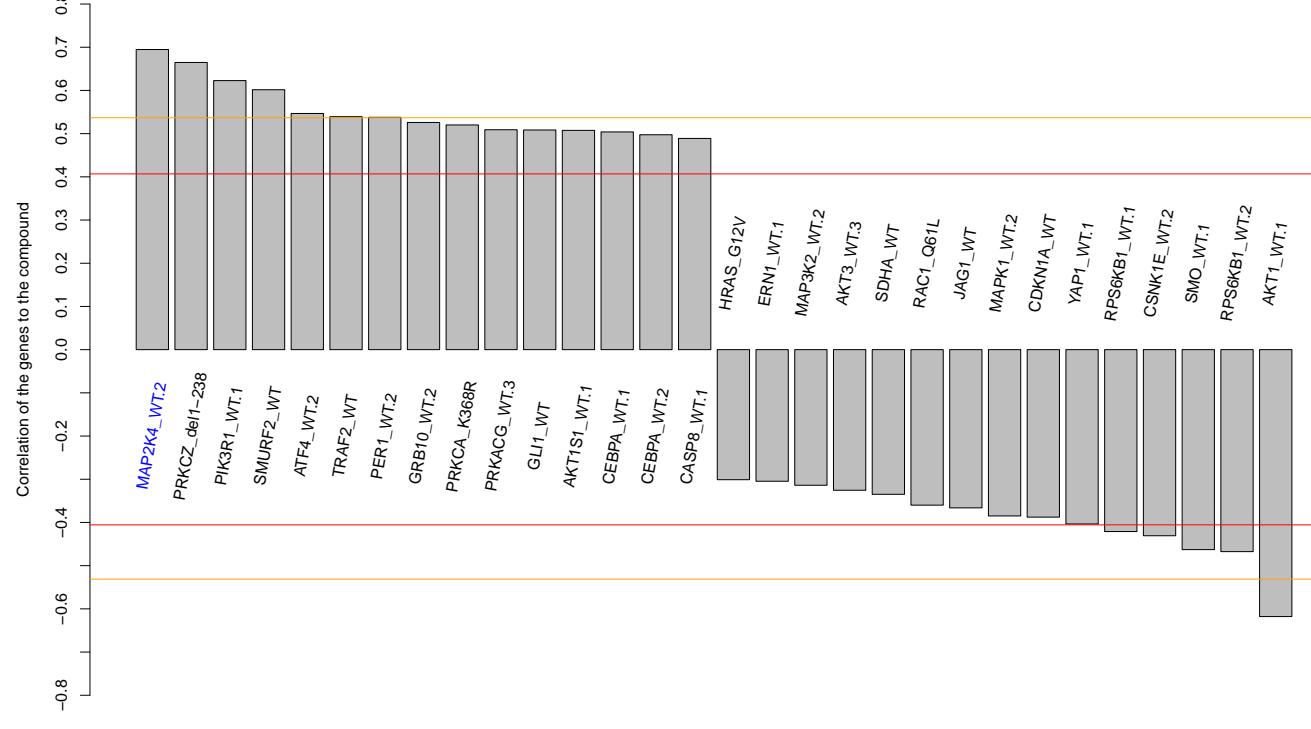
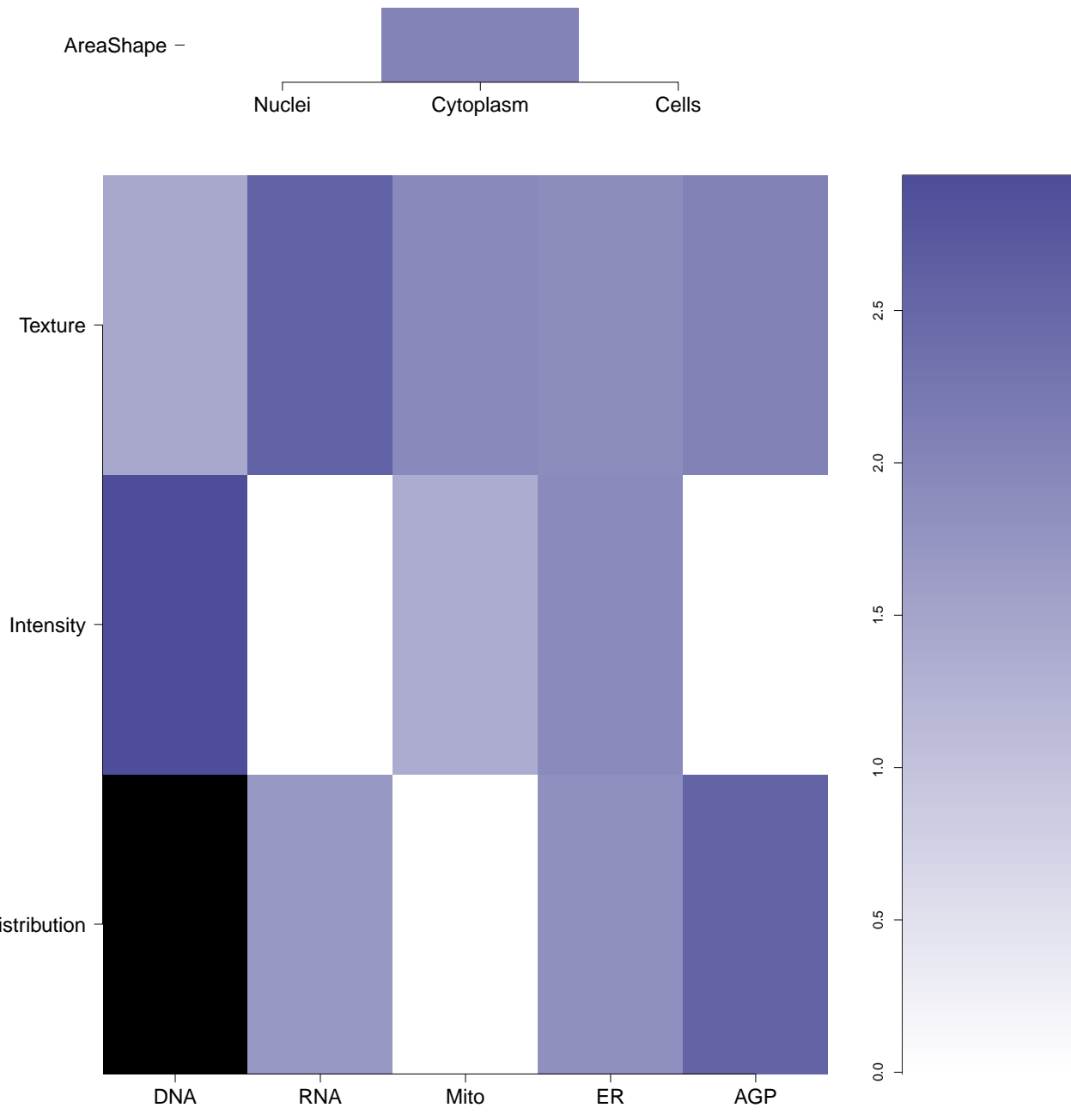

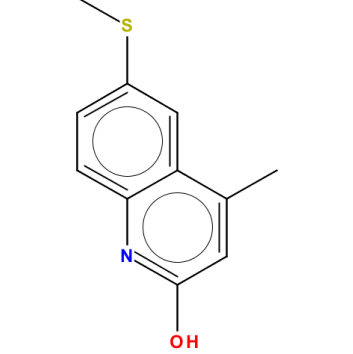
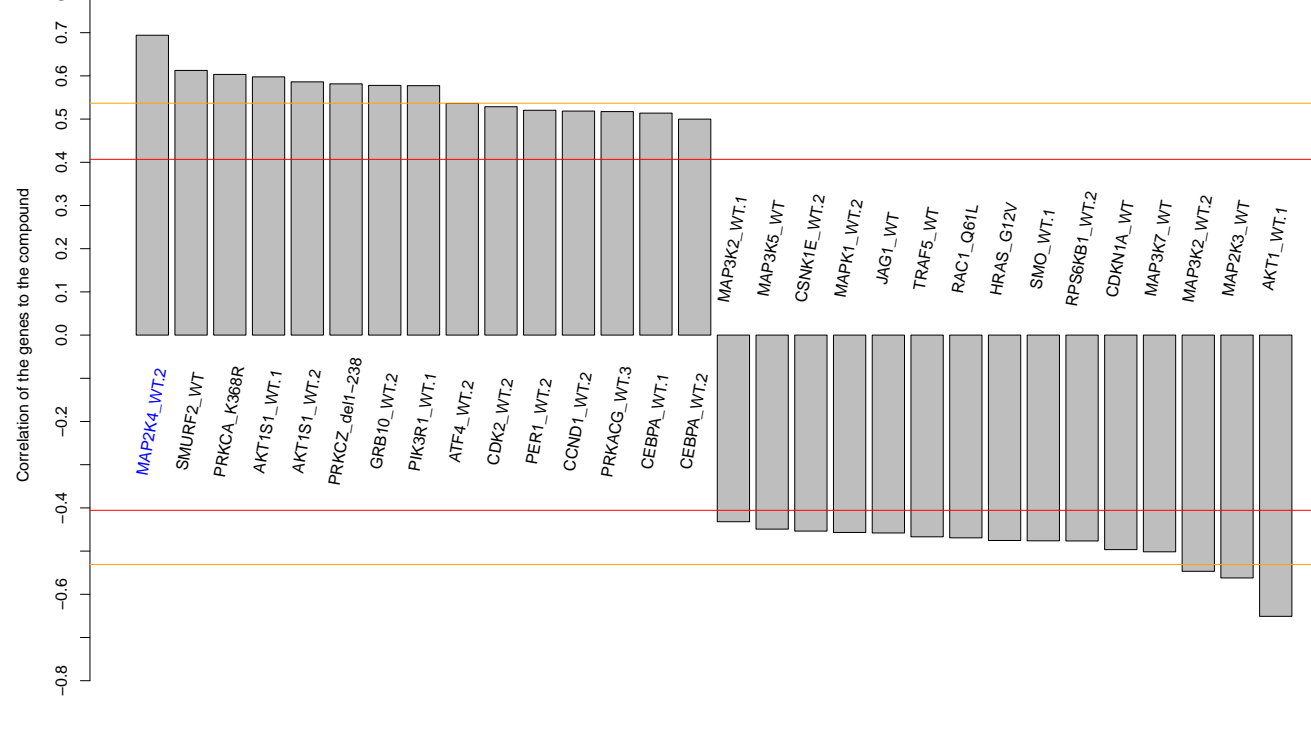
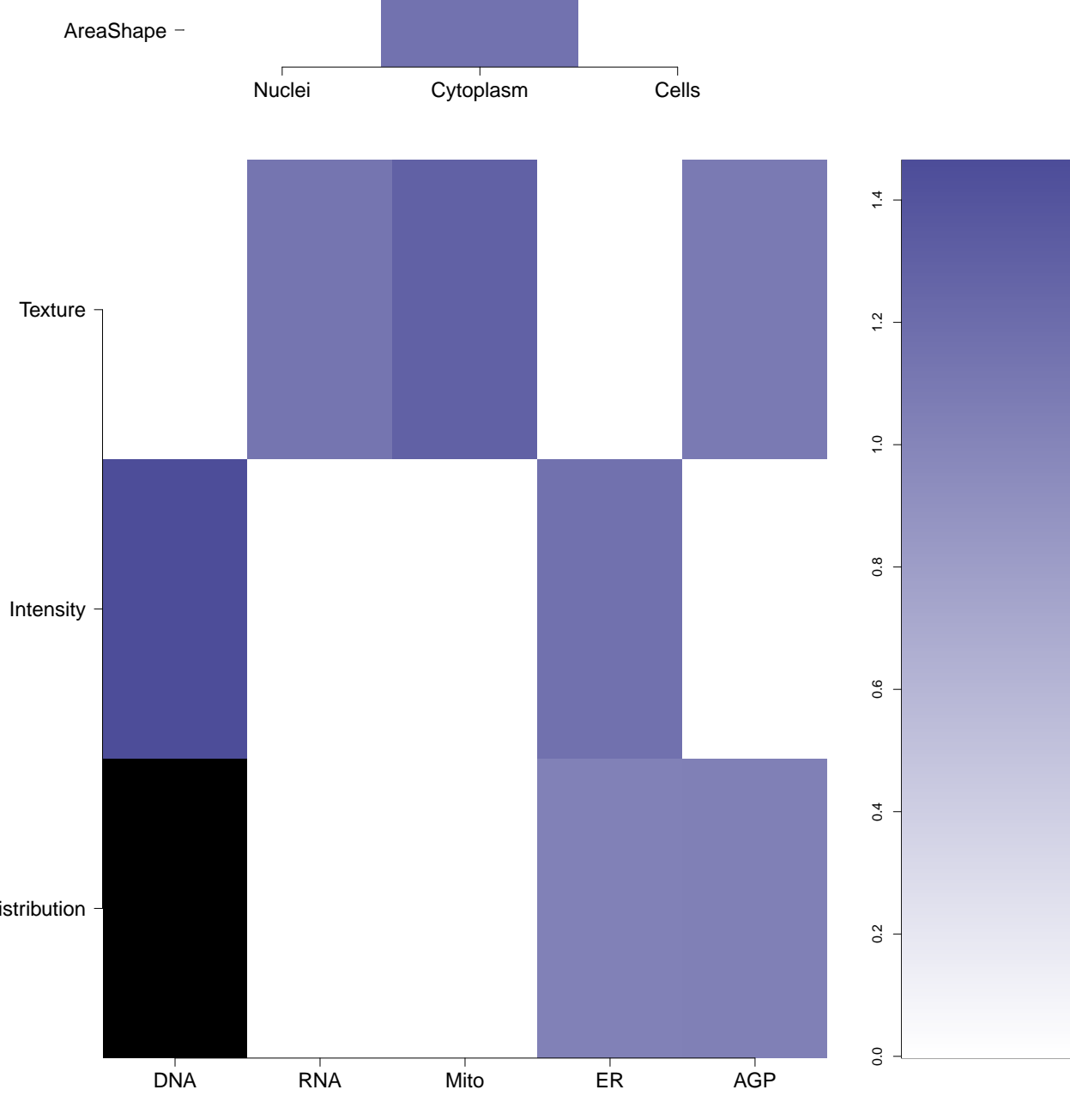
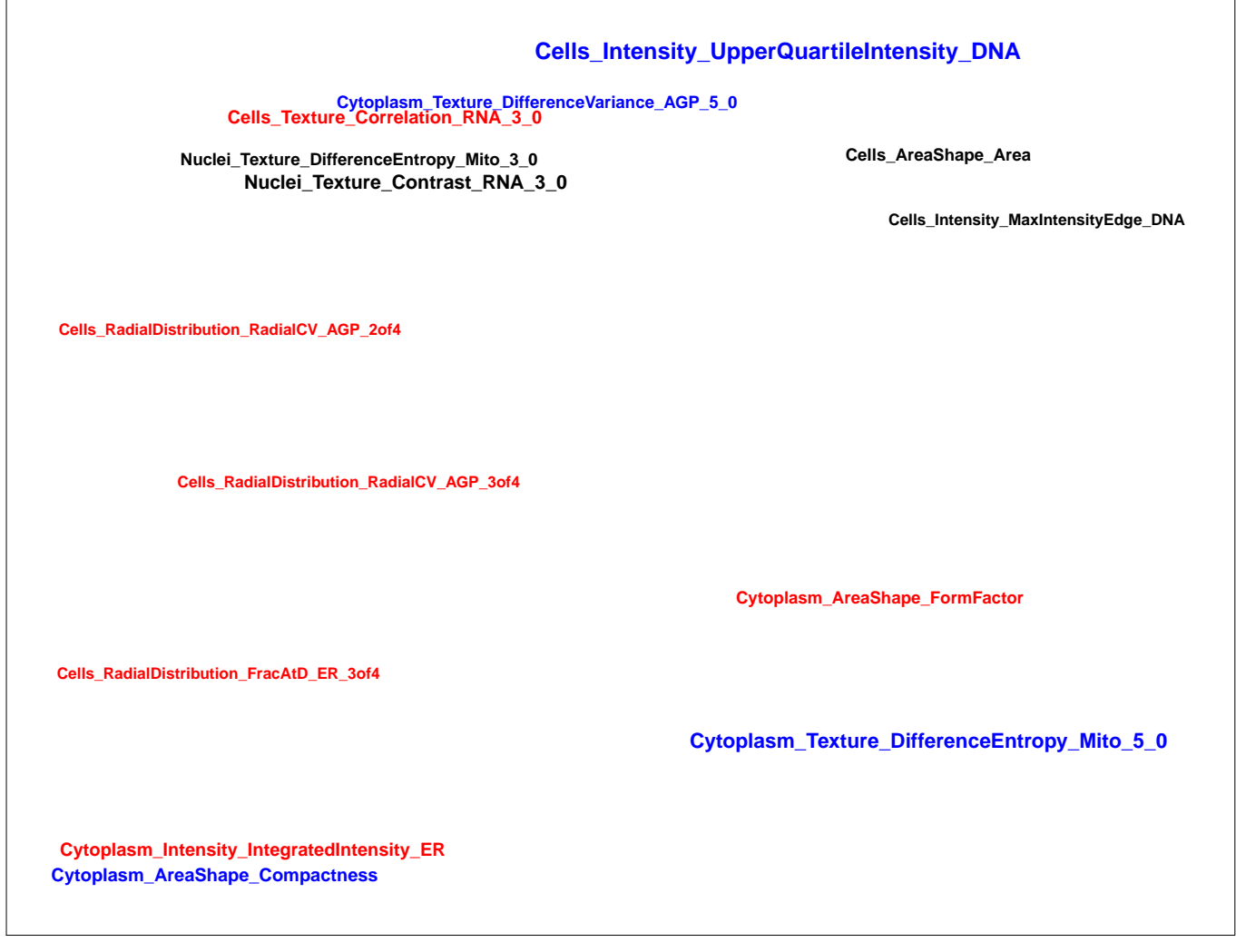
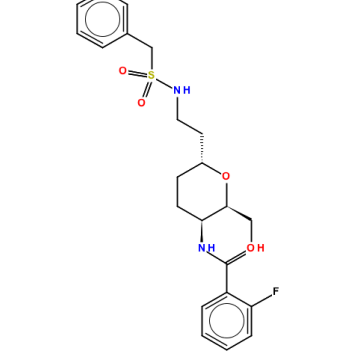
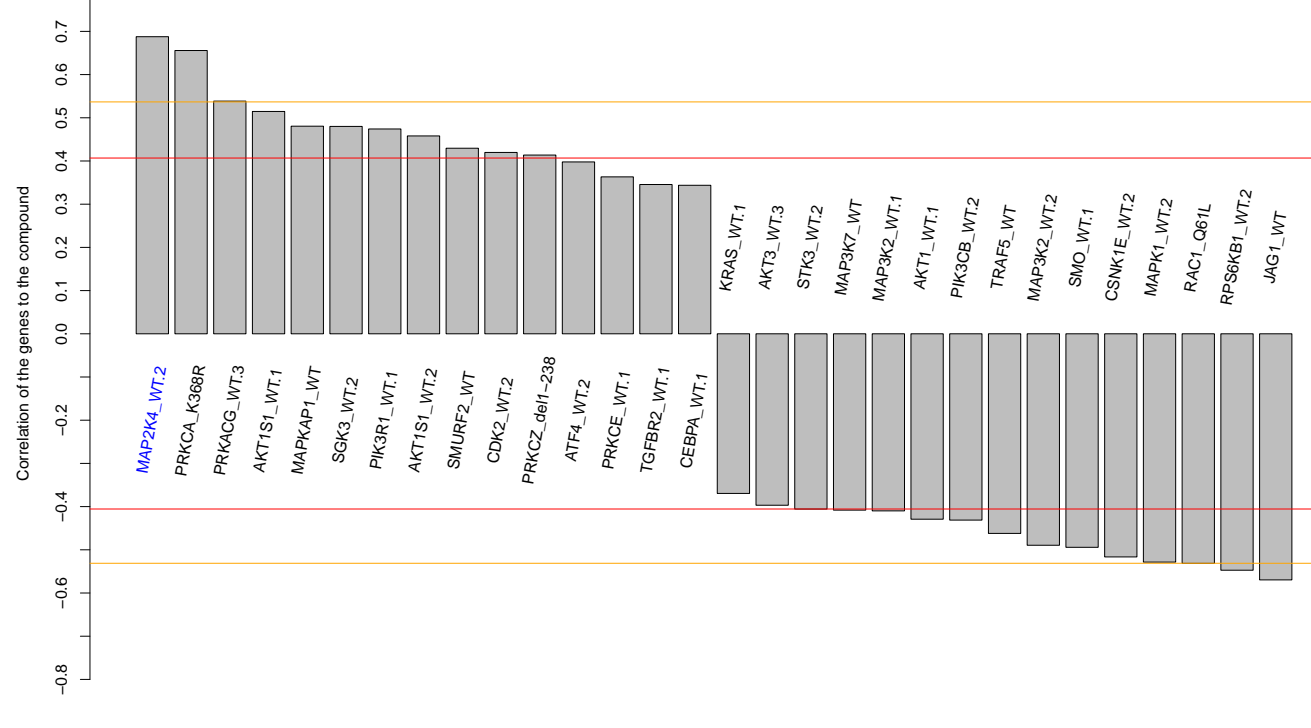
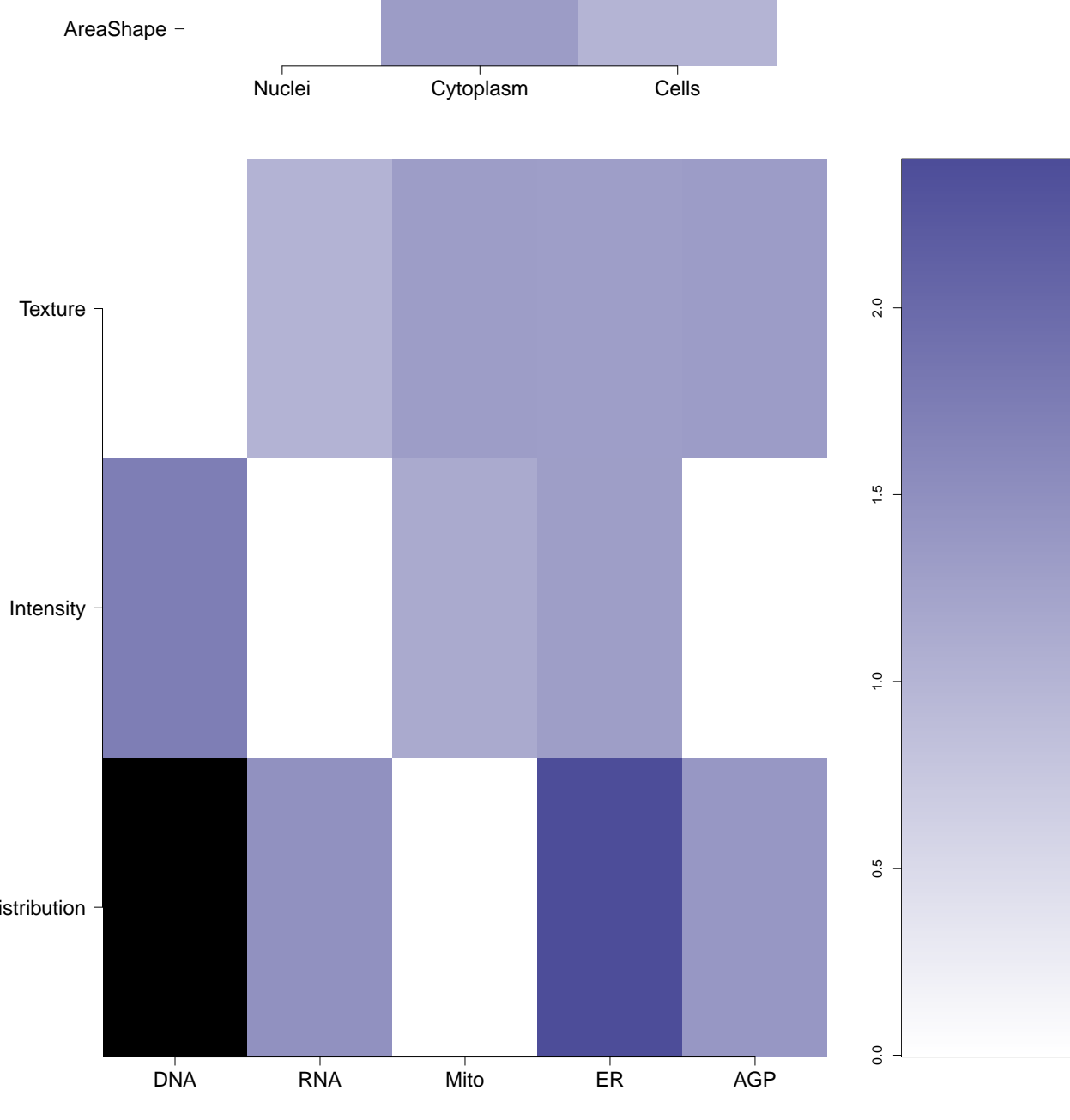
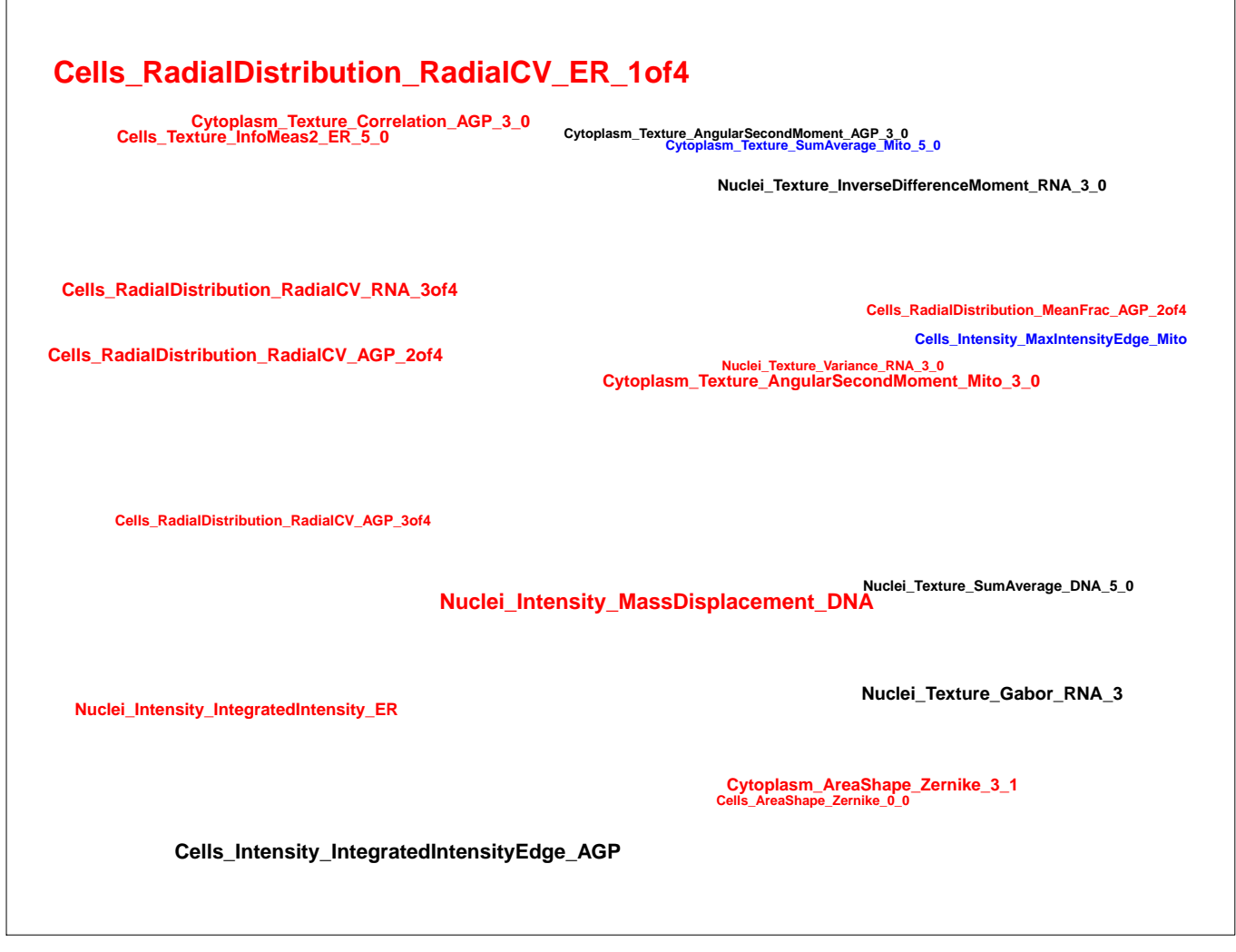
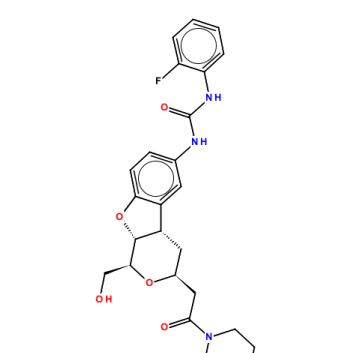
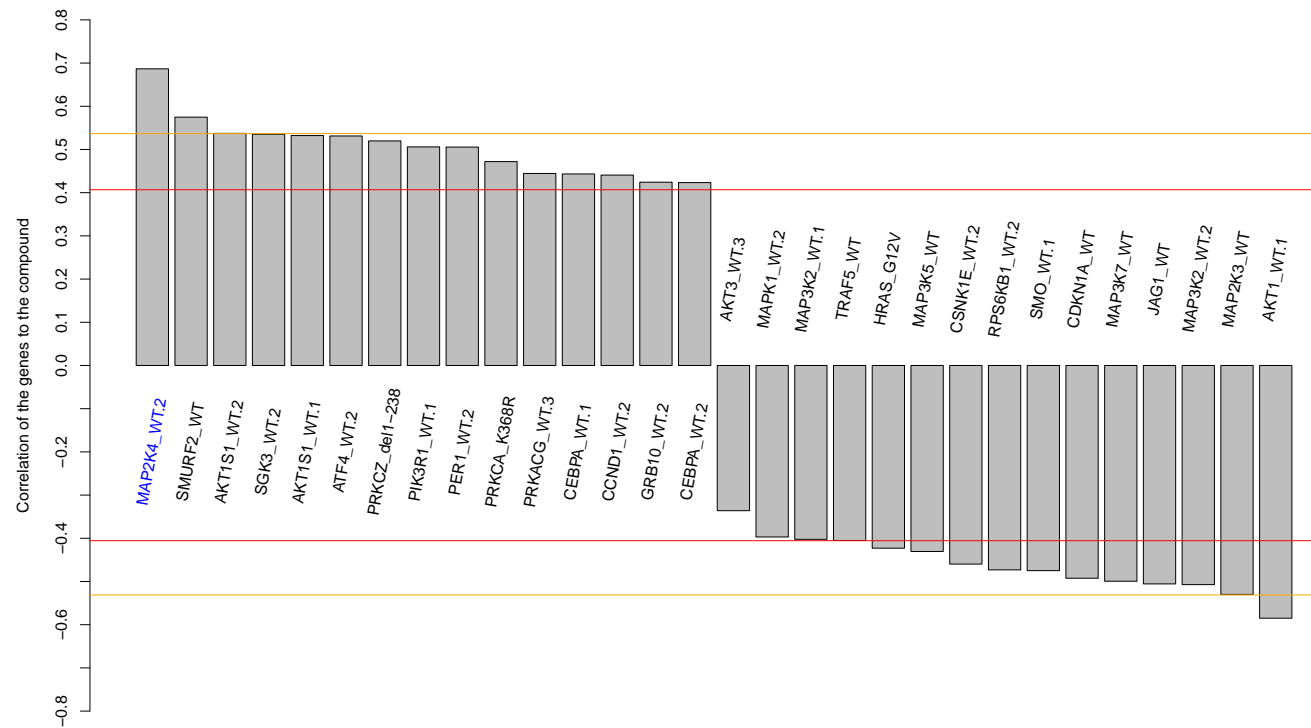
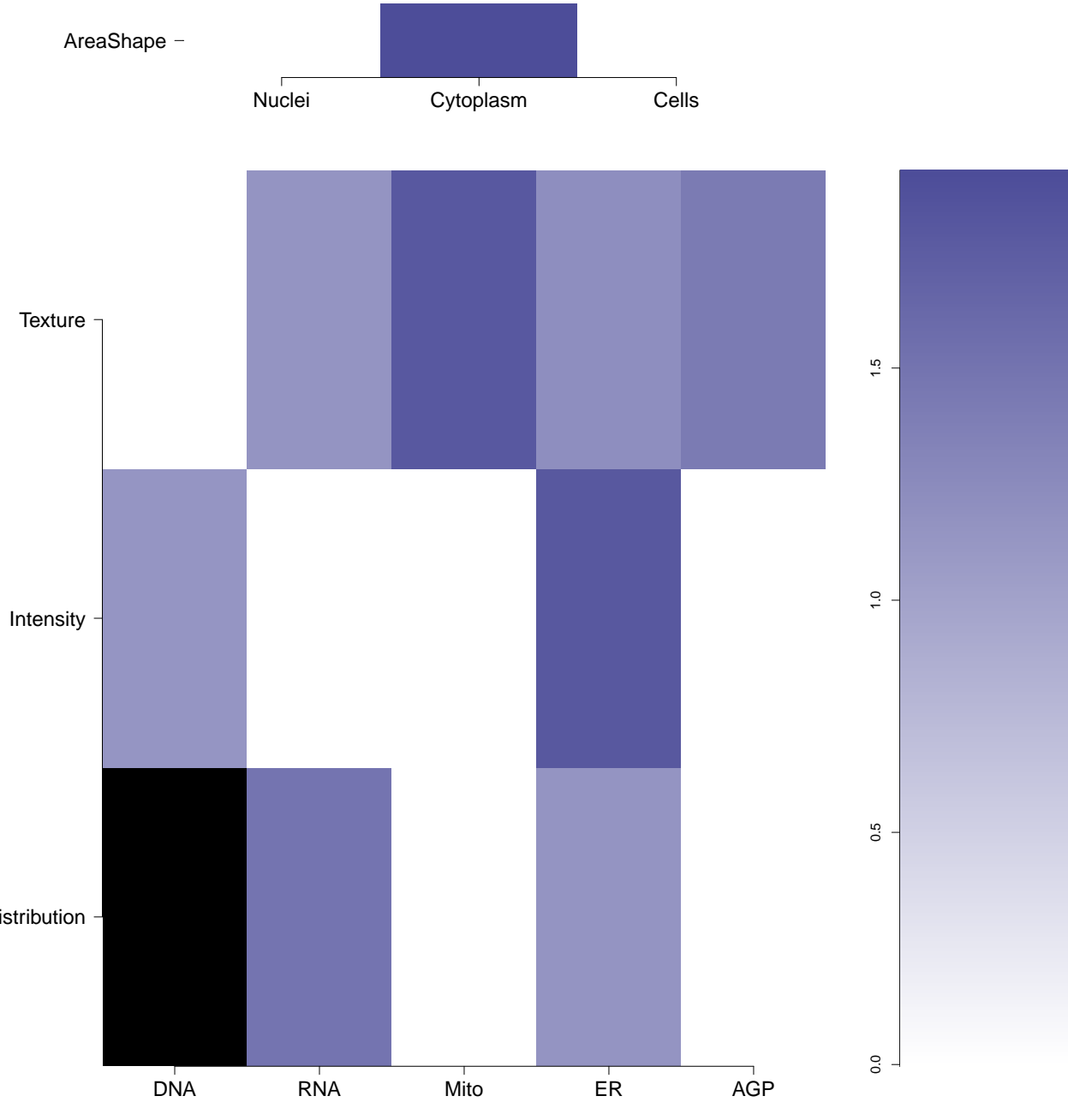
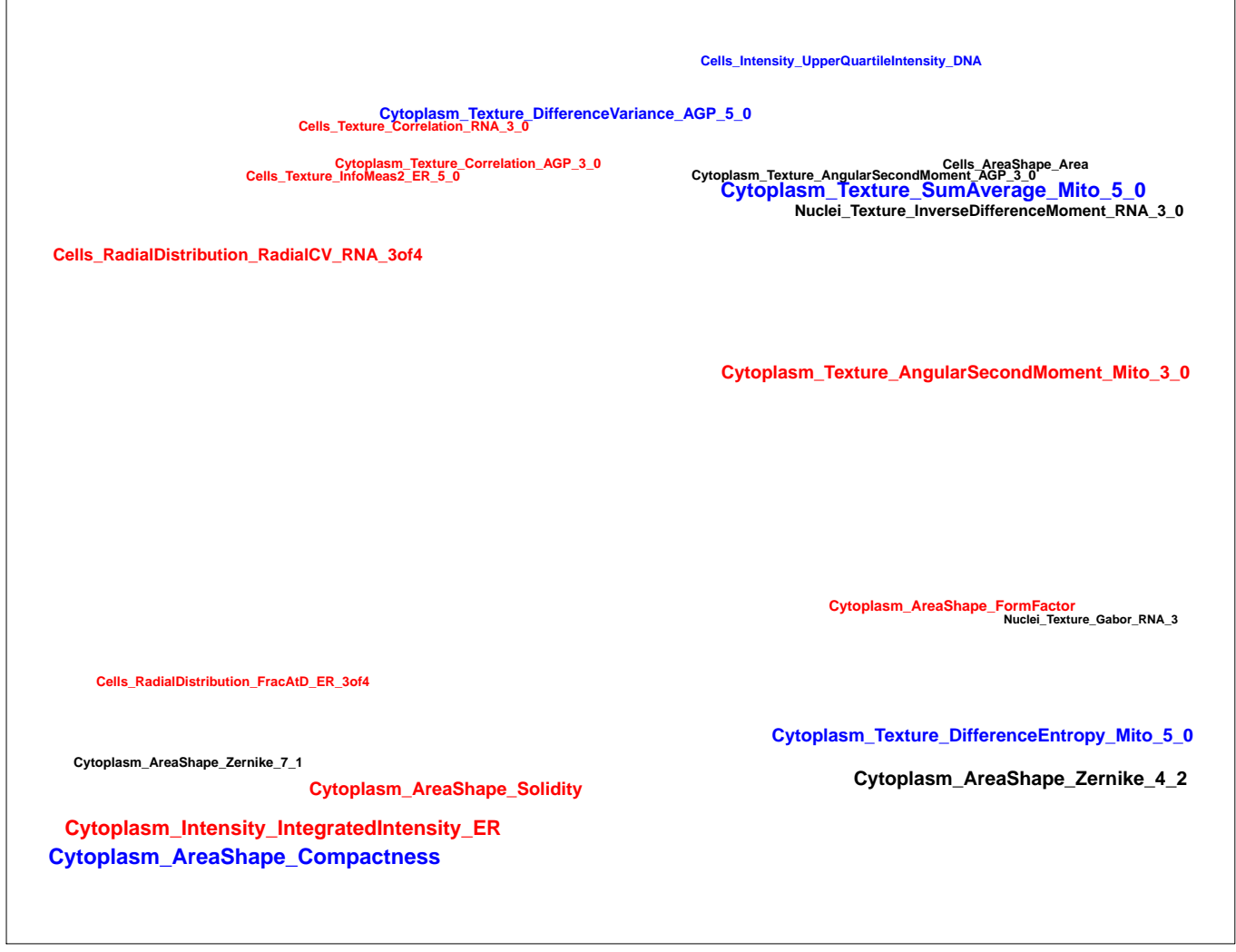
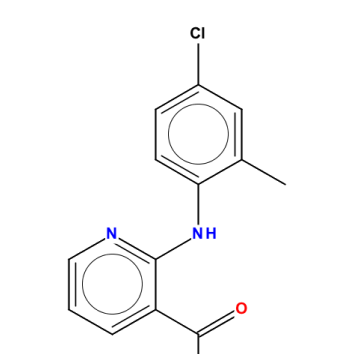
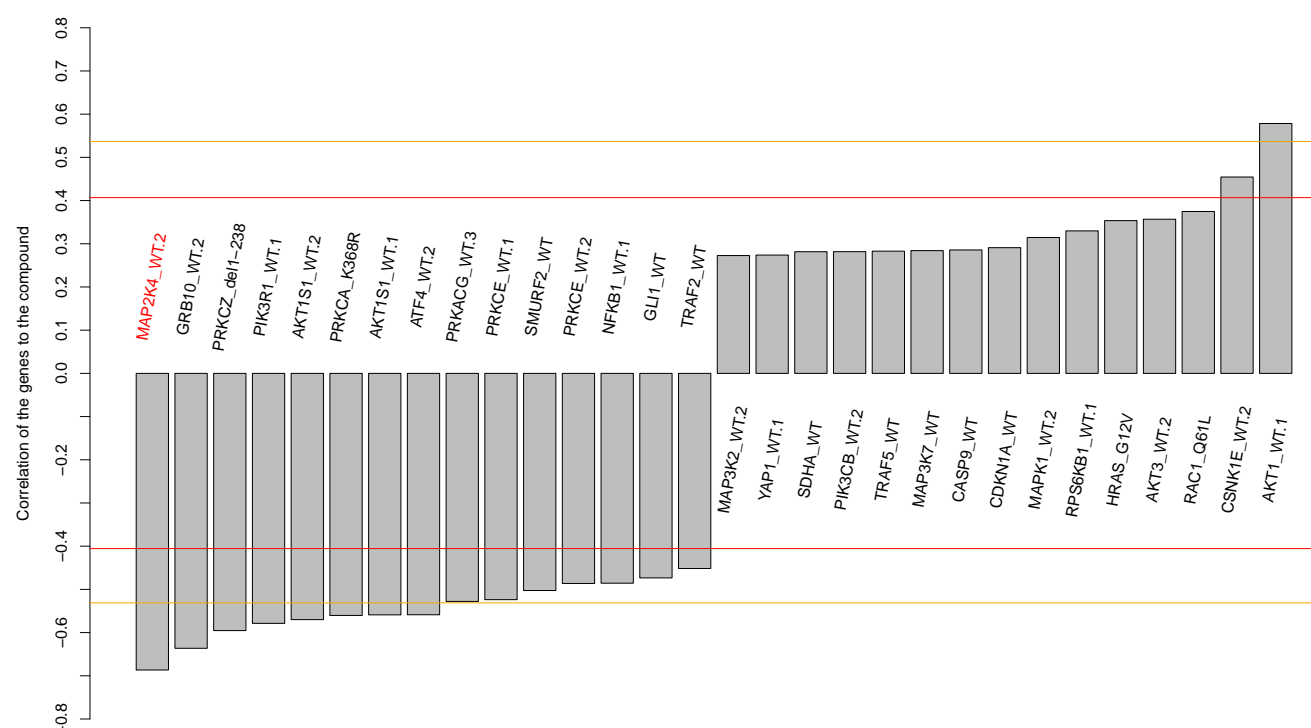
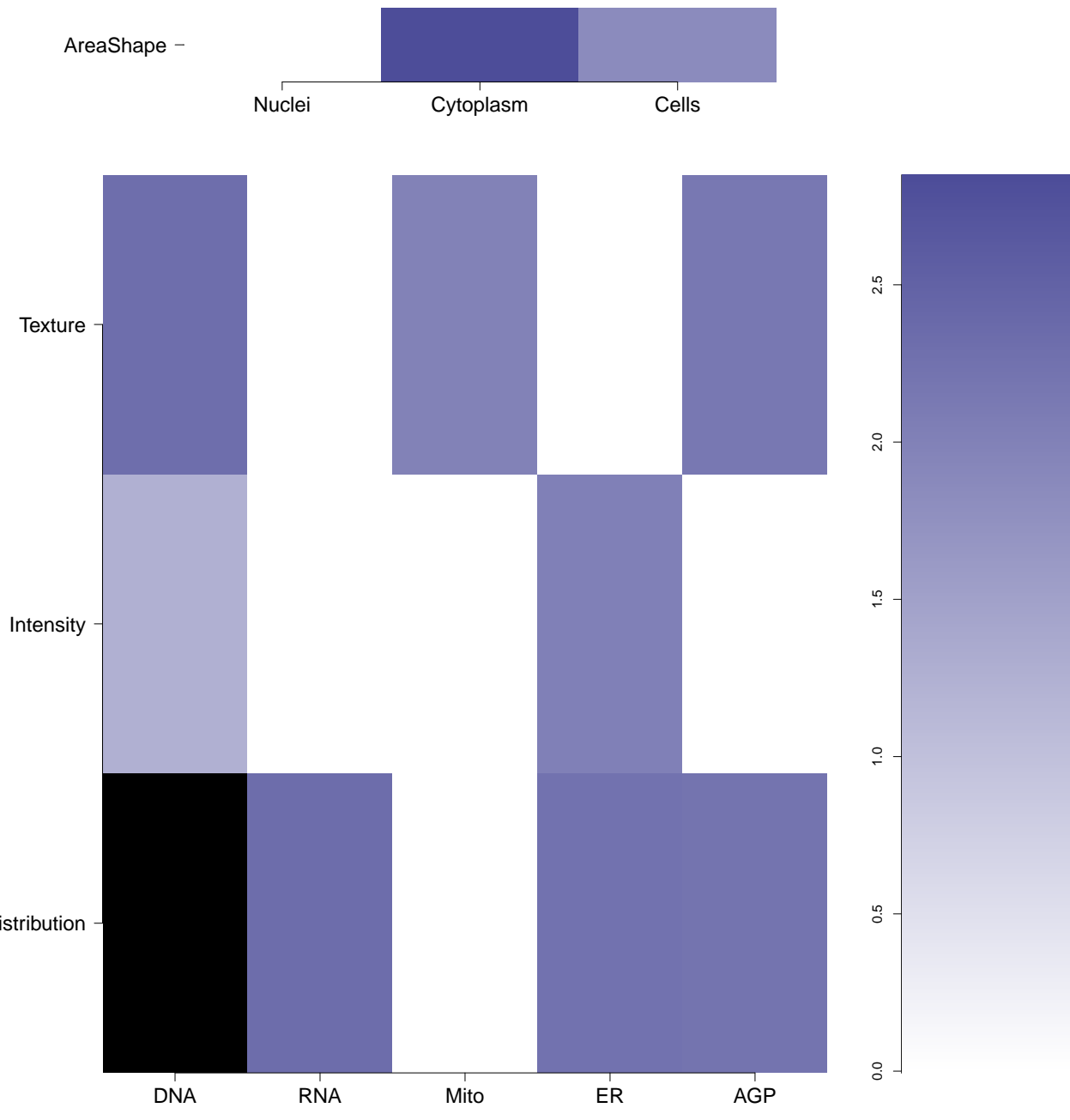

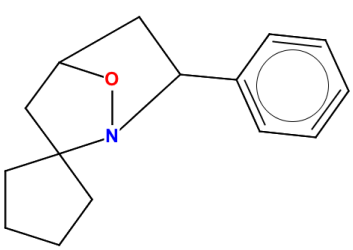
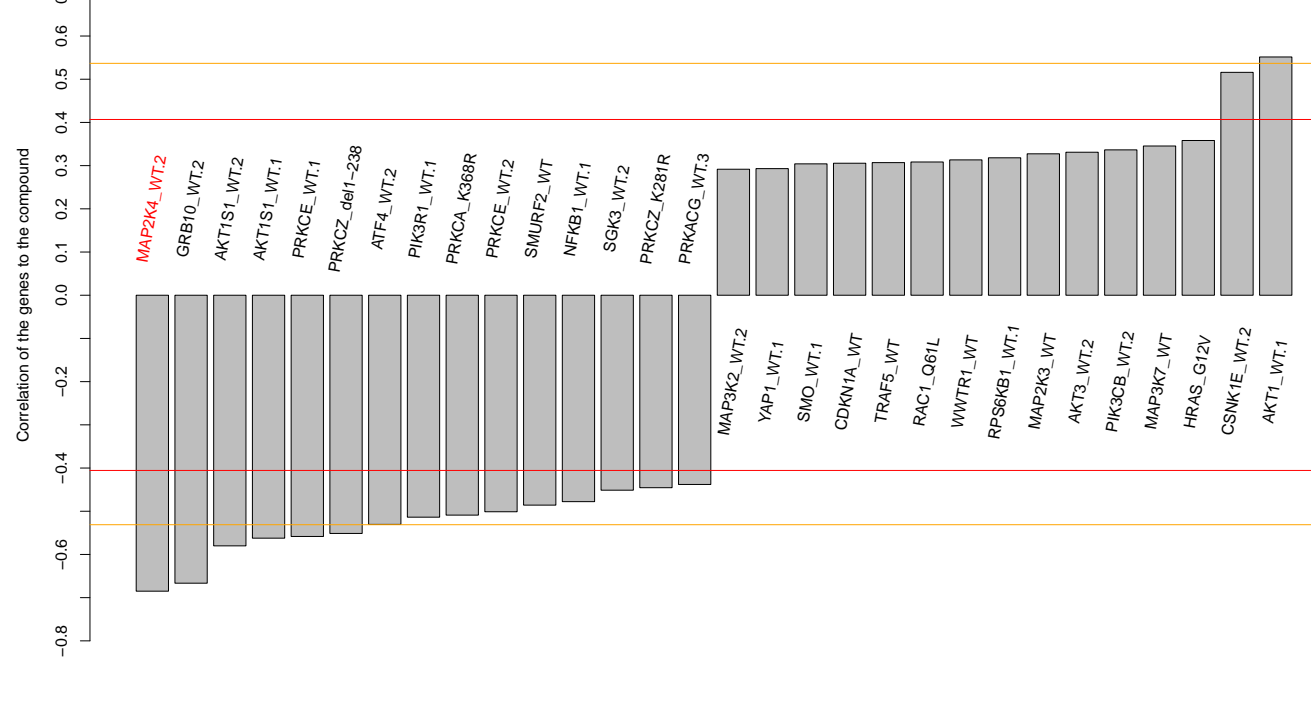
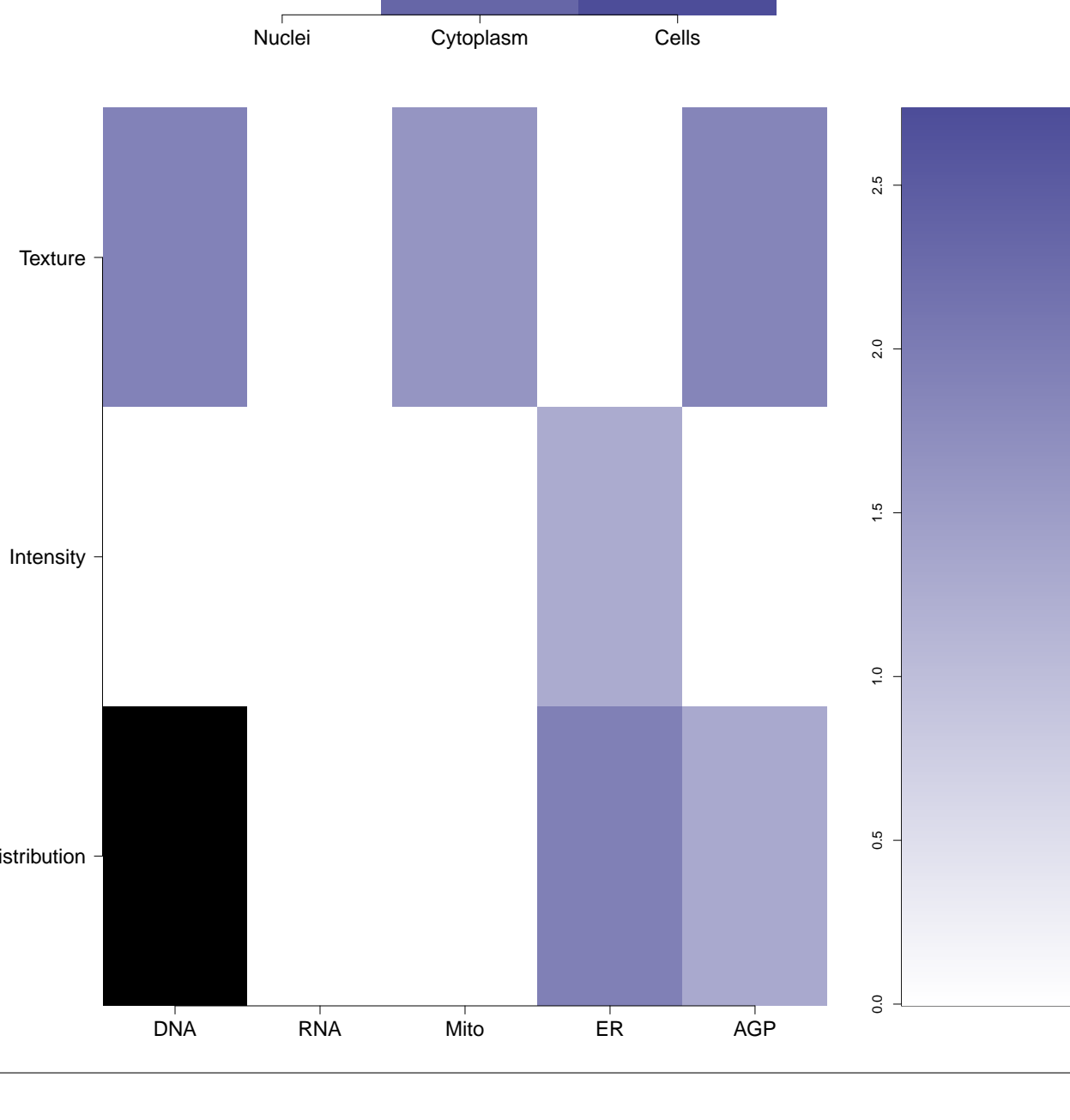



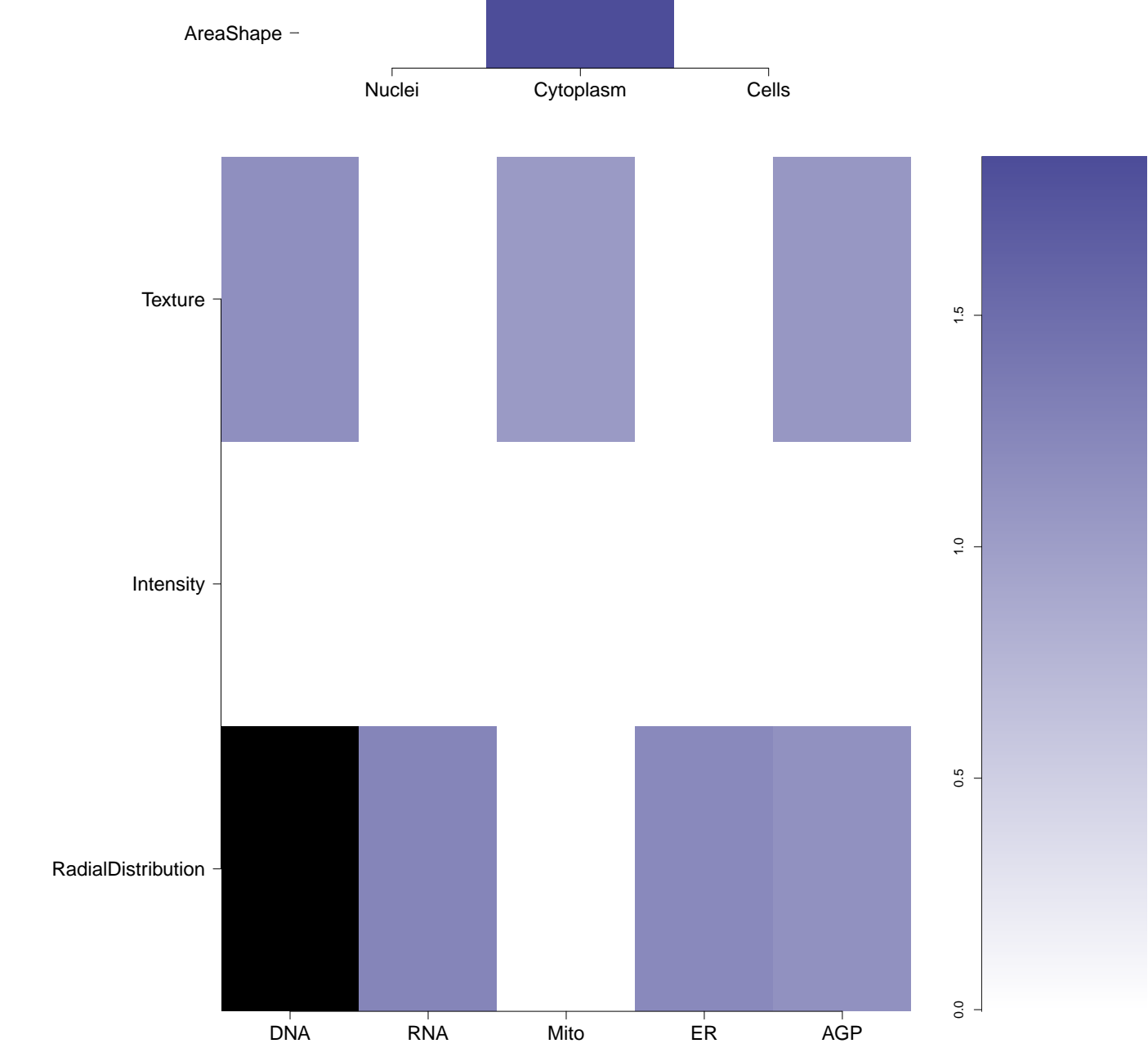
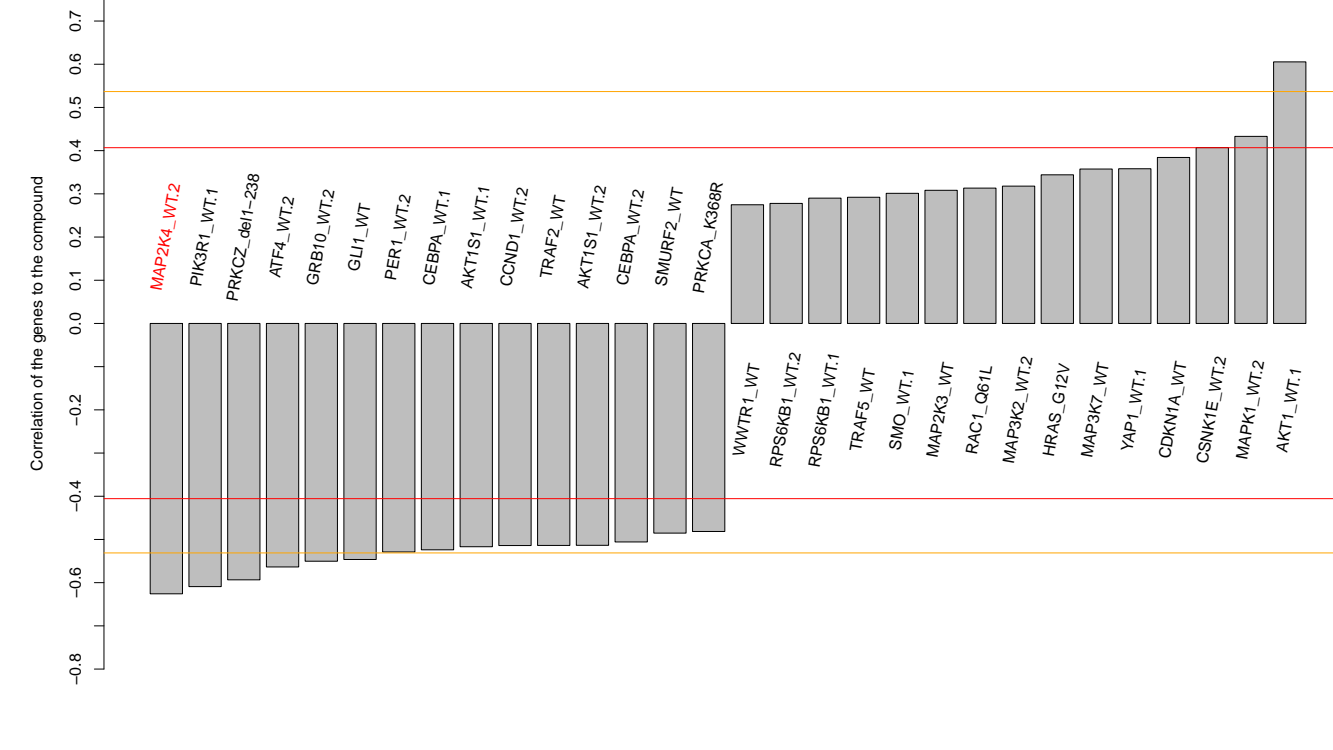
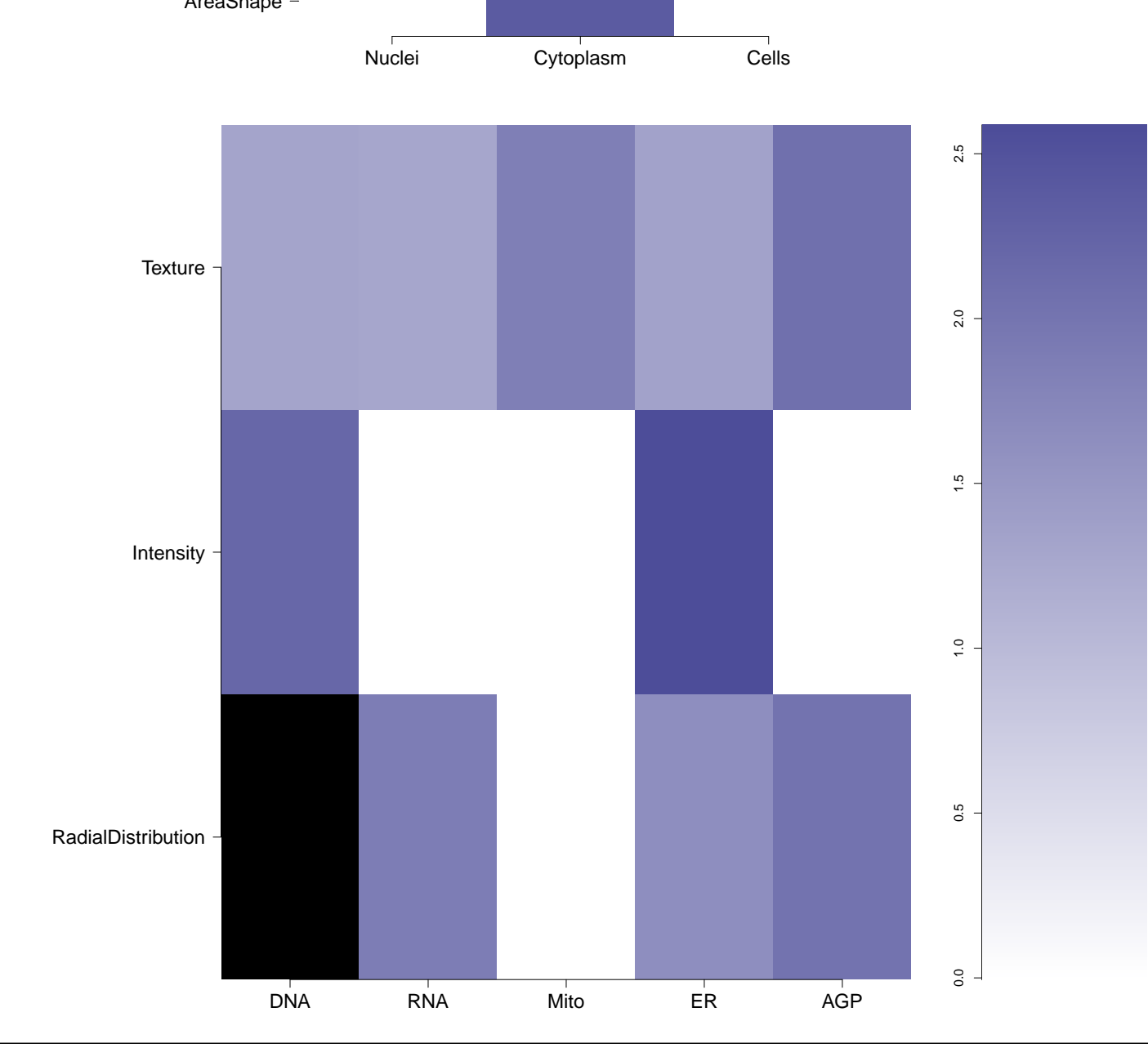
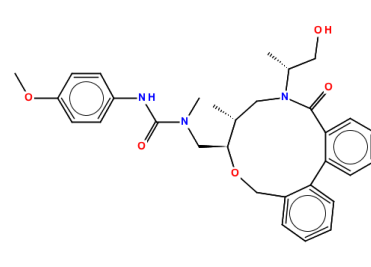
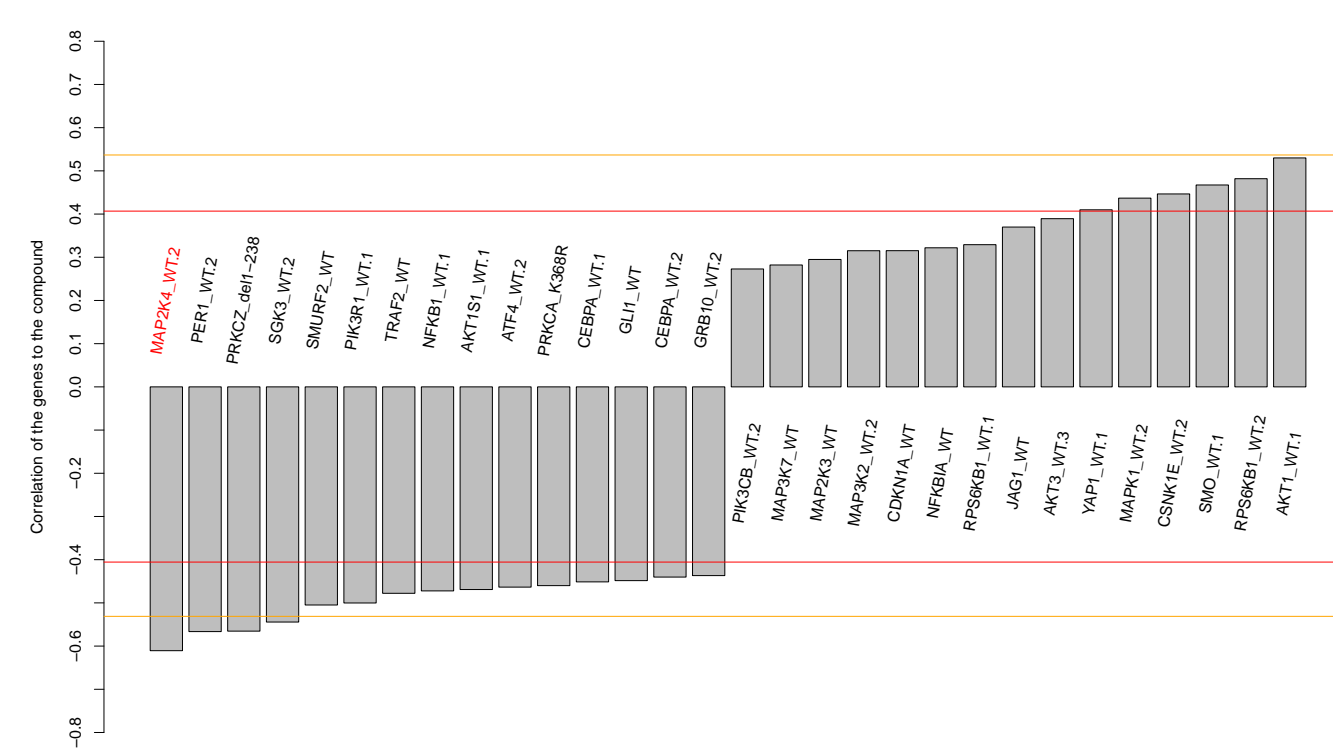
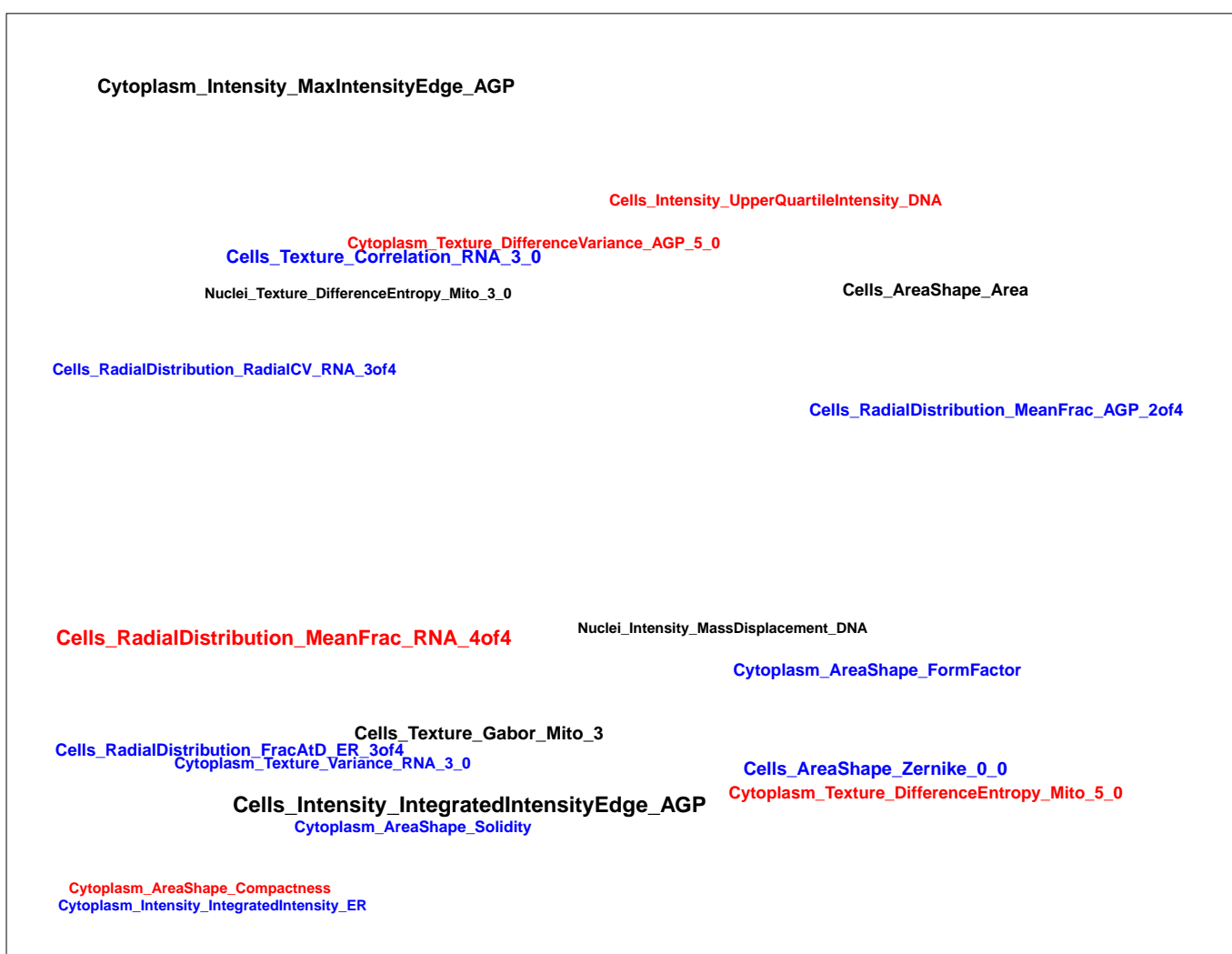
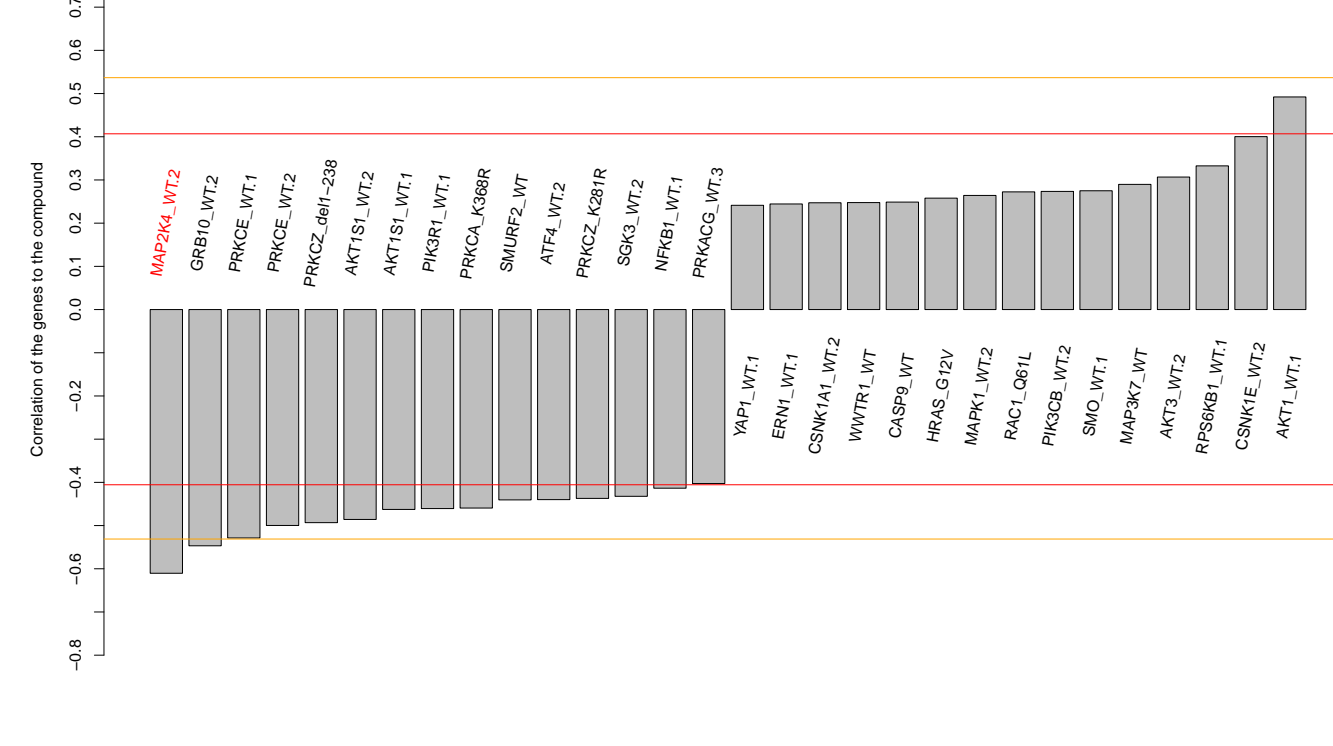

Mito



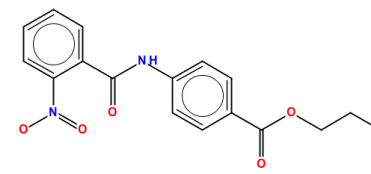
Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.52)	Correlation between compound 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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<div>BRD-K59496950-001-06-2</div> <div>SMR000008290</div> <div>AC1LDHEO</div> <div>ASN 08222509</div> <div>MLS000068187</div> <div>MLS002538128</div> <div>HMS2502P09</div> <div>ZINC1337997</div> <div>ZINC01337997</div> <div>PubChem CID : 648117</div>		NA (in 1 replicates)	0.76	NA				<div>Total number of assays tested in: 762. Active in the following assays:</div> <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)
