

Correlation of the gene to the other genes

How similar is this gene to the other genes?

Gene	Correlation
WWTR1_WT	1.00
YAP1_WT.4	0.72
YAP1_WT.1	0.68
YAP1_WT.3	0.62
YAP1_WT.2	0.58
NFKB1B_WT	0.53
TGFB2_WT.1	0.51
RBPJ_WT.2	0.50
STK11_WT.2	0.44
DKK1_WT	0.42
ERN1_WT.1	0.41
CDK2_WT.2	0.40
STK11_WT.1	0.38
MAPKAP1_WT	0.35
NFKBIA_WT	0.32
MAP3K9_WT	-0.38
NFKB1_WT.1	-0.38
RAF1_WT.1	-0.42
PRKCZ_WT.1	-0.42
BRAF_WT.2	-0.42
GRB10_WT.2	-0.42
STK3_WT.2	-0.45
CDC42_Q61L	-0.48
PRKCZ_WT.2	-0.48
CDC42_WT	-0.50
ELK1_WT	-0.52
STK3_WT.1	-0.54
PRKCZ_K281R	-0.62
TRAF2_WT	-0.62
AKT2_WT	-0.62

Figure 1 is a heatmap illustrating the feature importance for cell segmentation. The heatmap displays importance scores for three features (AreaShape, Texture, Intensity) across five cell components (DNA, RNA, Mito, ER, AGP). A color bar on the right indicates importance scores from 0 (light) to 6 (dark). A dendrogram at the top shows hierarchical clustering of the cell components.

Feature	DNA	RNA	Mito	ER	AGP
AreaShape	~1.5	~1.5	~1.5	~1.5	~1.5
Texture	~1.5	~1.5	~1.5	~1.5	~1.5
Intensity	~1.5	~1.5	~1.5	~1.5	~1.5

Cytoplasm_Intensity_MeanIntensity_ER
Cells_Intensity_LowerQuartileIntensity_RNA
Cytoplasm_Intensity_LowerQuartileIntensity_RNA

Cells_Texture_AngularSecondMoment_RNA_5_0
Cells_Texture_AngularSecondMoment_RNA_3_0

Cytoplasm_Granularity_3_ER

Cells_RadialDistribution_MeanFrac_RNA_2of4
Cells_Correlation_Correlation_DNA_ER
Cells_RadialDistribution_FracAtD_RNA_3of4
Cells_RadialDistribution_FracAtD_RNA_1of4
Cells_RadialDistribution_MeanFrac_RNA_1of4

Cytoplasm_RadialDistribution_RadialCV_ER_4of4
Cells_RadialDistribution_FracAtD_RNA_4of4

Cytoplasm_Granularity_2_ER

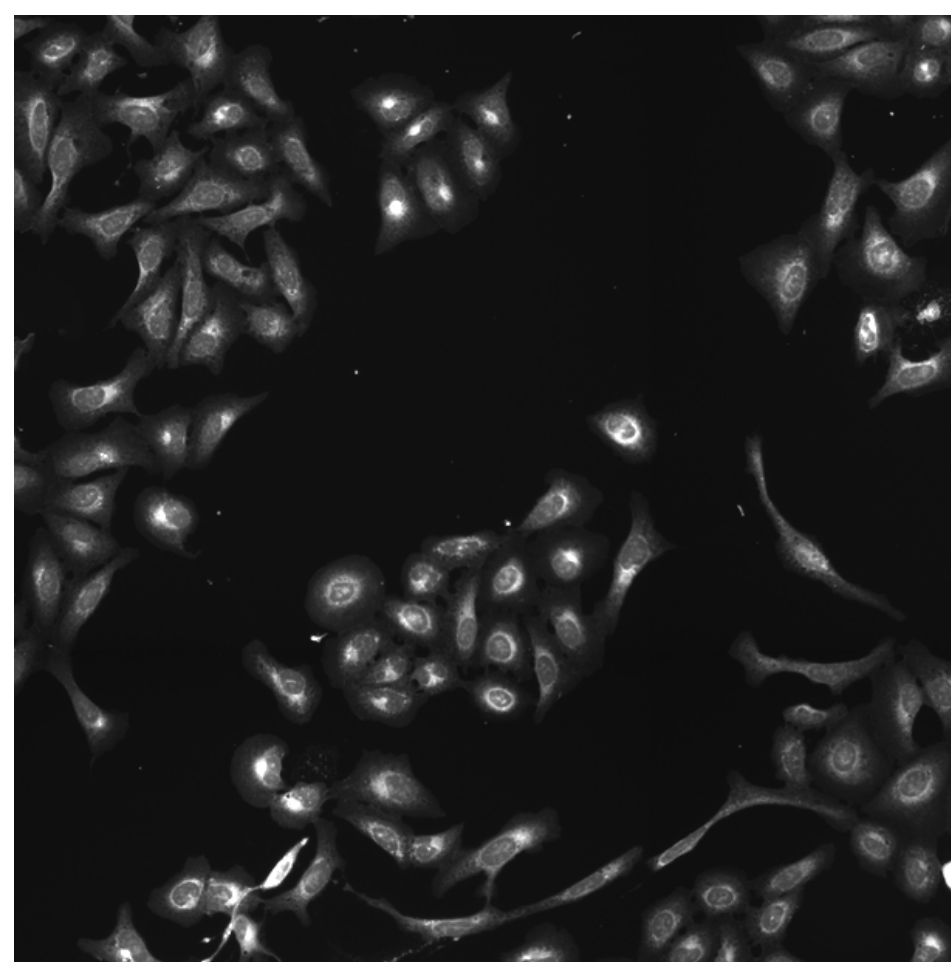
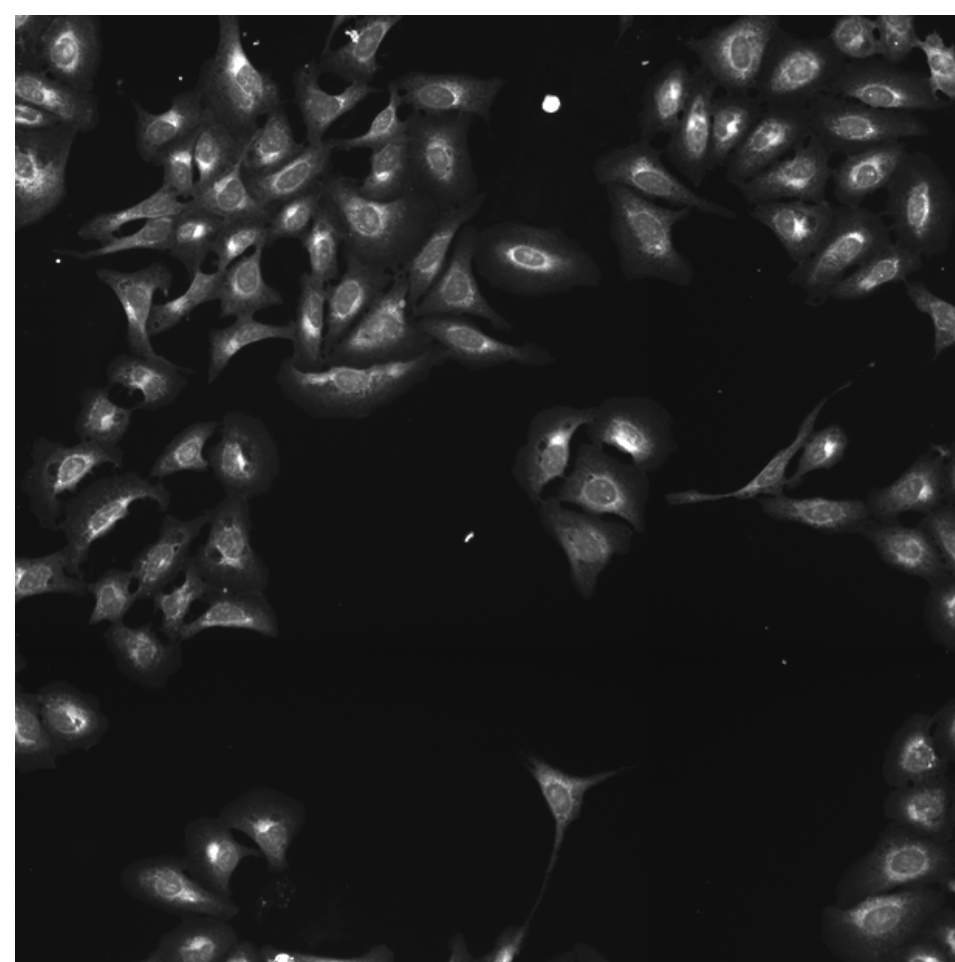
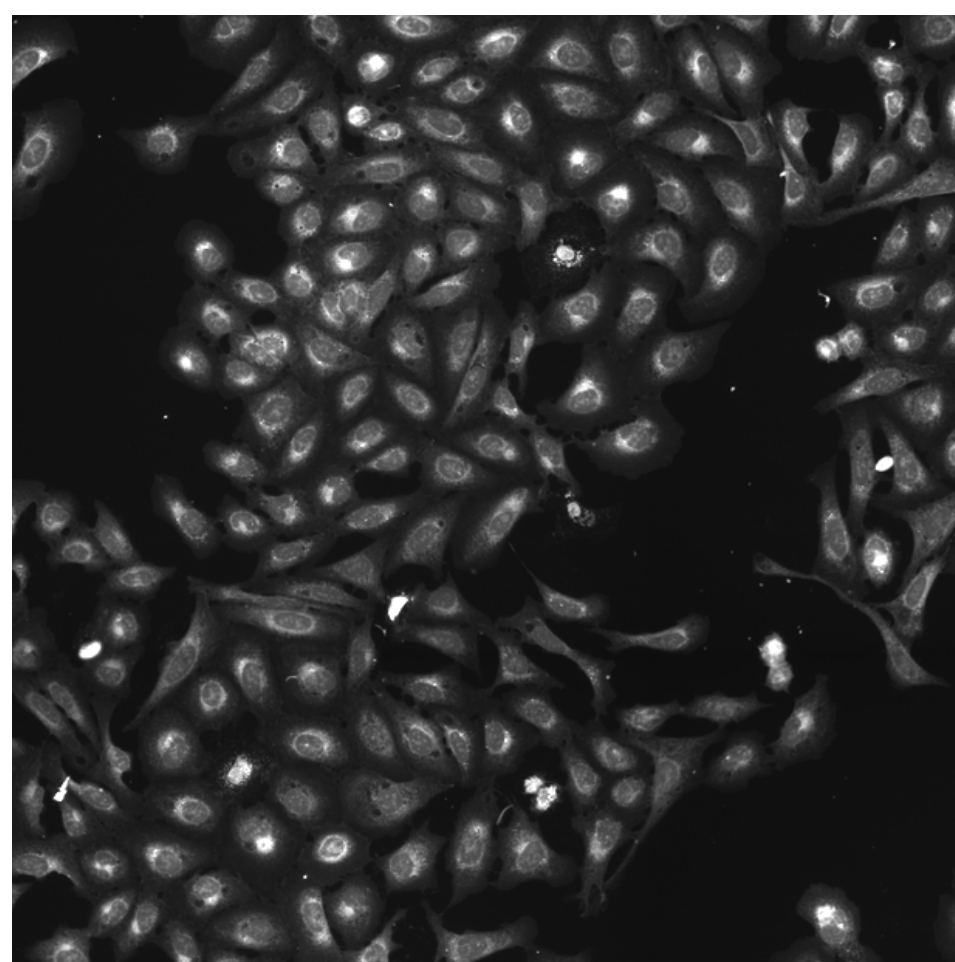
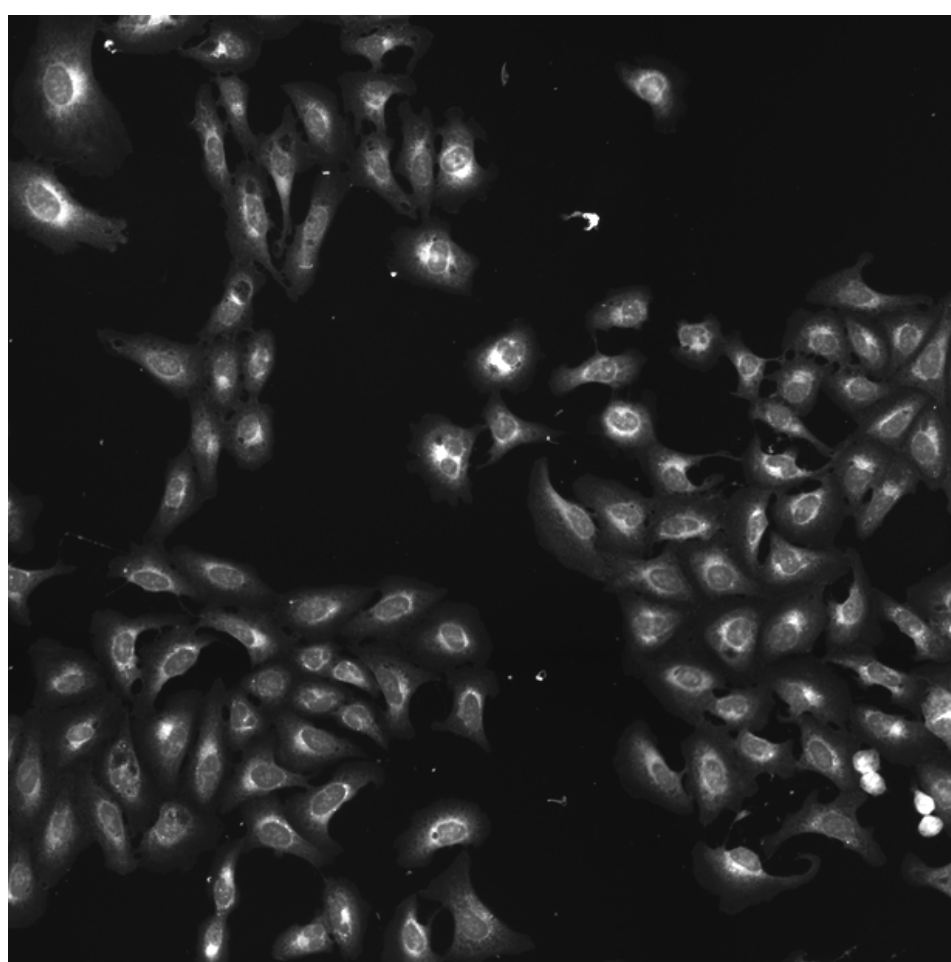
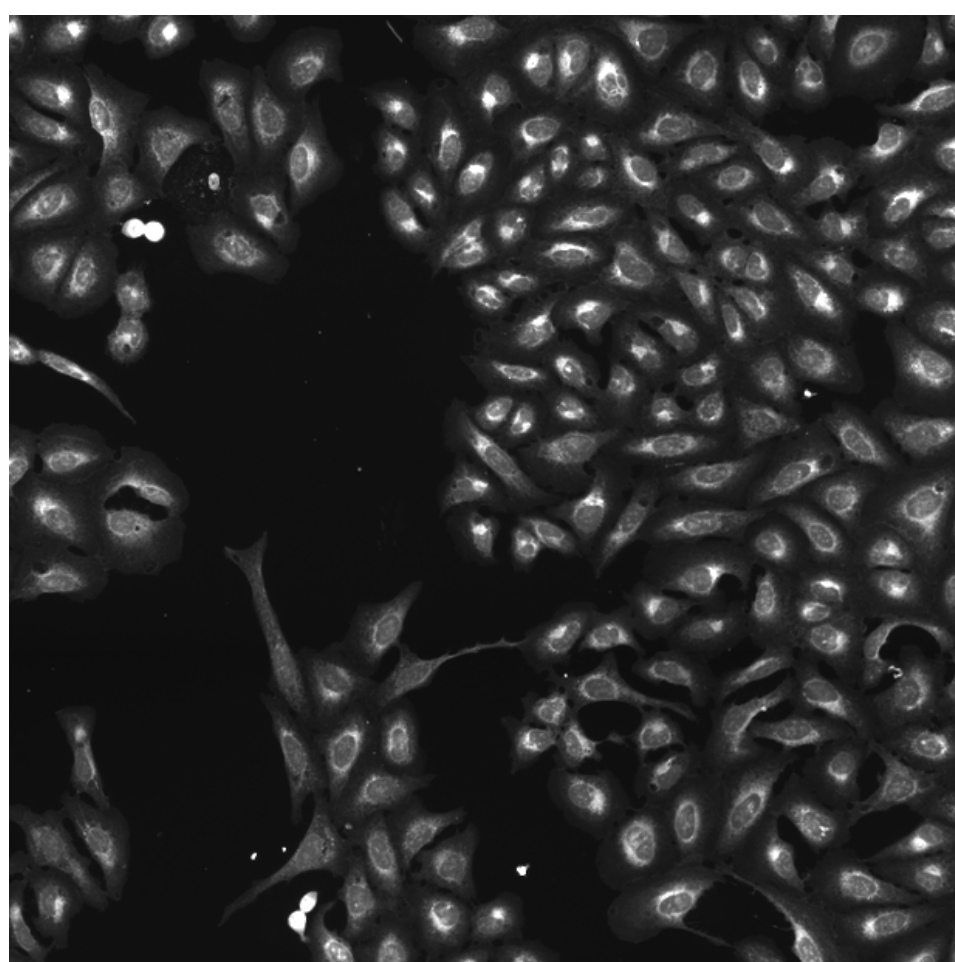
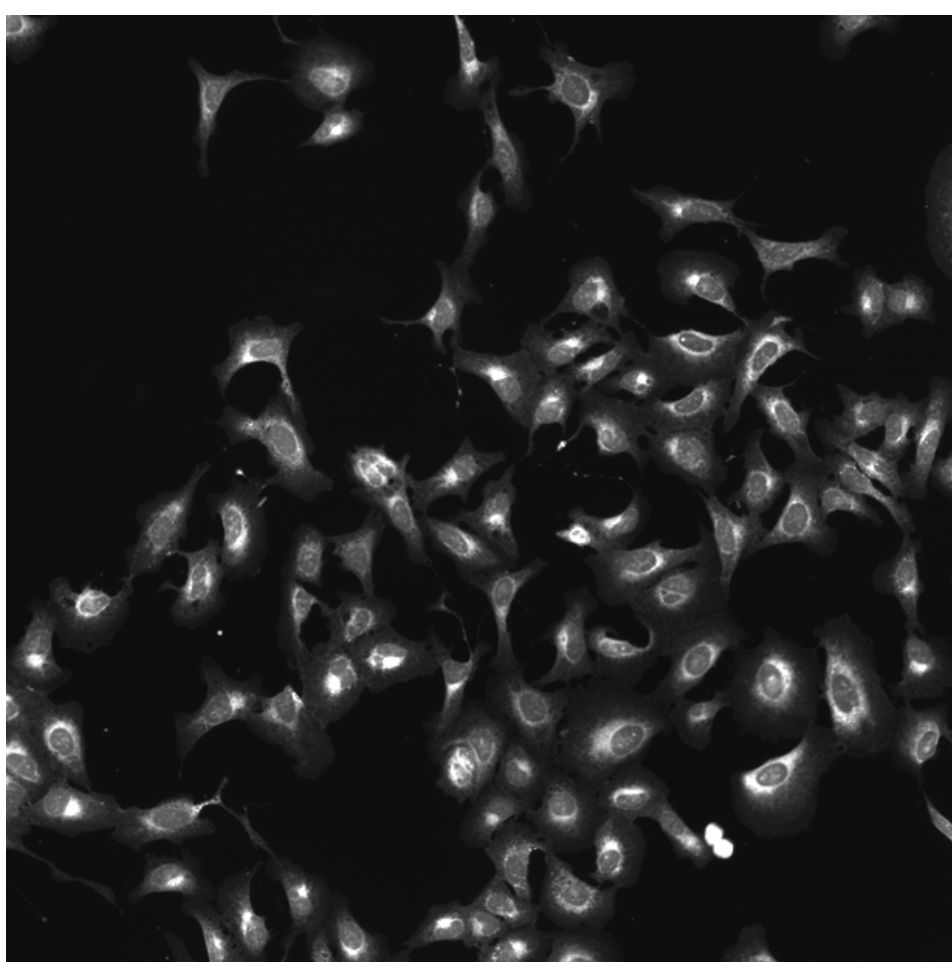
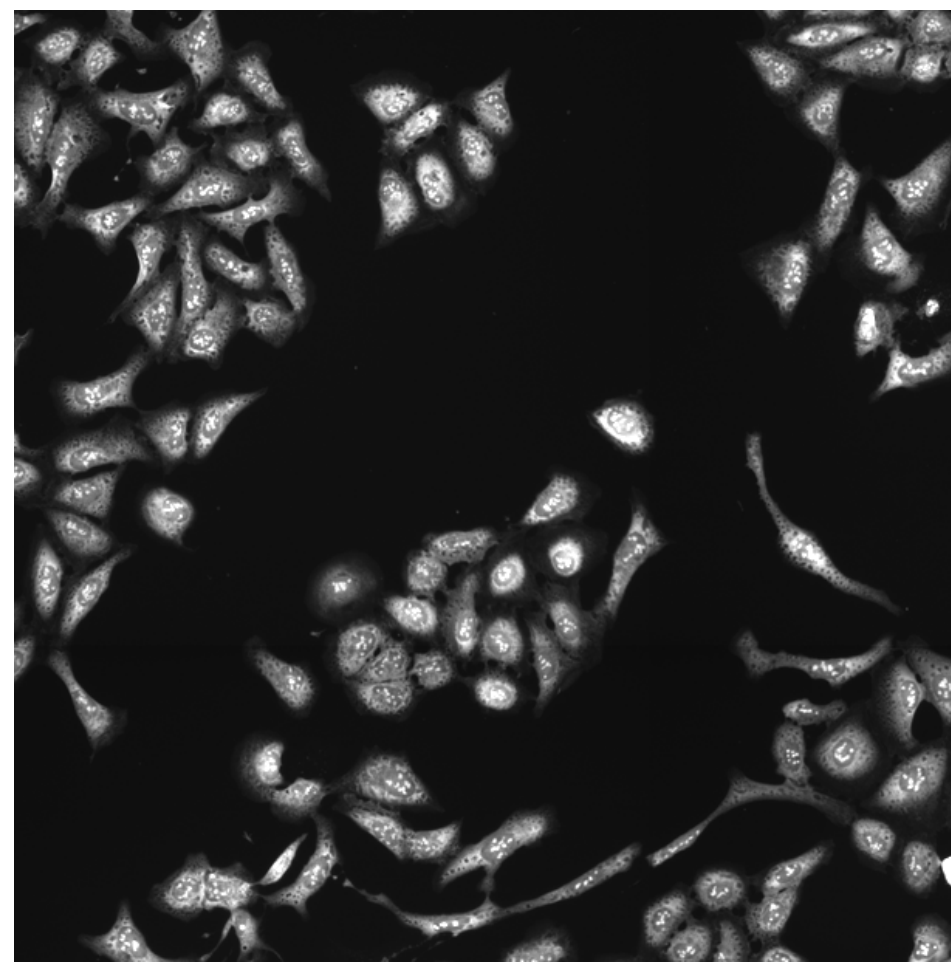
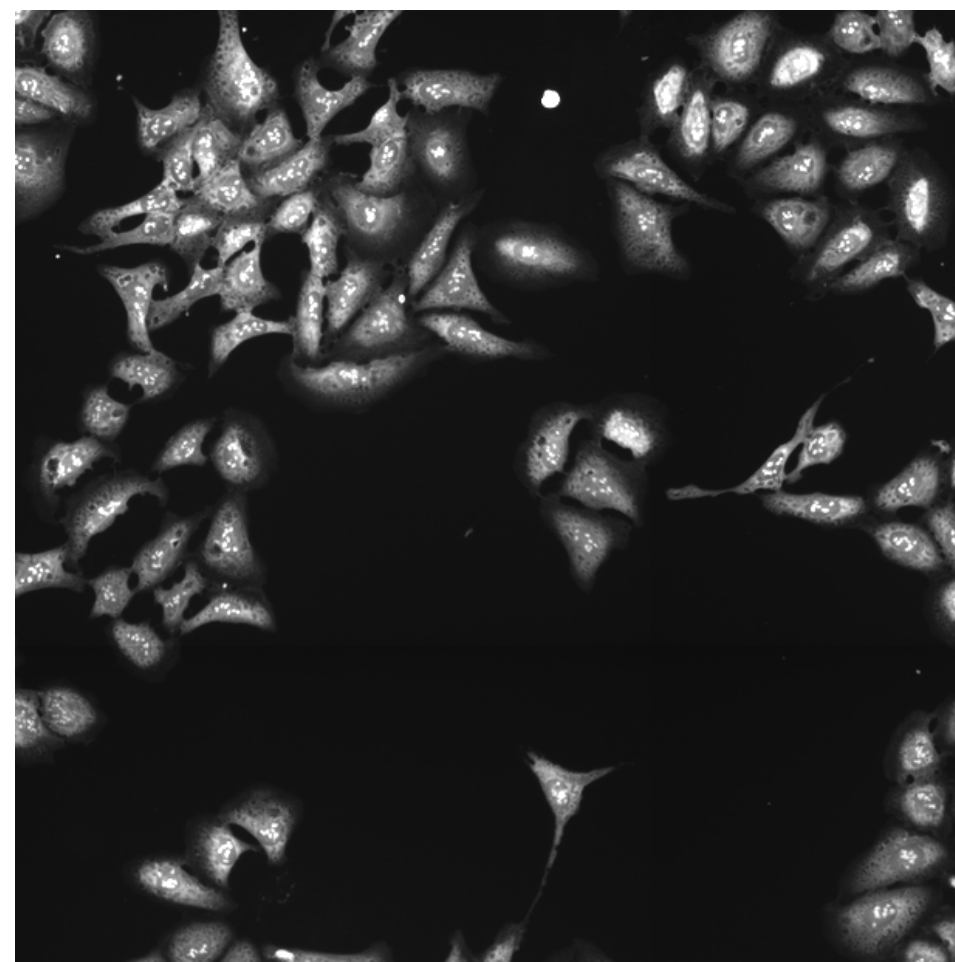
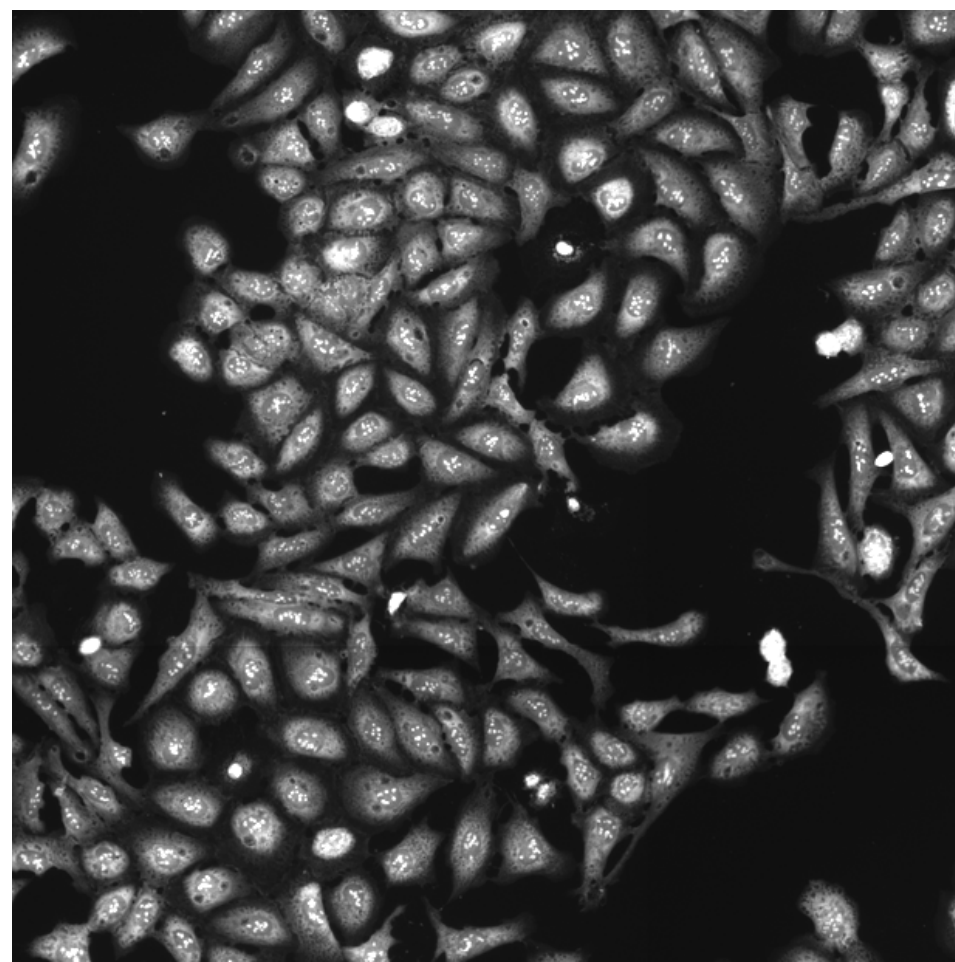
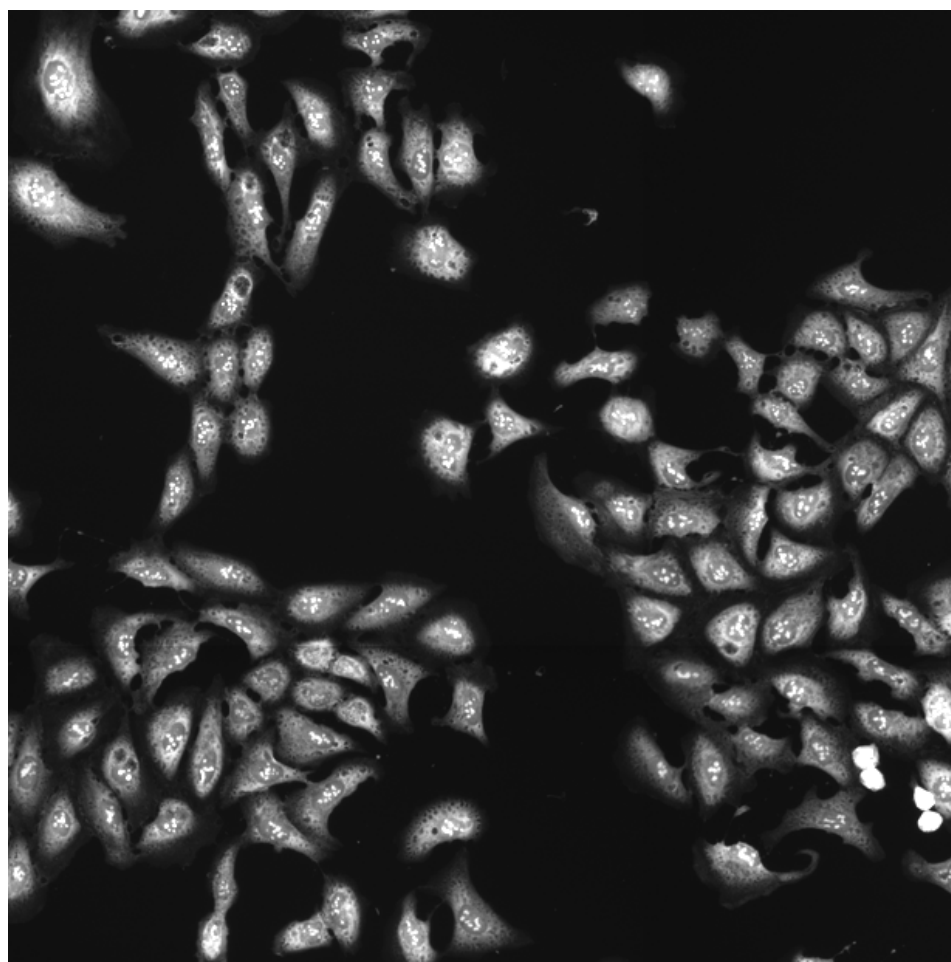
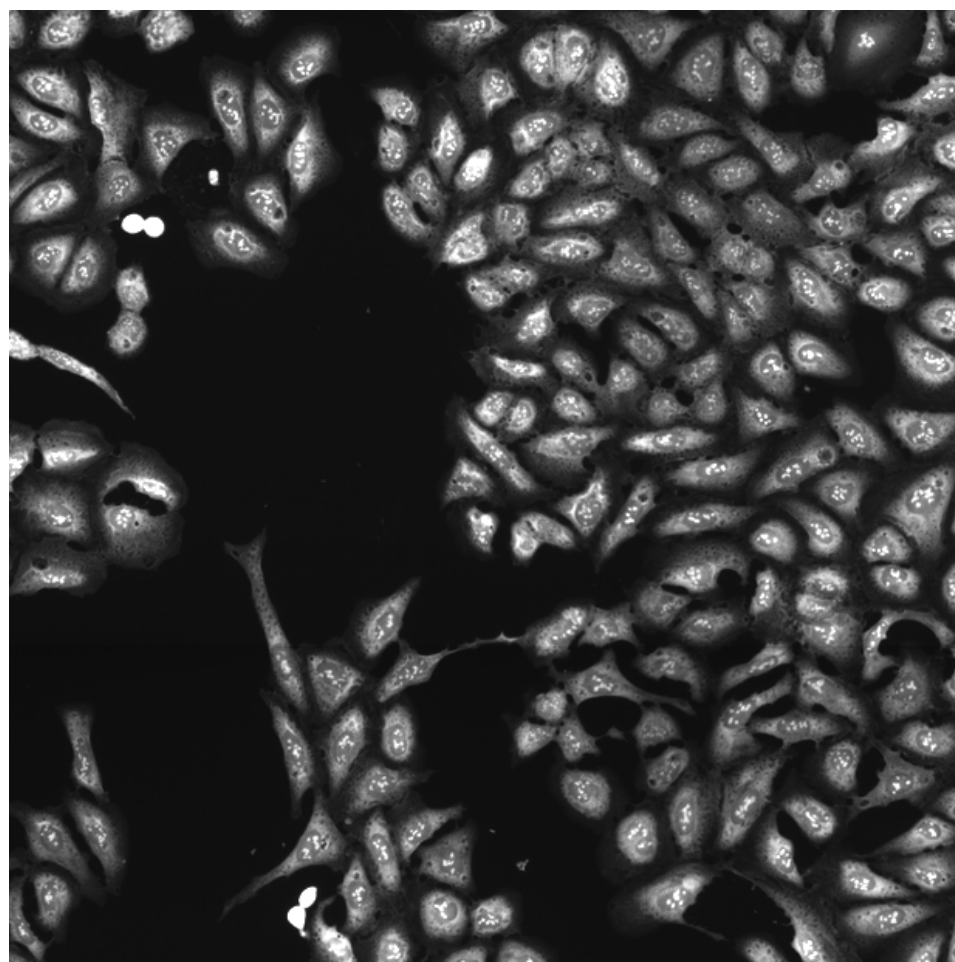
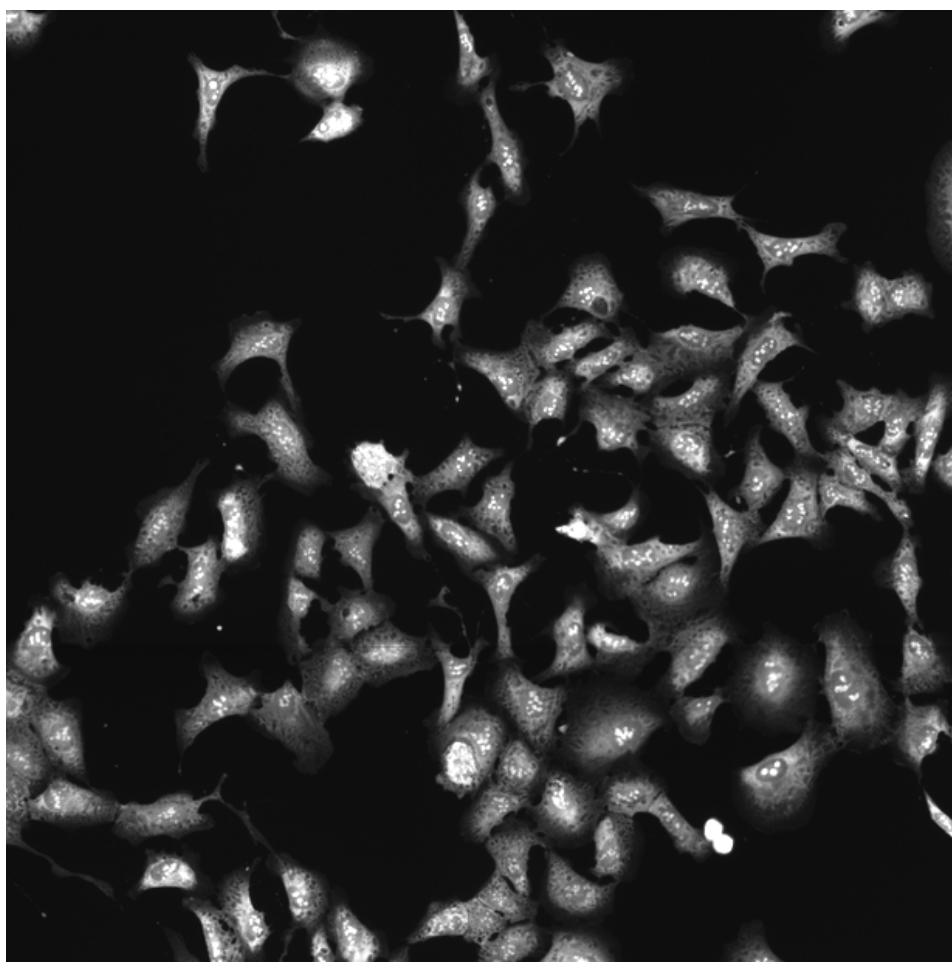
Cells_RadialDistribution_RadialCV_ER_4of4

