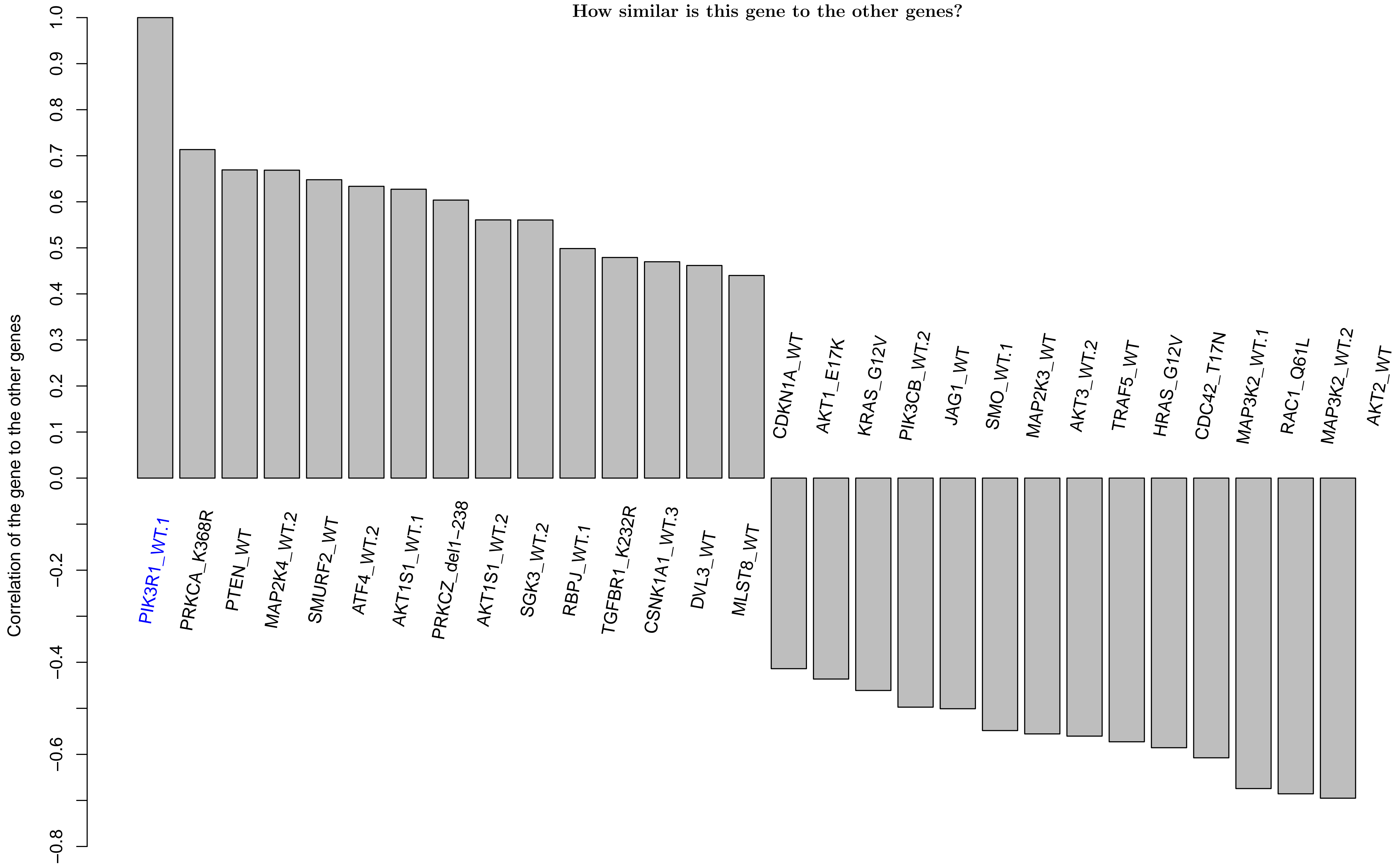
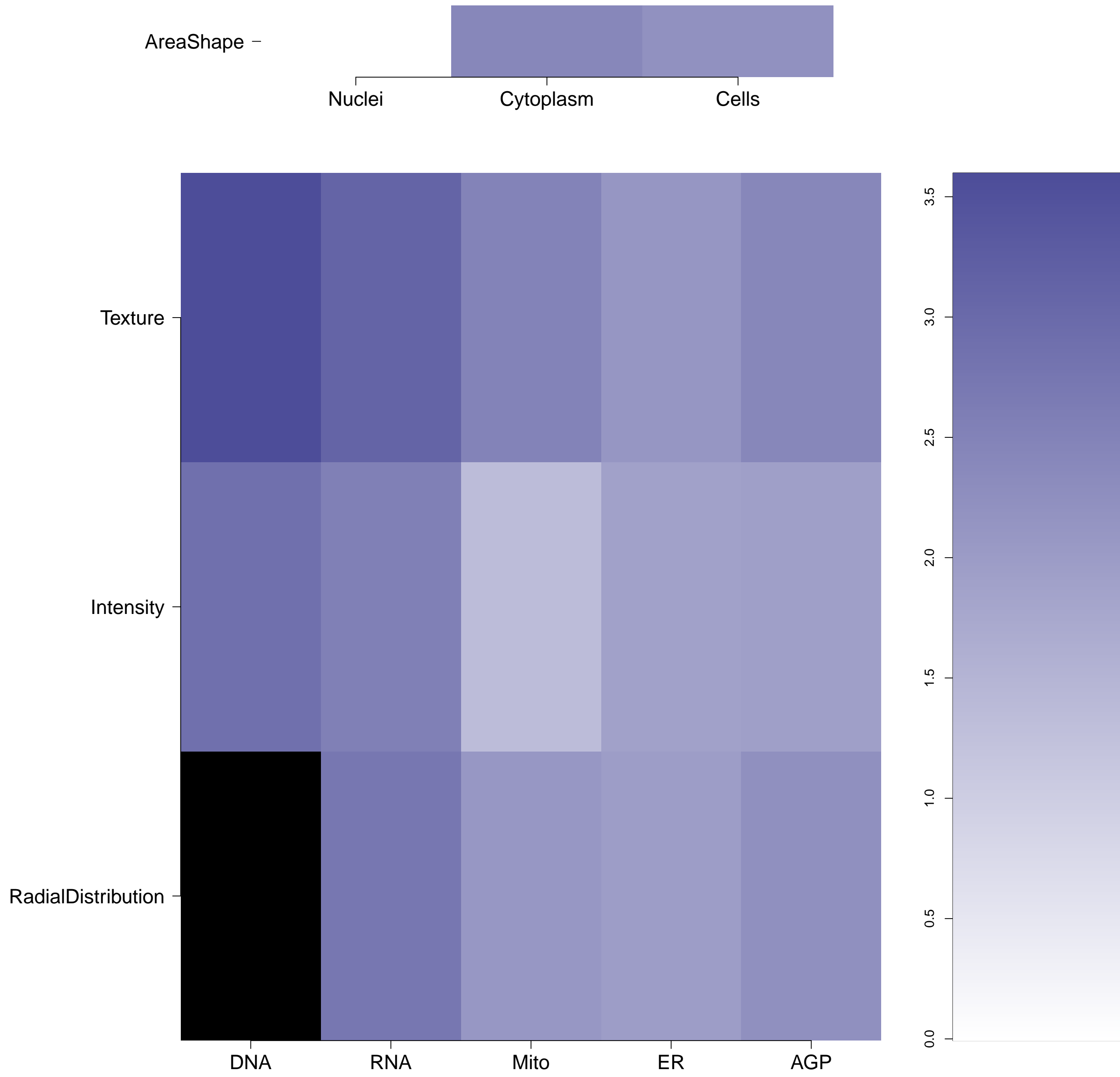


PIK3R1.WT.1 - in Canonical PI3K/AKT

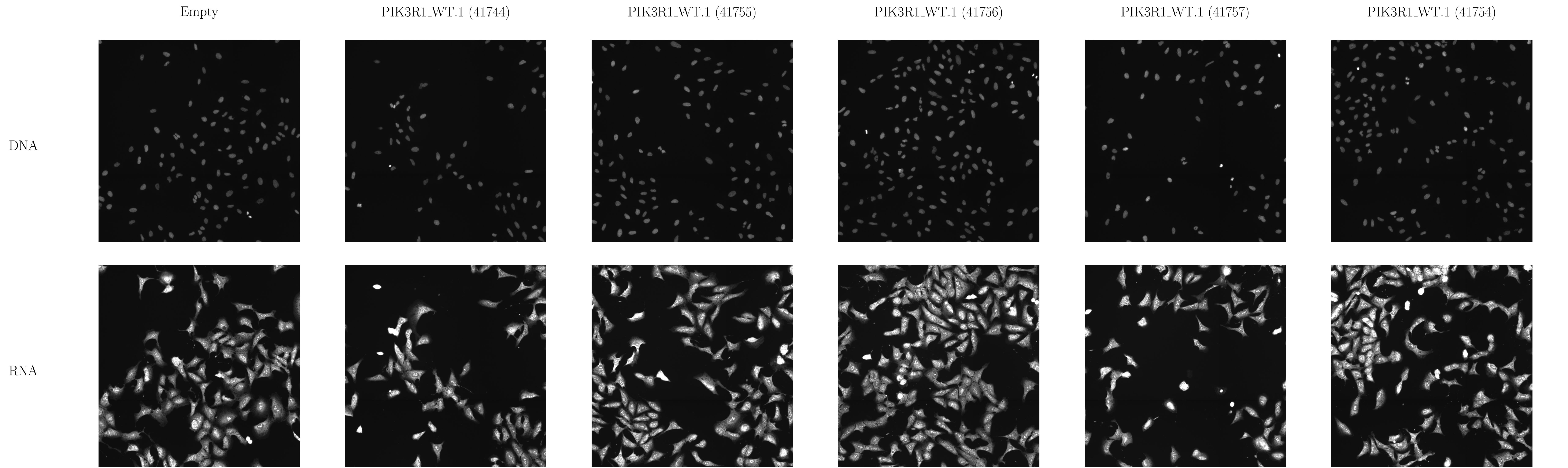
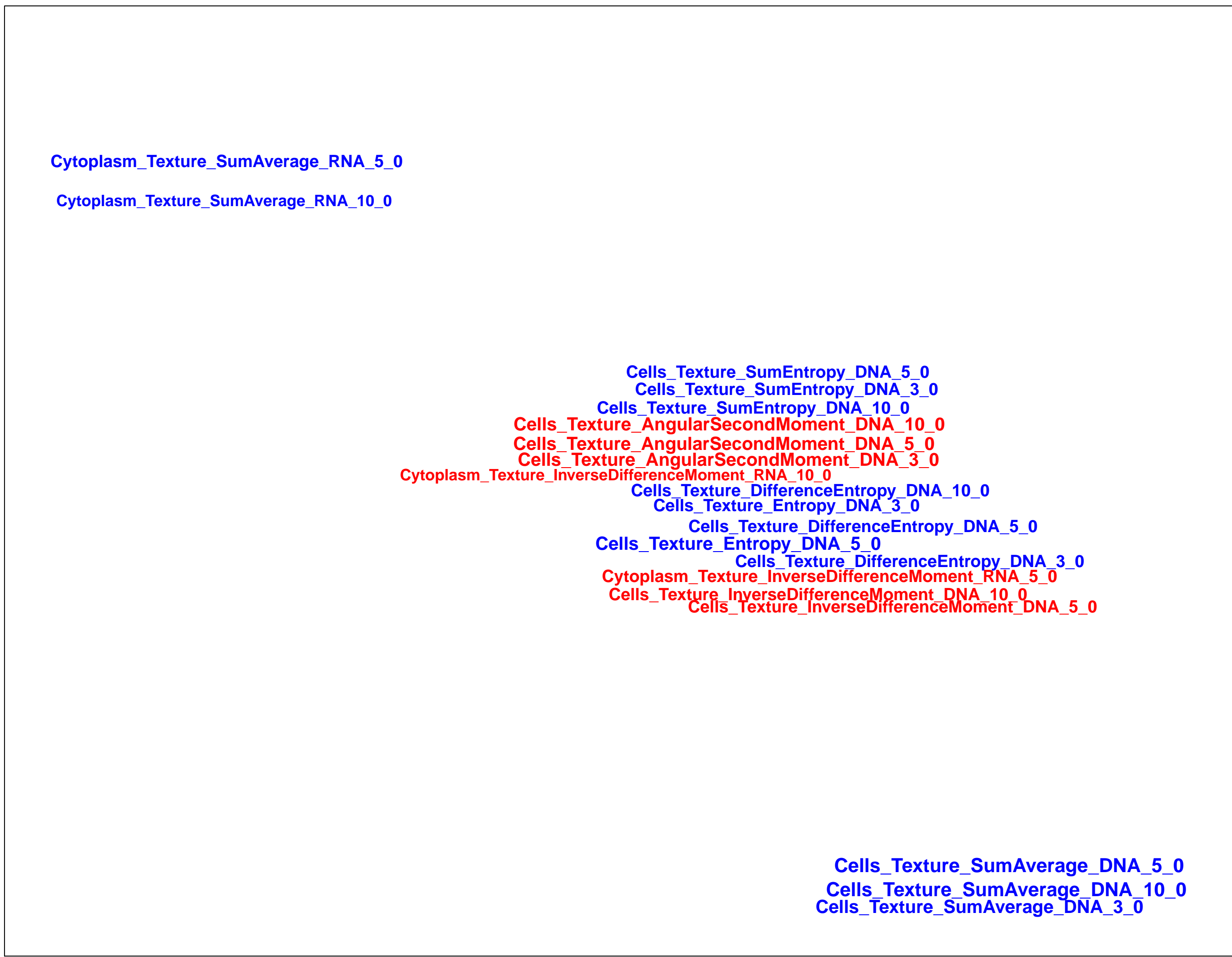
How similar is this gene to the other genes?