<div>BRD-A02302336-001-05-9</div> <div>T5228533</div> <div>AC1O76PX</div> <div>HMS000761494</div> <div>HMS2771L16</div> <div>ZINC13598471</div> <div>SMR000371602</div> <div>PubChem CID : 6520560</div>		NA (in 1 replicates)	0.74	NA				<div>Total number of assays tested in: 762. Active in the following assays:</div> <ul style="list-style-type: none">• A Cell Based HTS Approach for the Discovery of New Inhibitors of Respiratory syncytial virus (RSV) (AID 2391)
<div>BRD-A04599535-003-05-3</div> <div>SMR00004833</div> <div>AC1O7EWO</div> <div>MLS000029919</div> <div>MLS002534451</div> <div>PubChem CID : 6602651</div>		NA (in 1 replicates)	0.73	NA				<div>Total number of assays tested in: 752. Active in the following assays:</div> <ul style="list-style-type: none">• CYP2C19 Assay (AID 778)• qHTS Assay for Agonists of the Thyroid Stimulating Hormone Receptor: Activators of Intracellular cAMP Concentrations in Parental HEK 293 (AID 938)• uHTS of Mel-1/Bid interaction inhibitors (AID 1021)• Fluorescence-based primary cell-based high throughput screening assay to identify antagonists of the G-protein coupled receptor 7 (GPR7). (AID 1861)
<div>BRD-K54768399-001-05-0</div> <div>AC1MJYTX</div> <div>BAS 03150481</div> <div>MLS001210472</div> <div>HMS1371E16</div> <div>HMS2820H13</div> <div>ZINC4151963</div> <div>CCG-19476</div> <div>ZINC04151963</div> <div>SMR000518311</div> <div>ST50451353</div> <div>PubChem CID : 3145514</div>		NA (in 1 replicates)	0.71	NA				<div>Total number of assays tested in: 517. Active in the following assays:</div> <ul style="list-style-type: none">• Fluorescence-based biochemical primary high throughput screening assay to identify inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 588726)• Fluorescence-based biochemical high throughput confirmation assay for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 651616)• uHTS