Cells_RadialDistribution_MeanFrac_RNA_4of4

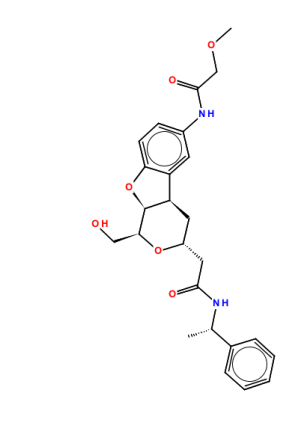
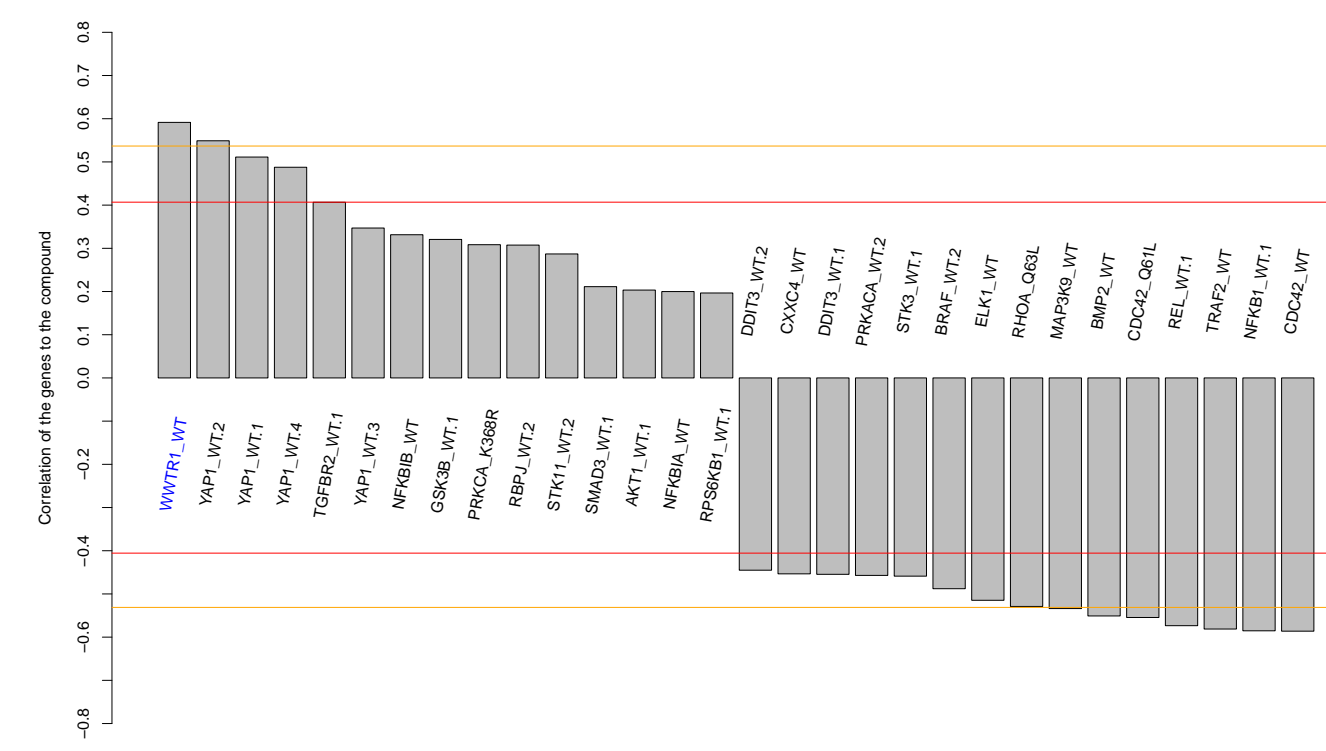
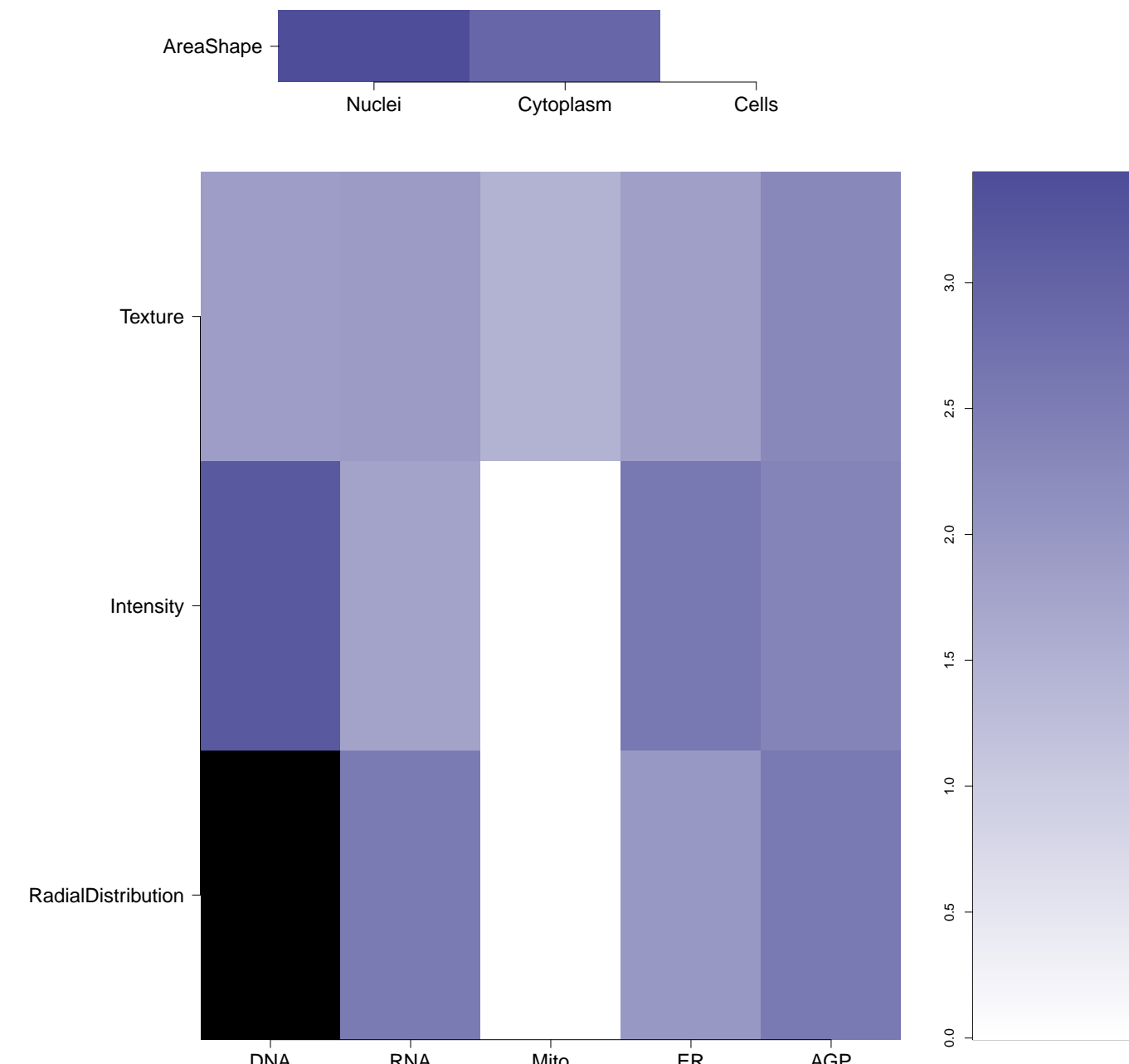

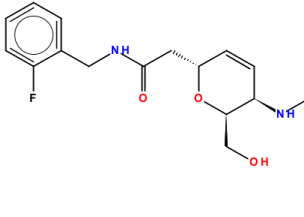
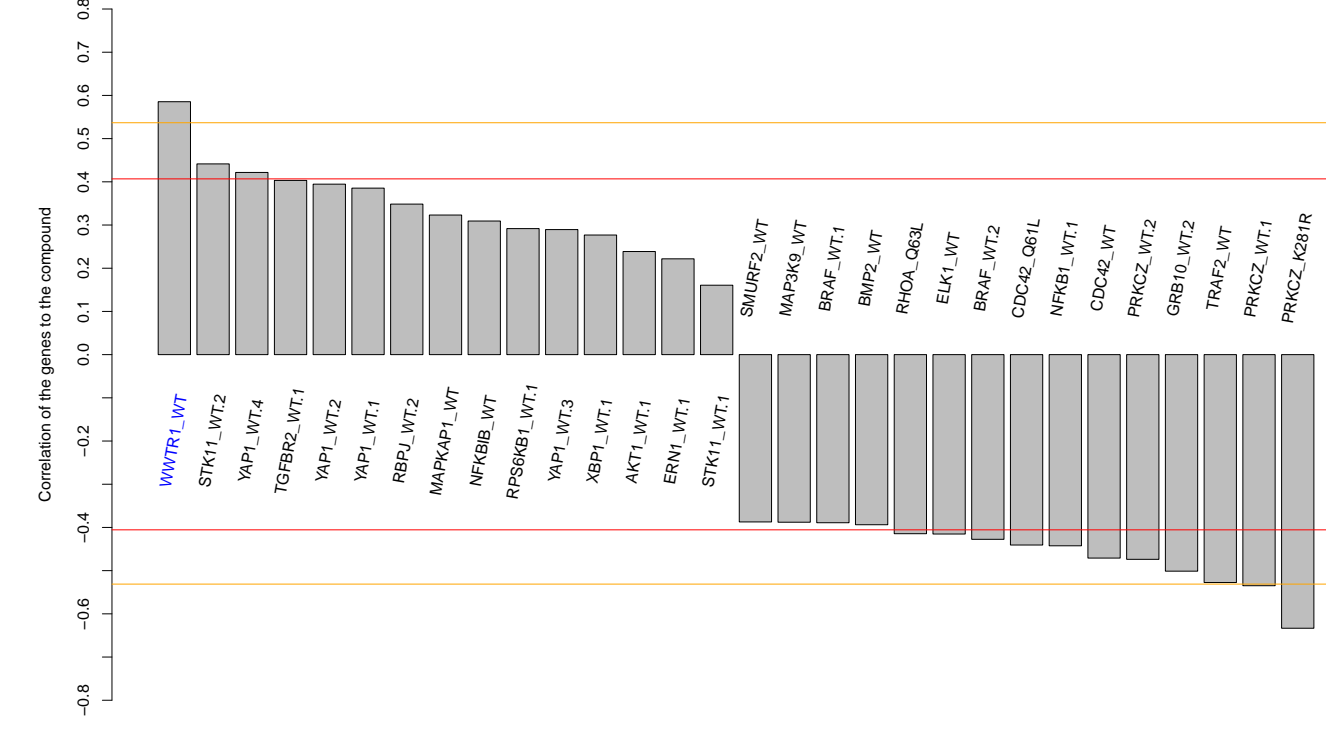
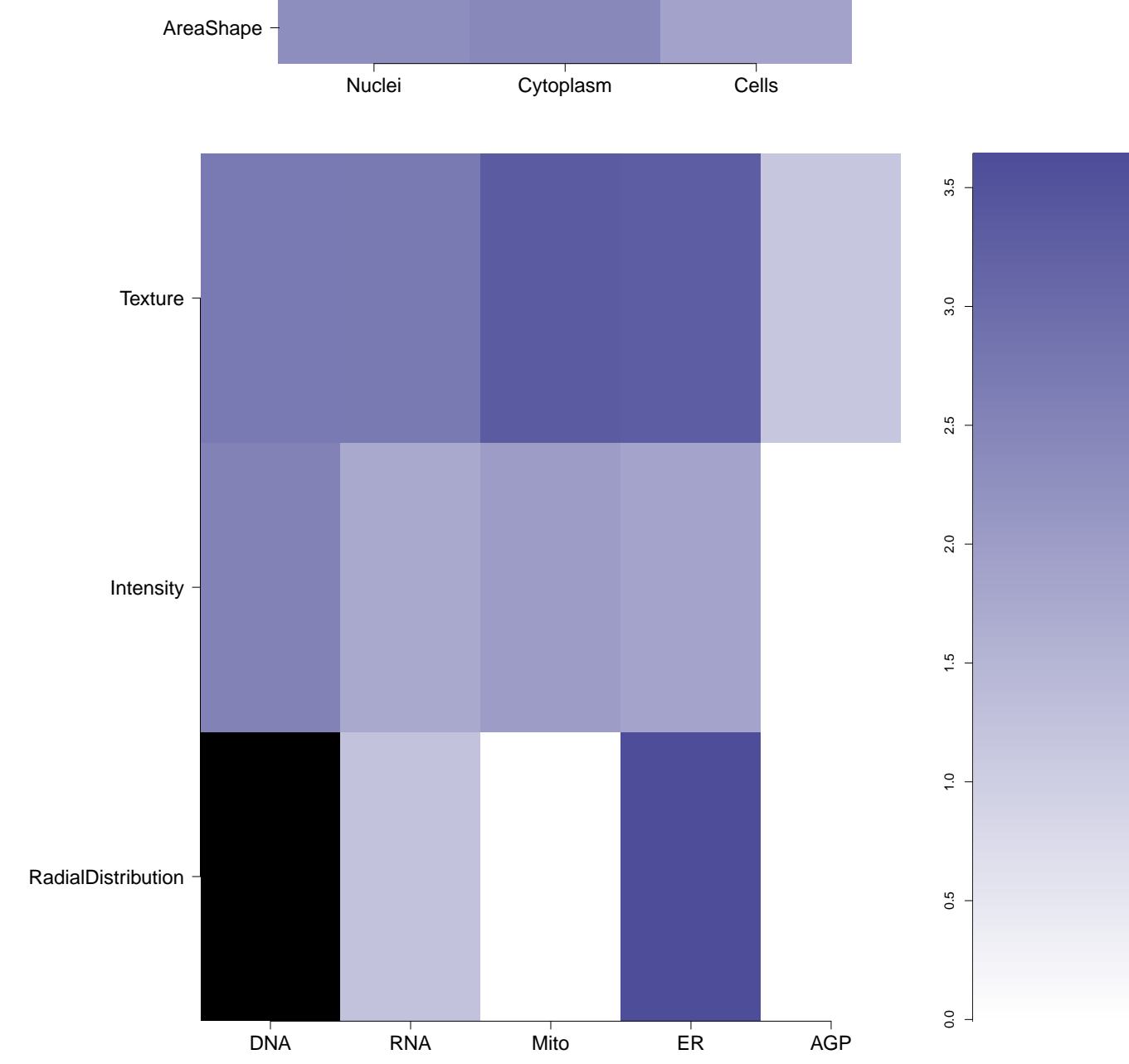