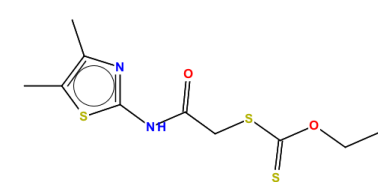
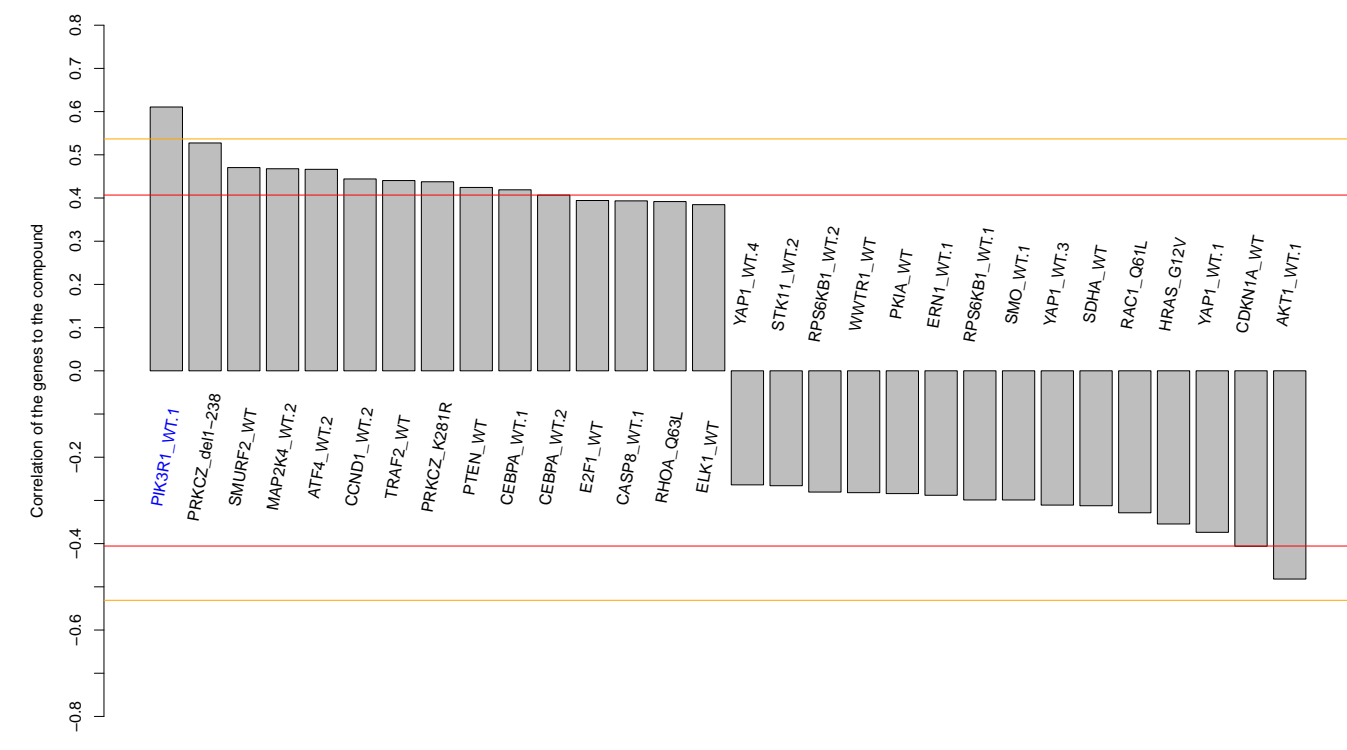
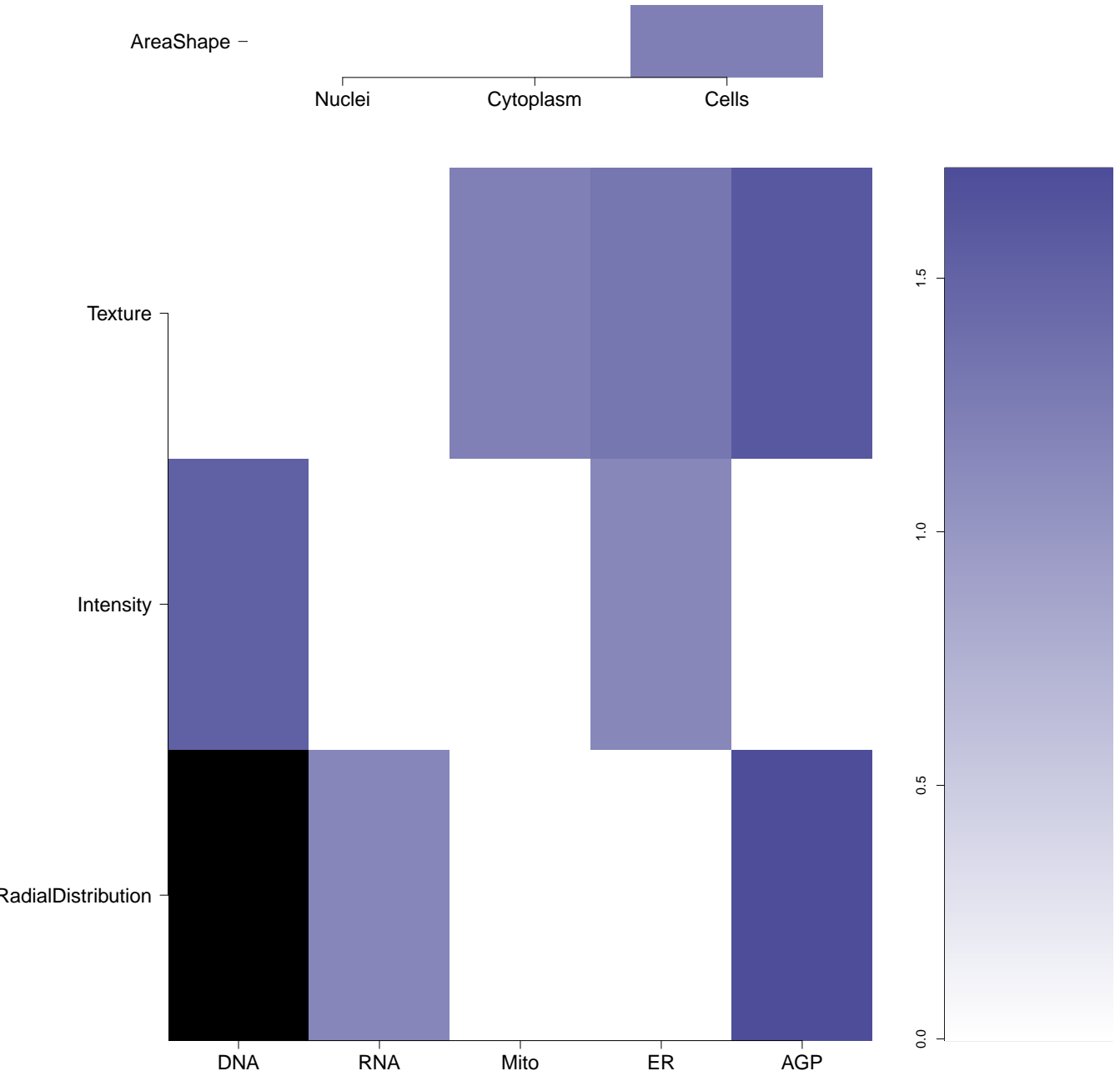
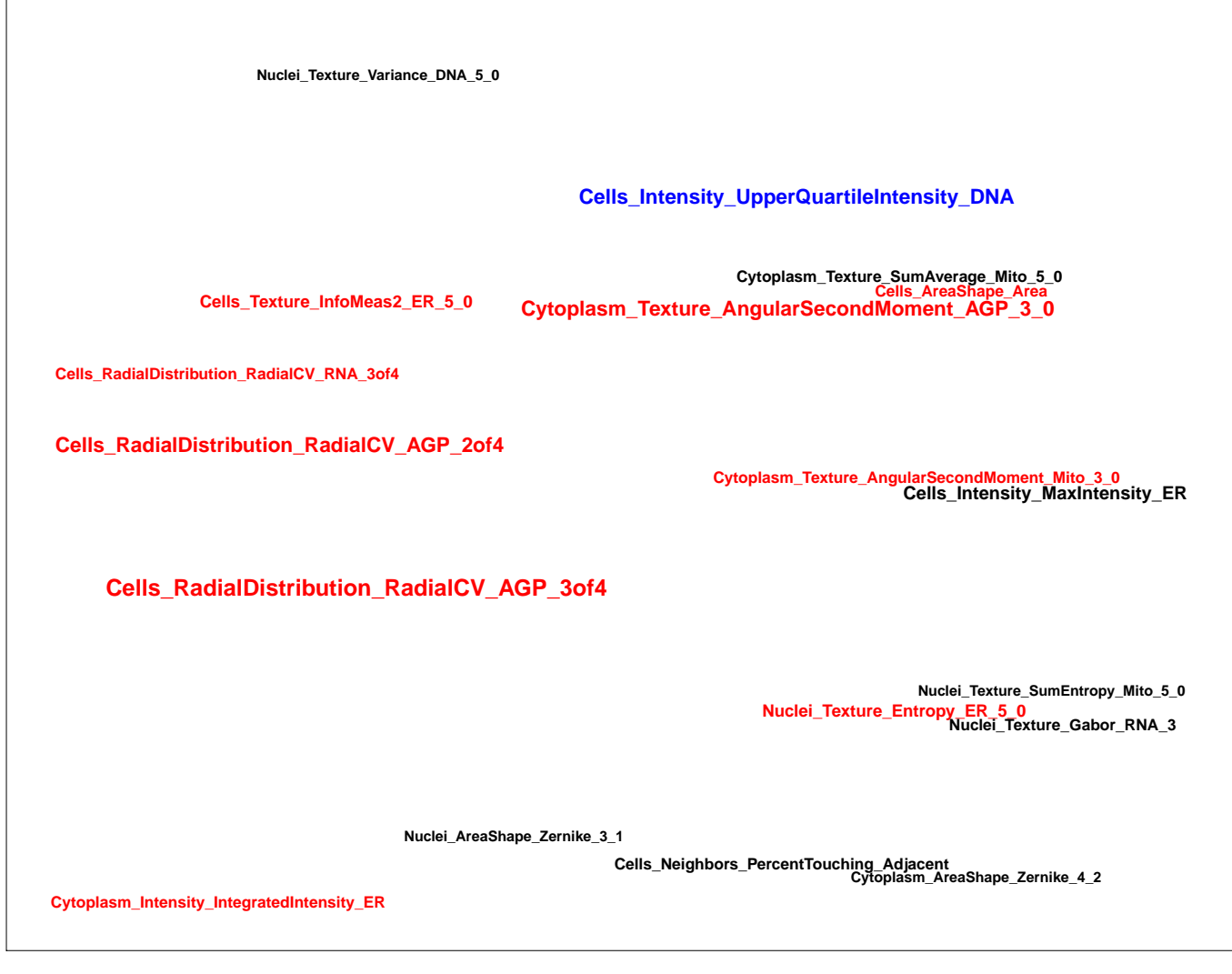
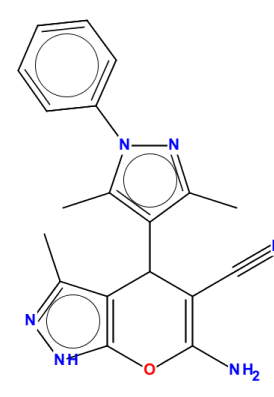
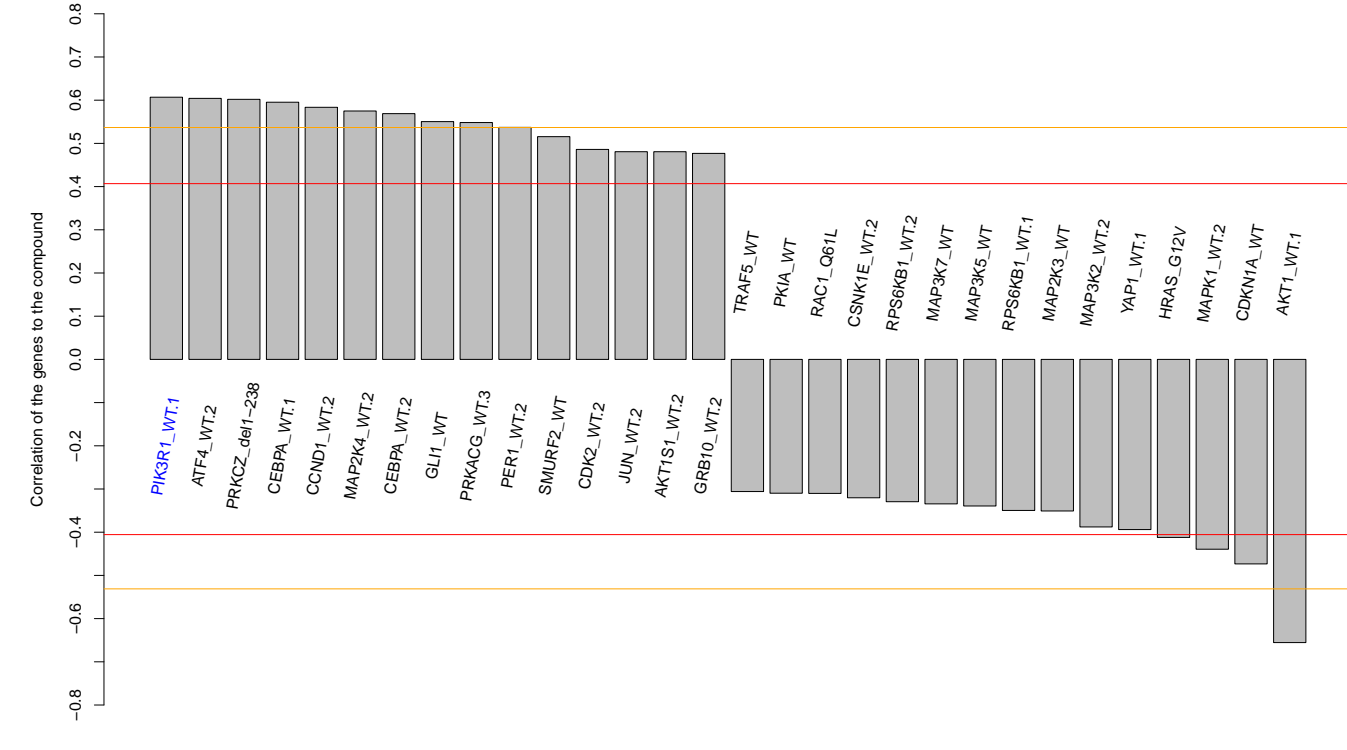
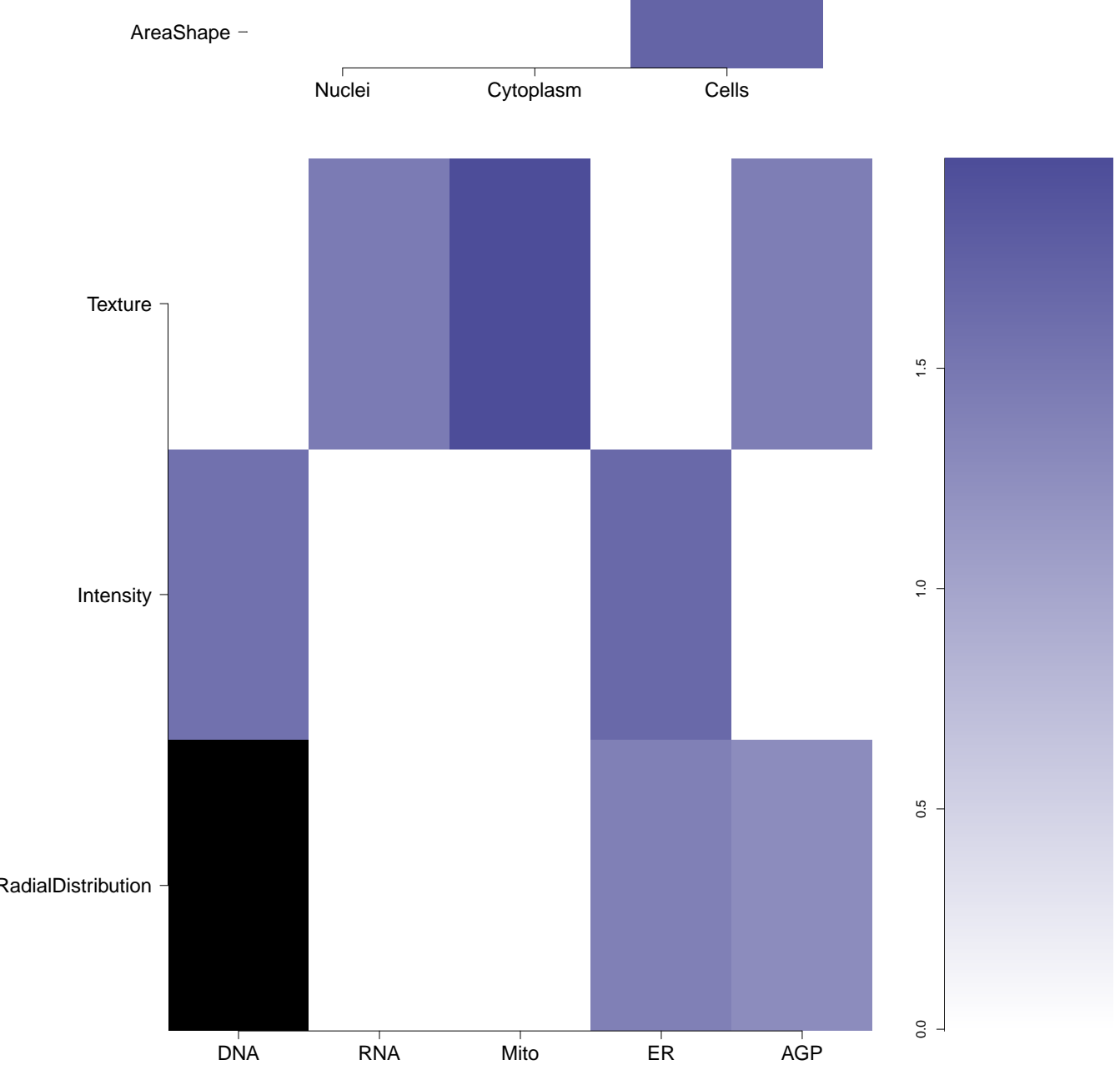

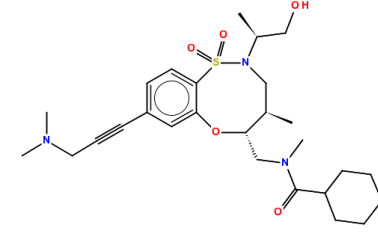