identification of inhibitors of cullin neddylation in a TR-FRET assay (AID 651699)• Counterscreen for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis: Fluorescence-based biochemical high throughput Glyceraldehyde Dehydrogenase-Trisphosphate Isomerase (GDH-TPI) assay to identify assay artifacts (AID 652141)• qHTS for Inhibitors of KCHV2 3.1: Mutant qHTS (AID 720553)
<div>BRD-A20185529-001-05-3</div> <div>MLS000730302</div> <div>HMS2766K06</div> <div>SMR000308578</div> <div>EU-0057391</div> <div>PubChem CID : 15996185</div>		NA (in 1 replicates)	0.71	NA				<div>Total number of assays tested in: 638. Active in the following assays:</div> <ul style="list-style-type: none">• Multiplex HTS Assay for Inhibitors of MEK Kinase PB1 Domains, specifically MEK5 MEK Kinase 2 mutant (AID 1530)• Multiplex HTS Assay for Inhibitors of MEK Kinase PB1 Domains, specifically MEK5 binding to MEK Kinase 2 Wildtype (AID 1531)• qHTS Assay for Activators of Human alpha-Glucosidase as a Potential Chaperone Treatment of Pompe Disease (AID 2242)• 384-well Z-Lyte format Hek-Nef inhibitor HTS run at the PMLSC (AID 463187)• Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 48 hour incubation (AID 504832)• Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834)• 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 human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)• qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaISA Primary Screen (AID 743279)
<div>BRD-K62269054-001-01-4</div> <div>PubChem CID : 54641204</div>		NA (in 1 replicates)	0.70	NA				<div>Total number of assays tested in: 37.</div>