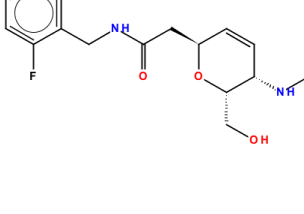
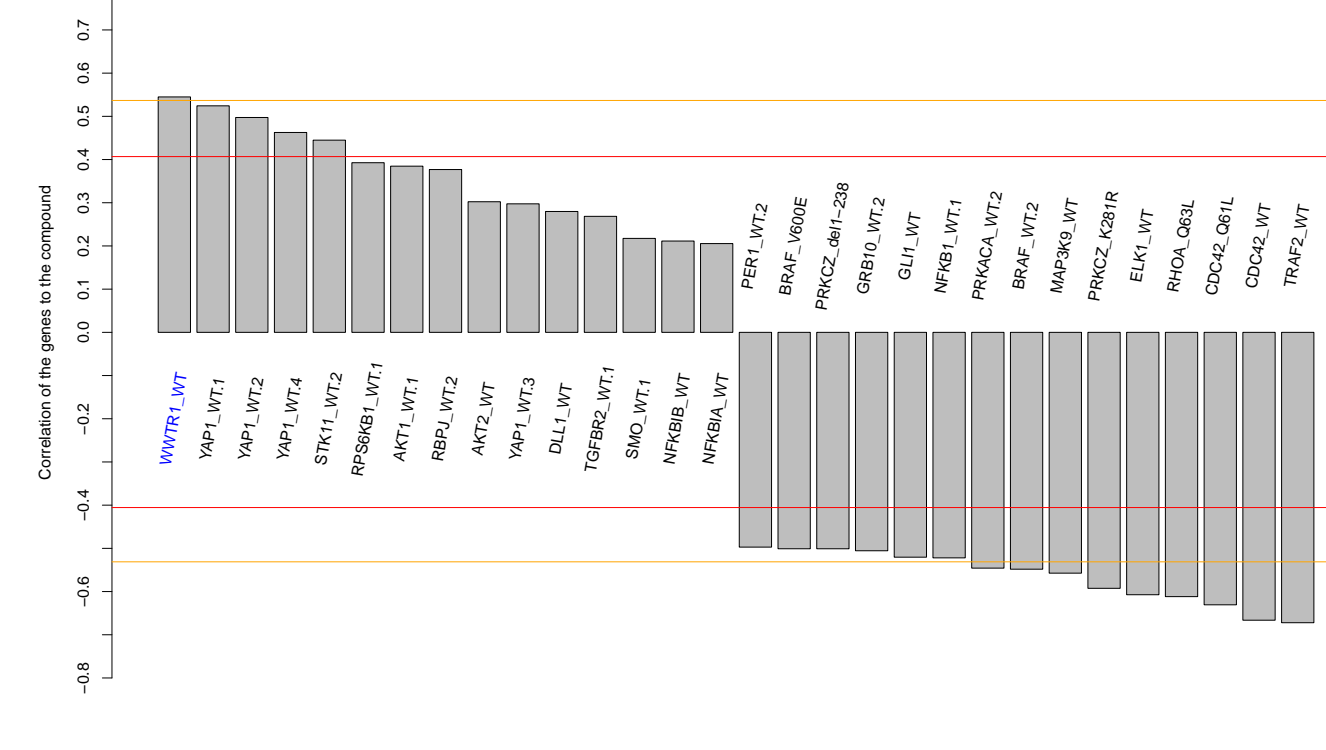
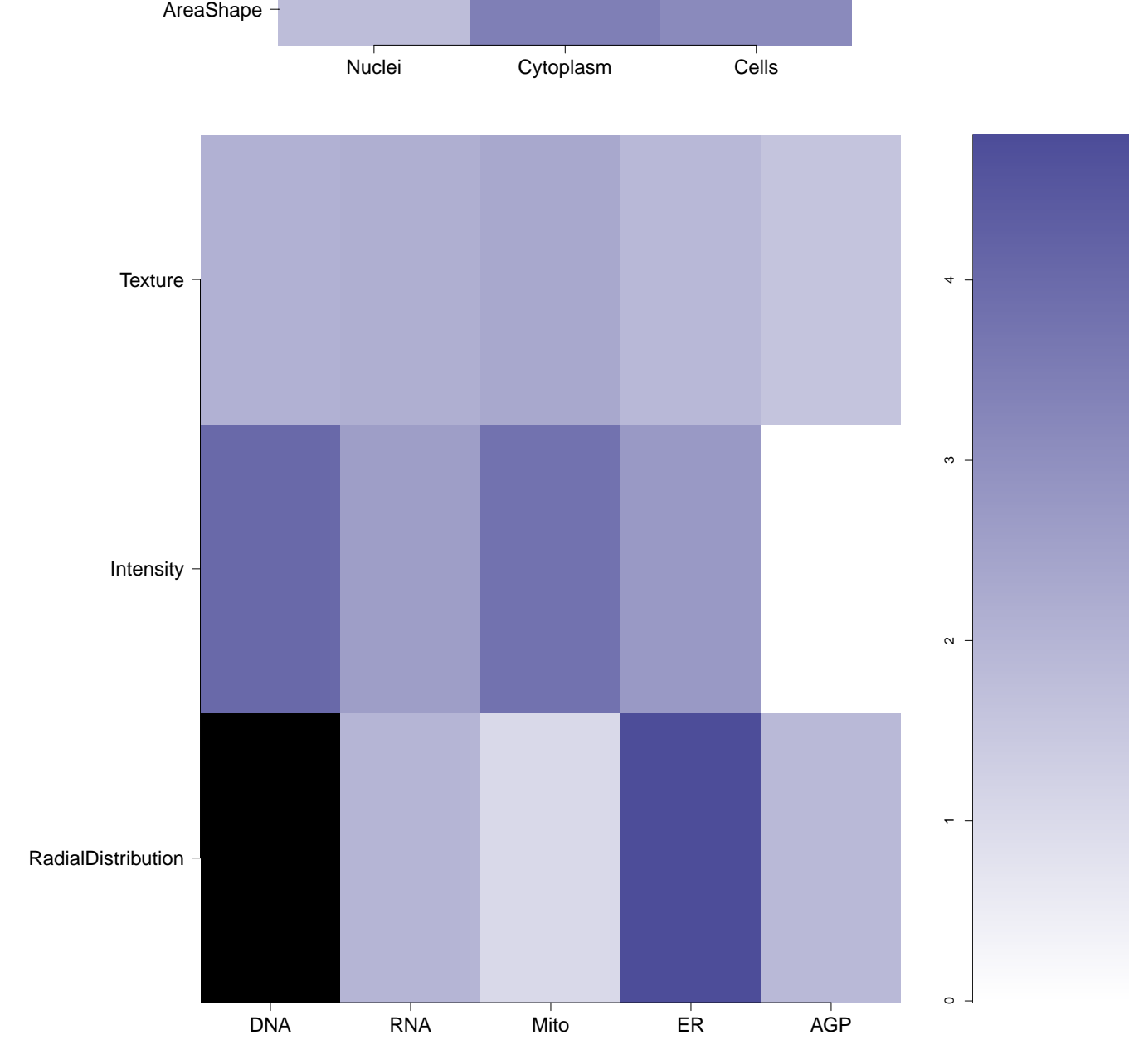

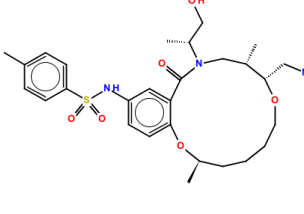
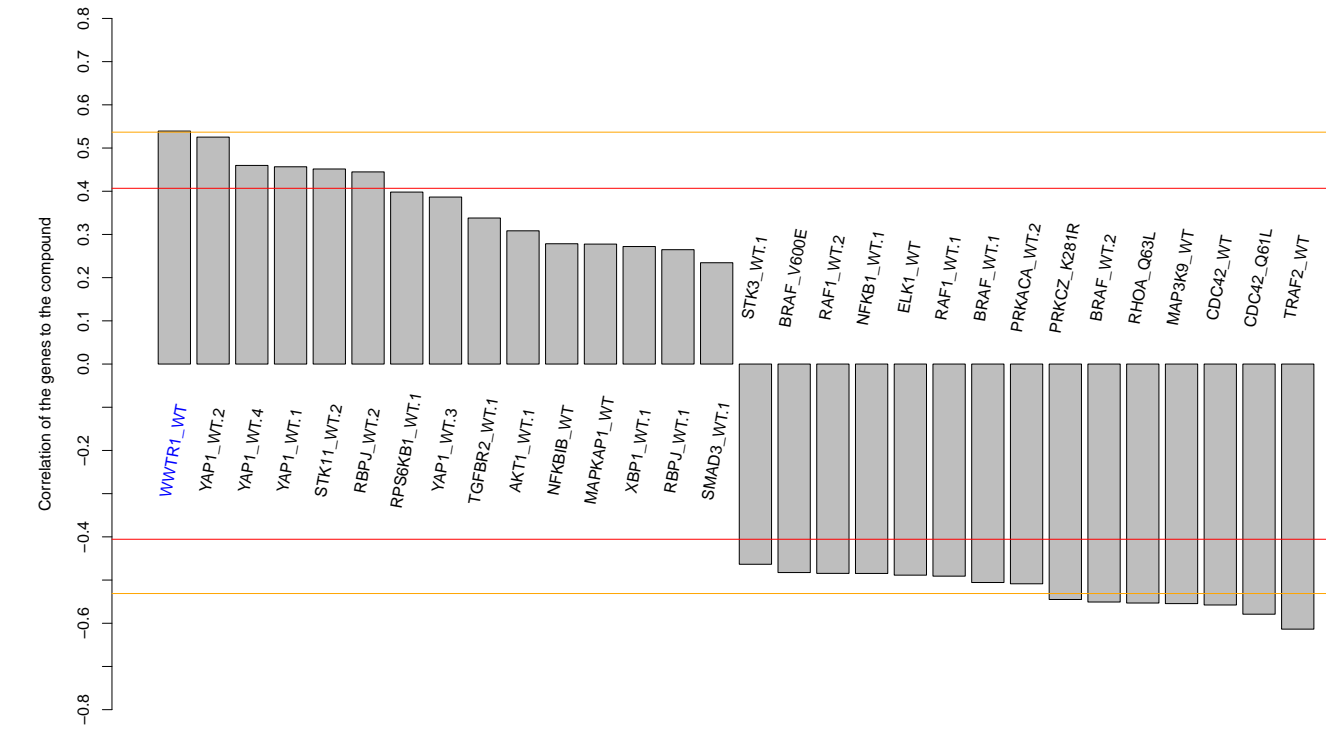
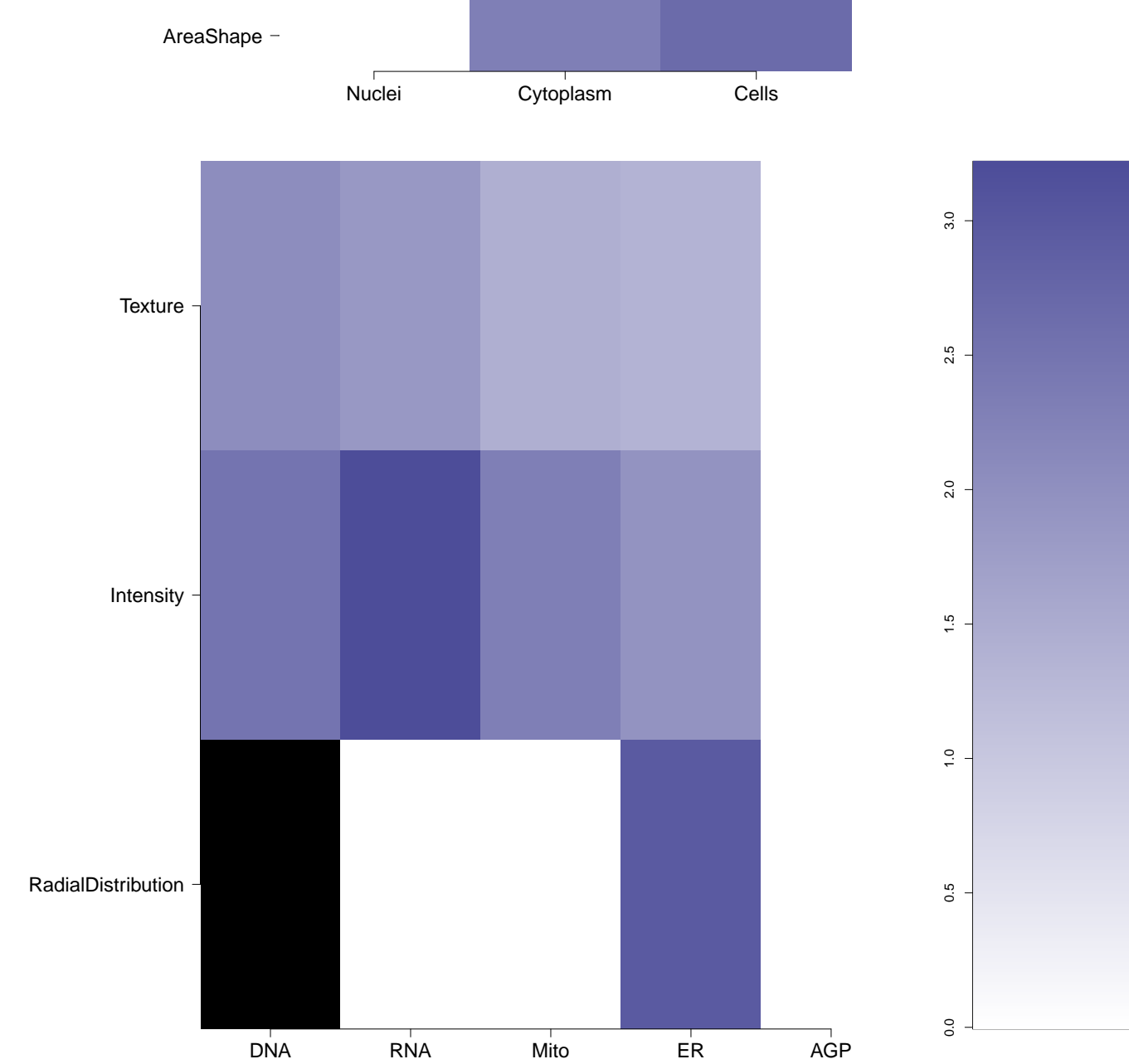
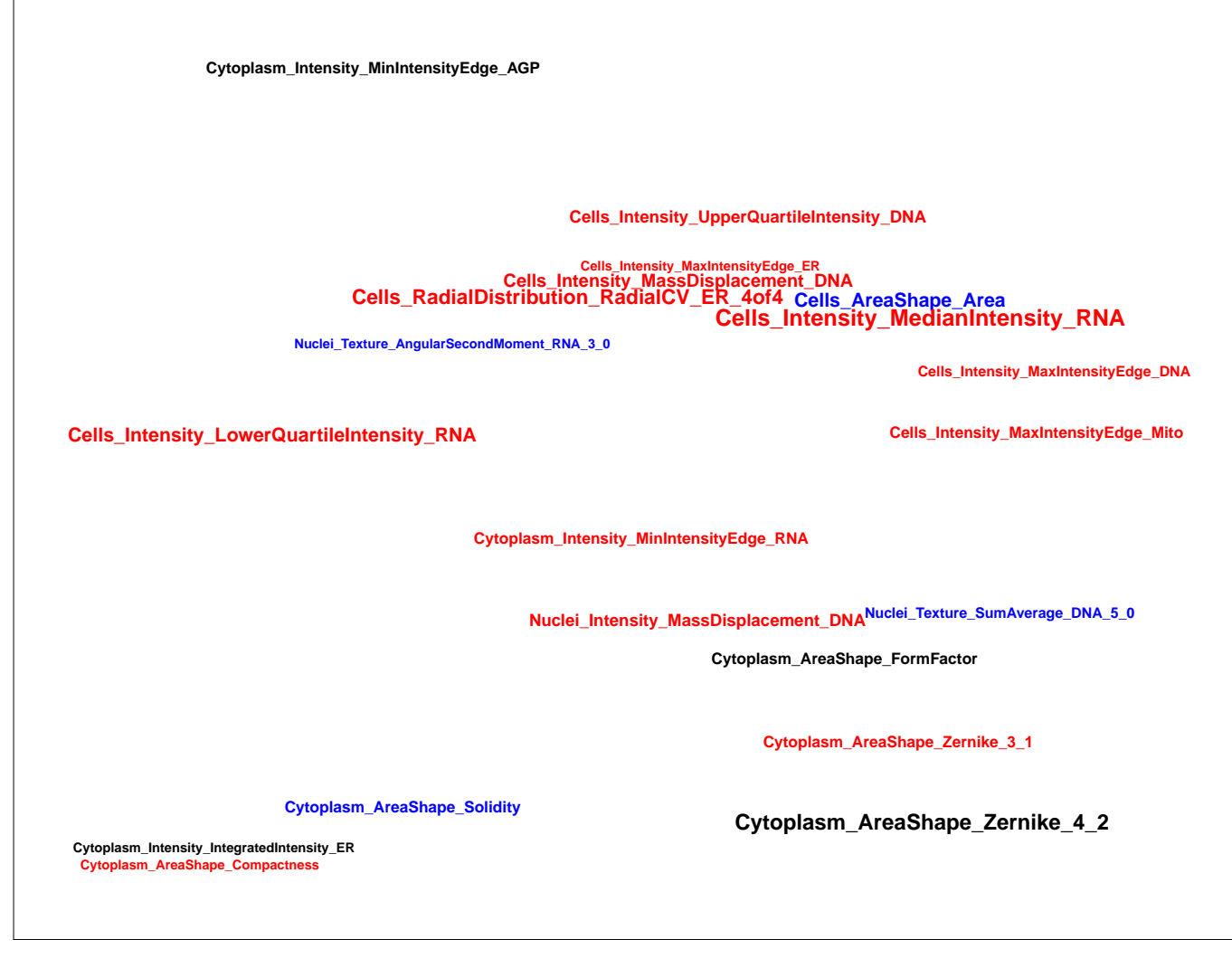
Cells_Intensity_MassDisplacement_DNA

Cytoplasm_Correlation_Correlation_DNA_RNA

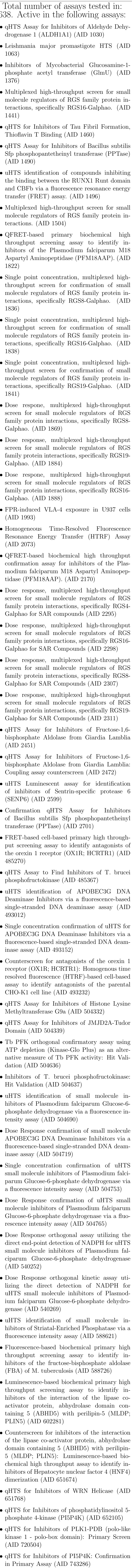
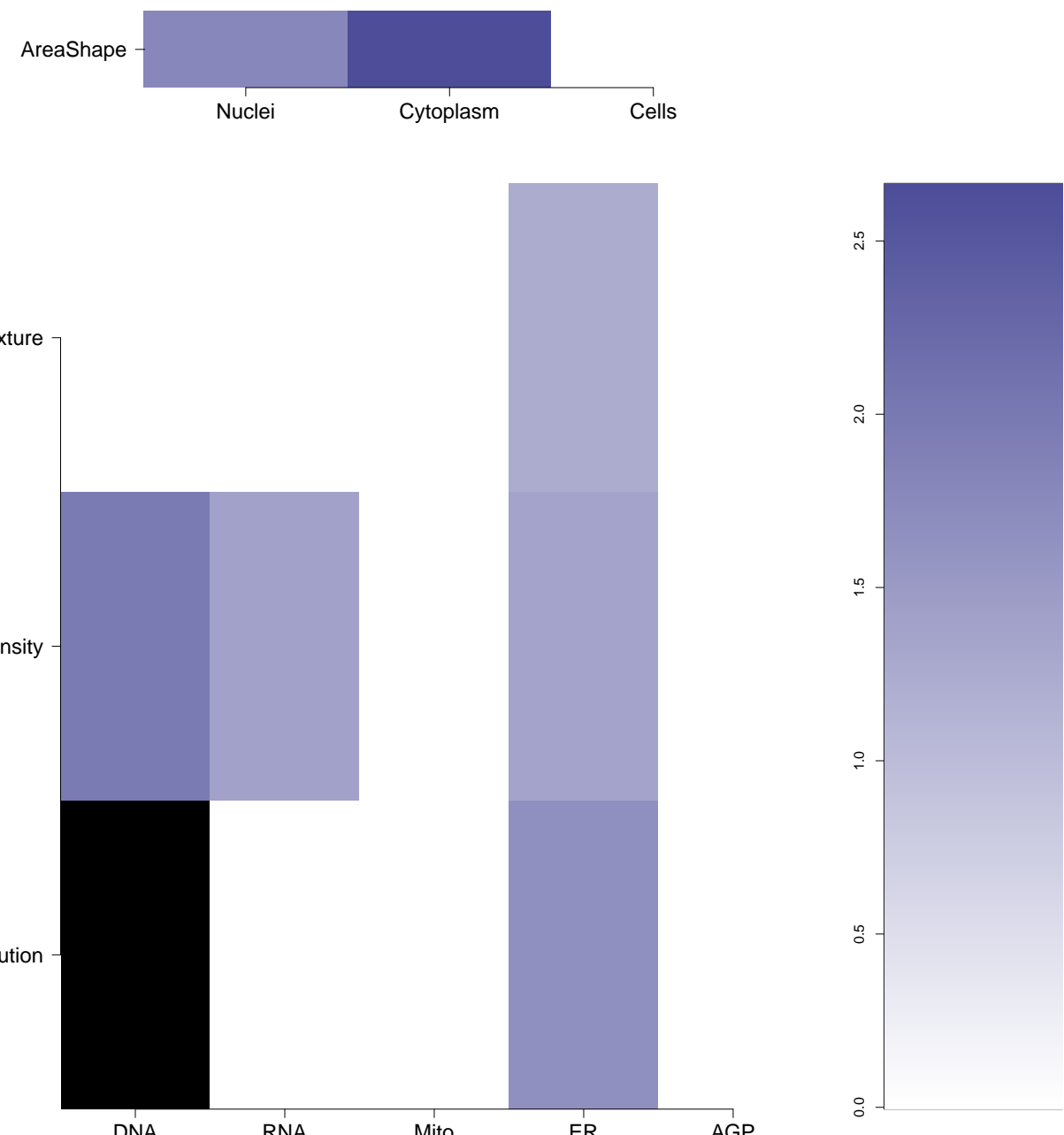
WWTR1_WT (41754)