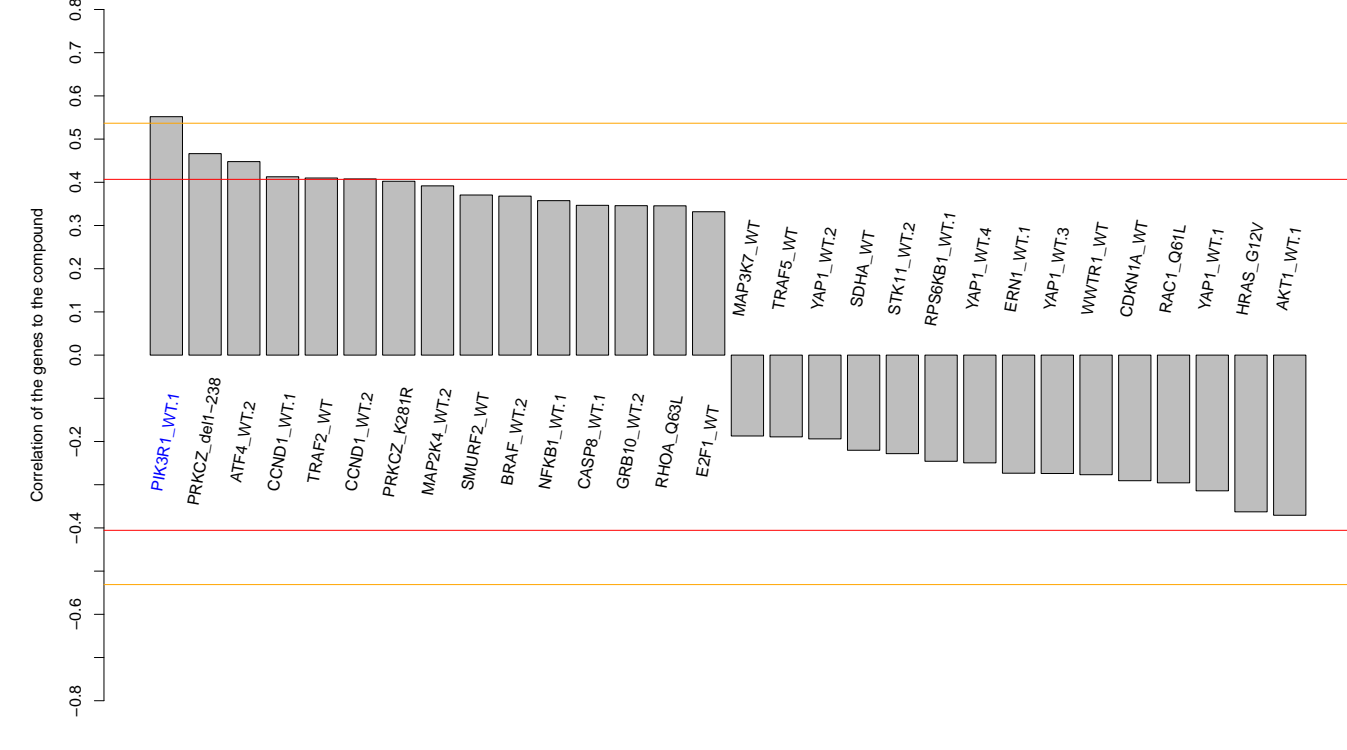
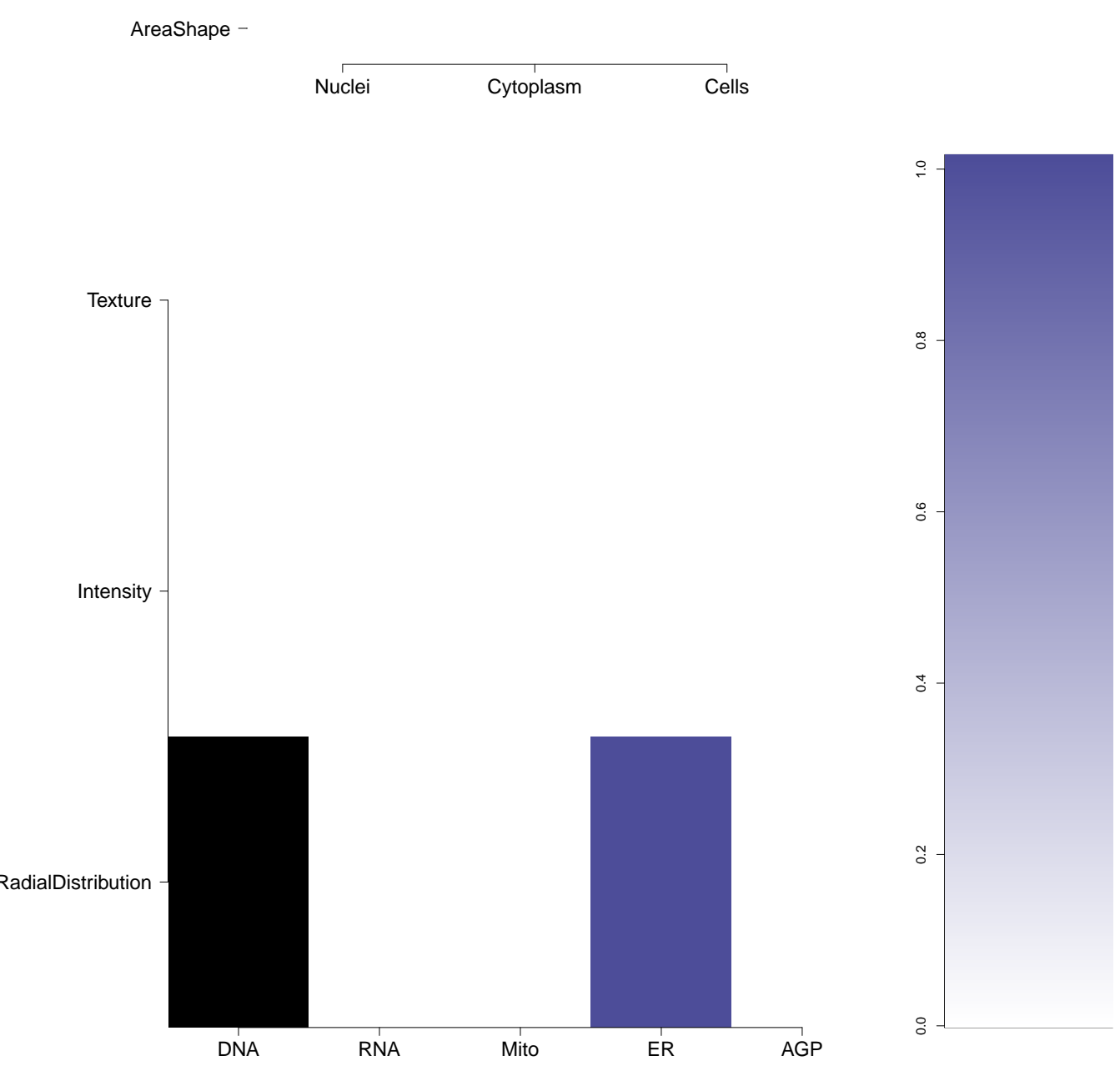
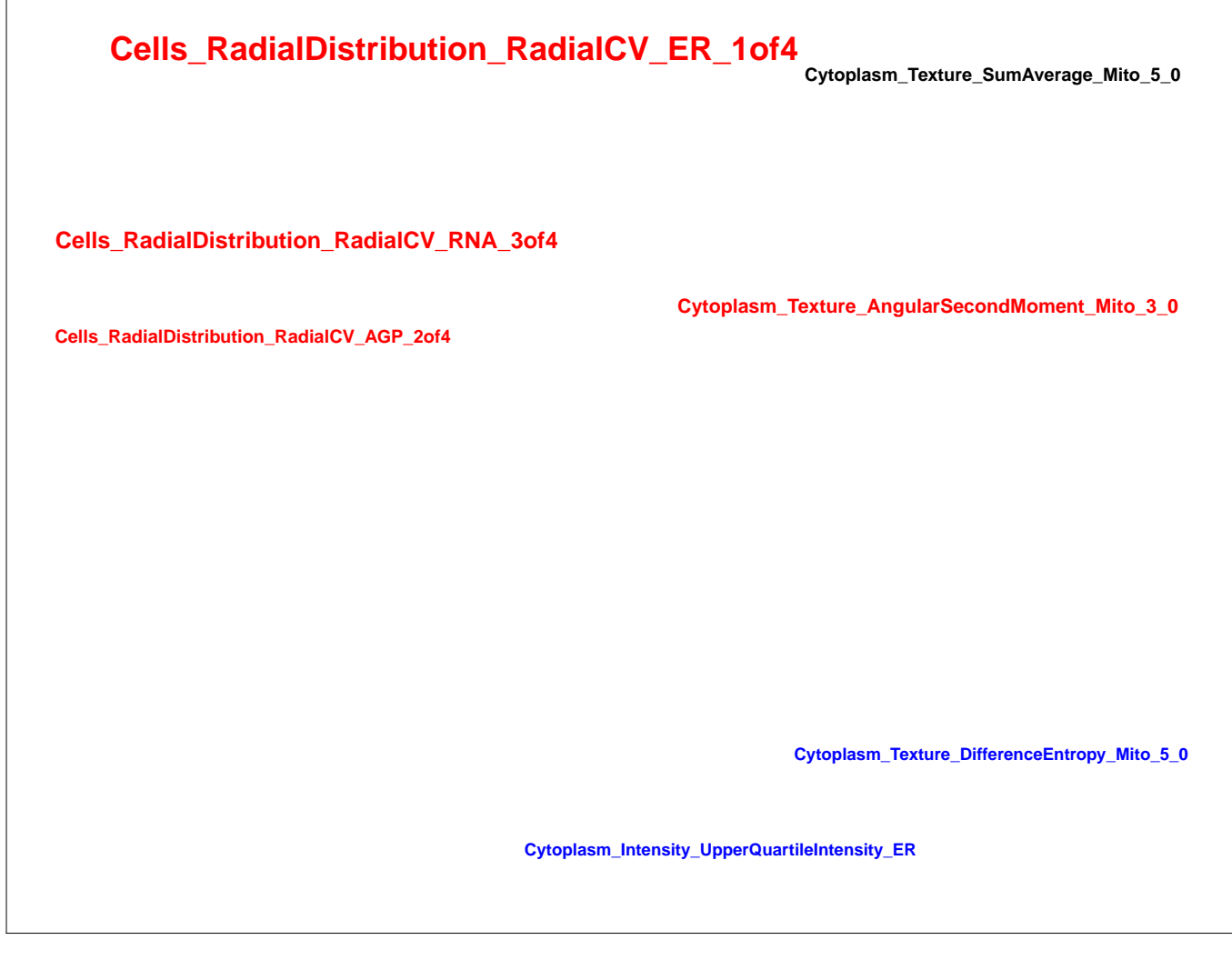
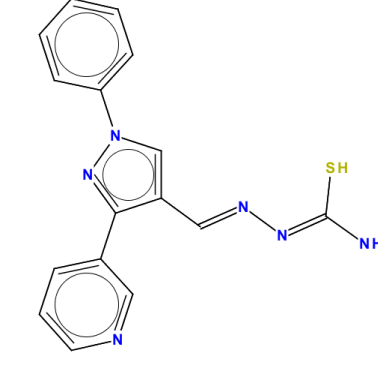
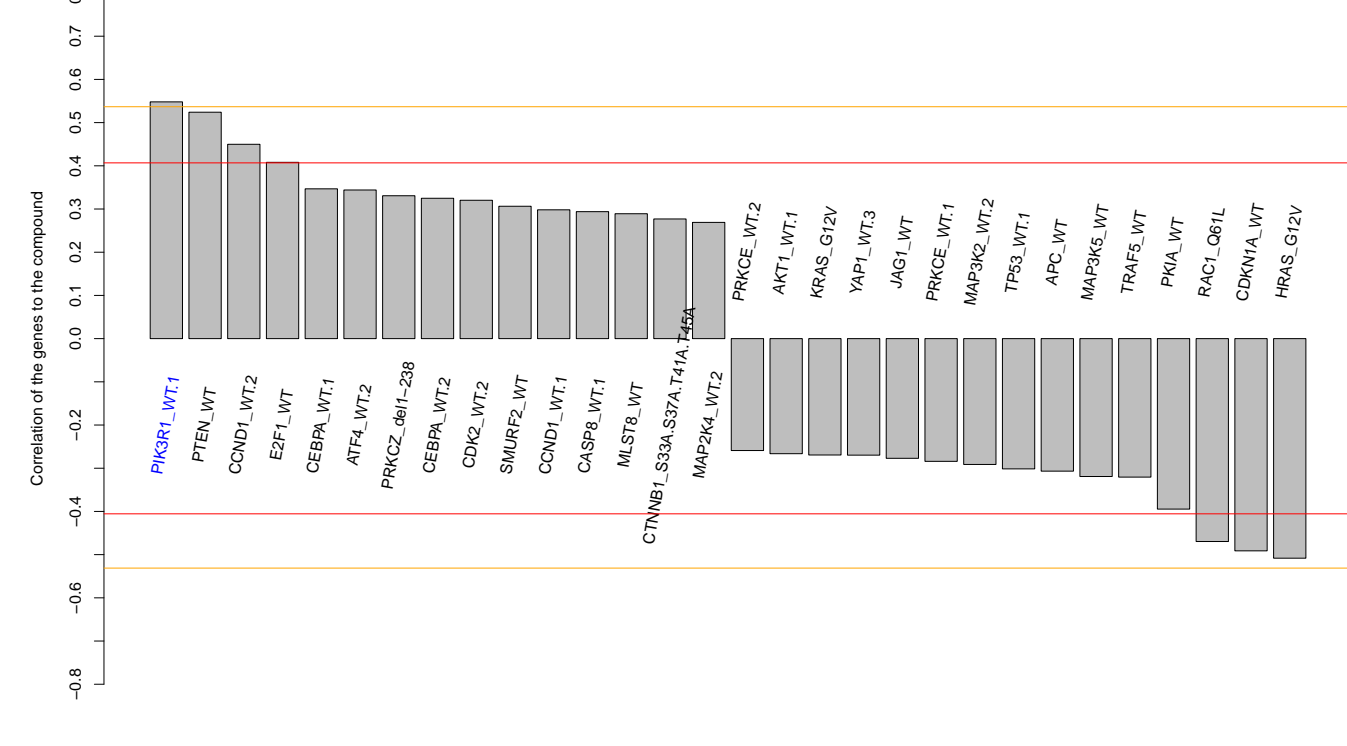
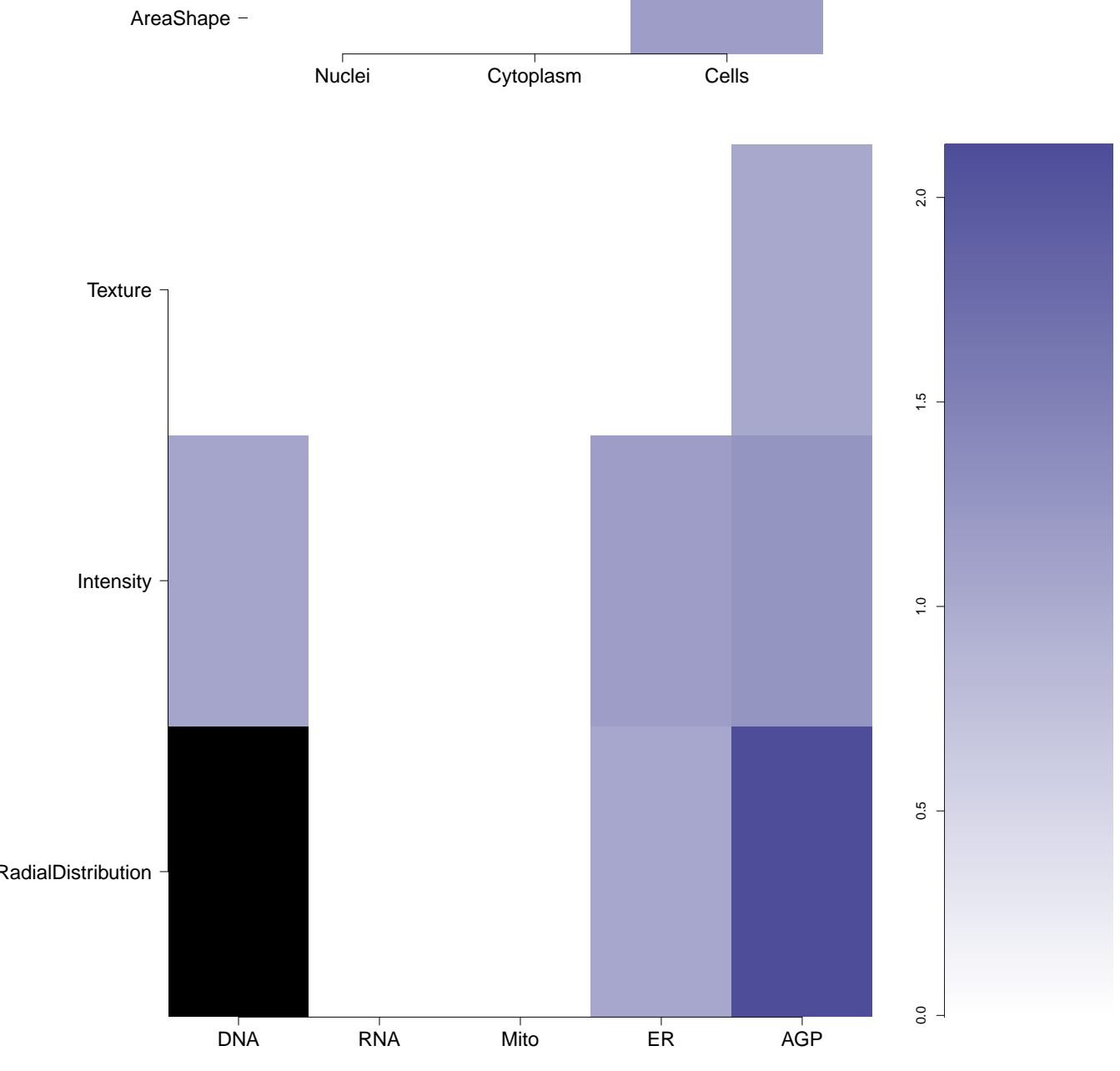

What groups of morphological features are distinguishing in the cluster relative to the untreated samples?
(maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

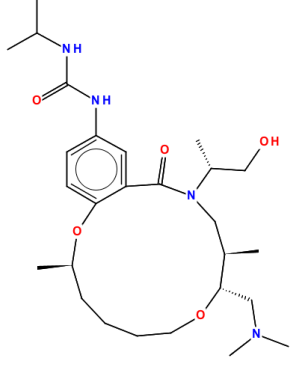
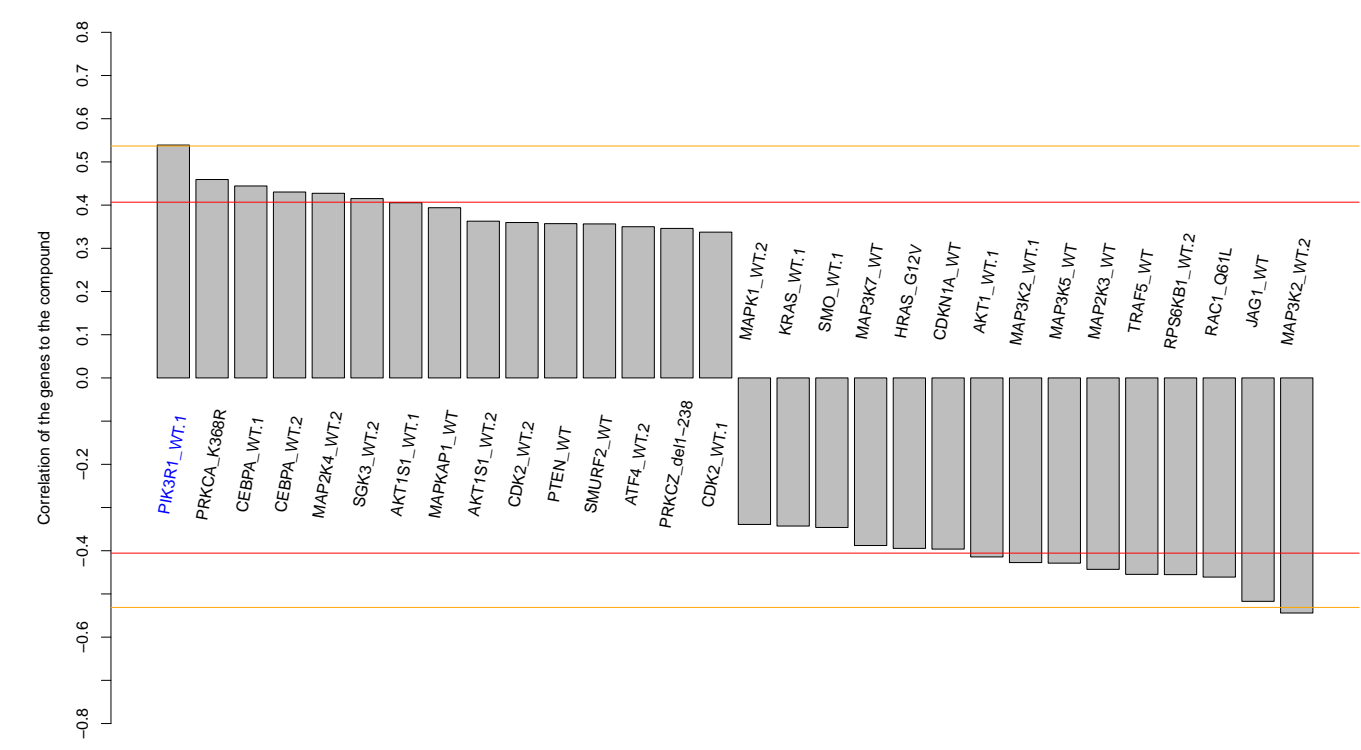
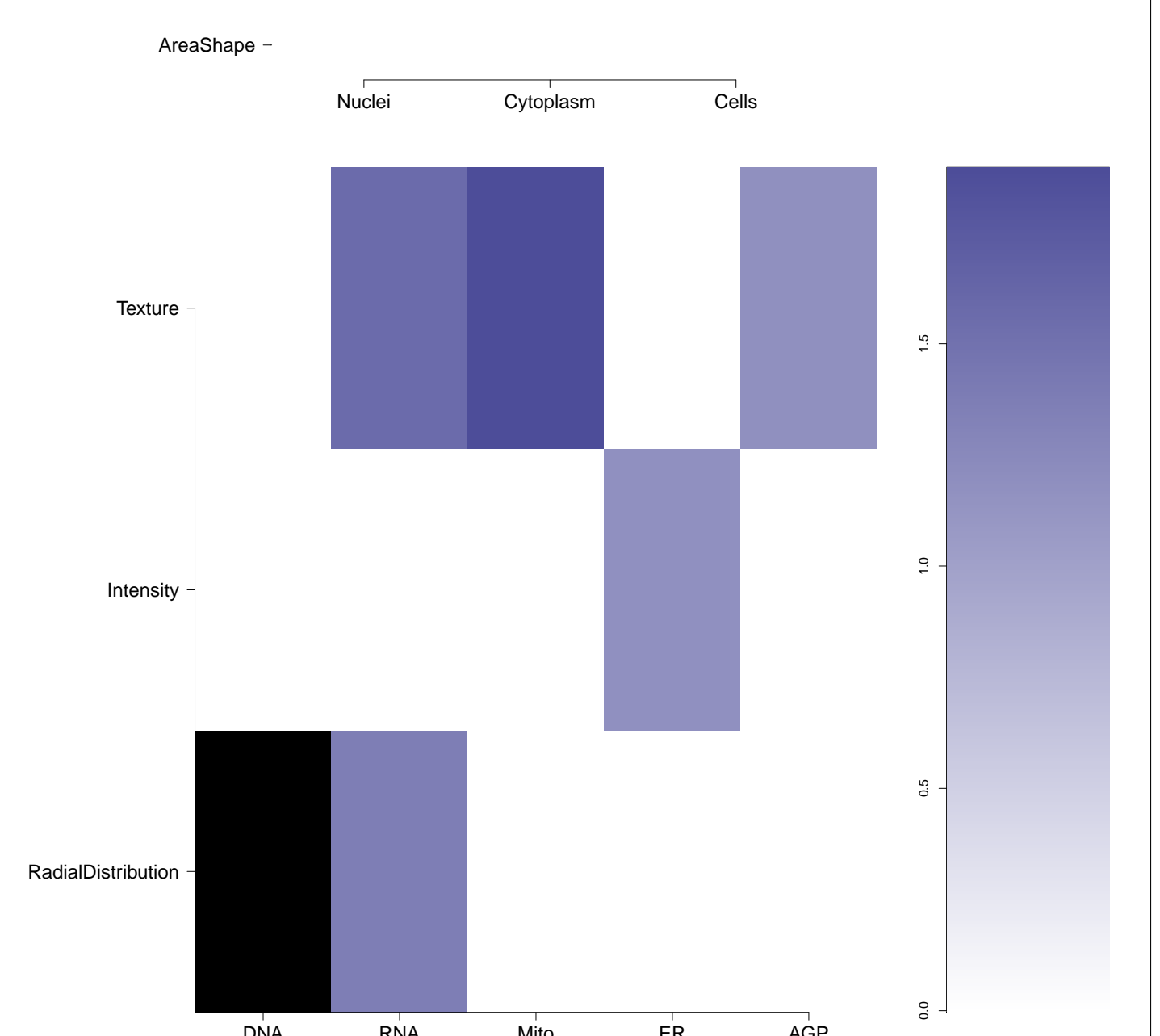

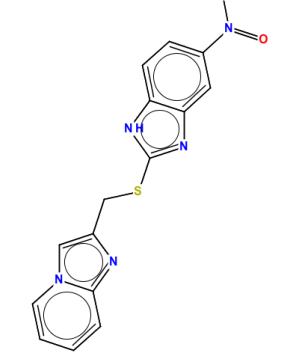
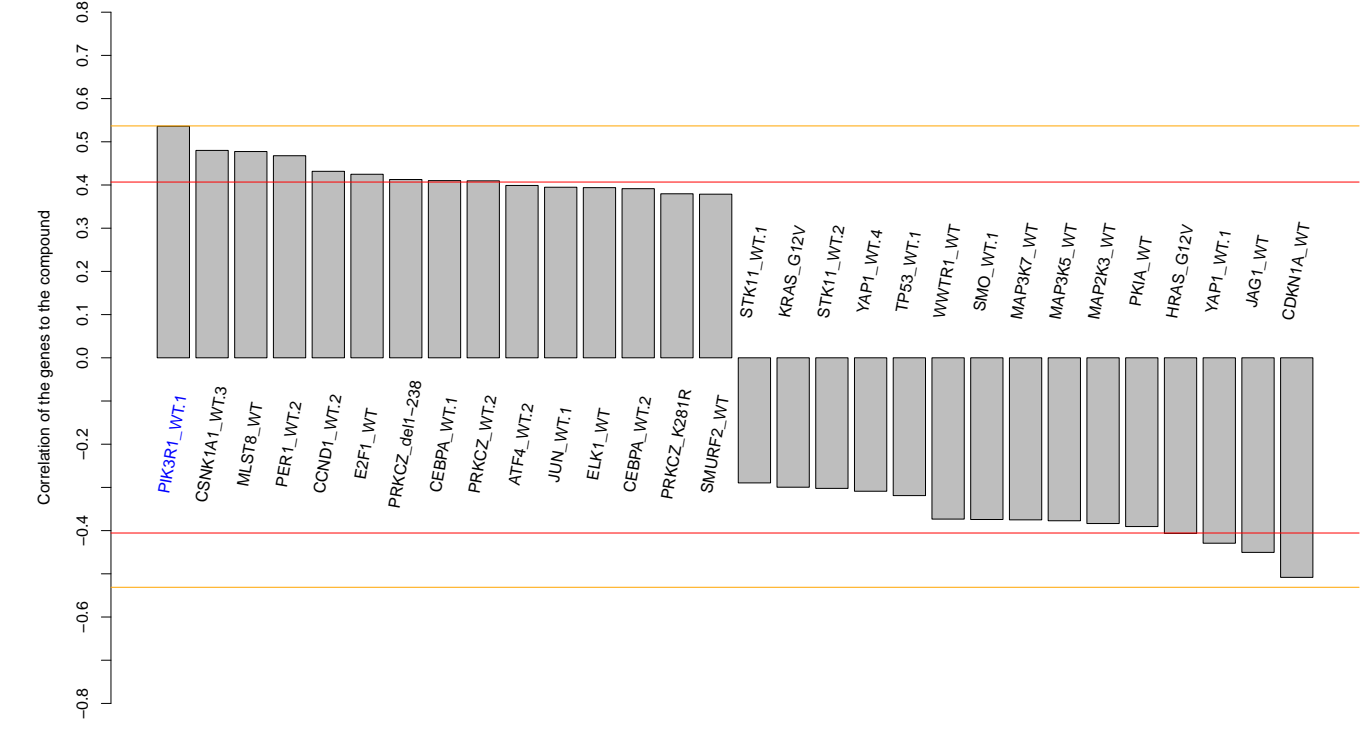
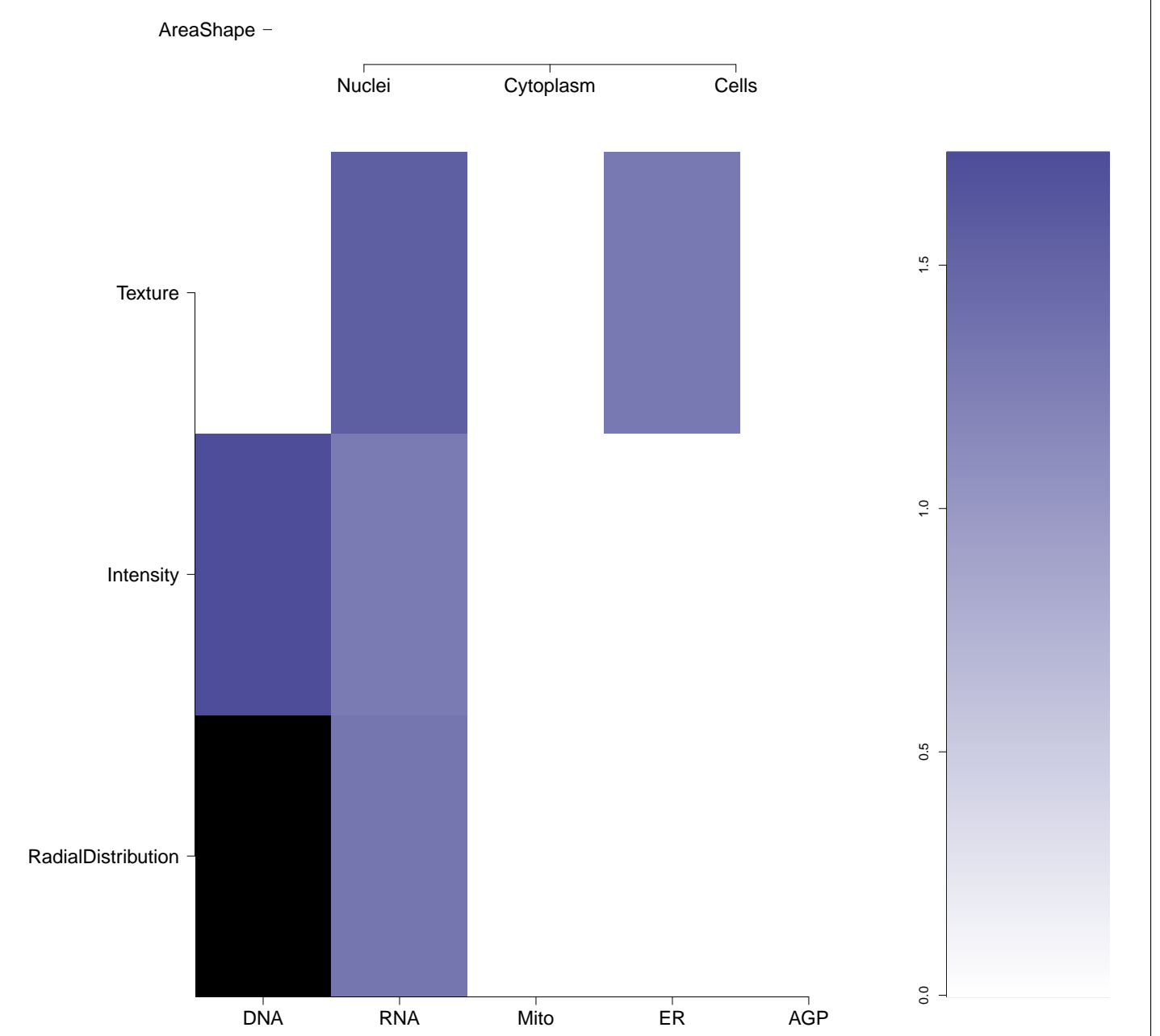