BRD-K13145947-001-05-8 BAS 07778938 AC1LLV0M MLS000527848 HMS2165L24 HMS3311K20 STL336981 ZINC18189276 SMR000120422 PubChem CID : 1090776		NA (in 1 replicates)	0.69	NA				<p>Total number of assays tested in: 682. Active in the following assays:</p> <ul style="list-style-type: none"> Luminescent assay for HTS discovery of chemical activators of placental alkaline phosphatase (AID 696) qHTS Assay for Inhibitors of HPGD (15-Hydroxyprostaglandin Dehydrogenase) (AID 894) nHTS of McI-1/Noxa interaction inhibitors (AID 1022) qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490) nHTS absorbance assay for the identification of compounds that inhibit PHOSPHOI (AID 1565) A biochemical assay using the ADP-Hunter methodology, purified TAG, and ATP to identify compounds that inhibit the ATPase activity of Tag - Counter Screen (AID 2501) Luminescence-based primary cell-based high throughput screening assay to identify inhibitors of the orphan nuclear receptor sub-family 0, group B, member 1 (DAX1; NR0B1) (AID 504766) HTS for suppressors of simvastatin-induced myotoxicity in differentiated C2C12 cells Measured in Cell-Based System Using Plate Reader - 2112-01 Suppressor.SinglePoint.HTS.Activity (AID 602340) Primary cell-based high-throughput screening for identification of compounds that activate/potentiate calcium-activated chloride channels (TMEM16A) (AID 623877) qHTS of D3 Dopamine Receptor Antagonist: qHTS (AID 652054) qHTS for Inhibitors of phosphatidylinositol 5-phosphate 4-kinase (PI5P4K) (AID 652105) Development of Small Molecule Probes of the Histone Methyltransferase, NSD2 Measured in Biochemical System Using Plate Reader - 7053-01.Inhibitor.SinglePoint.HTS.Activity.Set2 (AID 743445)
BRD-K90692821-001-05-6 STK632947 BAS 00898395 AC1LCOWB MLS000031732 HMS2299B24 ZINC8716787 ZINC08716787 SMR000009689 PubChem CID : 653661		NA (in 1 replicates)	0.69	NA				<p>Total number of assays tested in: 776. Active in the following assays:</p> <ul style="list-style-type: none"> qHTS Assay for Inhibitors of HADH2 (Hydroxyacyl-Coenzyme A Dehydrogenase, Type II) (AID 886) qHTS Assay for Inhibitors of HSD17B4, hydroxysteroid (17-beta) dehydrogenase 4 (AID 893) qHTS Assay for Activators of ClpP (AID 651965)