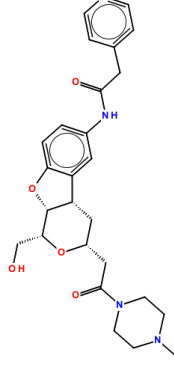
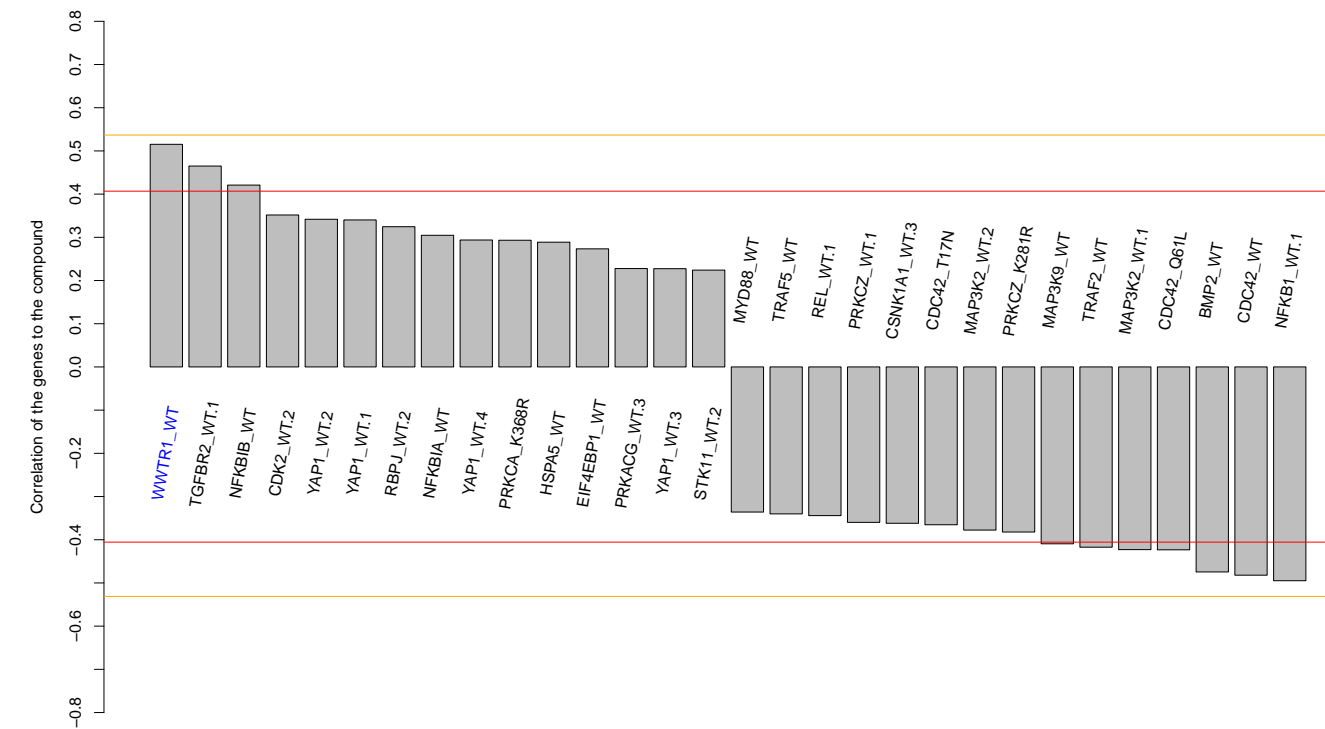
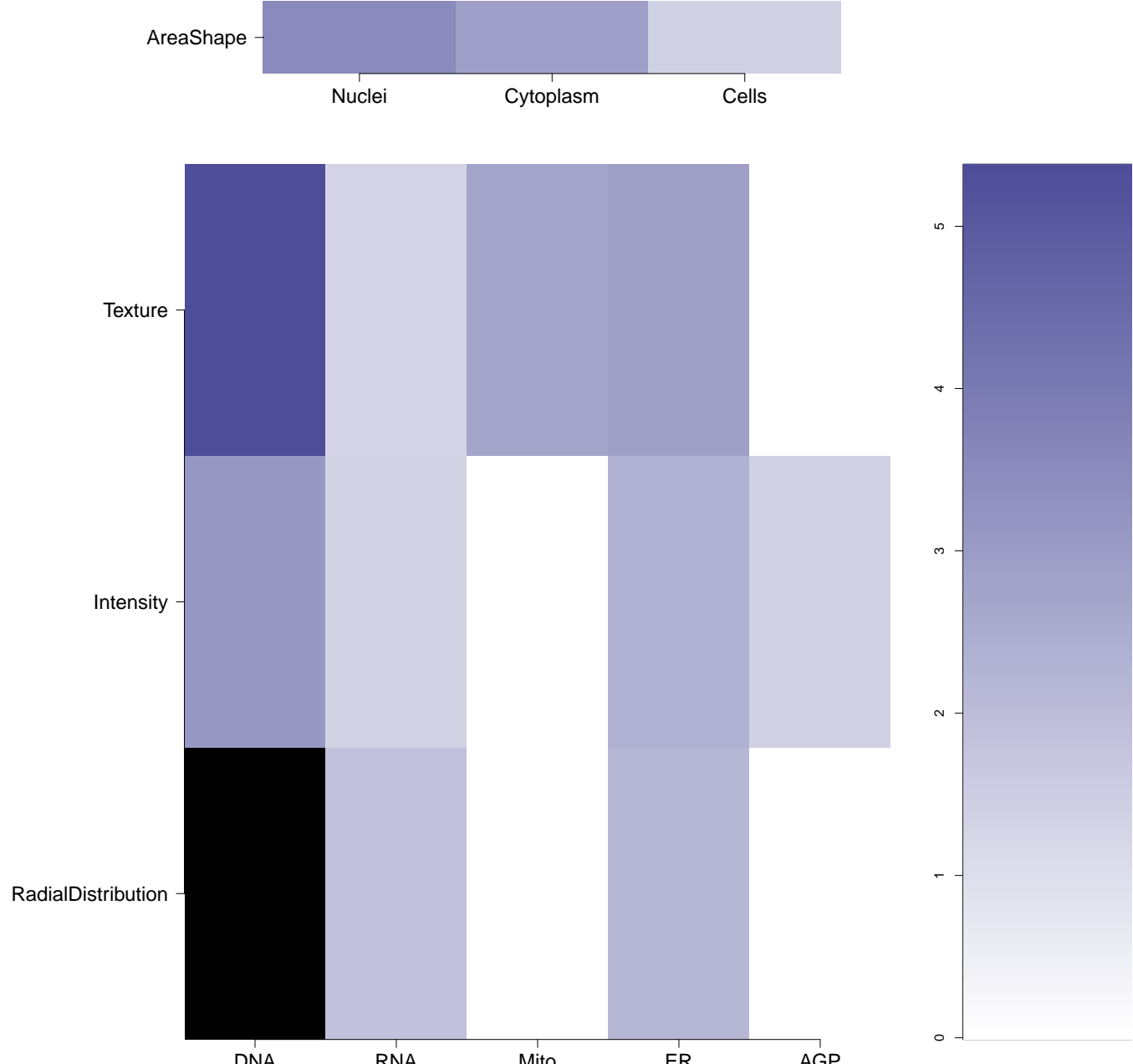
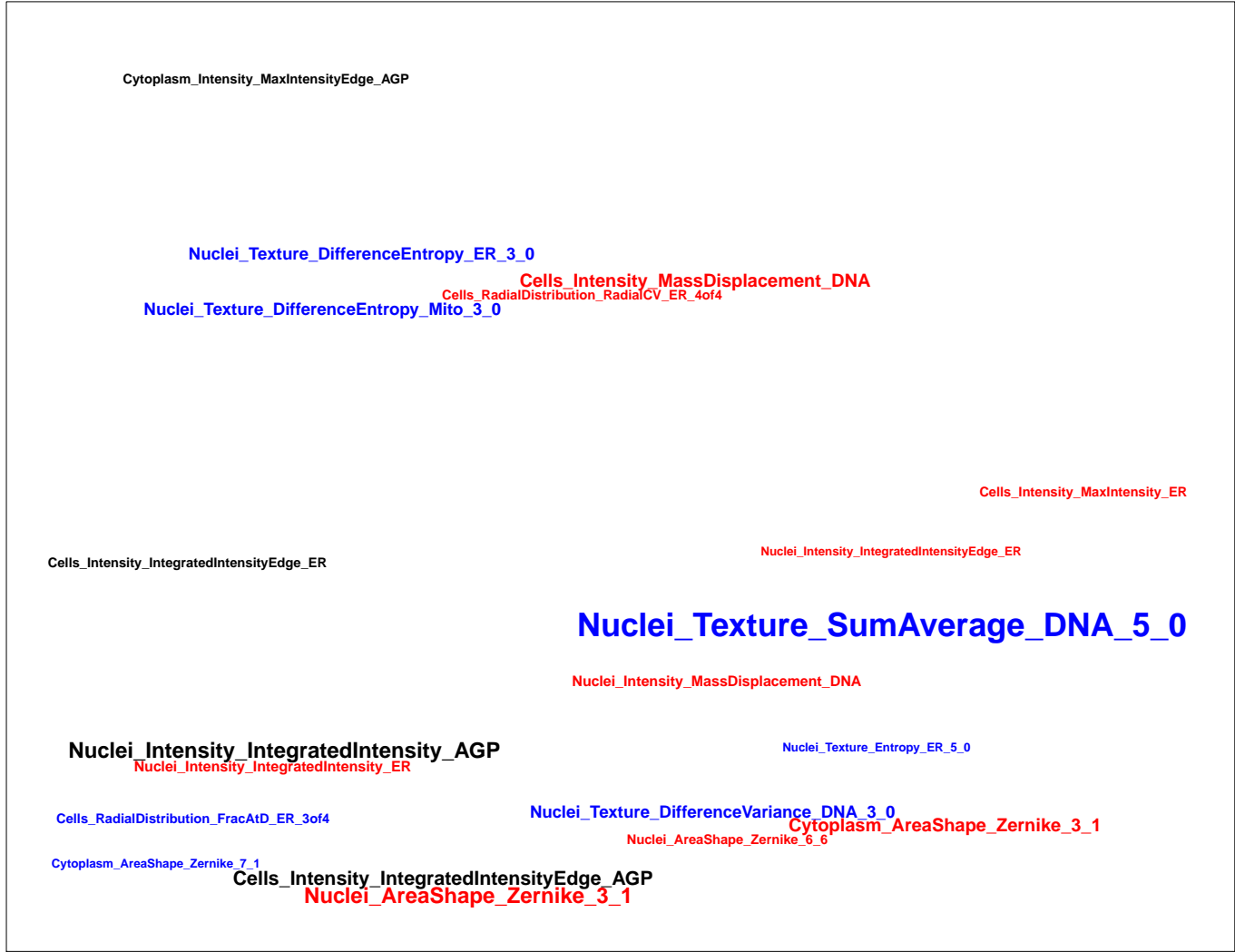
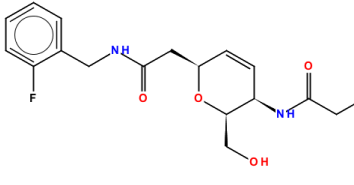
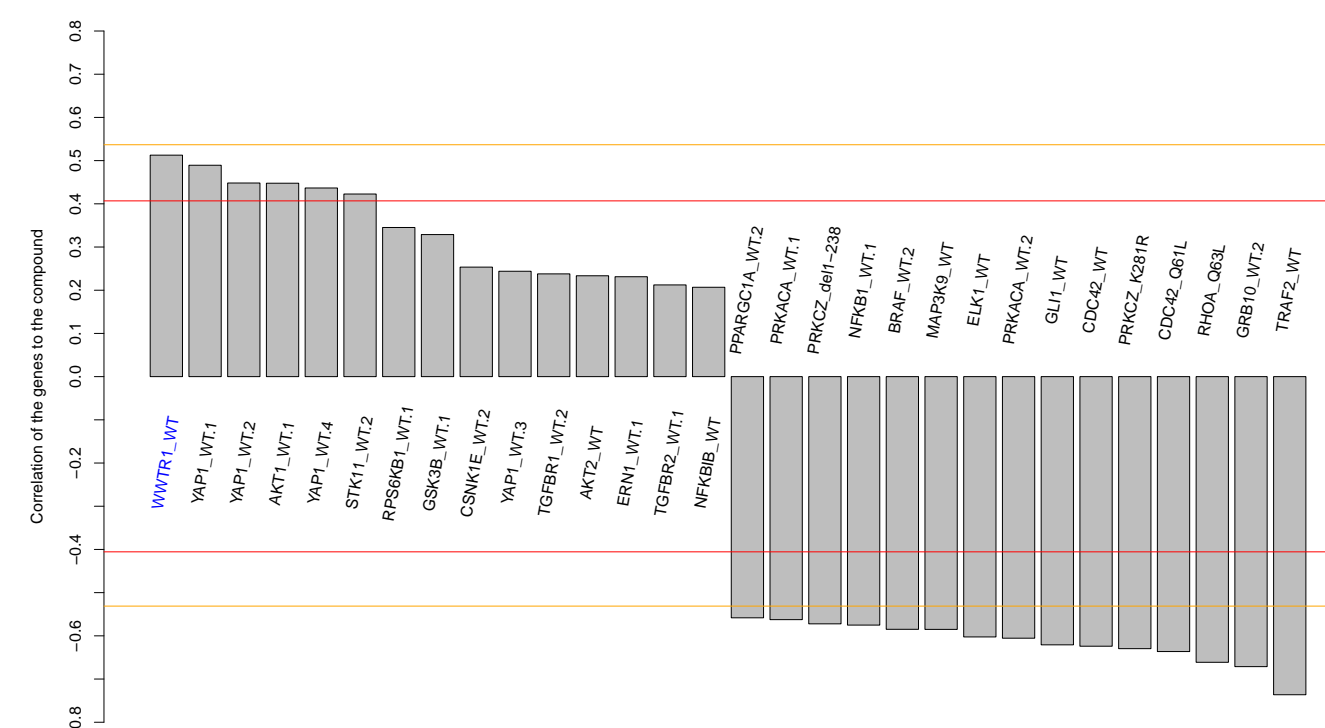
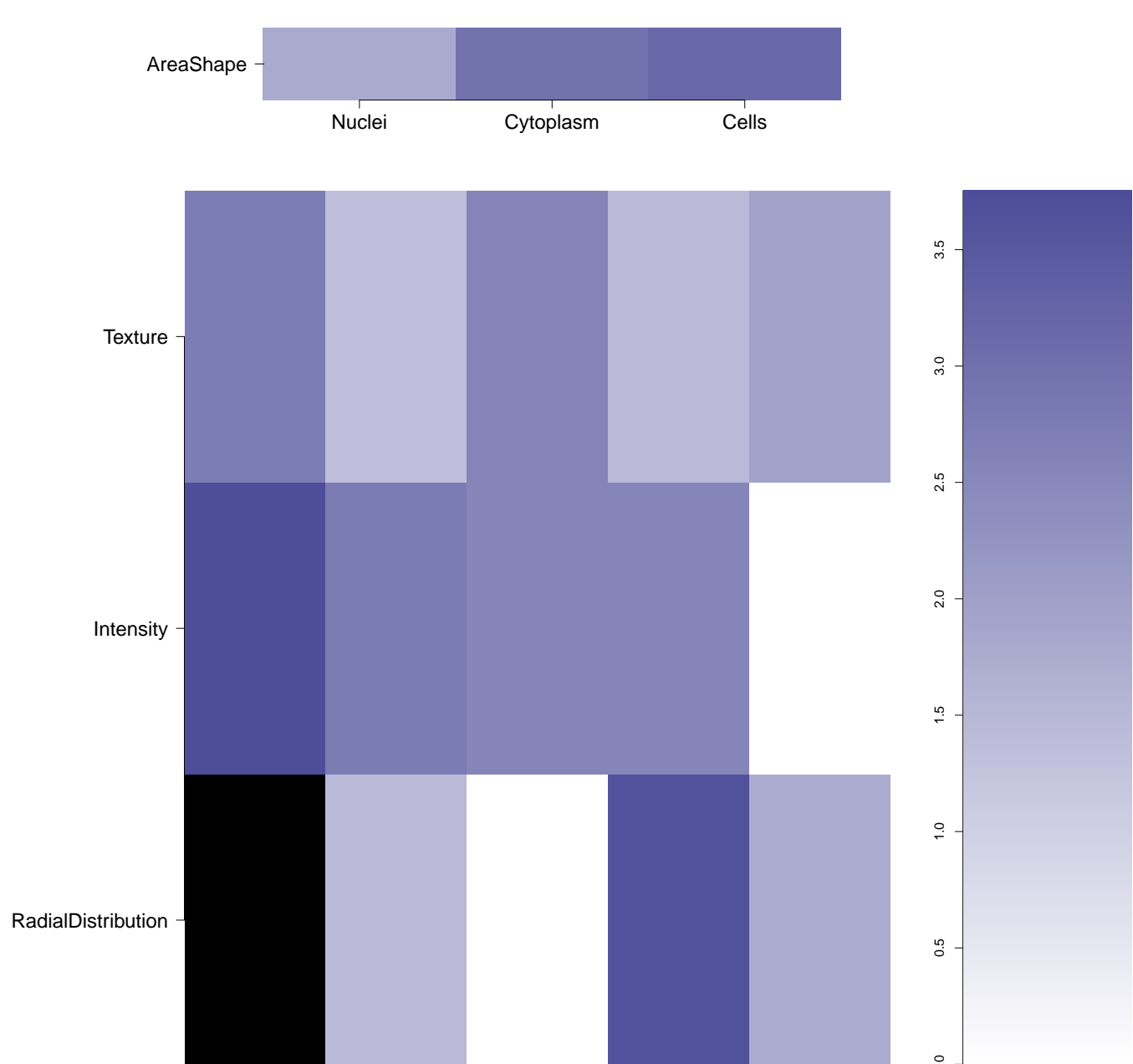

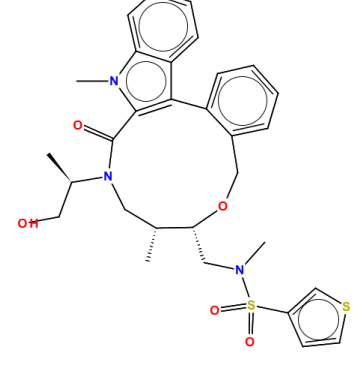
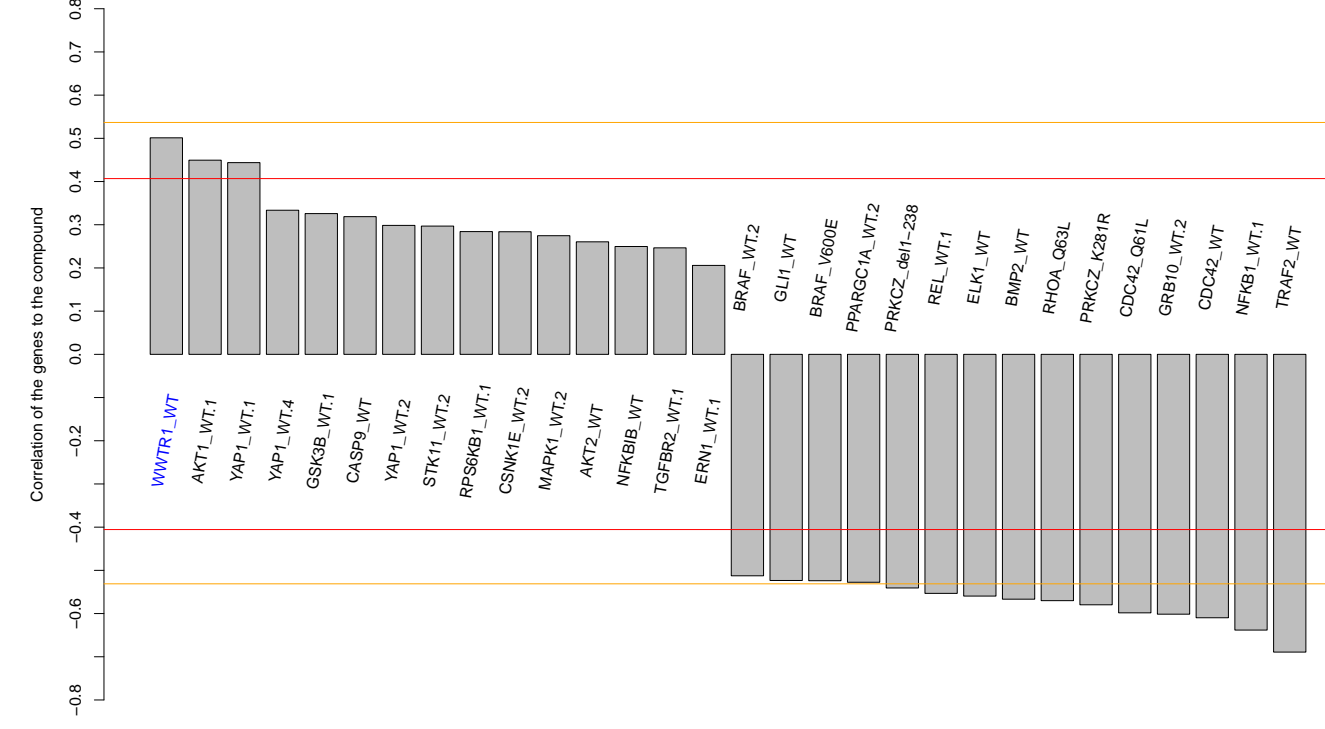
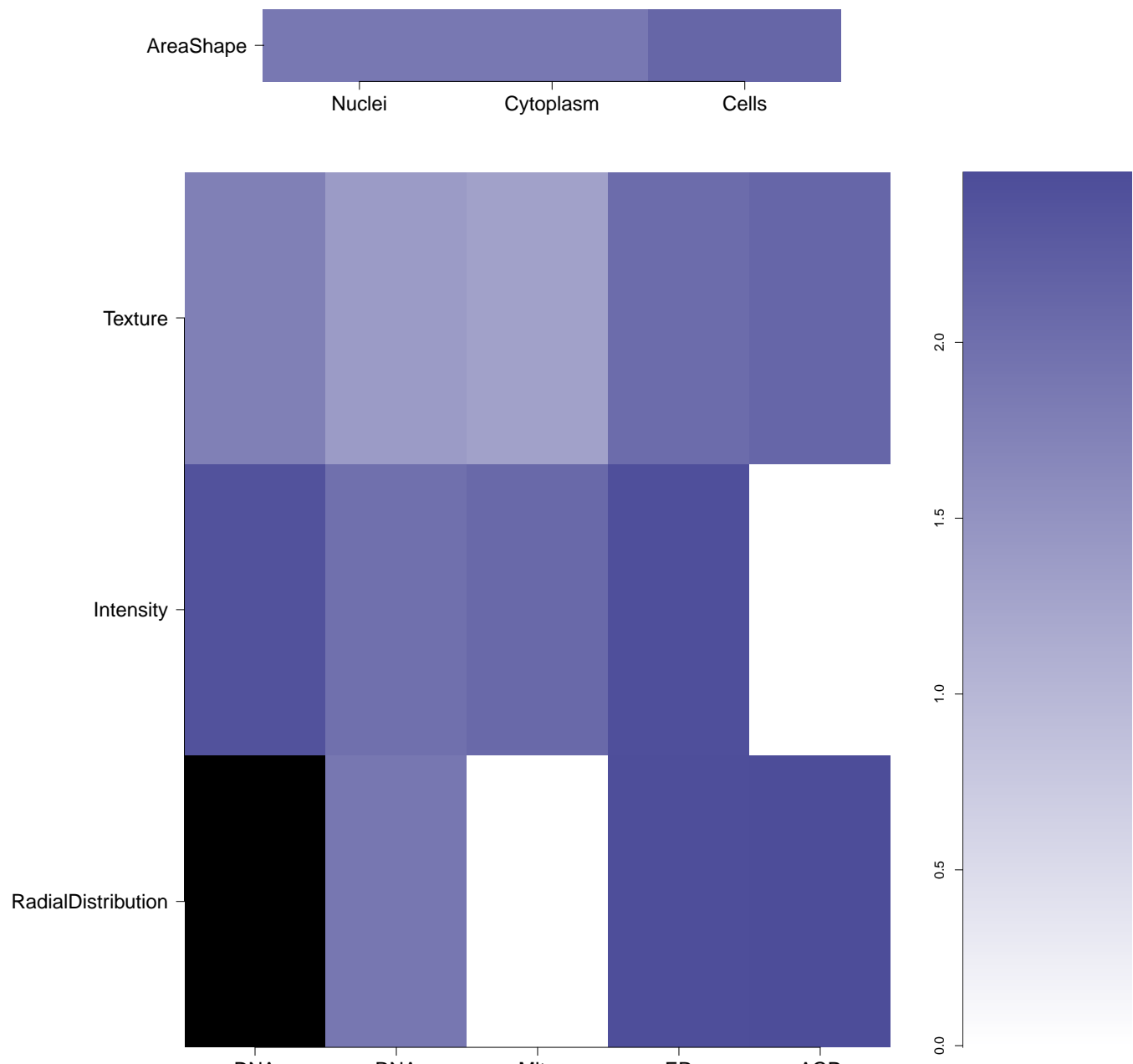