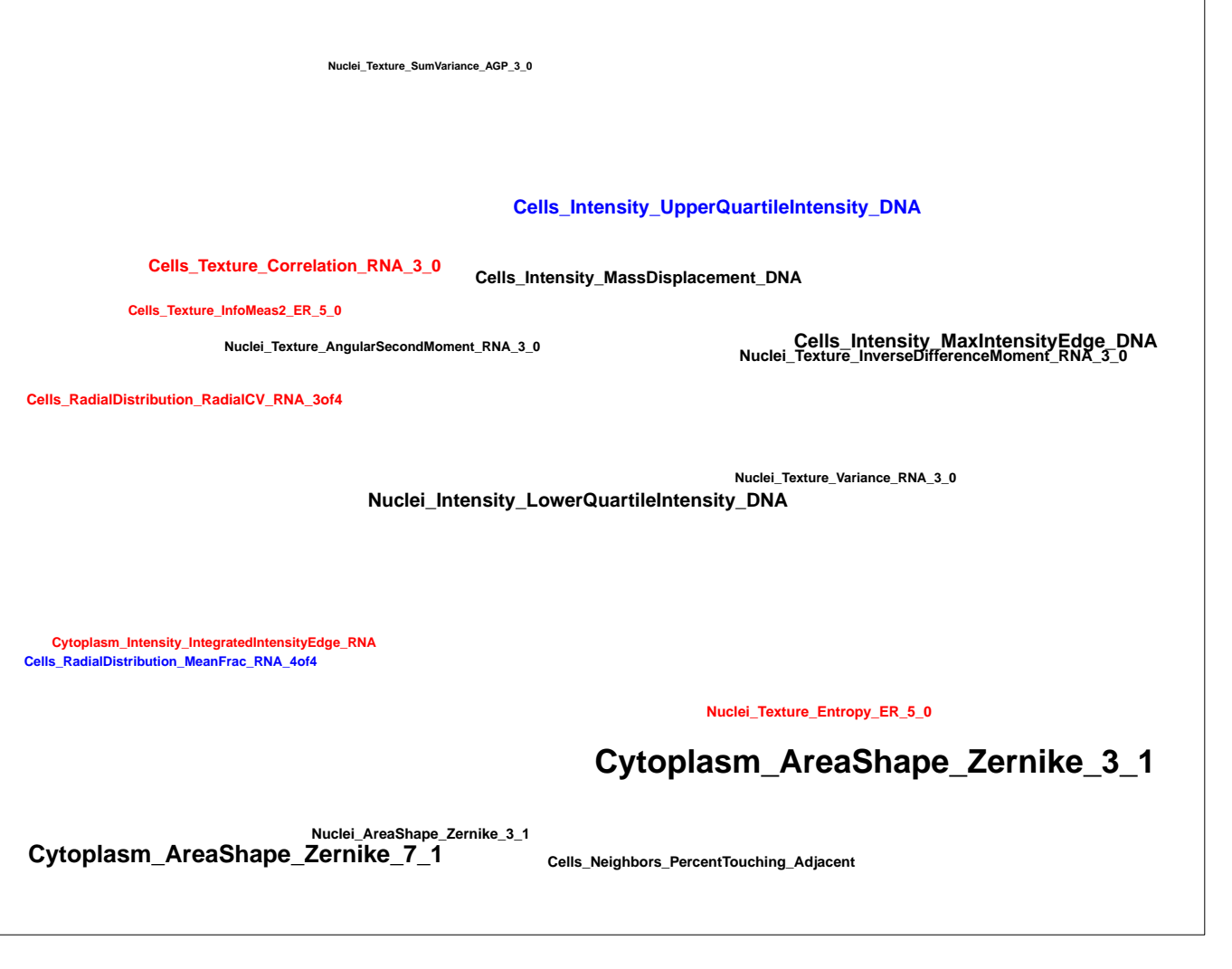
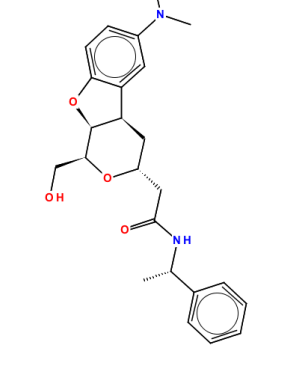
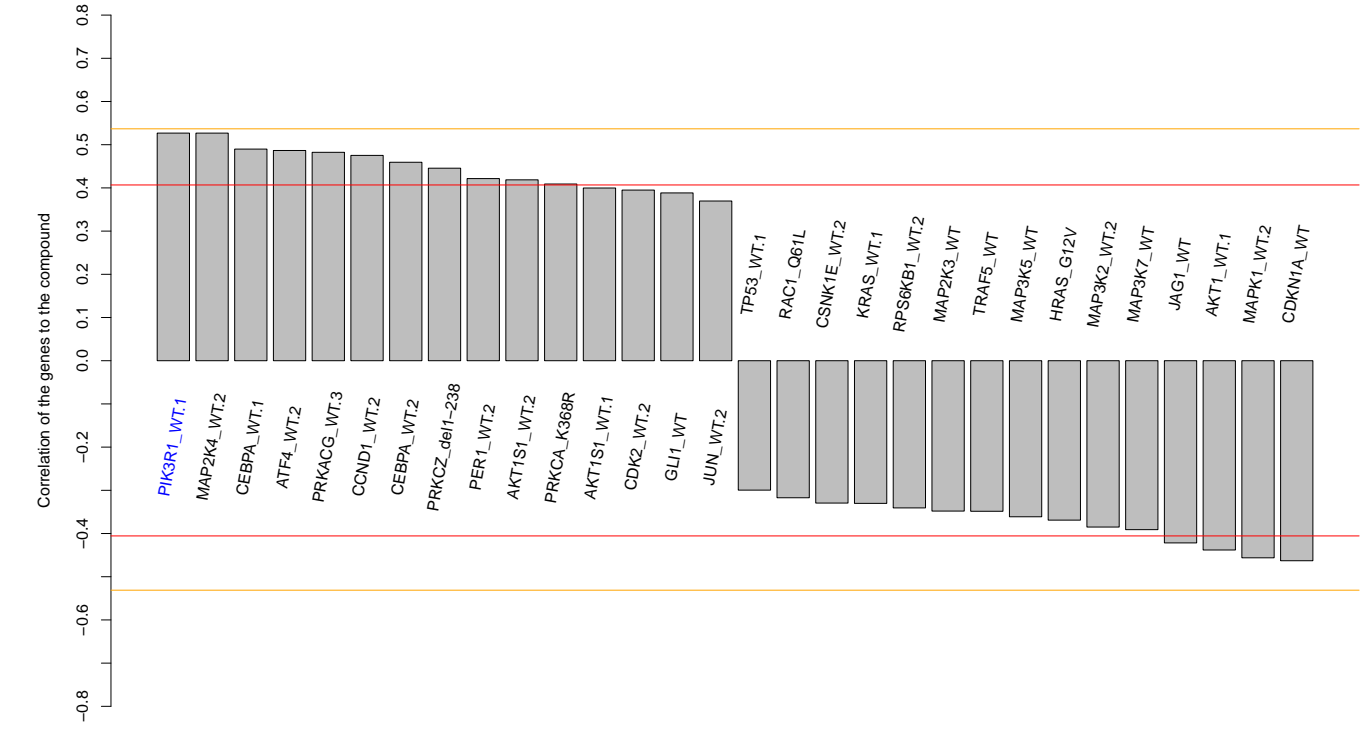
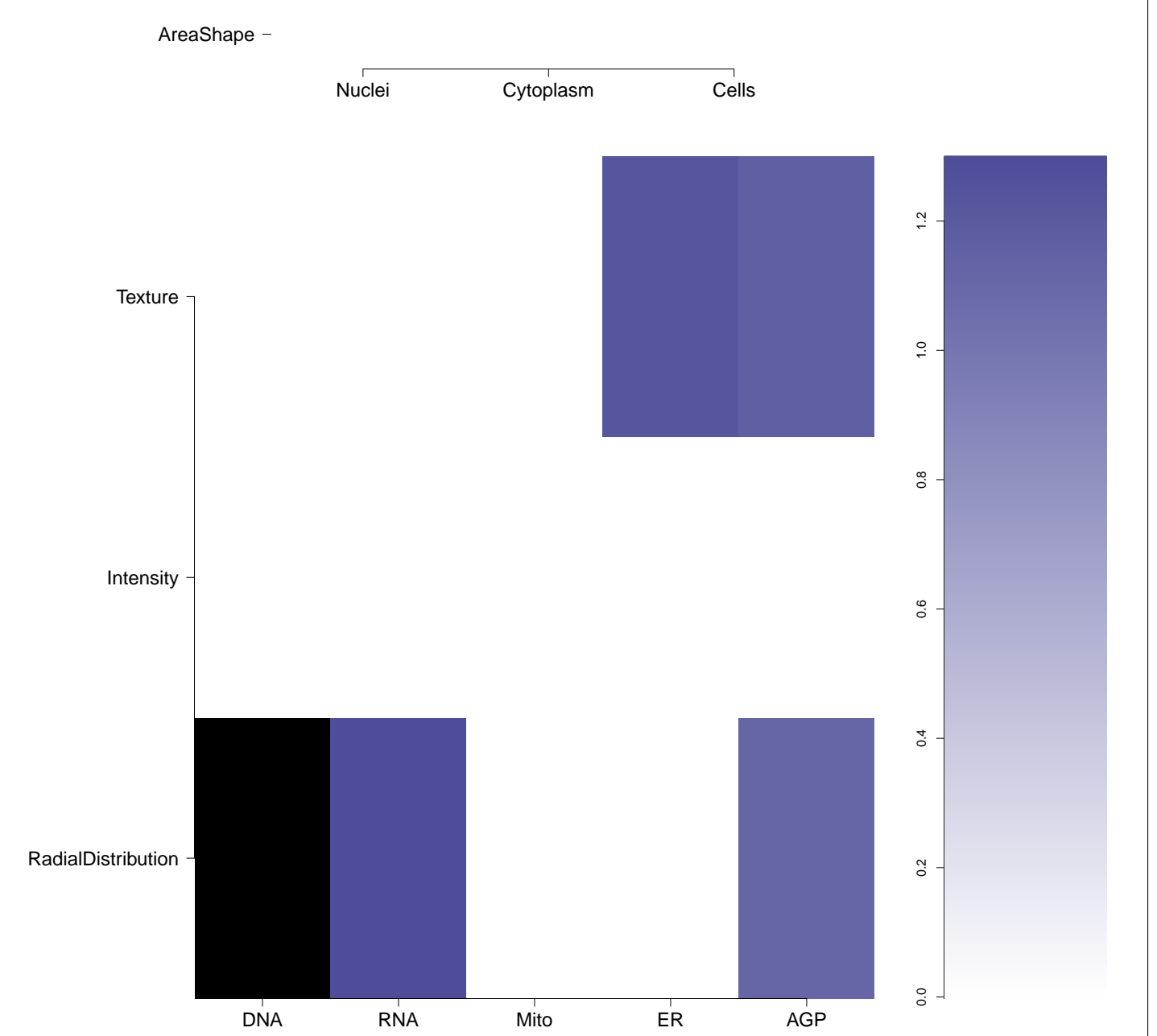
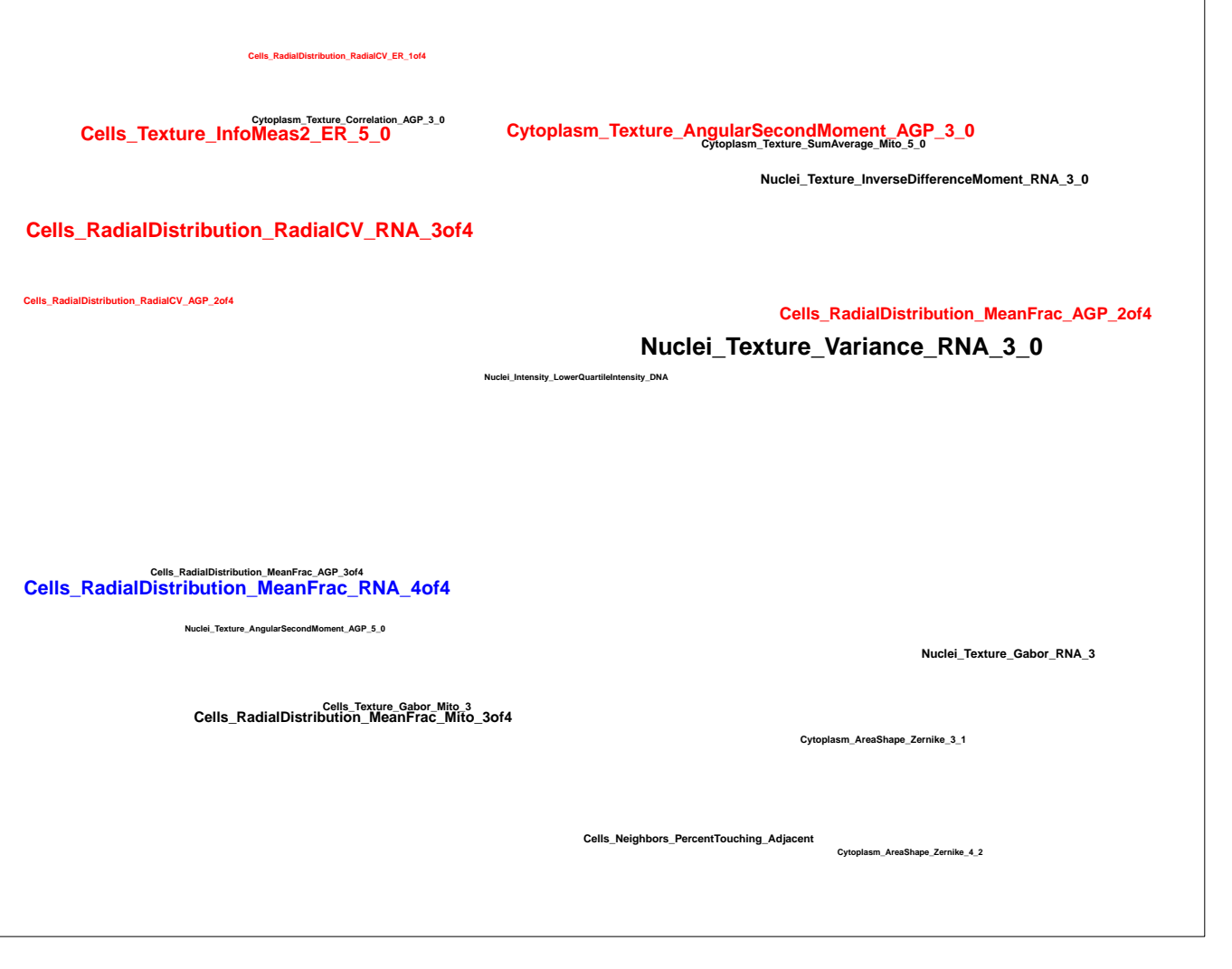
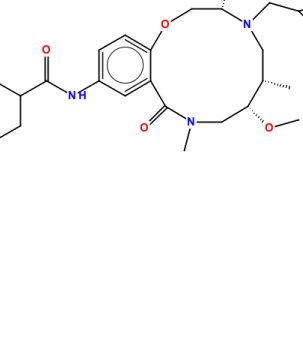
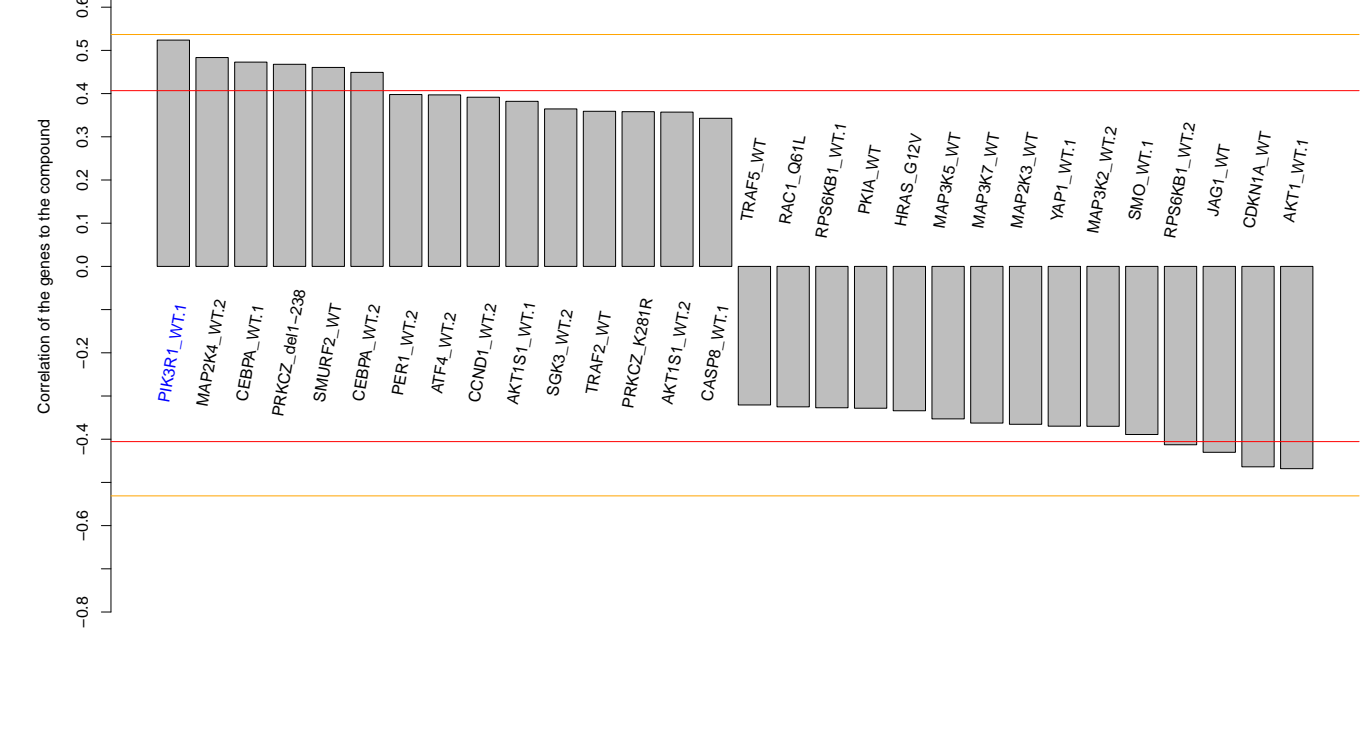