BRD-K78246835-001-01-0 PubChem CID : 54641306		NA (in 1 replicates)	0.69	NA				<p>Total number of assays tested in: 38. Active in the following assays:</p> <ul style="list-style-type: none"> MLPCN Sirt-5 Measured in Biochemical System Using Imaging - 7044-01.Inhibitor.SinglePoint.HTS.Activity.Set5 (AID 652115)
BRD-K18001731-001-01-7 PubChem CID : 54646091		NA (in 1 replicates)	0.69	0.742				<p>Total number of assays tested in: 41.</p>
BRD-K39858575-001-05-5 ZINC00481288 AC1LICN6 MLS000701602 HMS2588K19 ZINC481288 SMR000226867 PubChem CID : 901918		0.87 (in 4 replicates)	-0.69	0.288				<p>Total number of assays tested in: 645. Active in the following assays:</p> <ul style="list-style-type: none"> Primary cell-based high throughput screening assay to measure STAT1 activation (AID 932) qHTS Assay for Enhancers of SMN2 Splice Variant Expression (AID 1458) MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) qHTS Assay for Modulators of miRNAs and/or Inhibitors of miR-21 (AID 2289) Cycloheximide Countercreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) Primary cell-based high-throughput screening assay for identification of compounds that inhibit regulator of G-protein signaling 4 (RG4) (AID 463165) Validation assay for identification of compounds that inhibit the regulator of G-protein signaling 4 (RG4) (AID 492999) Luminescence-based primary cell-based high throughput screening assay to identify inhibitors of the orphan nuclear receptor sub-family 0, group B, member 1 (DAX1; NR0B1) (AID 504766) qHTS profiling assay for firefly luciferase inhibitor/activator using purified enzyme and Km concentrations of substrates (countercreen for miR-21 project) (AID 588342) qHTS Assay to Identify Small Molecule Activators of BRCA1 Expression (AID 624202)