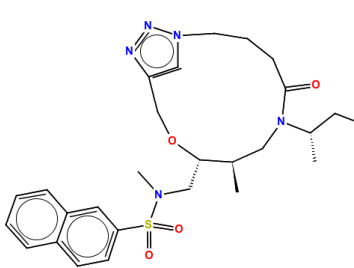
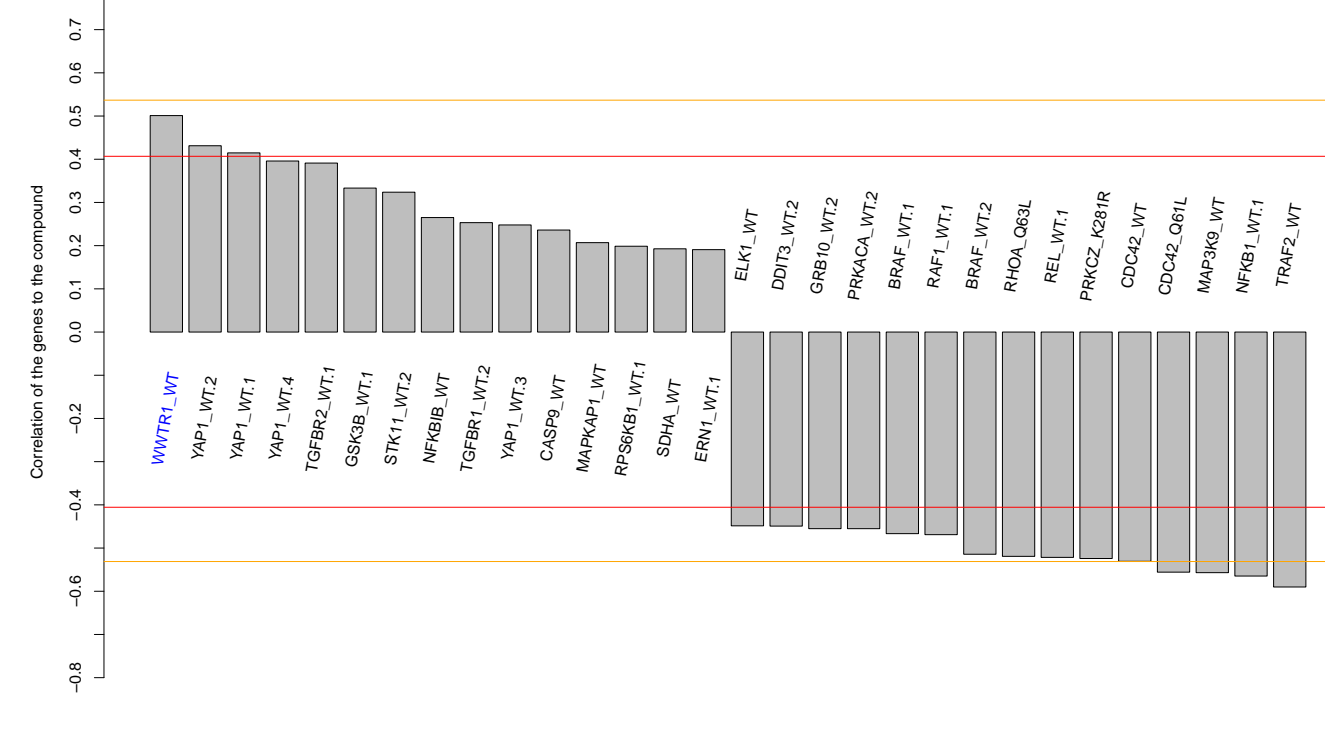
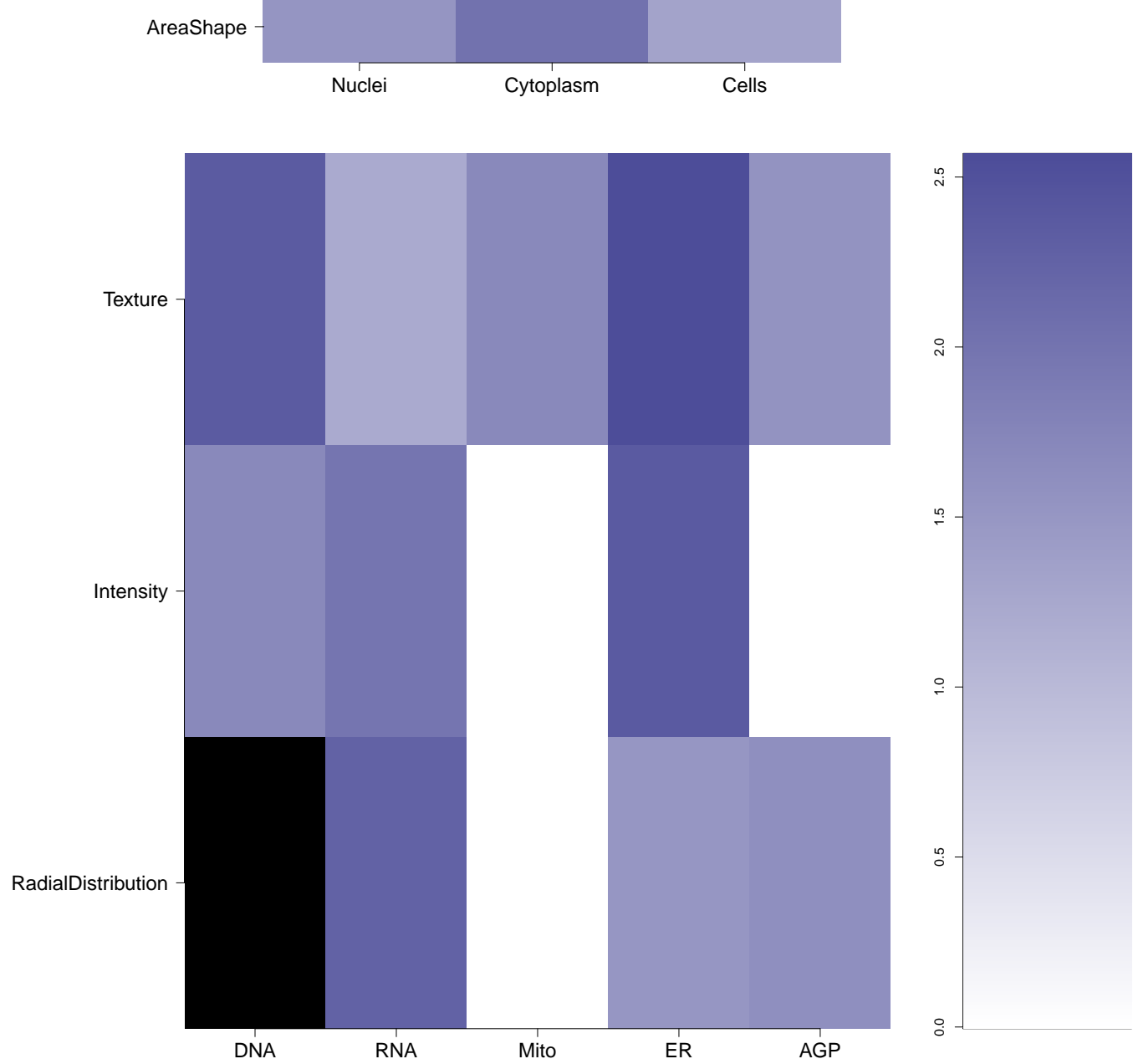
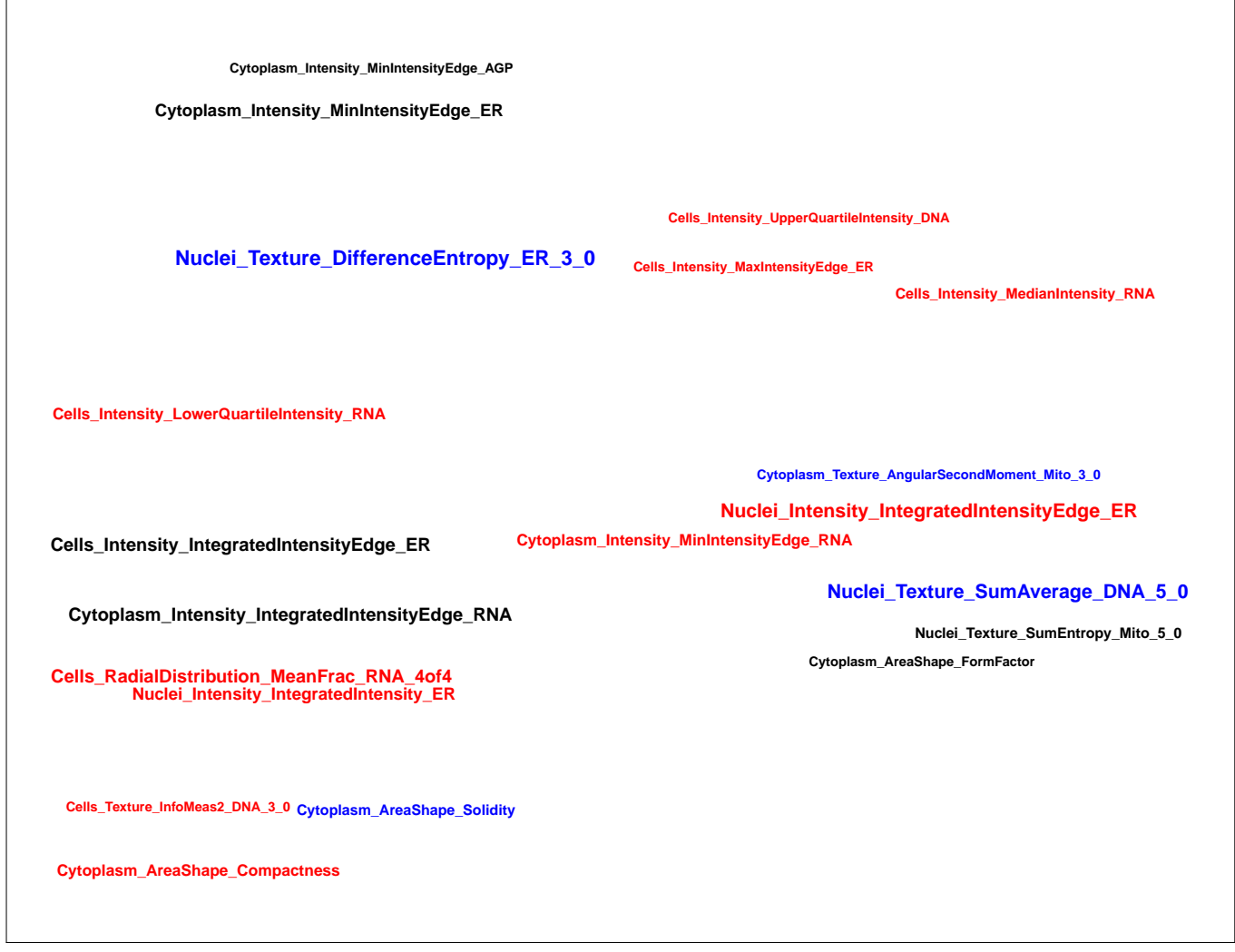
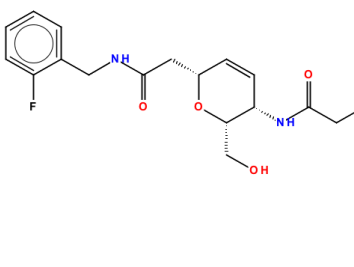
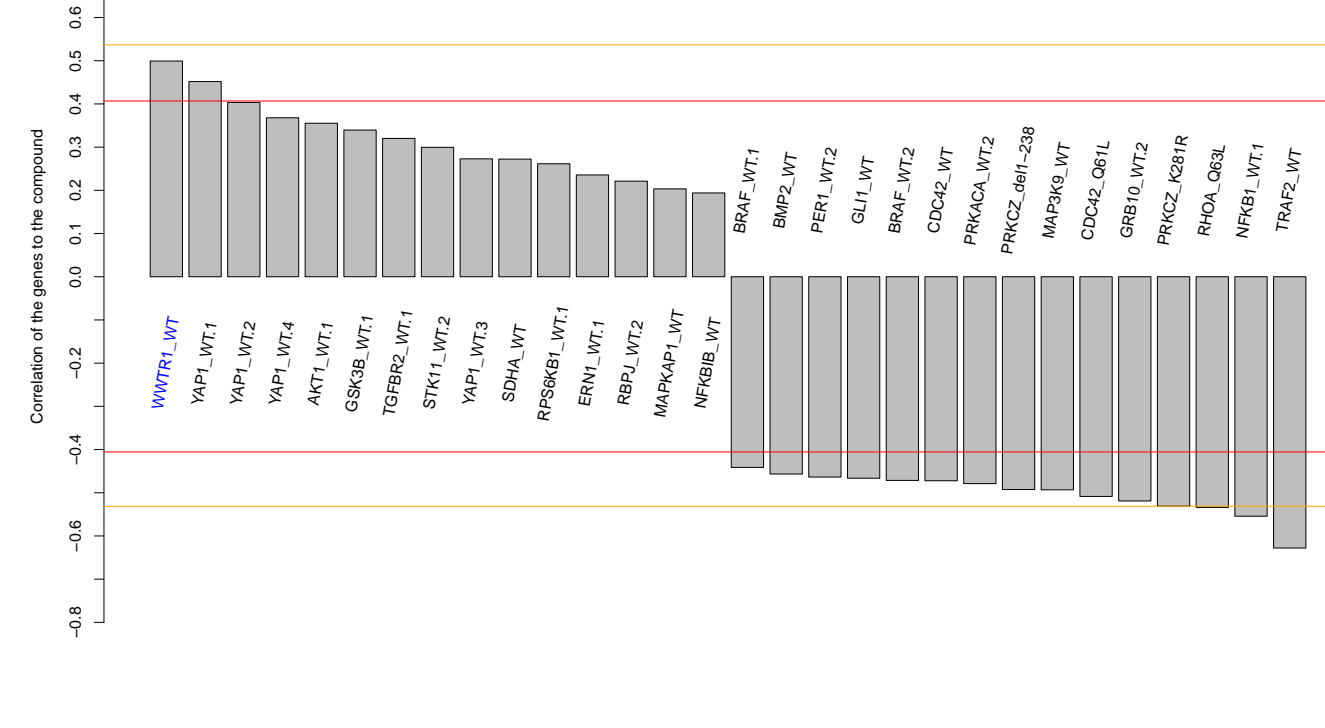
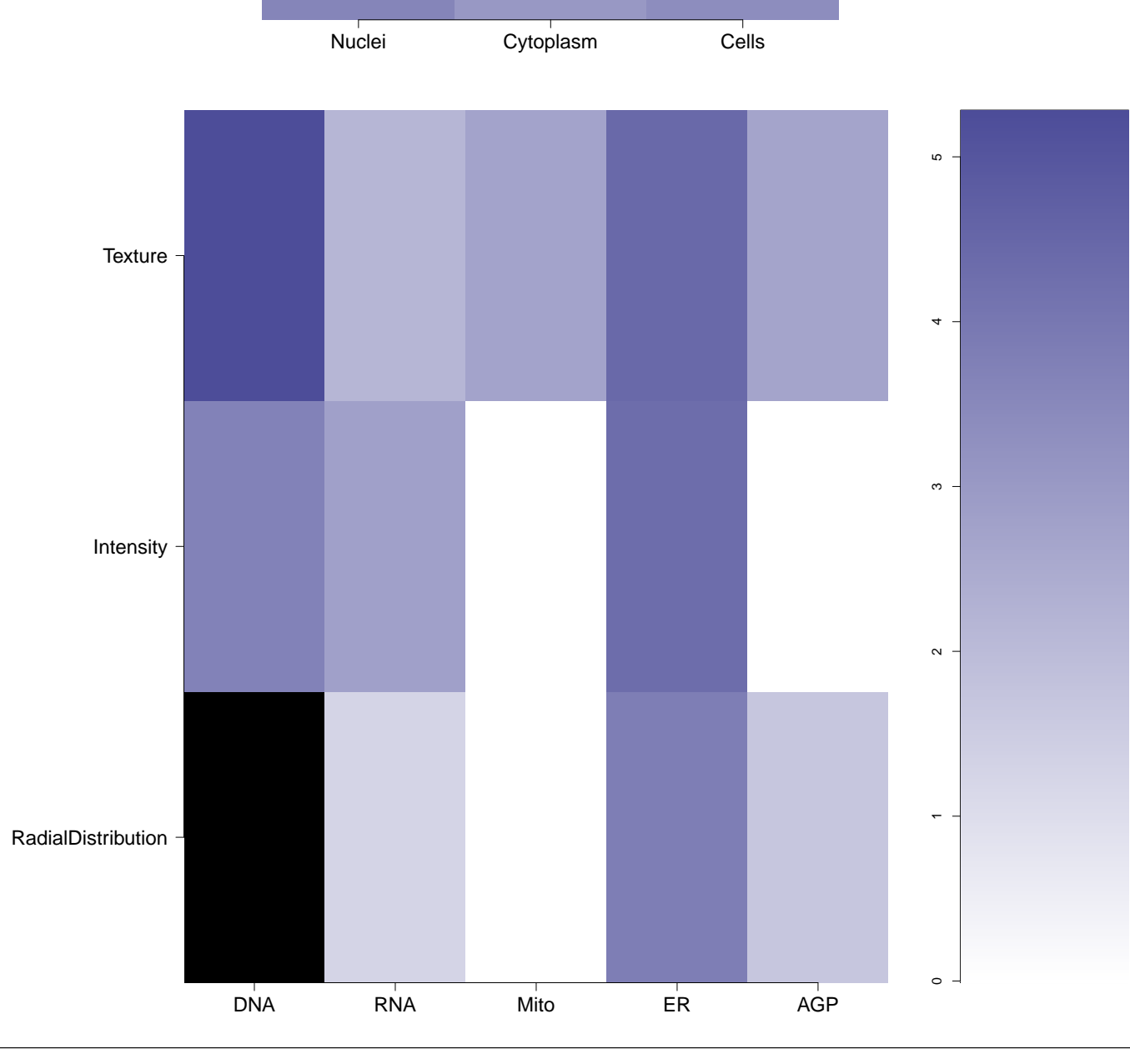
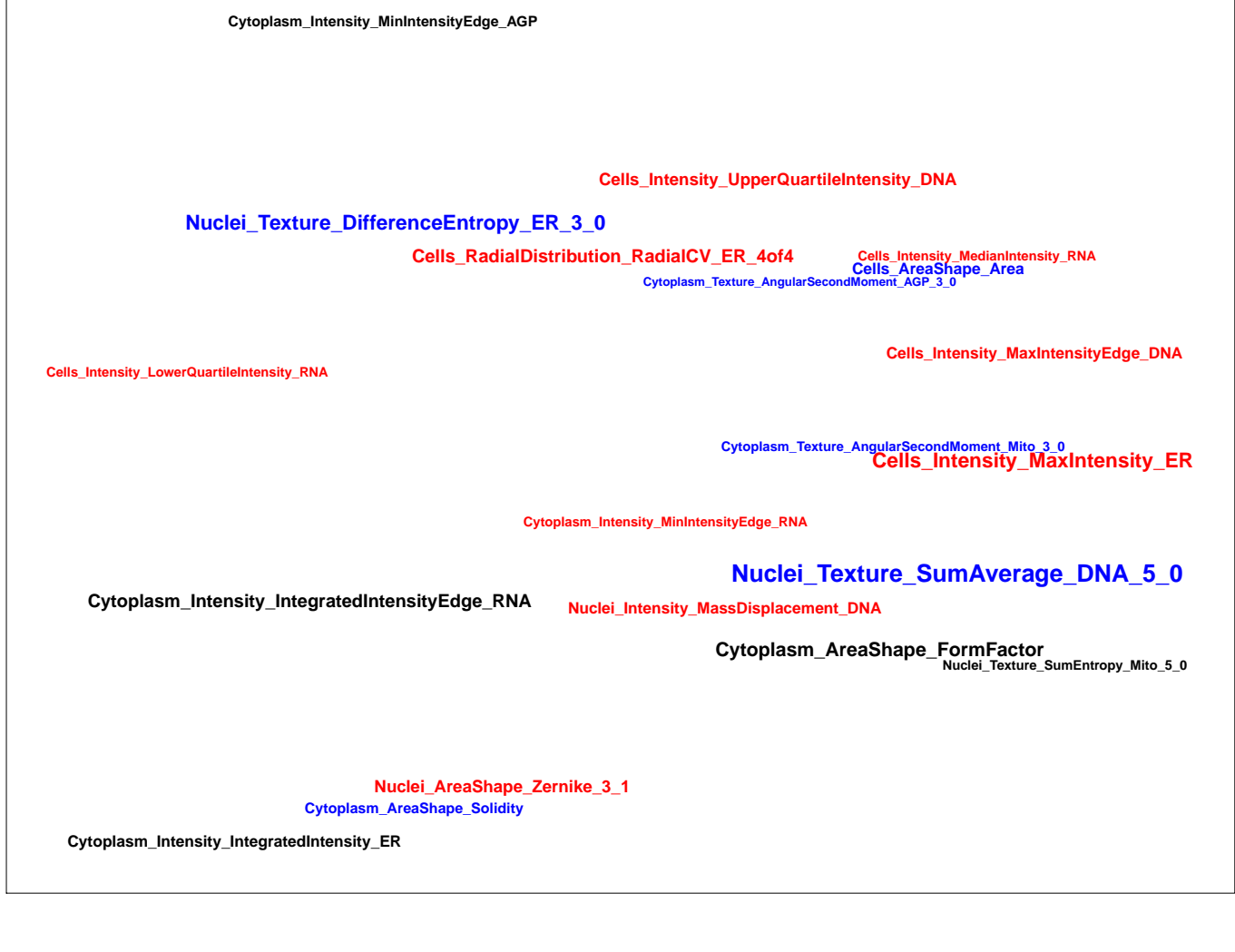
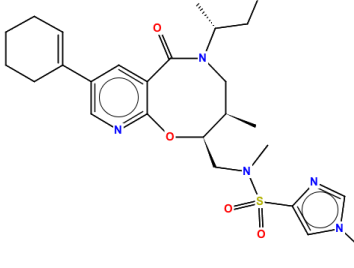
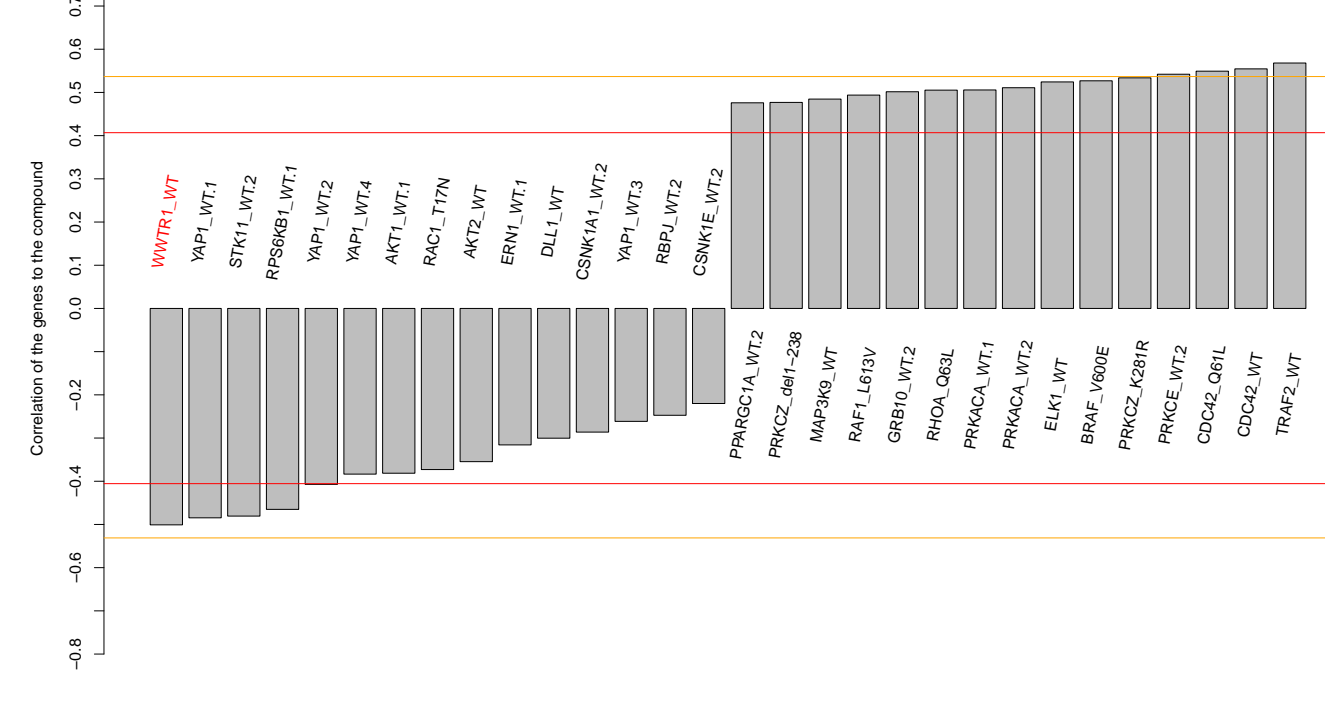
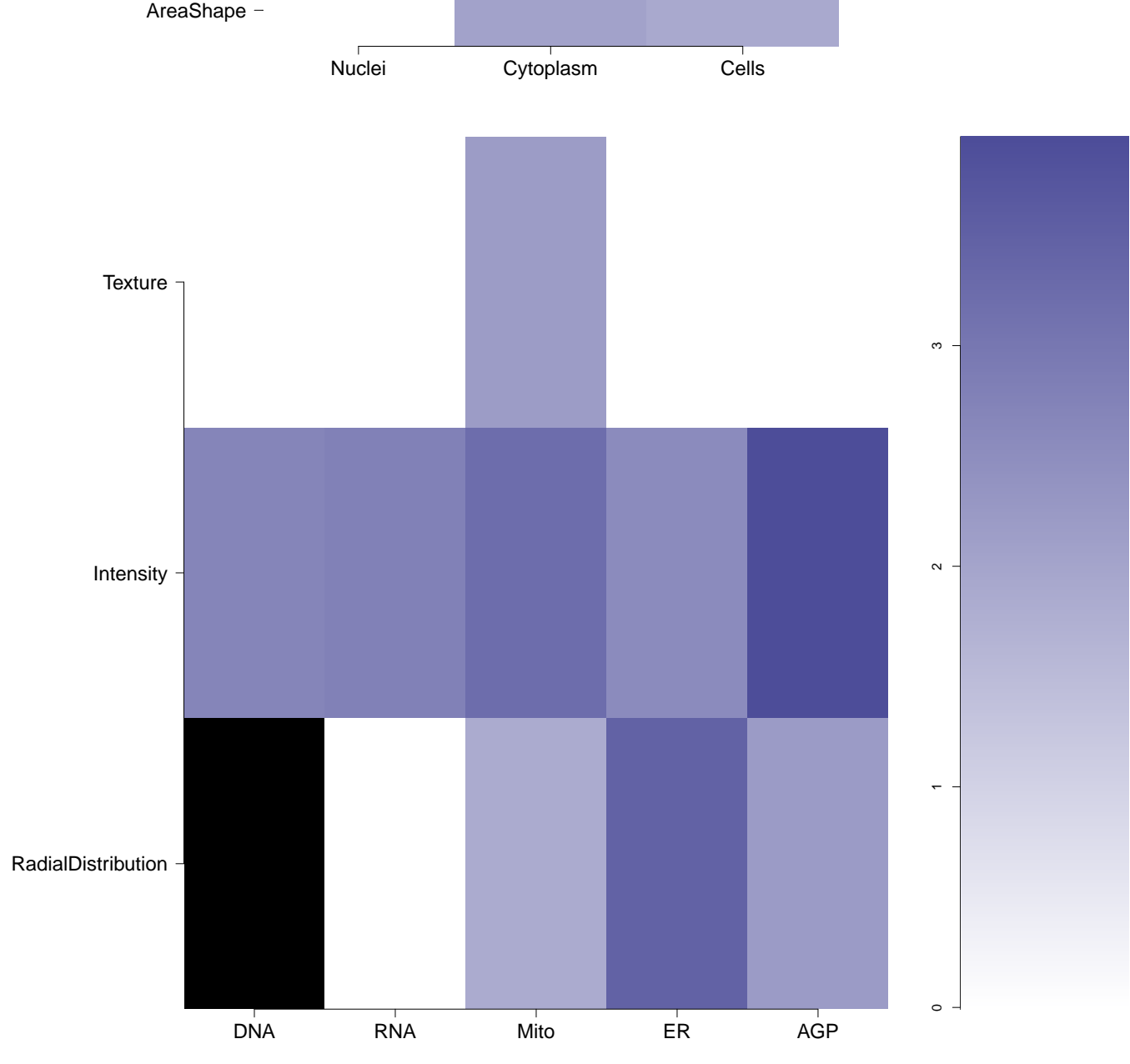