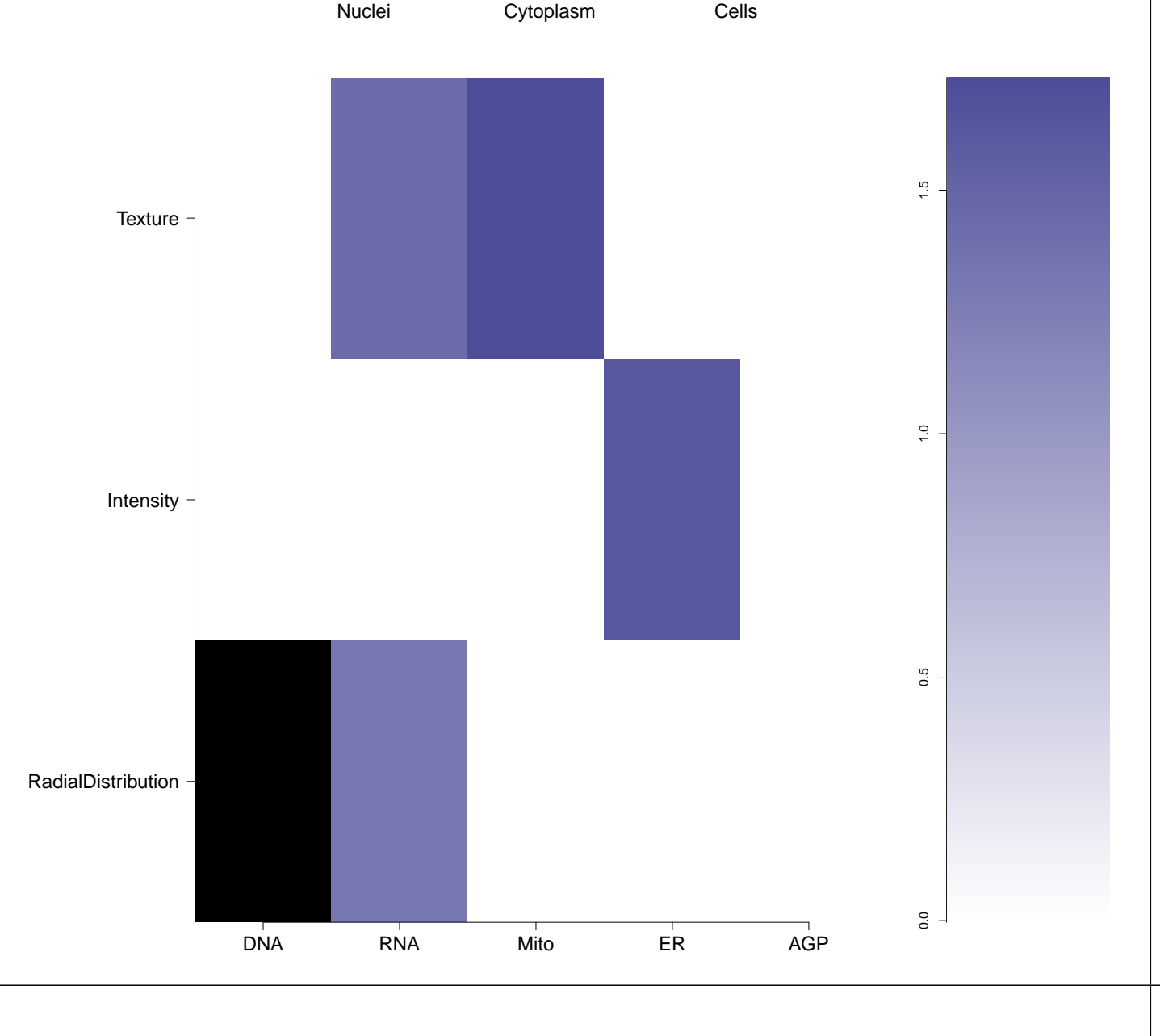

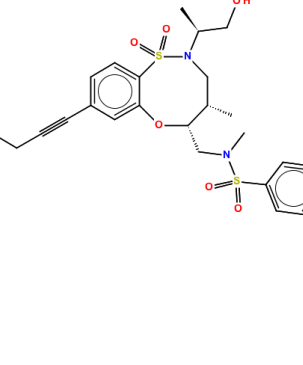
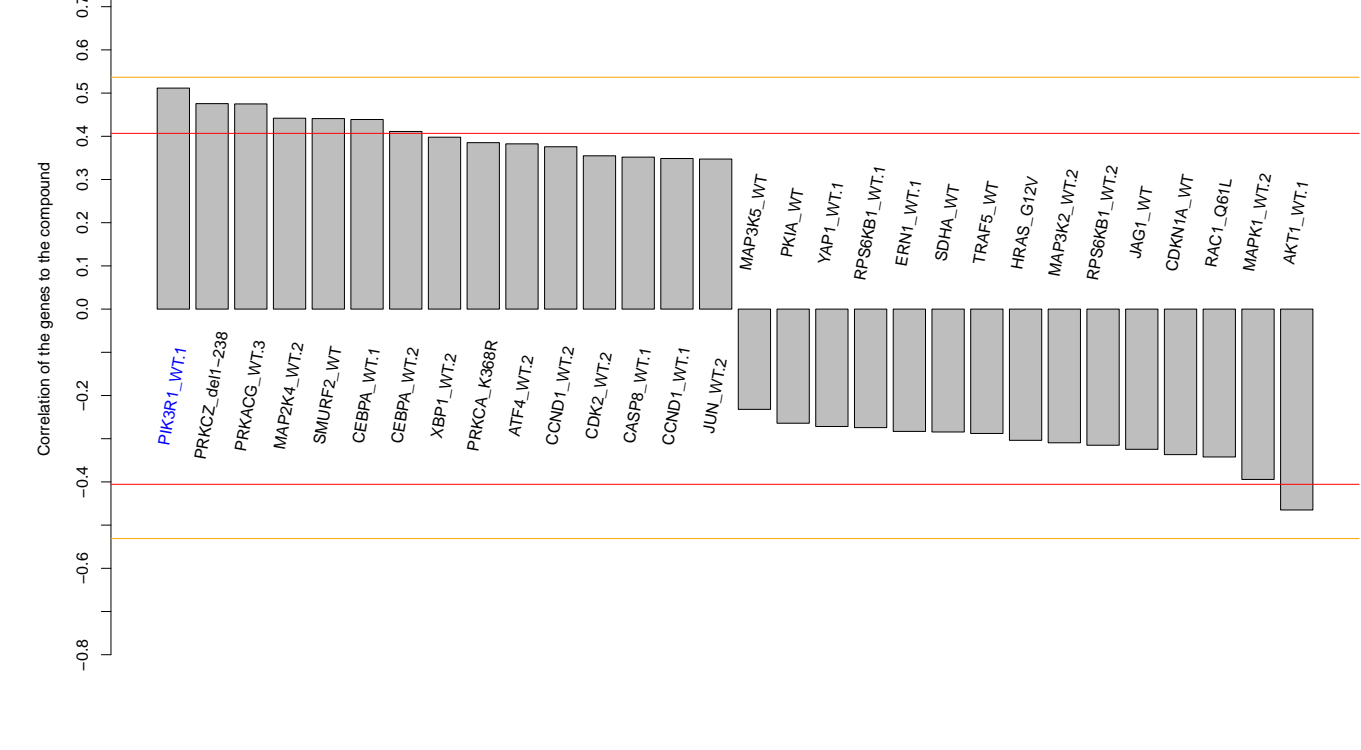
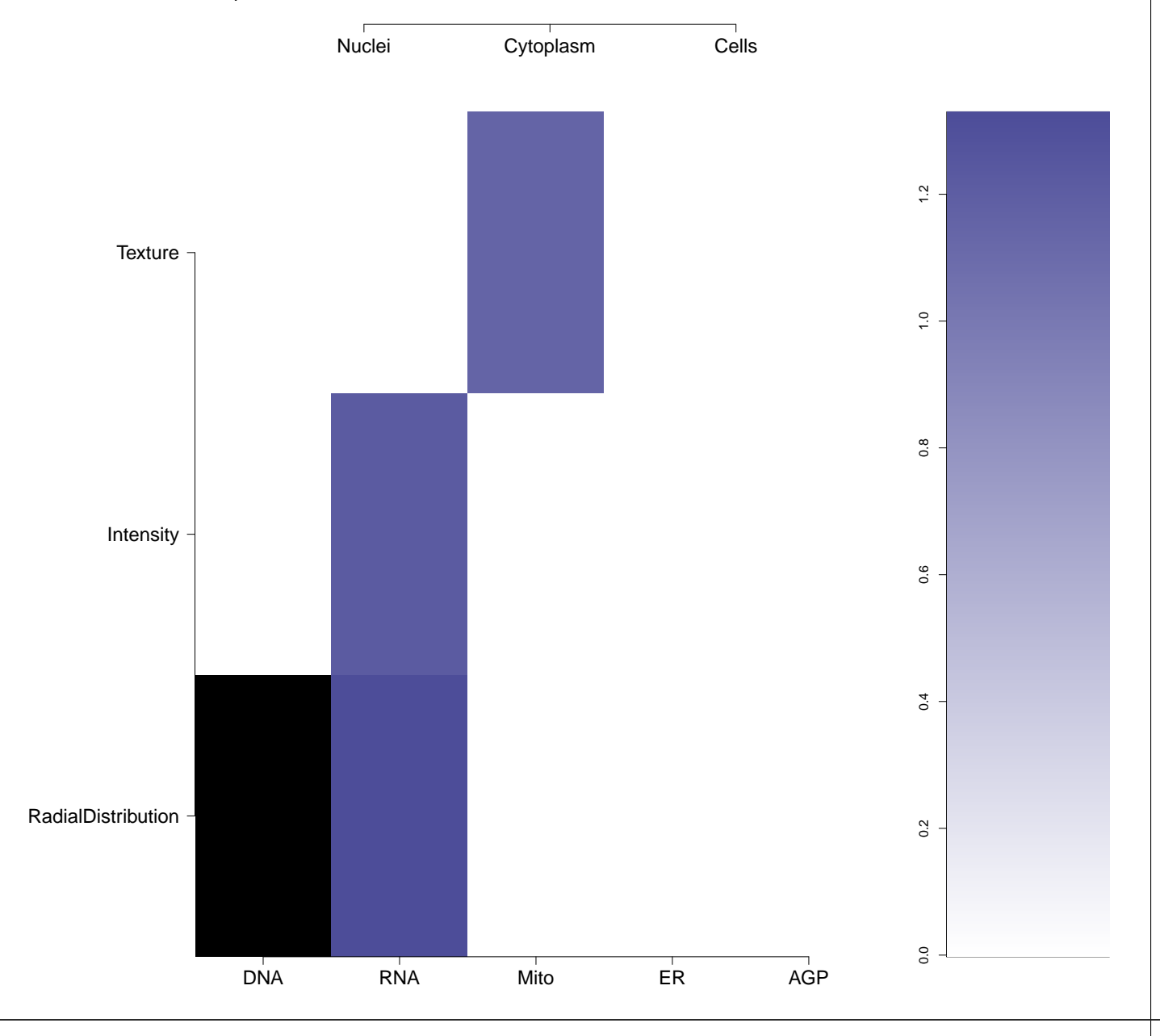
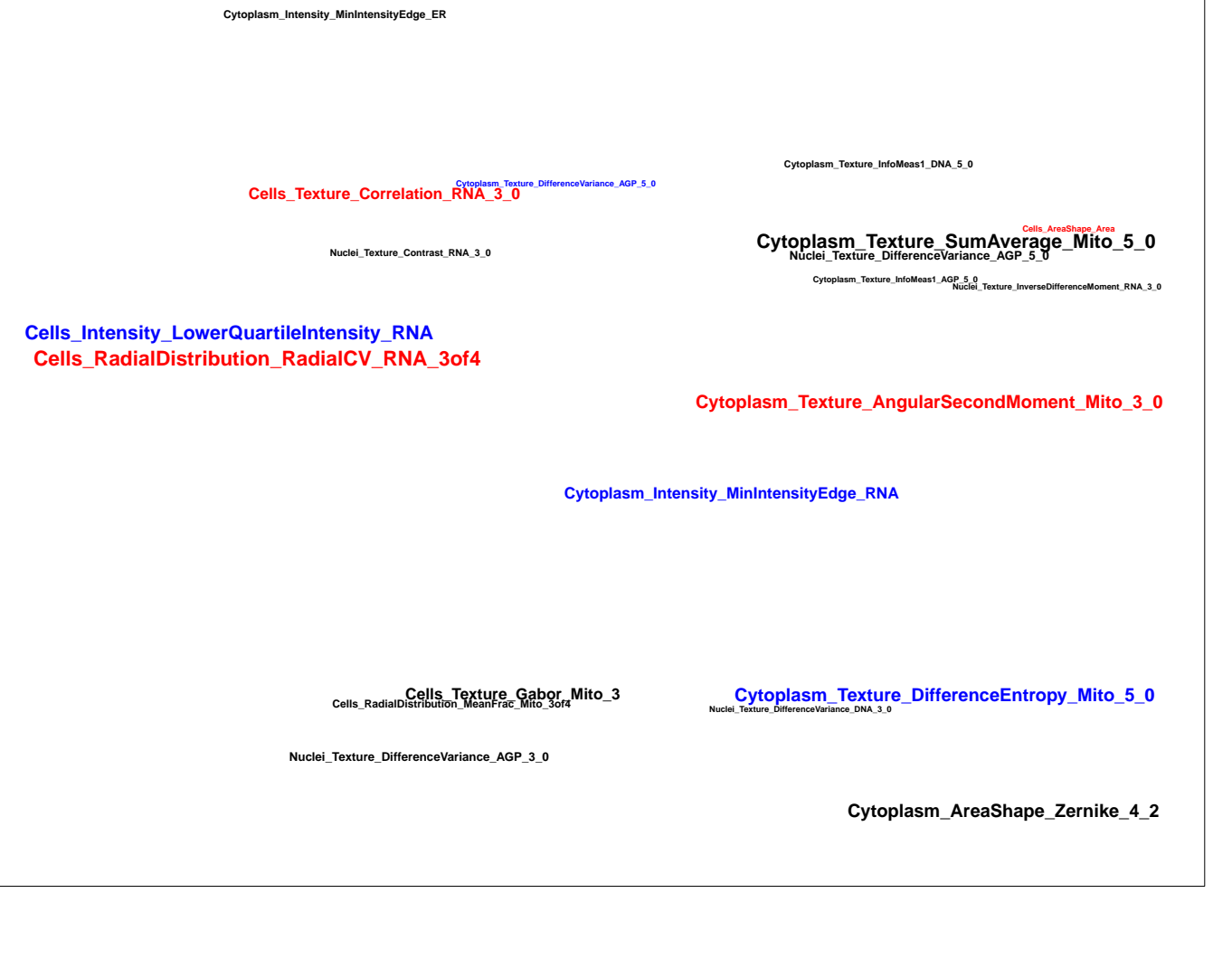
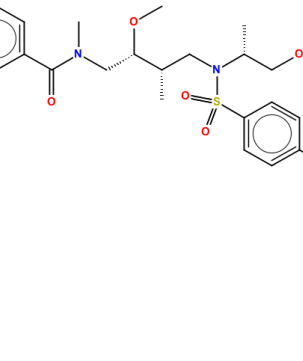
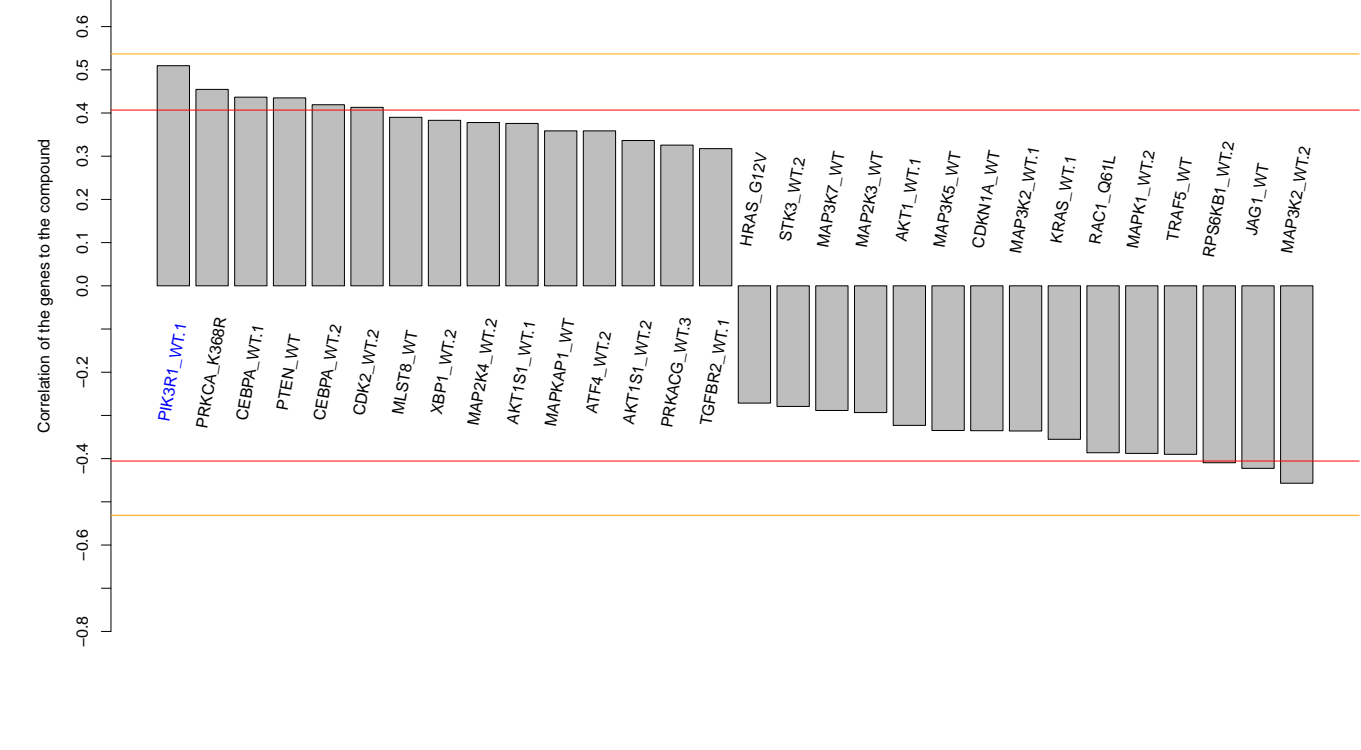
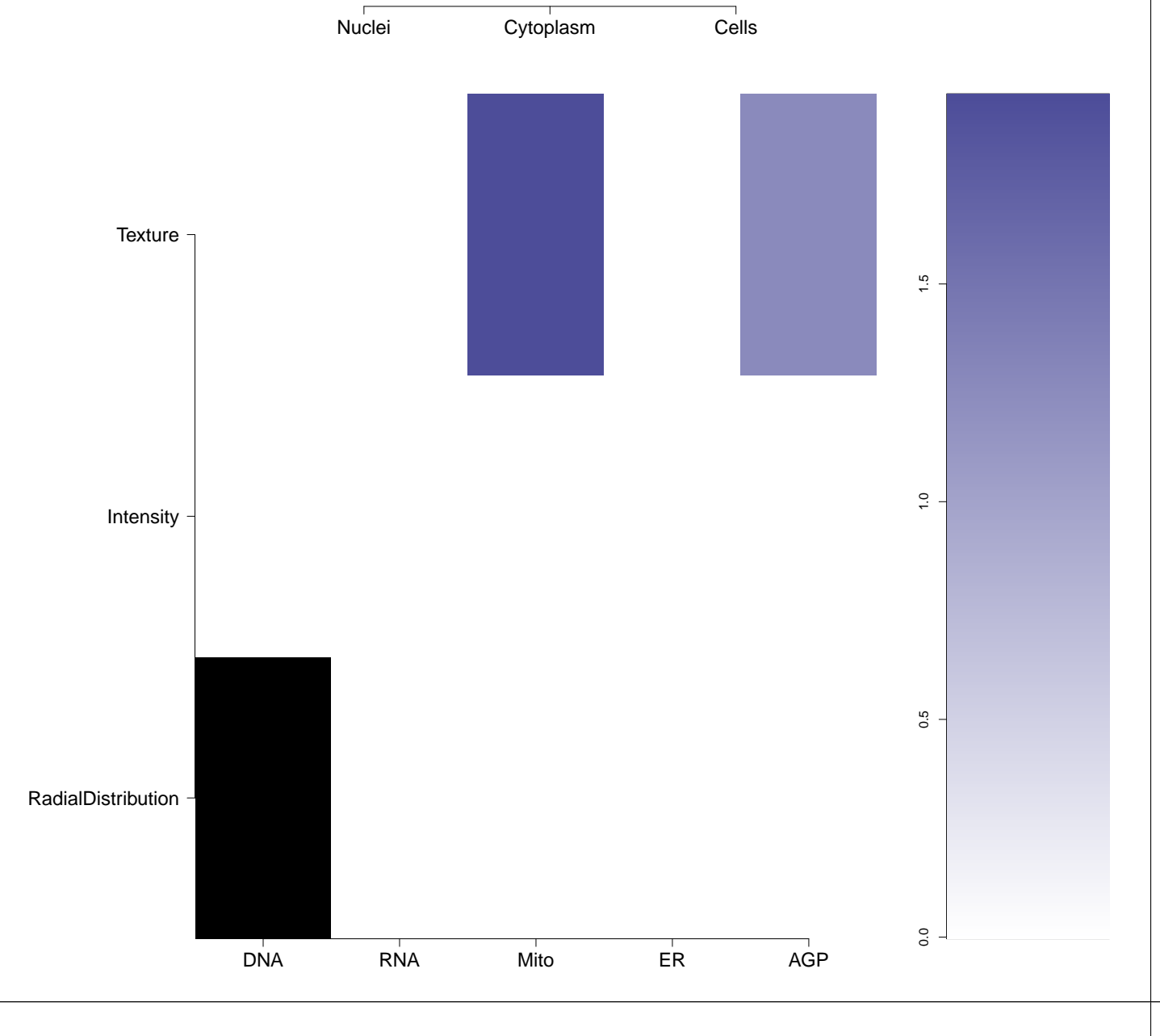