BRD-A09115727-001-05-5 AC1MJ6Y4 MLS000106846 HMS1613C12 HMS2483B22 CCG-8375 BAS 00443100 SMR00011222 PubChem CID : 3107523		0.79 (in 4 replicates)	-0.69	0.090				<p>Total number of assays tested in: 773. Active in the following assays:</p> <ul style="list-style-type: none"> 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) Confirmation Assay for Identification of Novel General Anesthetics (AID 489008) Fluorescence polarization-based cell-based primary high throughput screening assay to identify activators of insulin-degrading enzyme (IDE) (AID 493887)

<p>BRD-A57762296-001-05-6</p> <p>AC1NMVVZ</p> <p>MLS000698218</p> <p>HMS2519113</p> <p>STL400806</p> <p>SMR000227890</p> <p>ST50709480</p> <p>PubChem CID : 5016927</p>		<p>0.72 (in 4 replicates)</p>	<p>-0.67</p>	<p>0.214</p>				<p>Total number of assays tested in: 641. Active in the following assays:</p> <ul style="list-style-type: none"> • uHTS luminescence assay for the identification of compounds that inhibit NOD1 (AID 1578) • Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of the plasma platelet activating factor acetylcholinesterase (pPAFAH) (AID 46382) • HTS Assay for Allosteric Antagonists of the Human D2 Dopamine Receptor: Primary Screen for Antagonists (AID 485344)
<p>BRD-K28756469-001-05-3</p> <p>NSC283155</p> <p>AC1QIGVS</p> <p>AC1L88IG</p> <p>MLS000037904</p> <p>HMS2375K08</p> <p>ZINC3957330</p> <p>STL326994</p> <p>NSC-283155</p> <p>H117</p> <p>SMR000039669</p> <p>26543P</p> <p>PubChem CID : 323381</p>		<p>0.64 (in 3 replicates)</p>	<p>-0.65</p>	<p>NA</p>				<p>Total number of assays tested in: 814. Active in the following assays:</p> <ul style="list-style-type: none"> • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • Assay