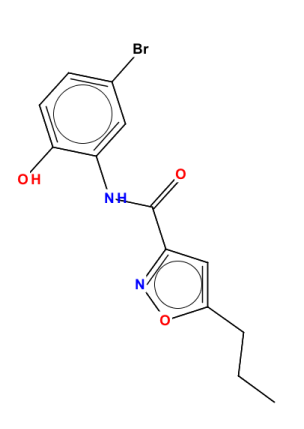
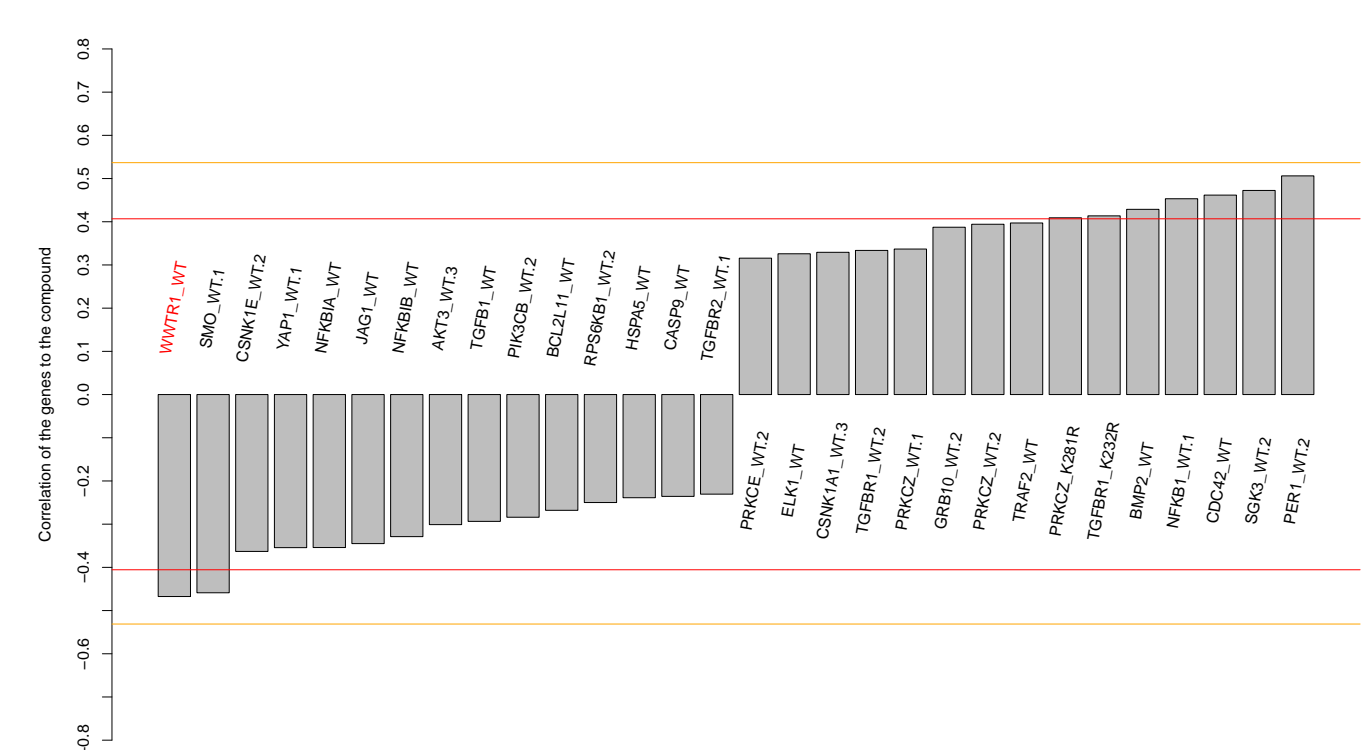
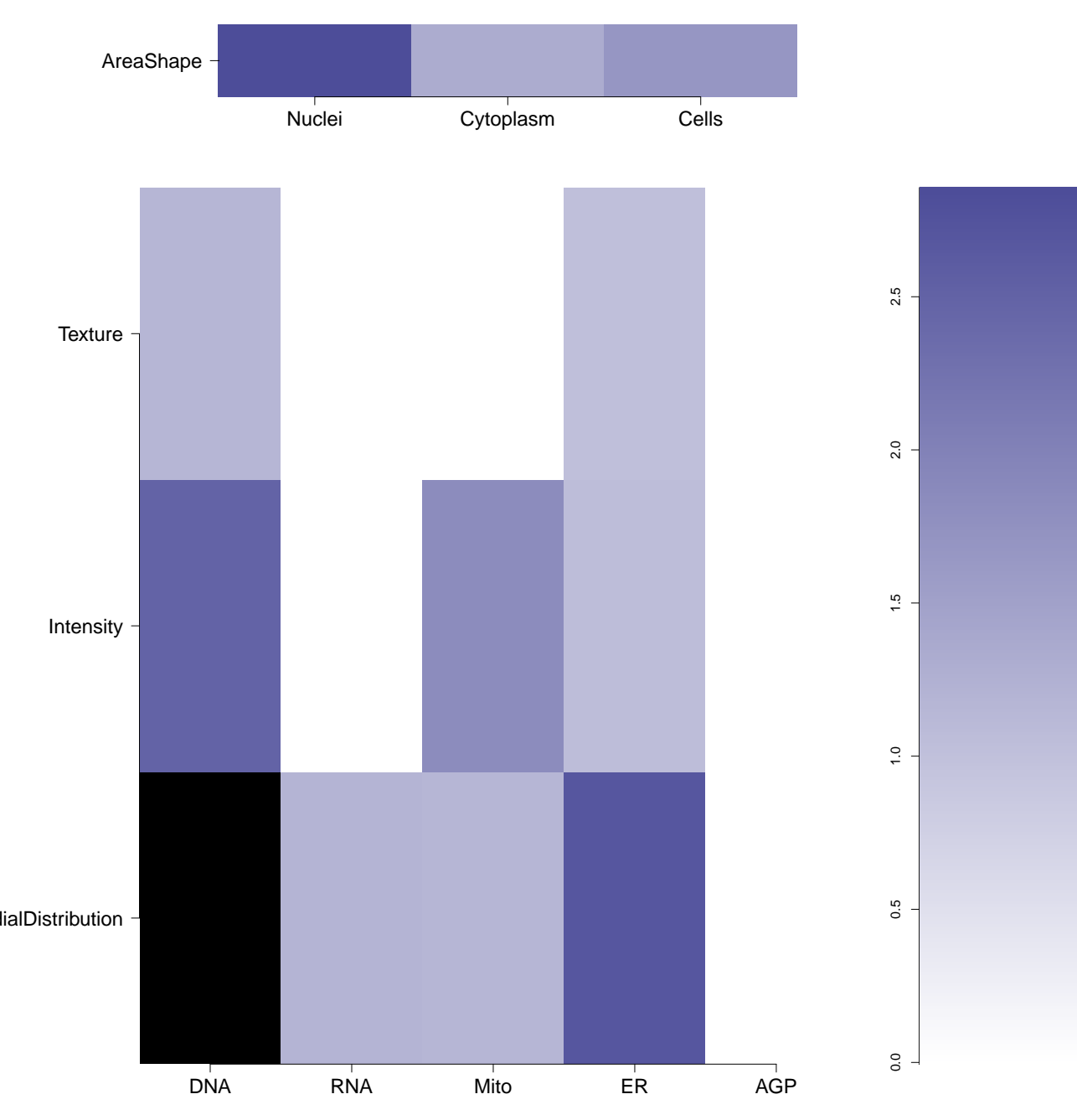

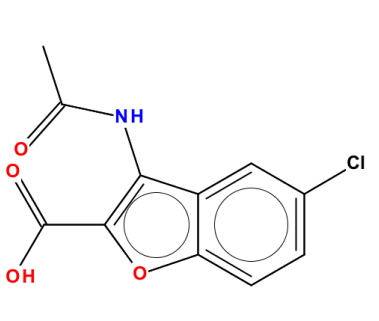
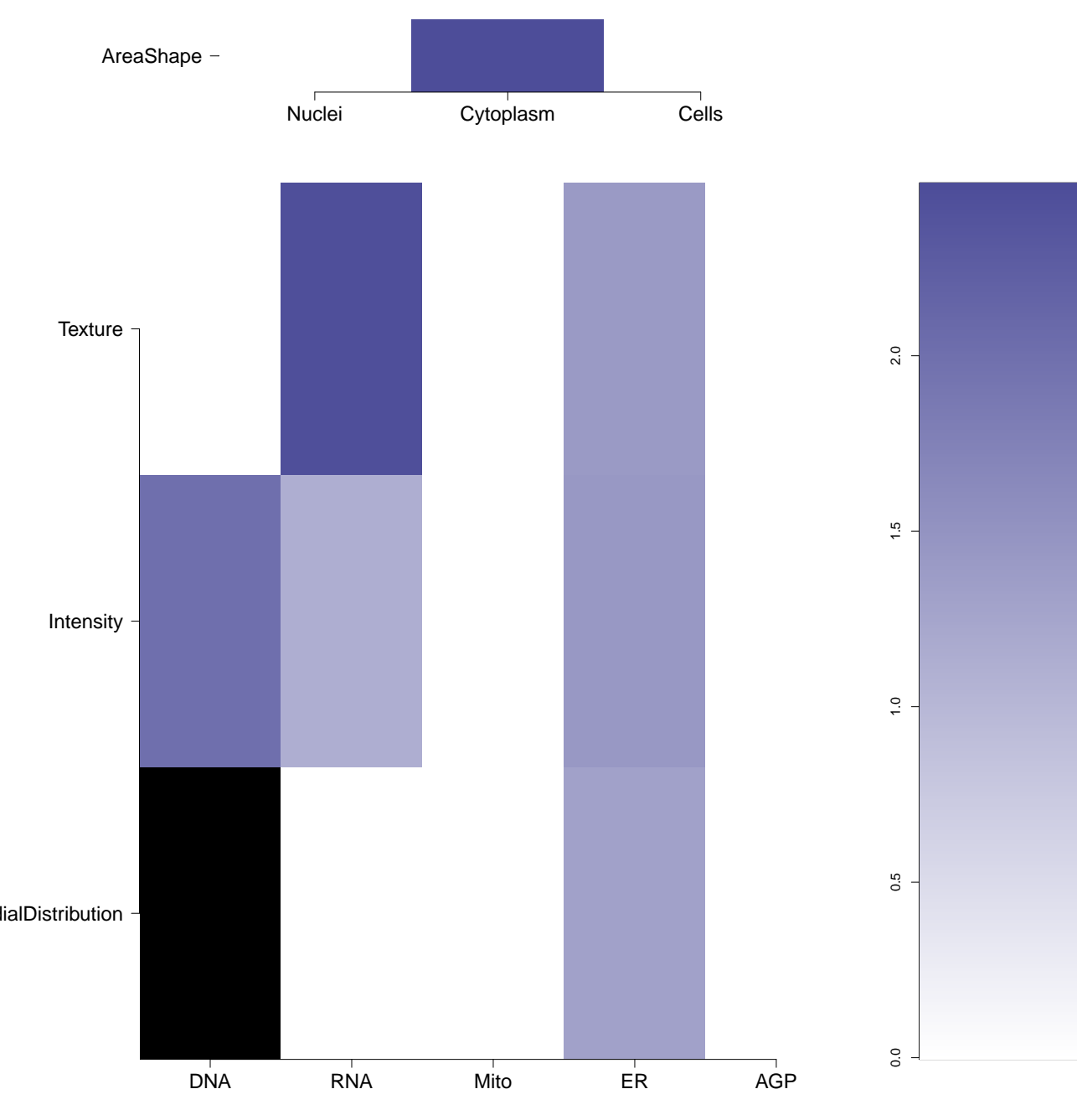