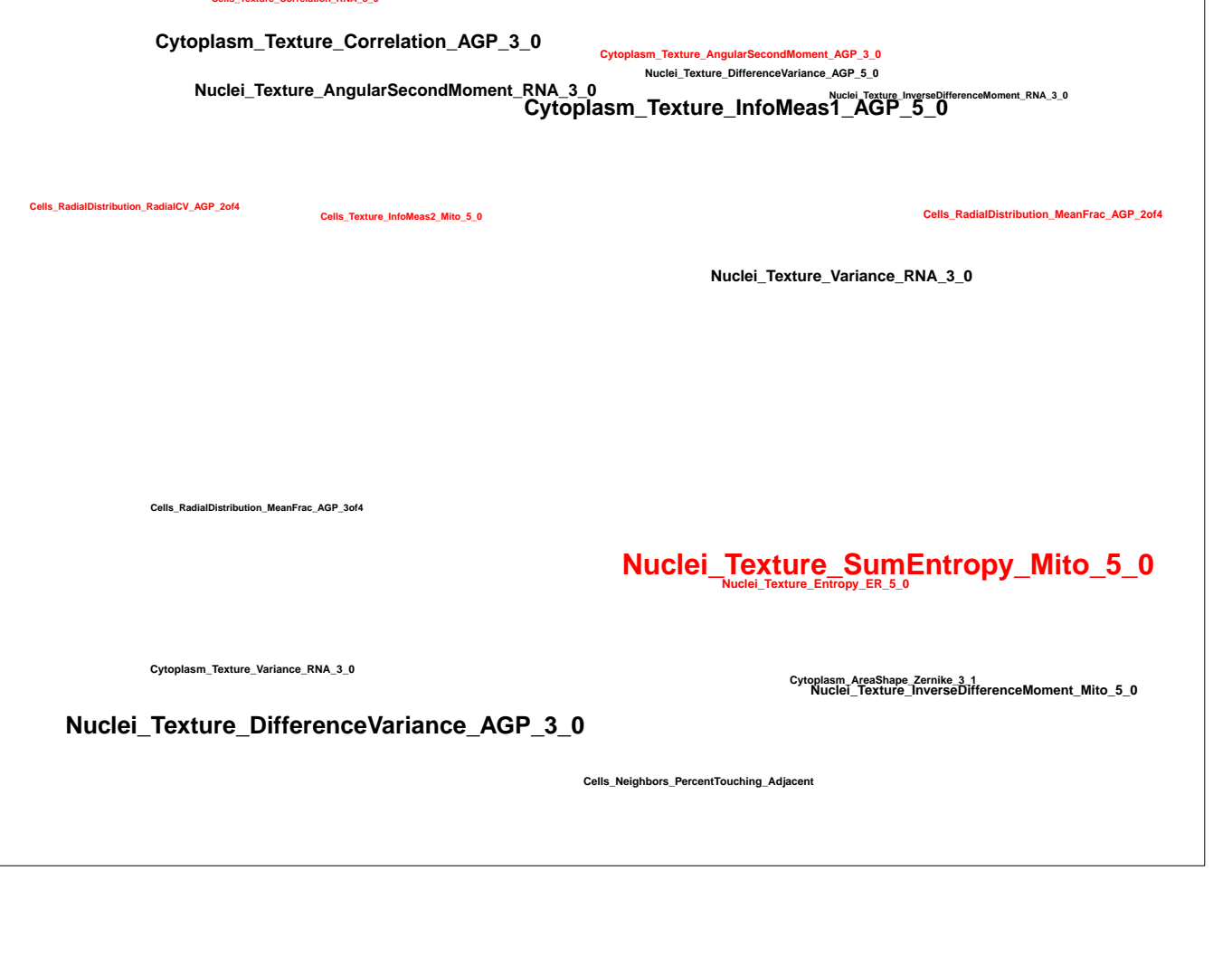
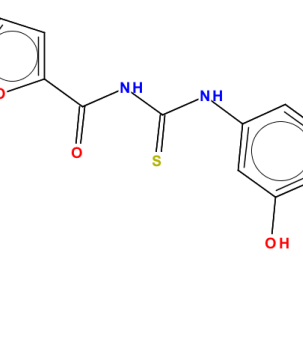
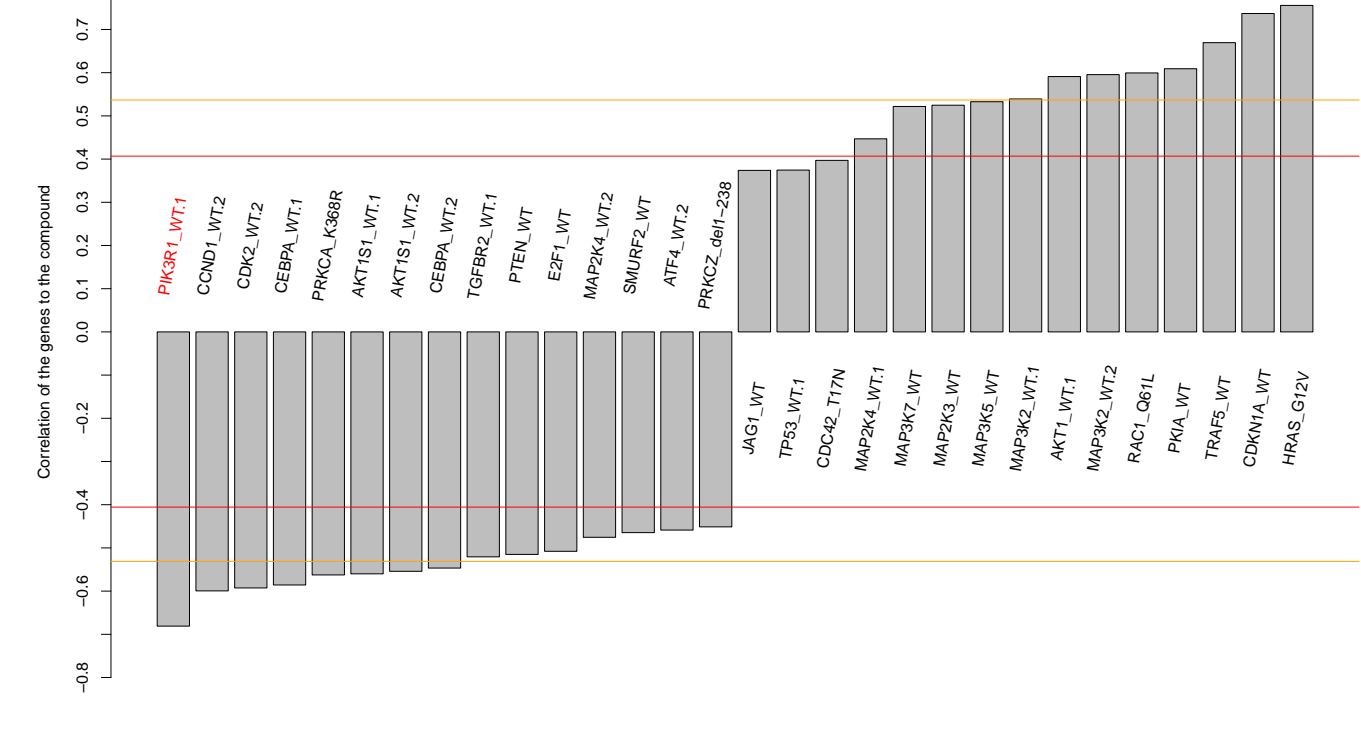
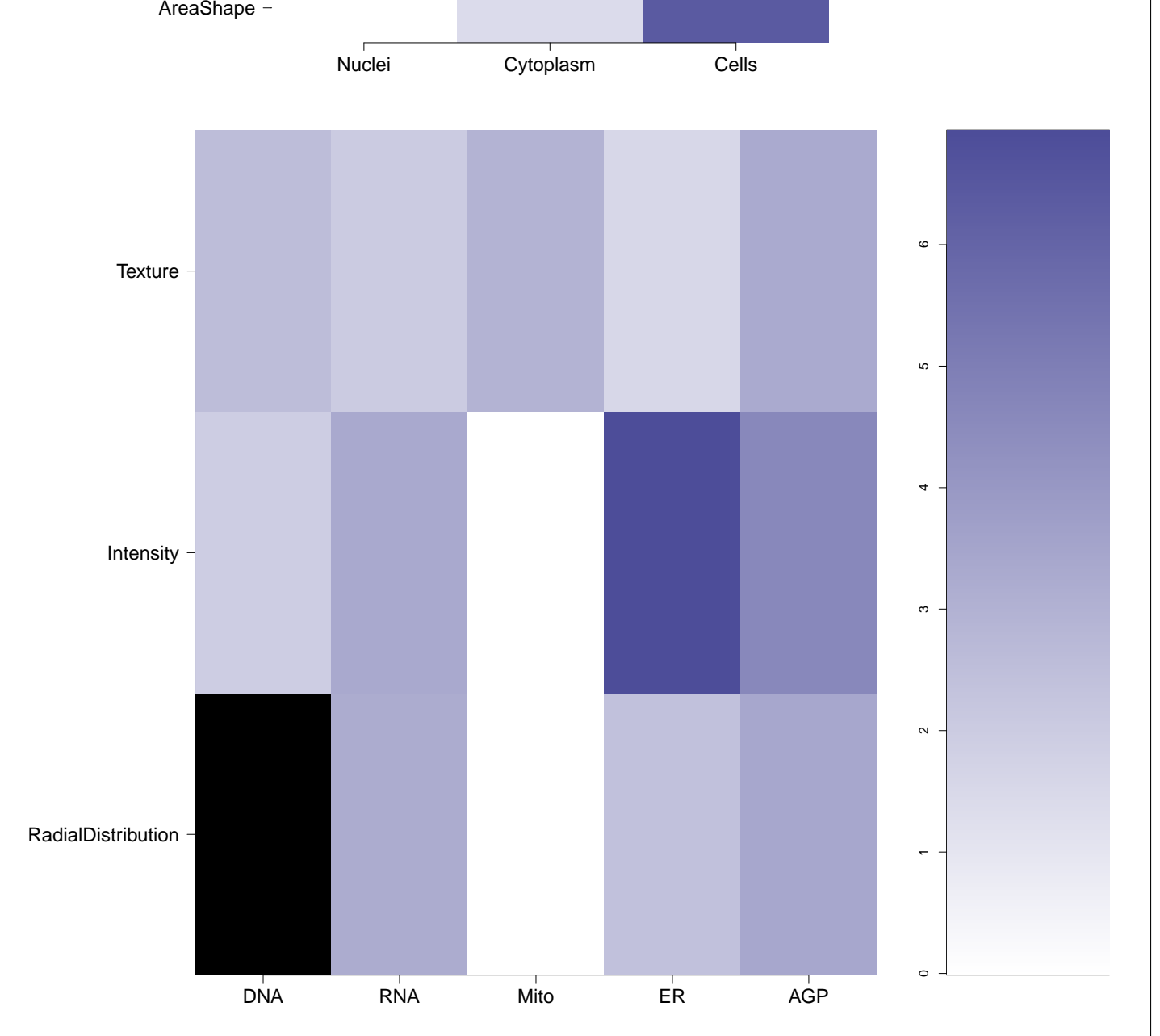



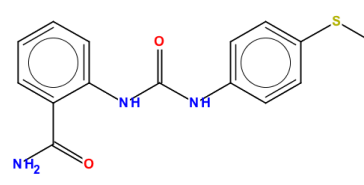
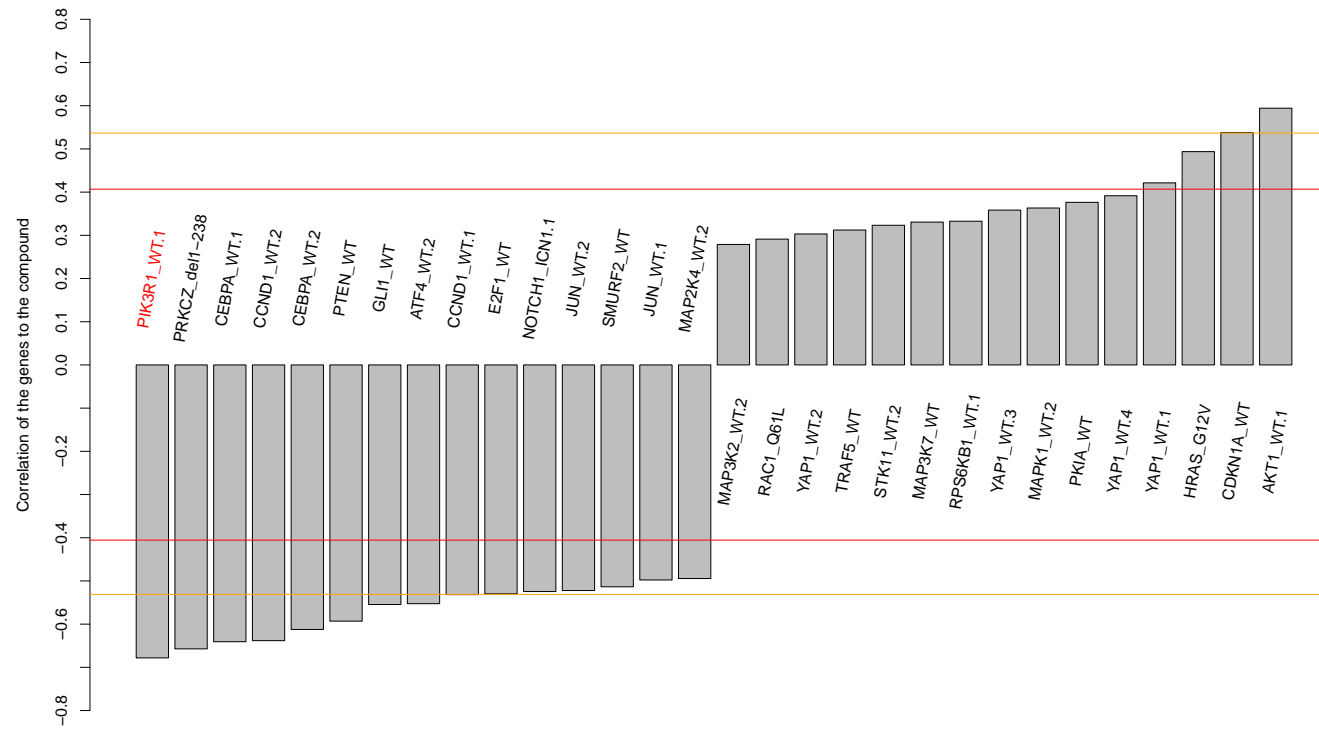
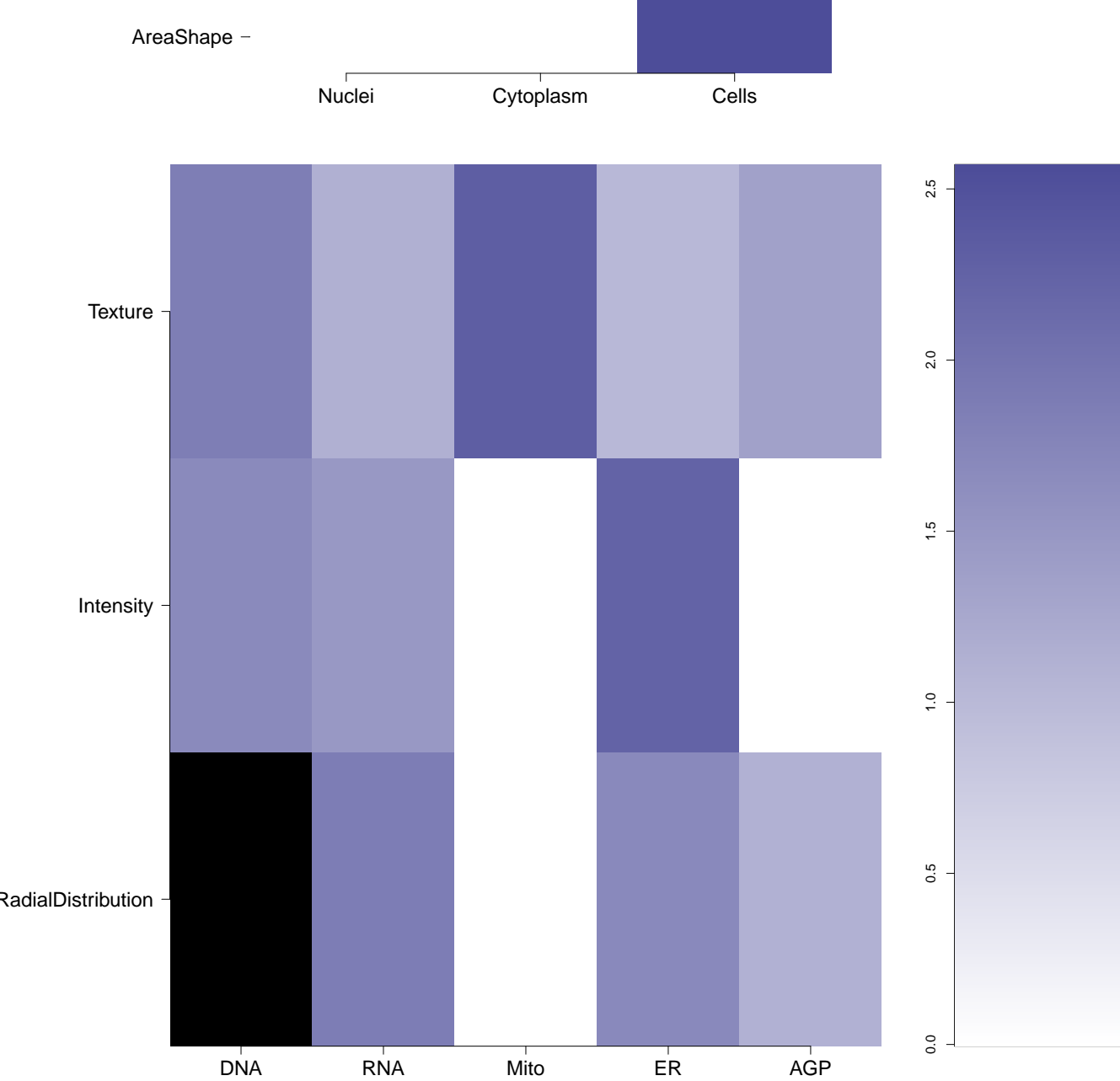