for HTS of G_i/Go-linked GPCRs using mGluR5: Primary Screening (AID 488969) • Primary cell-based screen for identification of compounds that inhibit the Choline Transporter (CHT) (AID 488975) • Confirmatory screen for compounds that inhibit the Choline Transporter (CHT) (AID 49321) • Dose responses of compounds that inhibit the Choline Transporter (CHT) - 5 point CRC (AID 504840) • Dose responses of compounds that inhibit the Choline Transporter (CHT) - 10 point CRC (AID 588401) • Activators of the GIRK family of Potassium Channels (GIRK1/2 Confirmatory) (AID 623911) • Confirmed inhibitors of the Choline Transporter (CHT) (AID 1053196)
<p>BRD-A64862239-001-05-5</p> <p>AC1MLMUM</p> <p>MLS000549745</p> <p>HMS2501E09</p> <p>ASN 05260372</p> <p>SMR000173039</p> <p>PubChem CID : 3197538</p>		<p>NA (in 1 replicates)</p>	<p>-0.64</p>	<p>NA</p>				<p>Total number of assays tested in: 661. Active in the following assays:</p> <ul style="list-style-type: none"> • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • qHTS Assay for Antagonists of the Neuropeptide S Receptor: cAMP Signal Transduction (AID 1461) • uHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346) • uHTS fluorescent assay for identification of inhibitors of ATG4B (AID 504462) • qHTS for inhibitors of binding or entry into cells for Marburg Virus (AID 540276) • Single concentration counterscreen of uHTS hits for ATG4B inhibitors in a Phospholipase A2 assay (AID 588402)
<p>BRD-K13587575-001-01-9</p> <p>PubChem CID : 54637864</p>		<p>0.65 (in 3 replicates)</p>	<p>-0.63</p>	<p>0.926</p>				<p>Total number of assays tested in: 43.</p>
<p>BRD-K47108422-001-01-9</p> <p>PubChem CID : 56835486</p>		<p>0.64 (in 3 replicates)</p>	<p>-0.61</p>	<p>0.345</p>				<p>Total number of assays tested in: 33.</p>