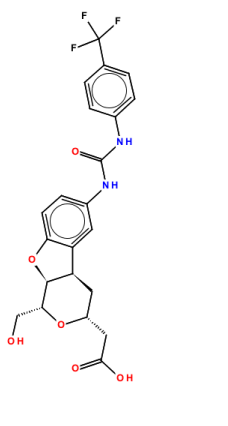
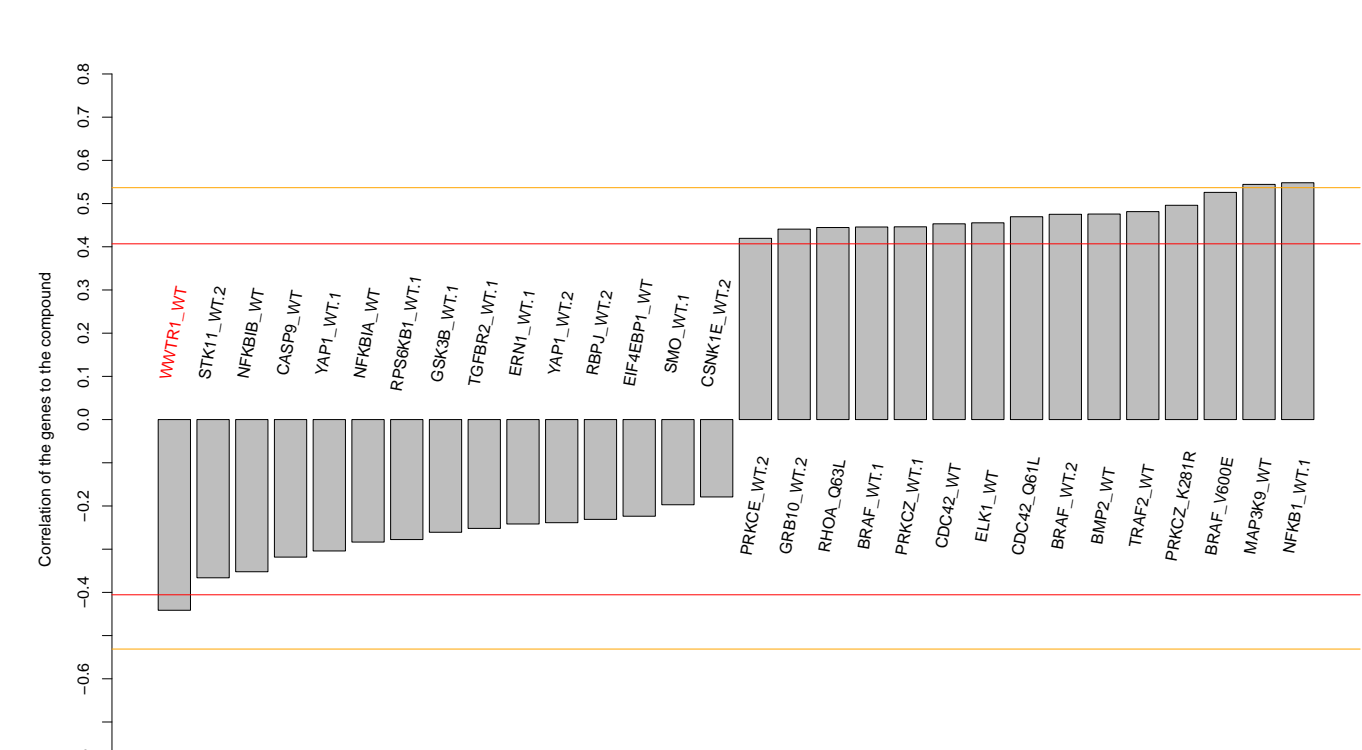
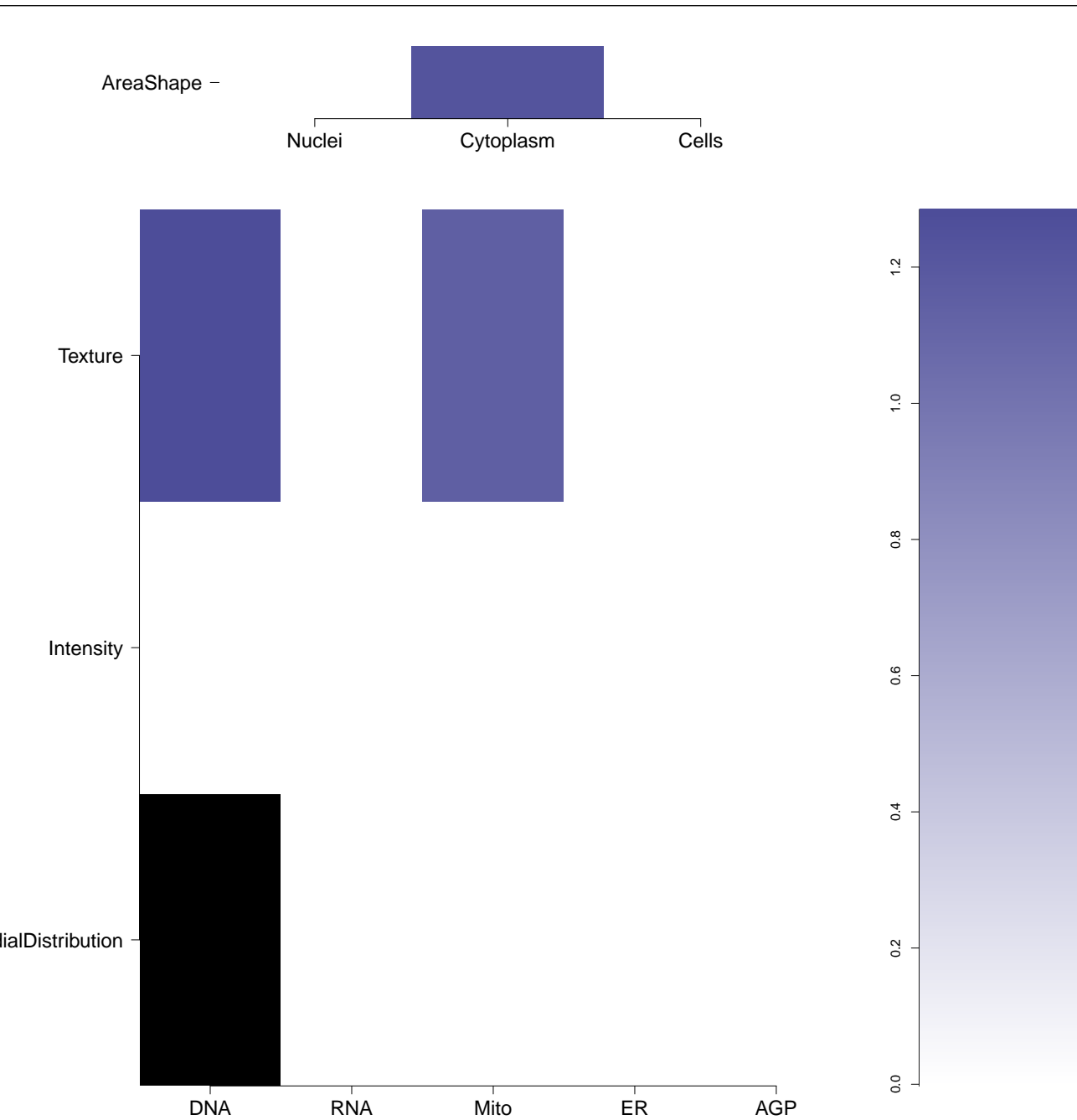
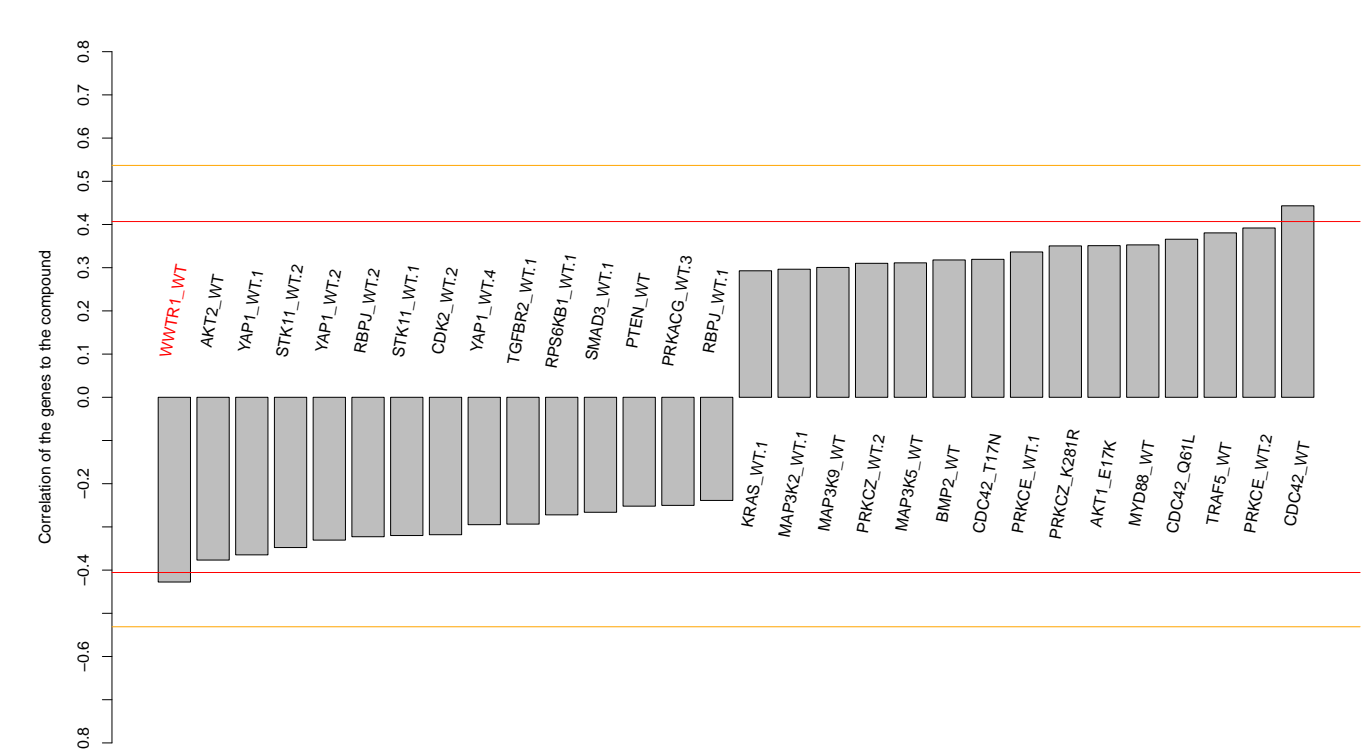
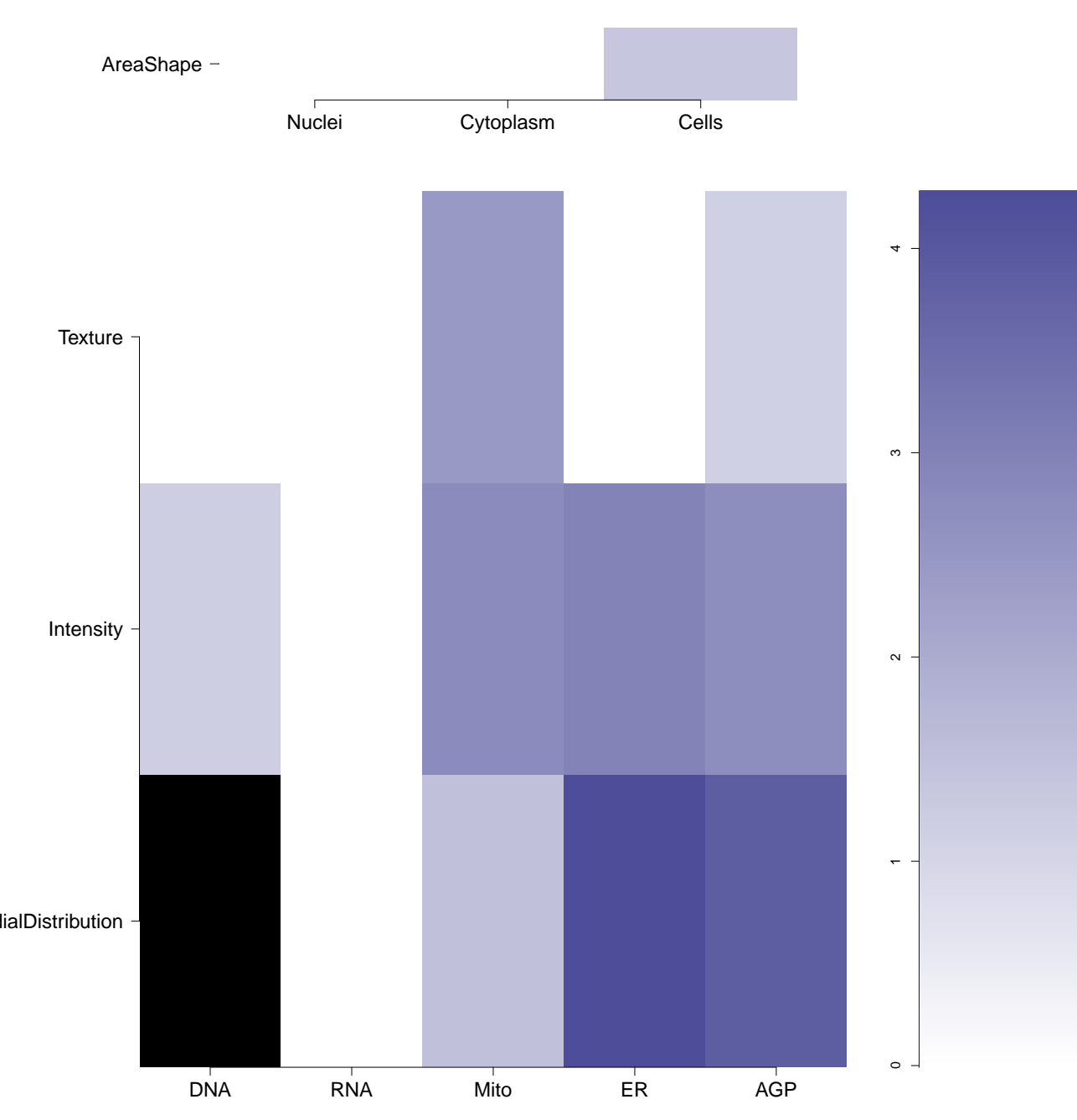
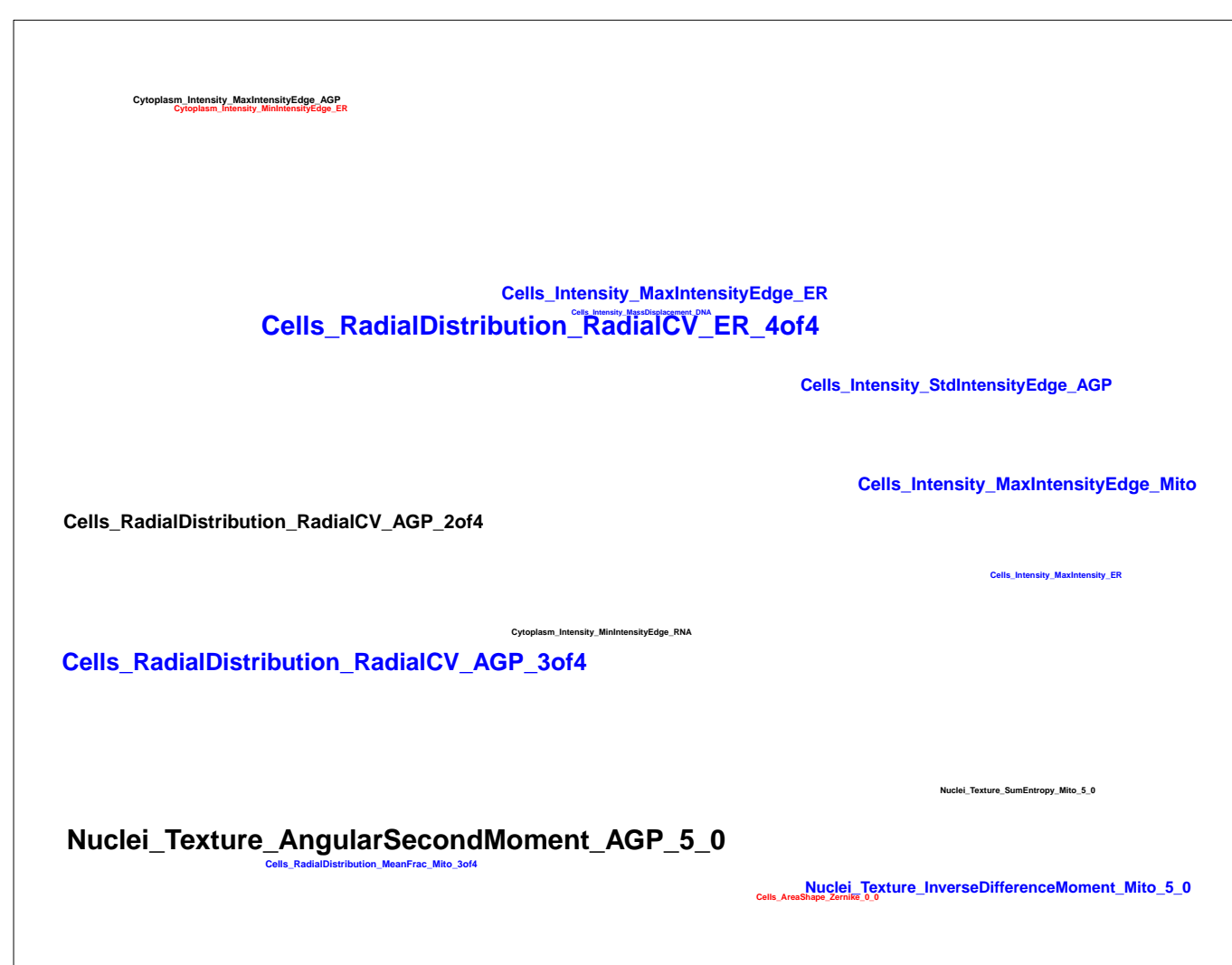
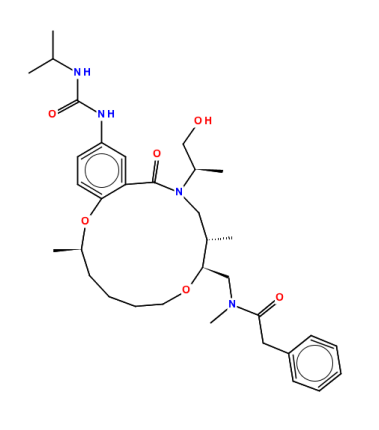
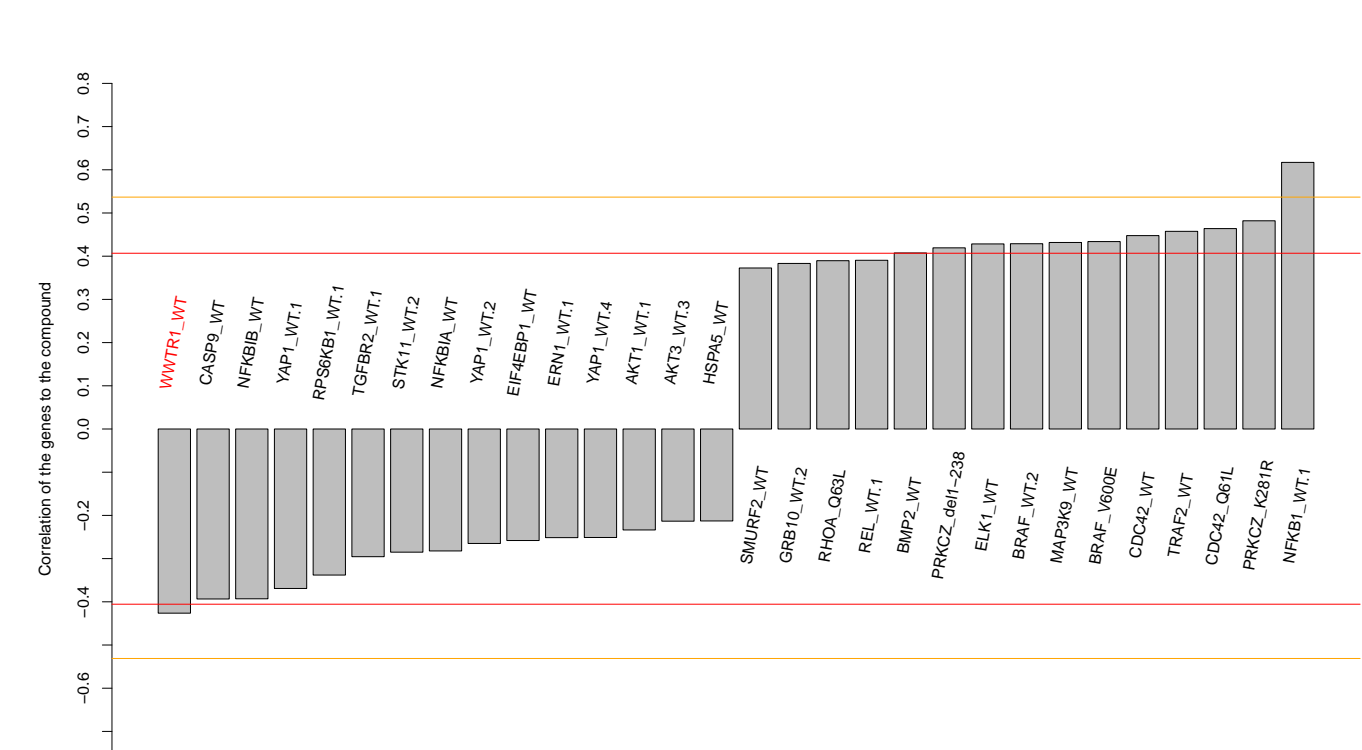
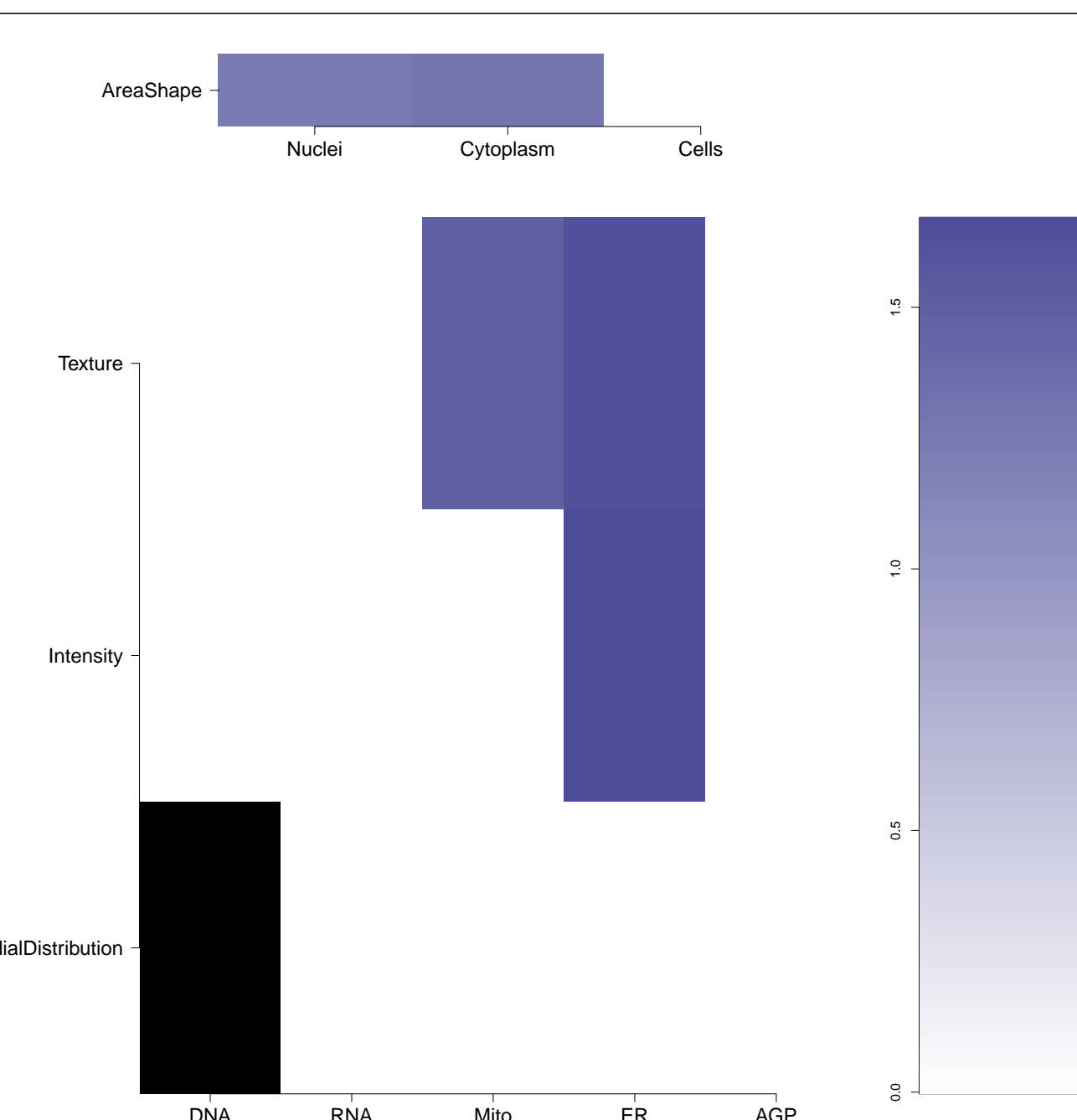
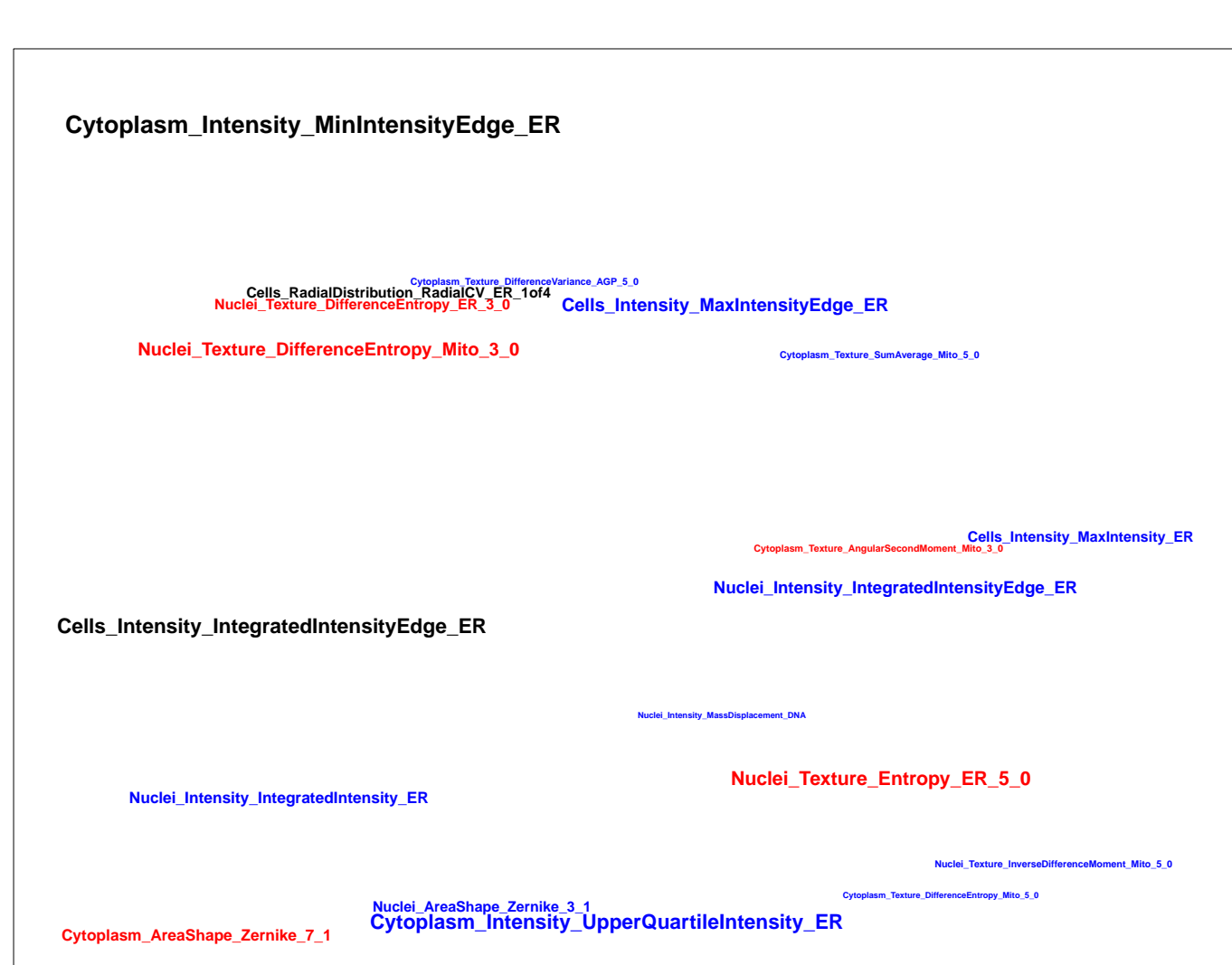
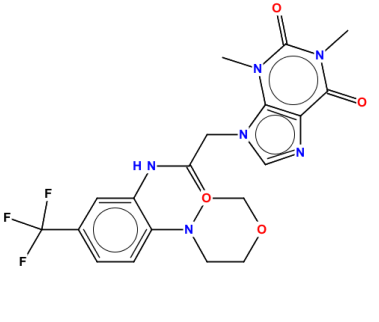
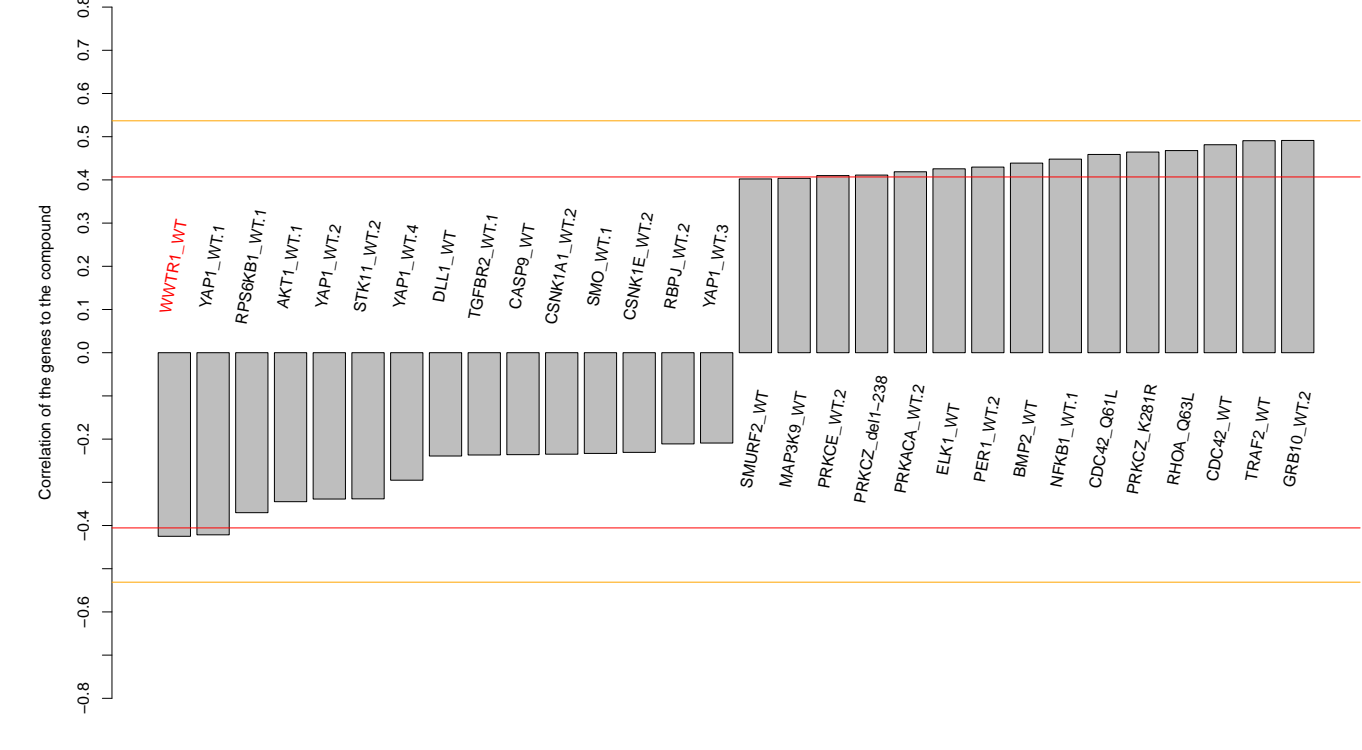
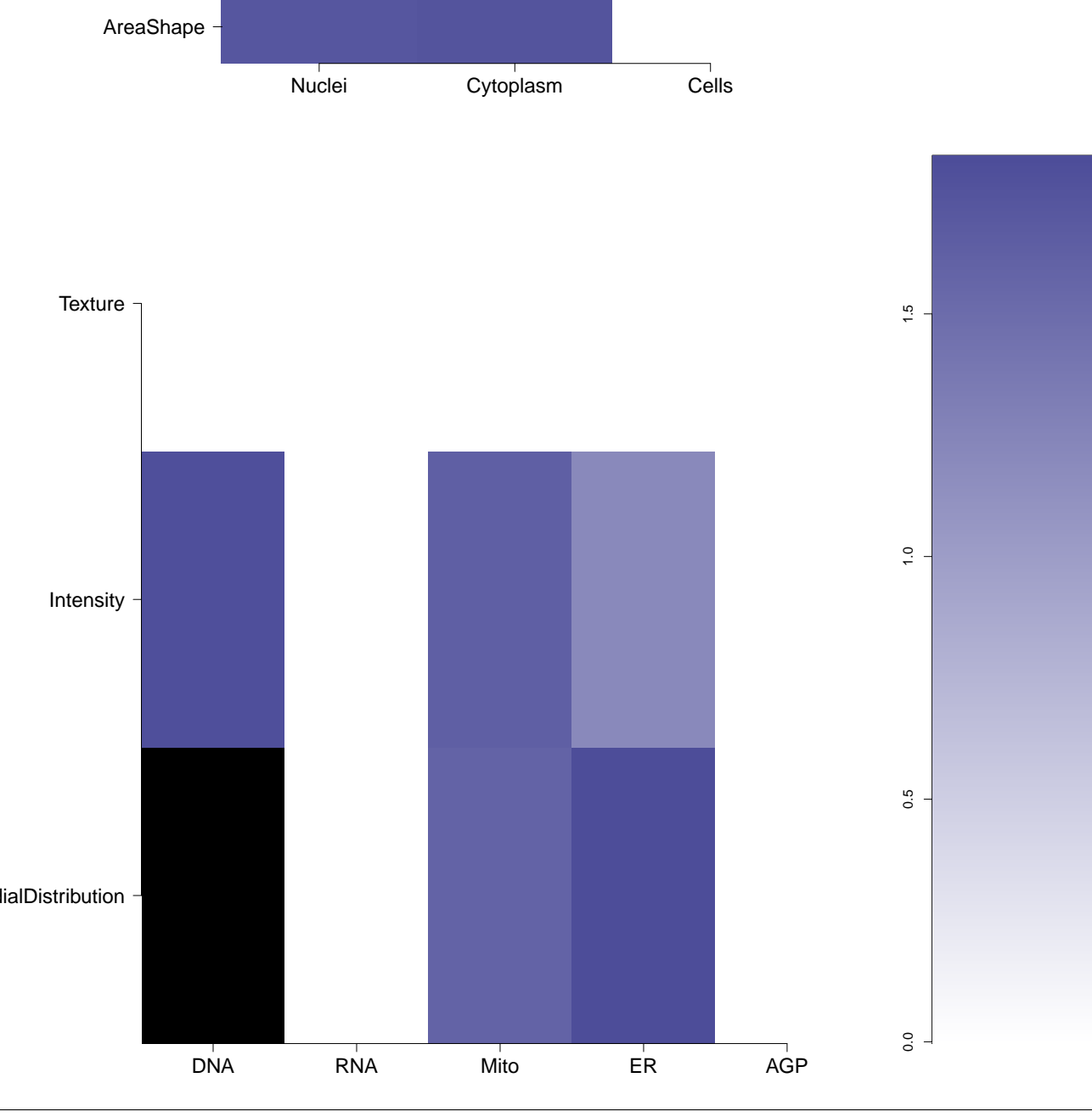
Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.52)	Correlation between compound 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-K98716460-001-01-0 PubChem CID : 54646067		NA (in 1 replicates)	0.59	0.260				Total number of assays tested in: 40.
BRD-K69073107-001-01-0 MLS003650002 SMR002339547 PubChem CID : 53382665		NA (in 1 replicates)	0.59	NA				Total number of assays tested in: 132.
BRD-K71511528-001-01-6 PubChem CID : 54641071		NA (in 1 replicates)	0.54	NA				Total number of assays tested in: 38.
BRD-K24991044-001-01-3 PubChem CID : 44500869		0.69 (in 4 replicates)	0.54	NA				Total number of assays tested in: 47. 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)

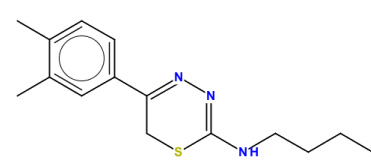
NA (in 1 replicates)



BRD-K33544525-001-01-7 PubChem CID : 54646546		0.71 (in 4 replicates)	0.52	0.658				Total number of assays tested in: 37.
BRD-K76407984-001-01-9 PubChem CID : 54641072		NA (in 1 replicates)	0.51	NA				Total number of assays tested in: 38.
BRD-K13515789-001-01-2 PubChem CID : 54638030		0.84 (in 3 replicates)	0.50	0.663				Total number of assays tested in: 38.
BRD-K65067638-001-02-2 MLS003129556 SMR001834002 PubChem CID : 44505365		0.66 (in 3 replicates)	0.50	0.970				Total number of assays tested in: 223. Active in the following assays: <ul style="list-style-type: none">Inhibition of T.cruzi proliferation in culture Measured in Cell-Based System Using Plate Reader - 2138-01_Inhibitor_SinglePoint_HTS_Activity (AID 624255)
BRD-K26767410-001-01-1 PubChem CID : 54641073		NA (in 1 replicates)	0.50	NA				Total number of assays tested in: 38.
BRD-K04771555-001-01-4 PubChem CID : 54619160		0.76 (in 4 replicates)	-0.50	0.136				Total number of assays tested in: 39.

BRD-K85999141-001-06-3 SMR000093352 MLS000116375 AC1NSEVR MLS002586387 BDBM68598 HMS2246N16 ZINC2465754 PubChem CID : 5308512		NA (in 1 replicates)	-0.47	NA				<p>Total number of assays tested in: 779. Active in the following assays:</p> <ul style="list-style-type: none"> Cell Proliferation and Viability (Cytotoxicity) Primary Assay 60K MLSMR (AID 463) Promiscuous and Specific Inhibitors of AmpC Beta-Lactamase (assay without detergent) (AID 585) High Throughput Screen to Identify Compounds that increase expression of NF-kB in Human Neuronal Cells - Primary Screen (AID 1239) Anti-Viral Drugs Against Arbovirus Infections, a Primary Screen (AID 1251) Primary cell-based high-throughput screening assay to measure PERK inhibition (AID 1416) MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) qHTS screen for small molecules that induce genotoxicity in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504466) Allosteric Agonists of the Human D1 Dopamine Receptor: qHTS (AID 504660) Primary qHTS for delayed death inhibitors of the malarial parasite plasid, 48 hour incubation (AID 504832) Screen for inhibitors of the SWI/SNF chromatin remodeling complex (esBAP) 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) Screen for inhibitors of the SWI/SNF chromatin remodeling complex (esBAP) 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) Luminescence-based cell-based primary high throughput screening assay to identify agonists of the DAF-12 from the parasite H. glycines (hgDAF-12). (AID 687014)
BRD-K73953291-001-06-2 MLS000035731 AC1LDESP HMS1675M03 ZINC380820 STK731381 BAS 01507272 SMR000010547 PubChem CID : 646952		NA (in 1 replicates)	-0.46	NA				<p>Total number of assays tested in: 774. Active in the following assays:</p> <ul style="list-style-type: none"> Primary cell-based high throughput screening assay to measure STAT3 activation (AID 871) A screen for compounds that inhibit cell wall-associated teichoic acid synthesis in <i>Staphylococcus aureus</i> (AID 463173) Luminescence Cell-Free Homogeneous Dose Retest to Confirm Inhibitors of GSK-3 alpha (AID 463203) Primary qHTS for delayed death inhibitors of the malarial parasite plasid, 96 hour incubation (AID 504834)
BRD-K94843767-001-01-6 PubChem CID : 54646105		NA (in 1 replicates)	-0.44	0.319				Total number of assays tested in: 41.
BRD-K05221385-001-01-5 PubChem CID : 54619029		0.77 (in 4 replicates)	-0.43	0.708				Total number of assays tested in: 36.
BRD-K77983109-001-01-8 PubChem CID : 44490239		0.62 (in 4 replicates)	-0.43	NA				Total number of assays tested in: 50.
BRD-K17186708-001-05-7 AC1LKFPPL SMR000077195 MLS000050120 HMS2436F23 ZINC679646 ZINC00679646 PubChem CID : 1017568		0.57 (in 4 replicates)	-0.42	NA				<p>Total number of assays tested in: 779. Active in the following assays:</p> <ul style="list-style-type: none"> CYP2C9 Assay (AID 777)

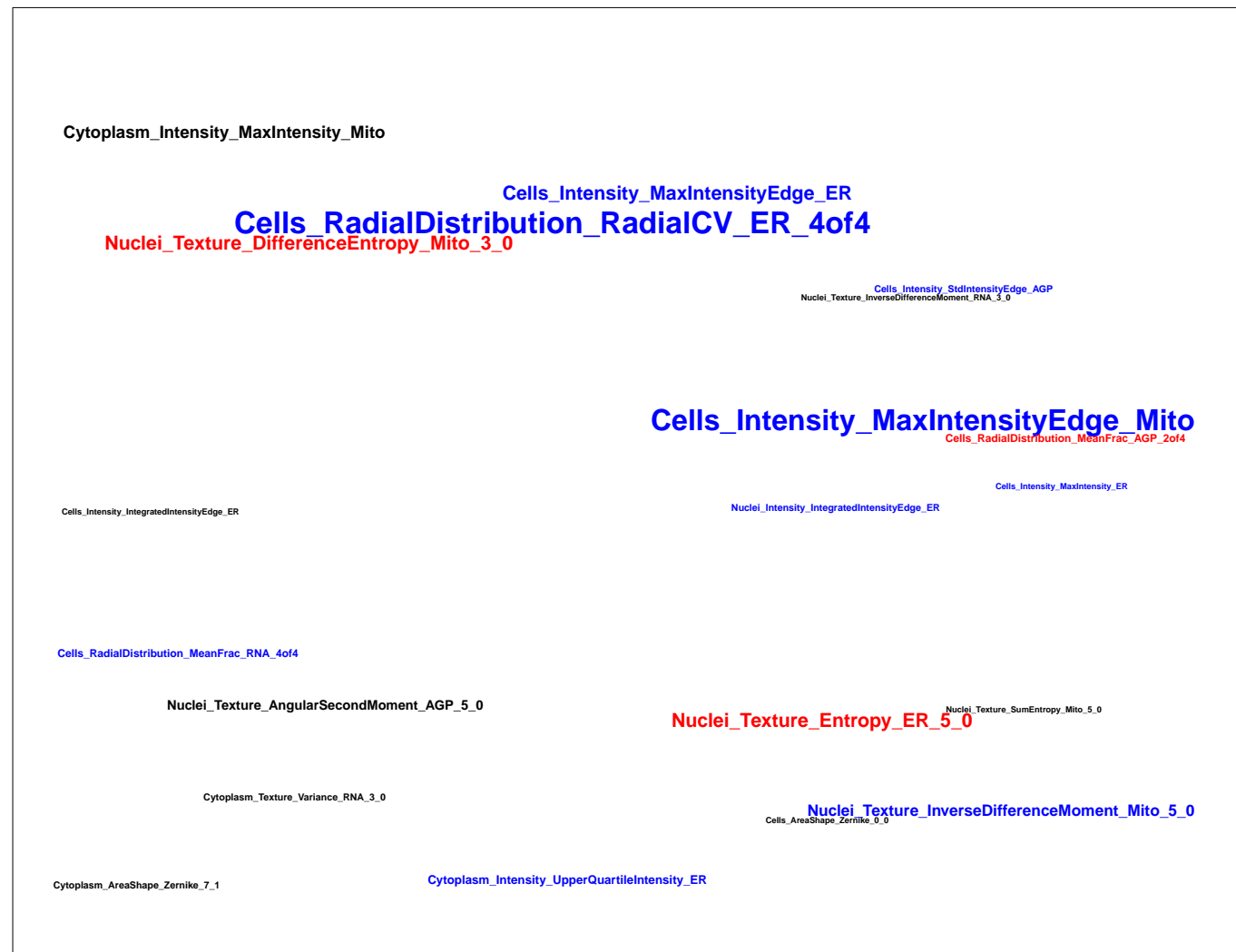
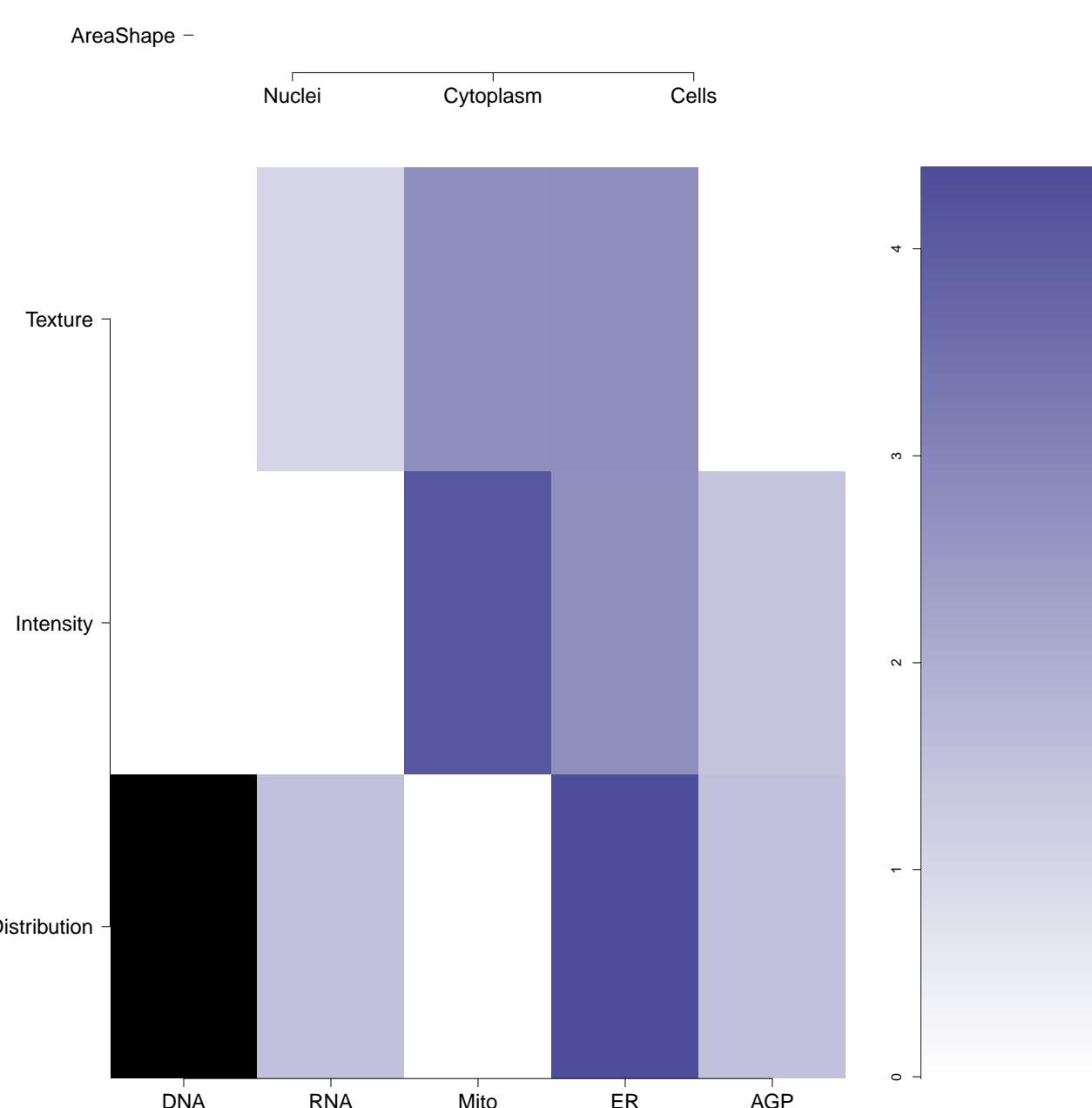
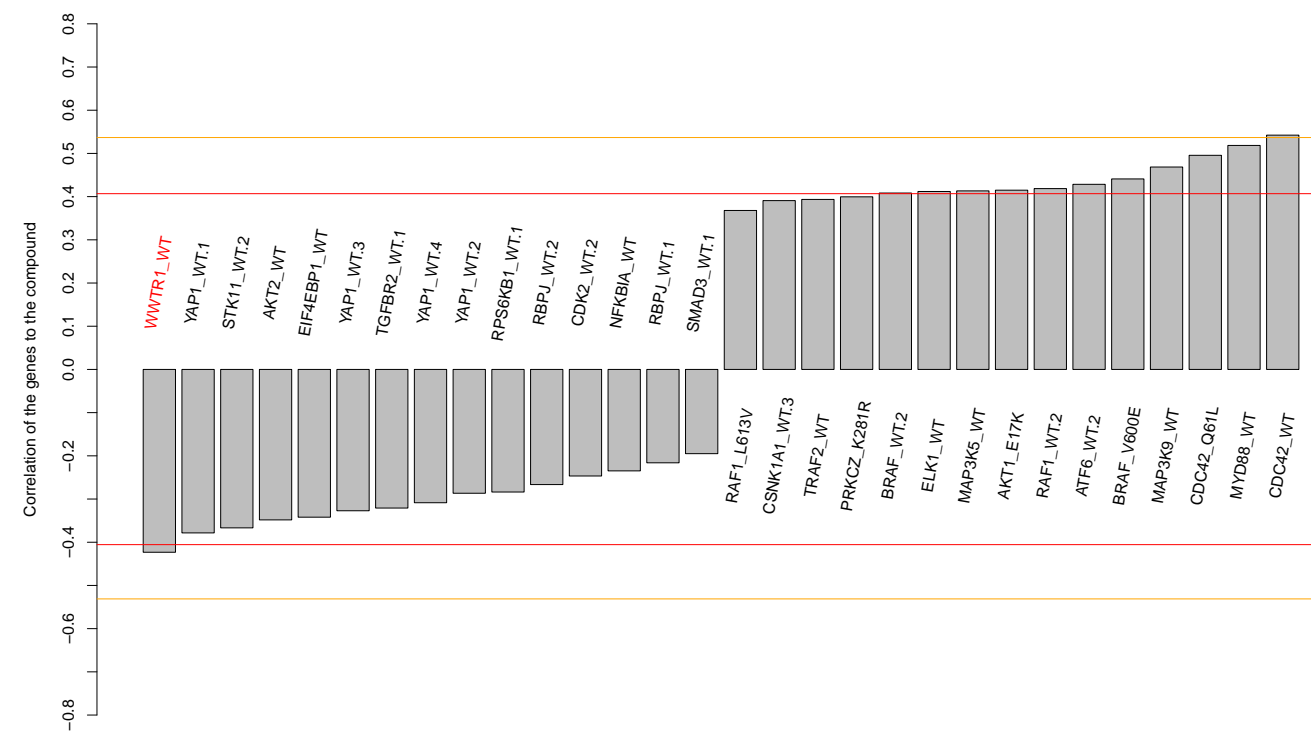
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NA (in 1 replicates)

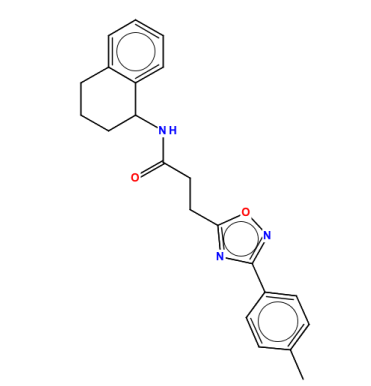
-0.42

NA



- Total number of assays tested in: 602. Active in the following assays:
- gHTS Assays for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030)
- gHTS Assays for Enhancers of SMN2 Splice Variant Expression (AID 1458)
- MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814)
- Cycloheximide Counterscreens for Small Molecule Inhibitors of Shiga Toxin (AID 2314)
- A gHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315)
- VP16 counterscreen gHTS for inhibitors of ROR gamma transcriptional activity (AID 2546)
- gHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)
- gHTS Assay for RalG Promoter Activators (AID 485297)
- gHTS Assay for NPC1 Promoter Activators (AID 485313)
- gHTS Assays for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)
- gHTS profiling assay for firefly luciferase inhibitor/activator using purified enzyme and Km concentrations of substrates (contaminator for miR-21 project) (AID 588342)
- gHTS of TDP-43 Inhibitors (AID 625204)
- gHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504)

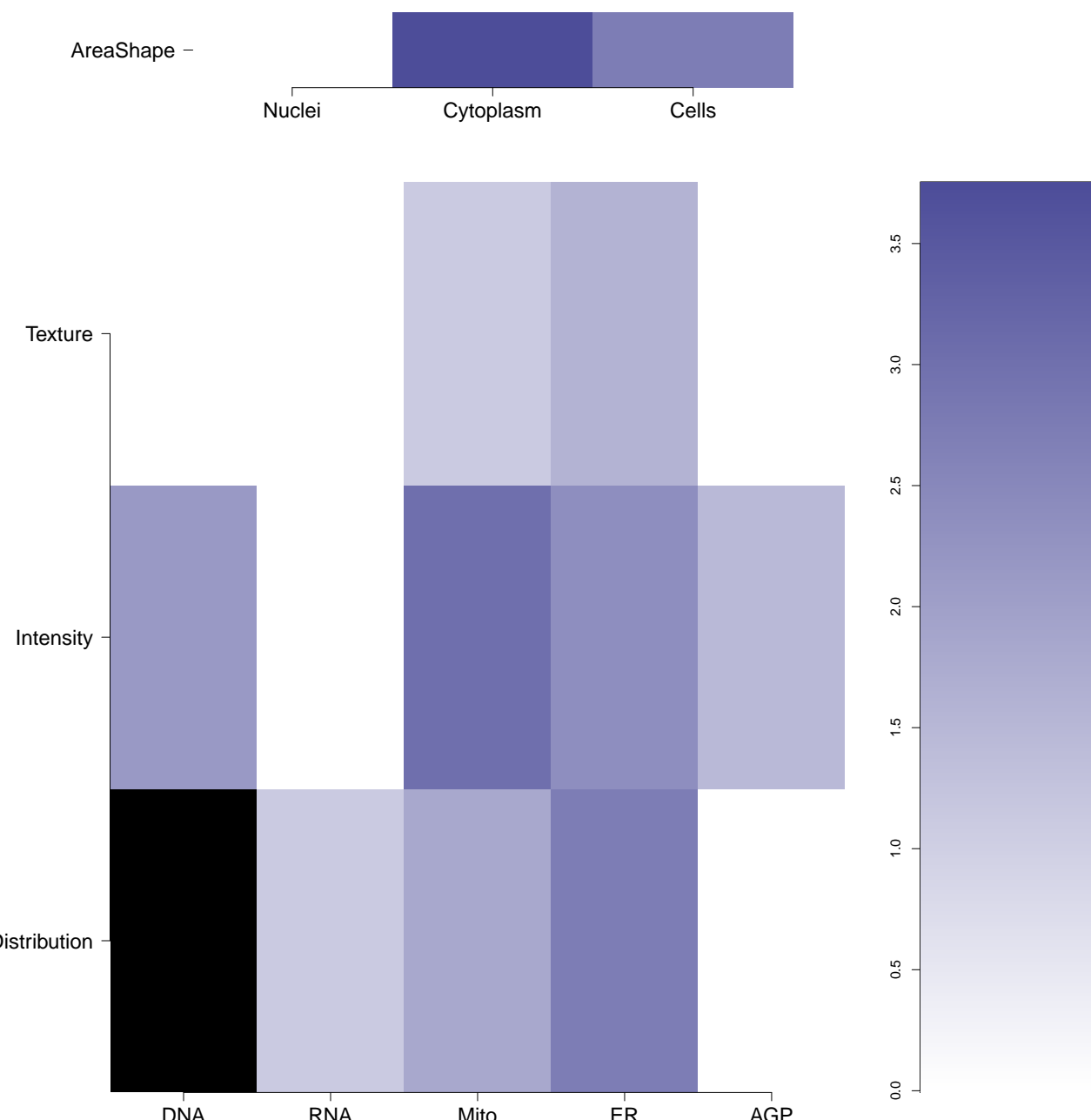
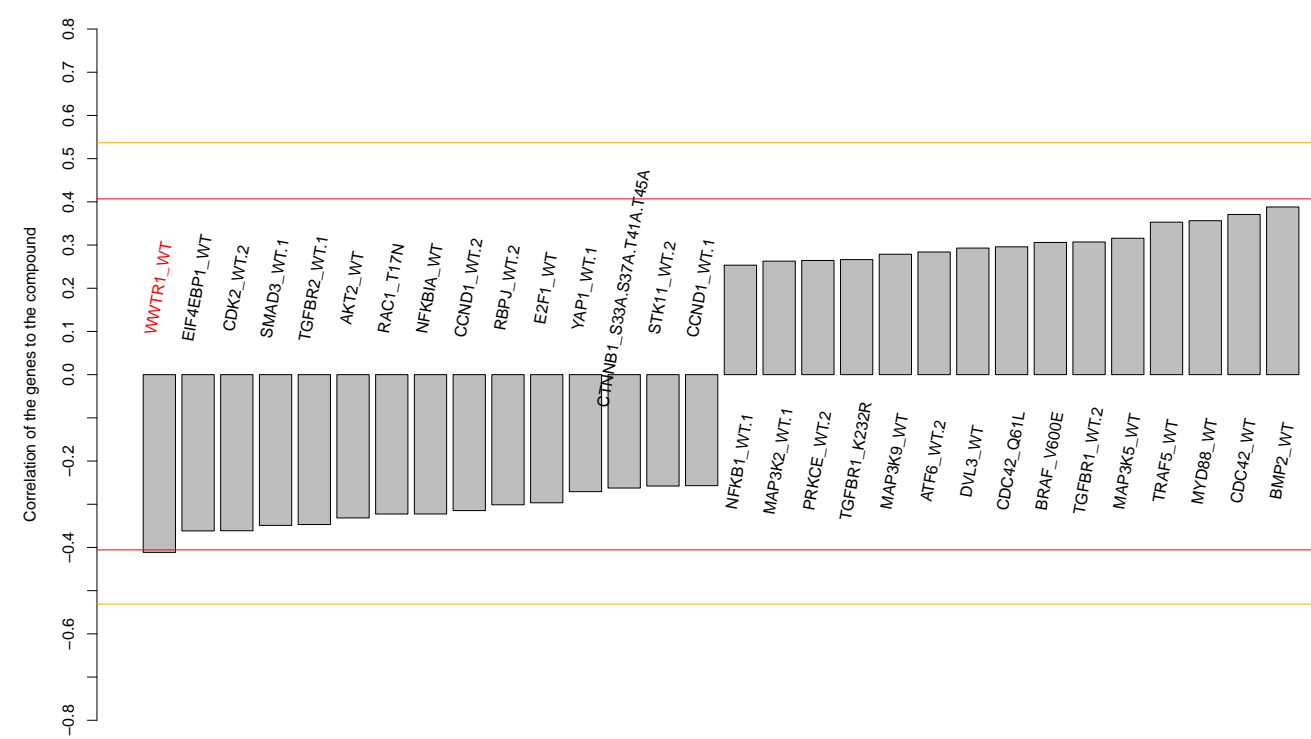
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PB184545926
PubChem CID : 3243008



0.69 (in 3 replicates)

-0.41

NA



Total number of assays tested in: 792. Active in the following assays:

- Human H69AR Lung Tumor Cell Growth Inhibition Assay - 86K Screen (Aid 598)
- CYP2C9 Assay (Aid 777)
- gHTS Assay for Agonists of the Thyroid Stimulating Hormone Receptor: Activators of Intracellular cAMP Concentrations in Parental HEK 293 (Aid 938)
- gHTS Multiplex Assay to Identify Dual Action Probes in a Cell Model of Huntington: Aggregate Formation (GFP) (Aid 1688)
- Primary qHTS for delayed death inhibitors of the malarial parasite plasmod, 96 hour incubation (Aid 7083A)
- gHTS for Inhibitors of human tyrosyl-DNA topoisomerase 1 (TDP1): gHTS in cells in absence of CPT (Aid 68097S)
- gHTS for Inhibitors of human tyrosyl-DNA topoisomerase 1 (TDP1): gHTS in cells in presence of CPT (Aid 686979)