<p>BRD-K75207324-001-01-3</p> <p>PubChem CID : 56835370</p>		<p>0.76 (in 3 replicates)</p>	<p>-0.61</p>	<p>0.952</p>				<p>Total number of assays tested in: 33.</p>
<p>BRD-K90956468-001-05-3</p> <p>STK208640</p> <p>ZINC01079713</p> <p>AC1LOOVS</p> <p>MLS000684100</p> <p>HMS2735H22</p> <p>ZINC1079713</p> <p>SMR000295729</p> <p>PubChem CID : 1266802</p>		<p>0.63 (in 4 replicates)</p>	<p>-0.61</p>	<p>0.084</p>				<p>Total number of assays tested in: 636. Active in the following assays:</p> <ul style="list-style-type: none"> • qFRET-based primary biochemical high throughput screening assay to identify inhibitors of the Plasmodium falciparum M18 Aspartyl Aminopeptidase (PFMI8AAP). (AID 1822) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)

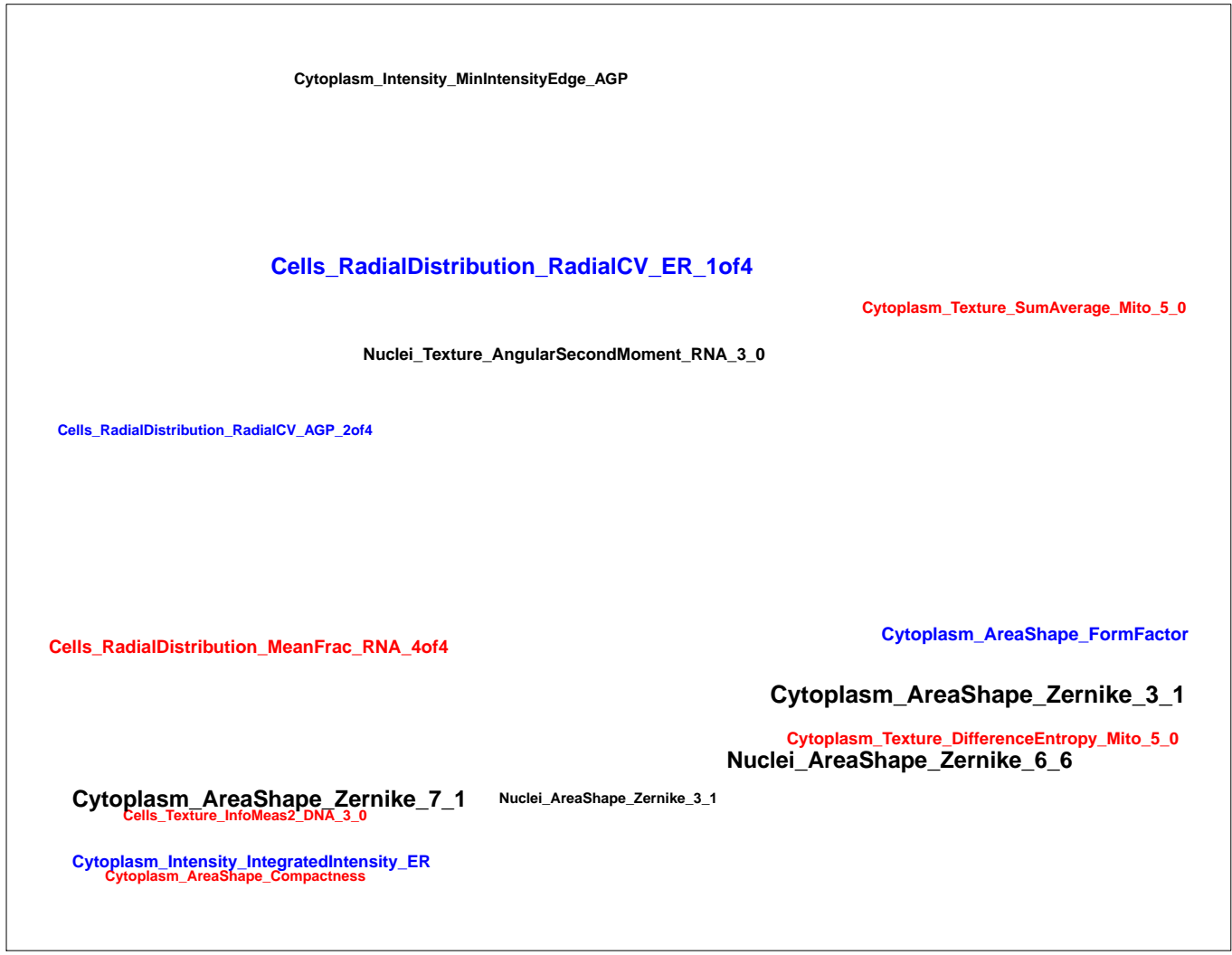
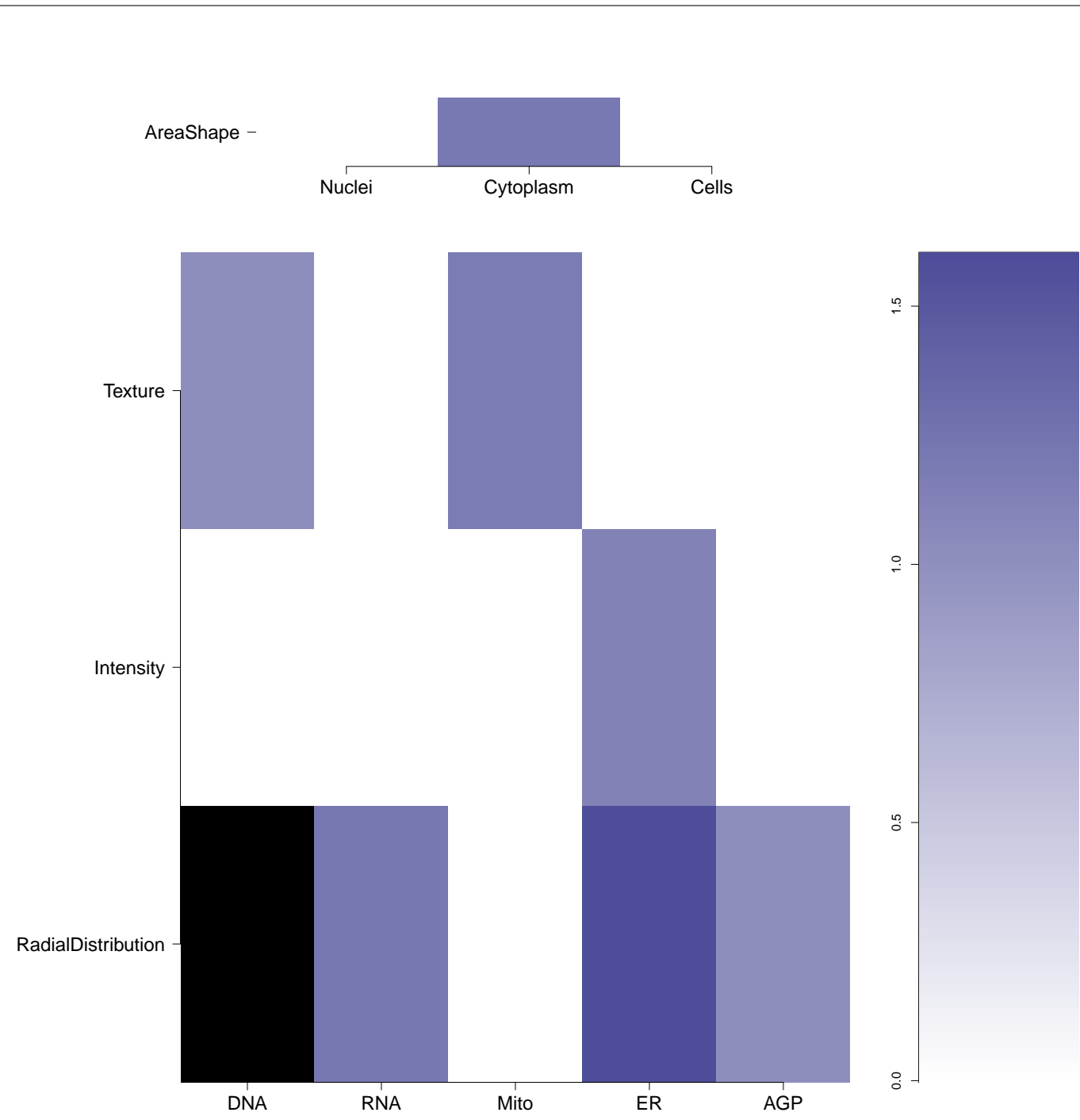
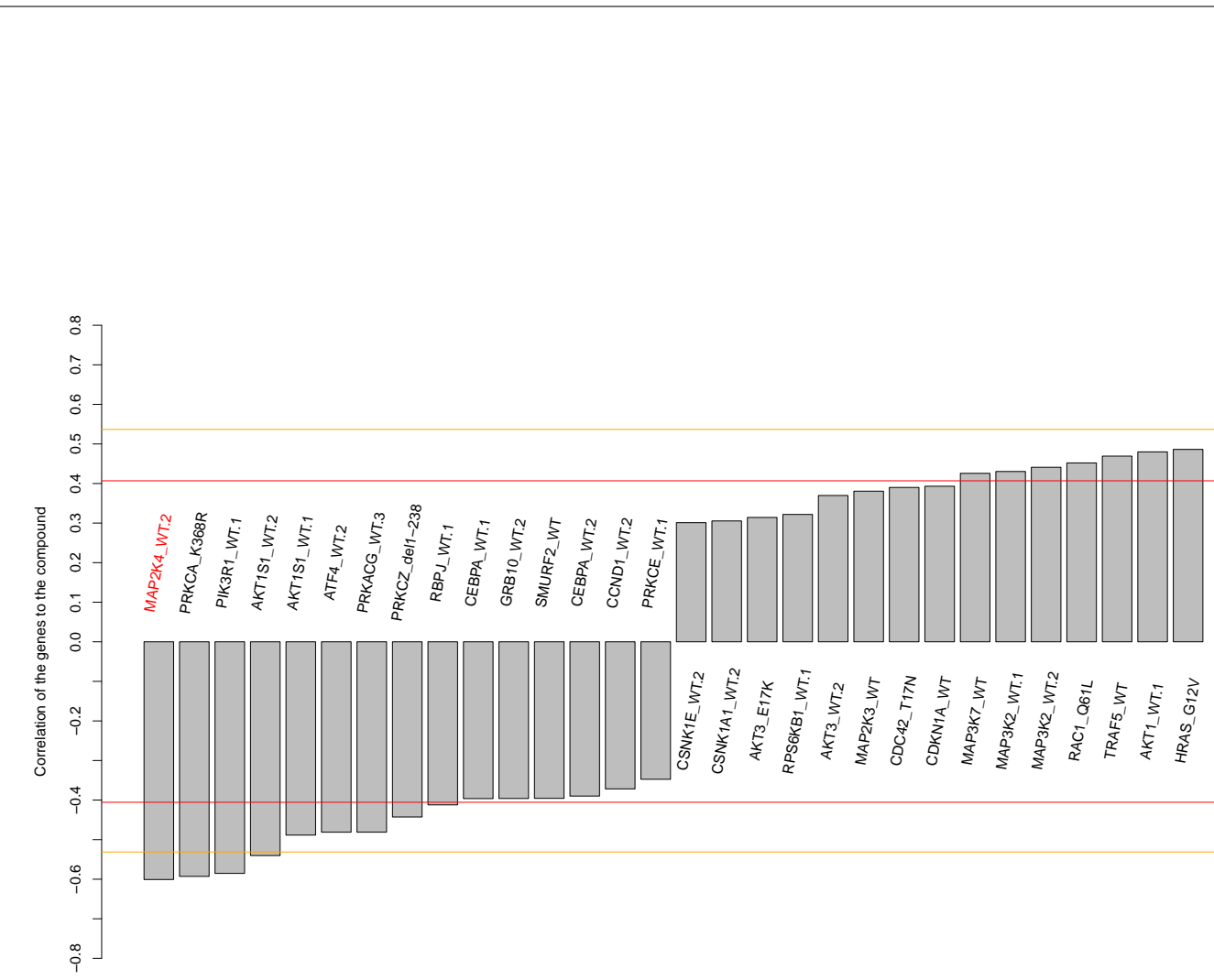
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KB-104881
EU-0036221
PubChem CID : 2164898



NA (in 1 replicates)

-0.60

NA



- Total number of assays tested in: 632. Active in the following assays:
- 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)
 - Primary cell-based screen for identification of compounds that inhibit the two-pore domain potassium channel KCNK9 (AID 488922)
 - Confirmatory screen for identification of compounds that inhibit the two-pore domain potassium channel KCNK9 (AID 492992)
 - Primary cell-based screen for identification of compounds that inhibit the two-pore domain potassium channel KCNK3 (AID 602410)
 - Confirmation assay for identification of compounds that inhibit the two-pore domain potassium channel KCNK3 [Primary Screening] (AID 651638)
 - Small Molecule Inhibitors of FGF22-Mediated Excitatory Synaptogenesis and Epilepsy Measured in Biochemical System Using RT-PCR - 7012-01 Inhibitor_SinglePoint.HTS Activity (AID 651658)