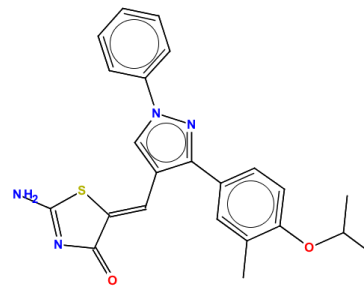
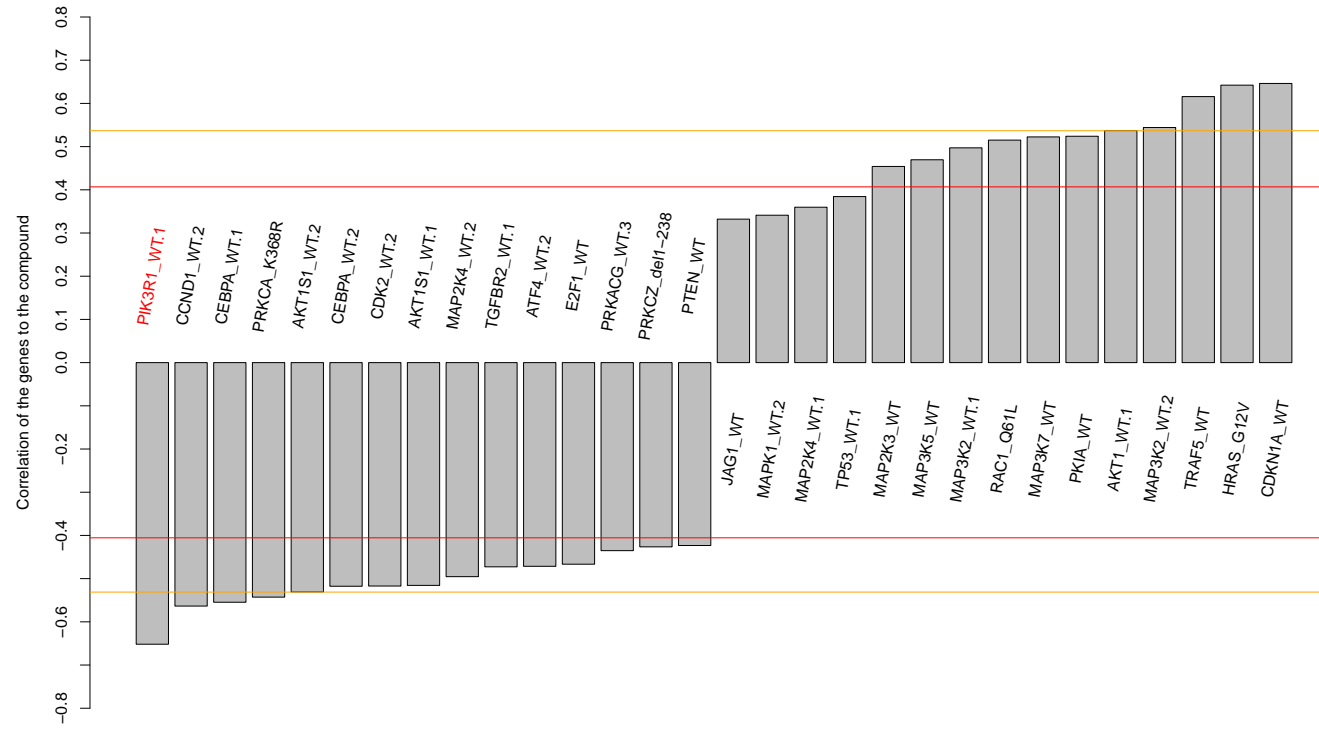
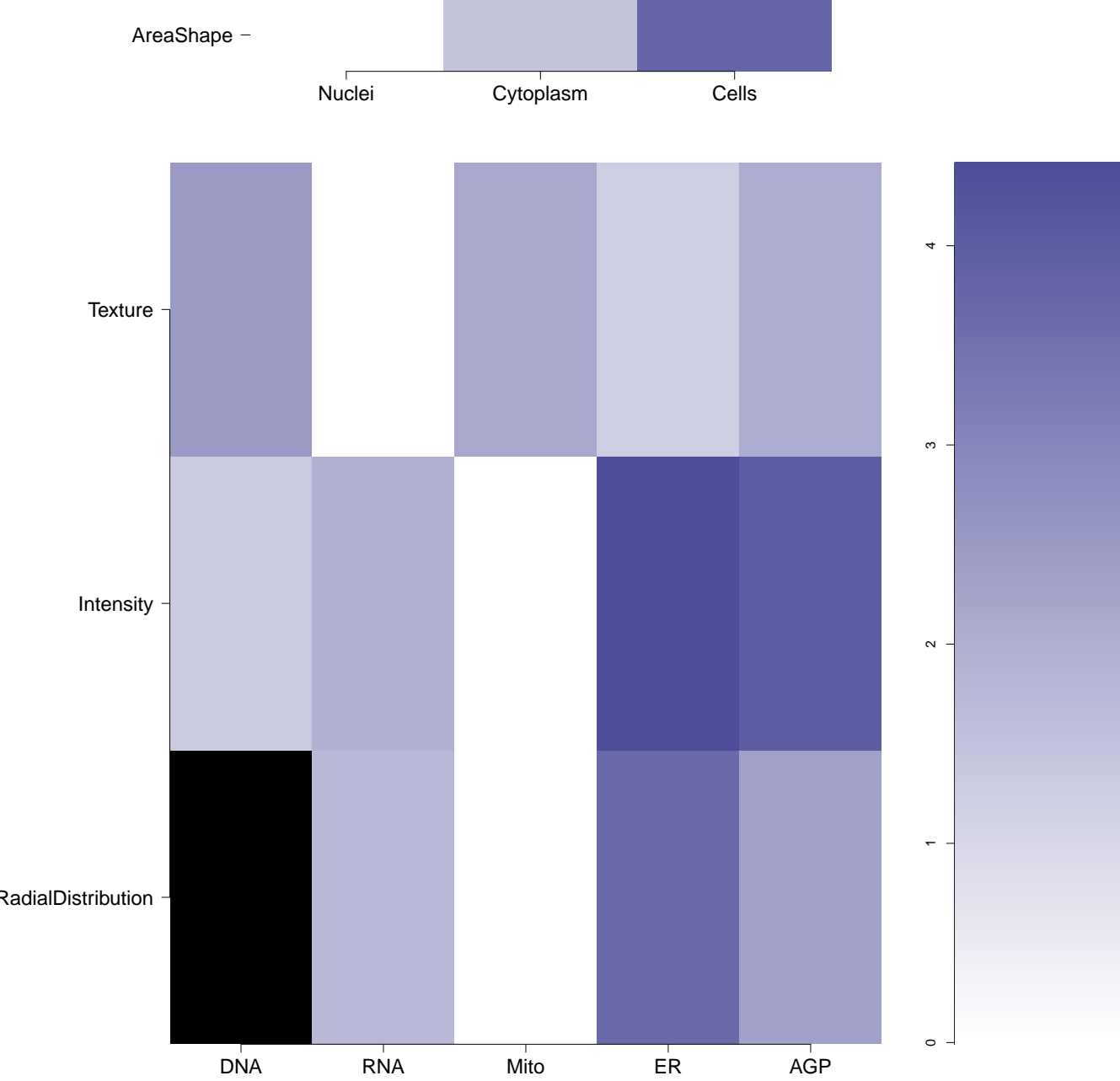

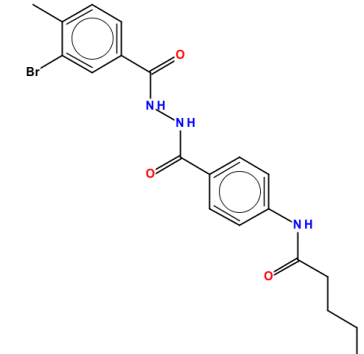
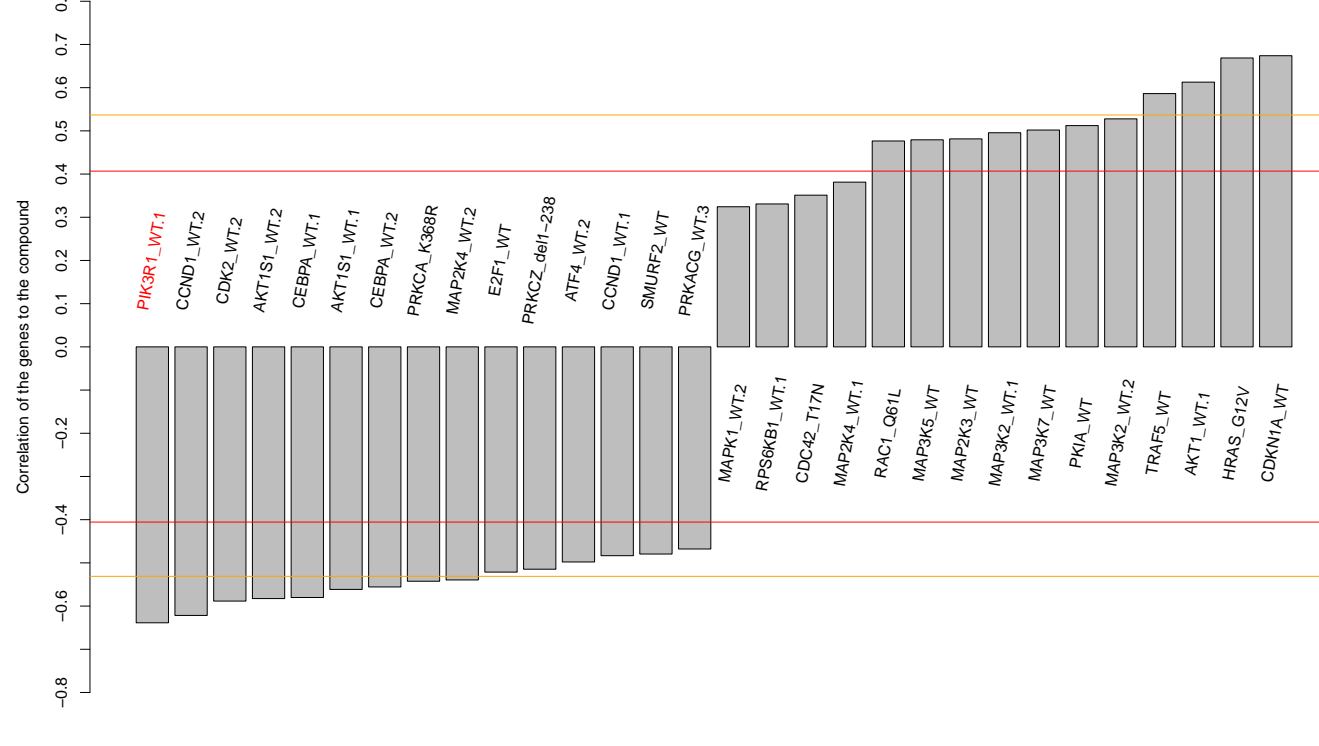
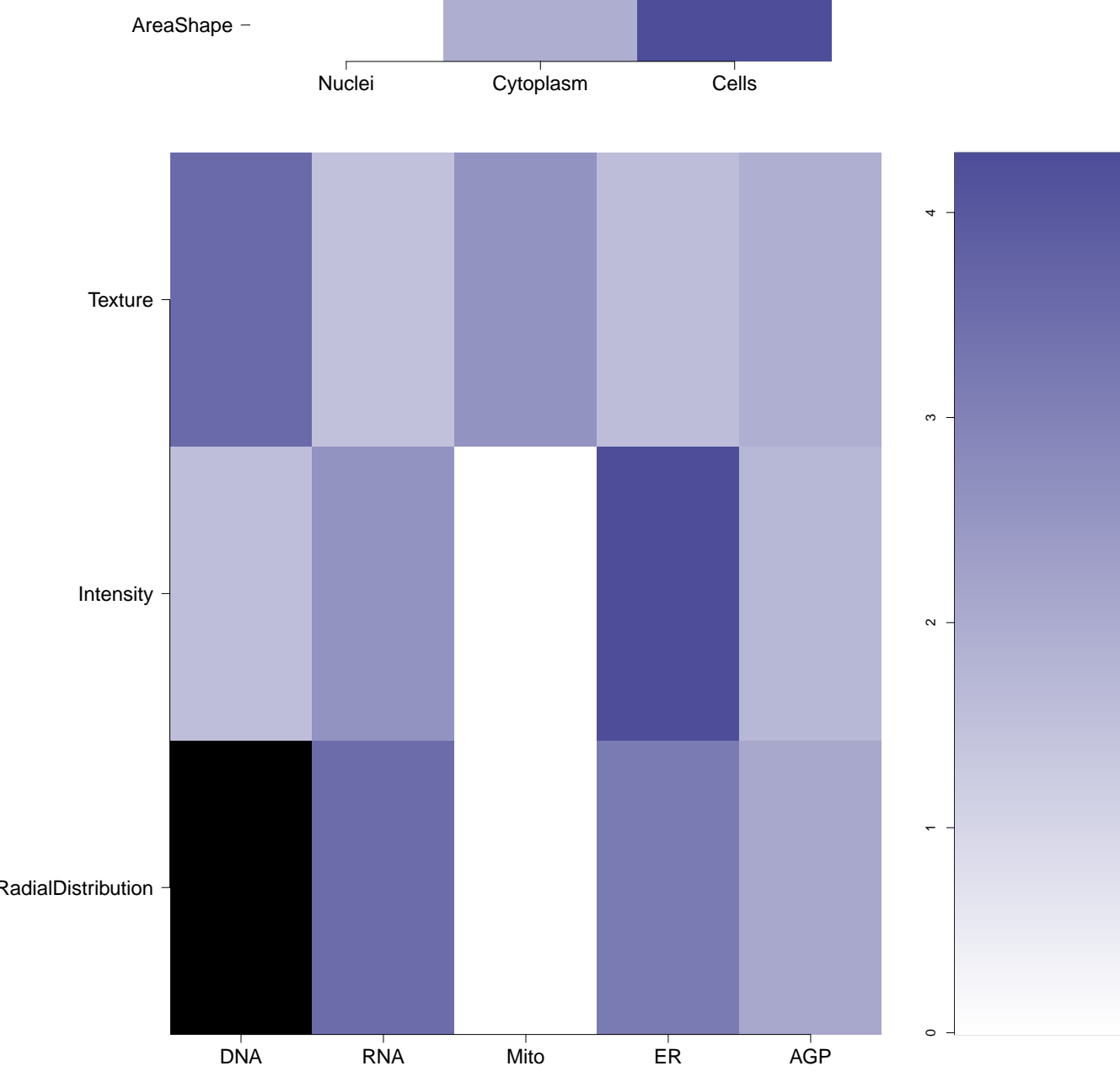

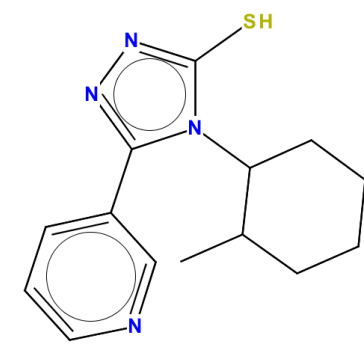
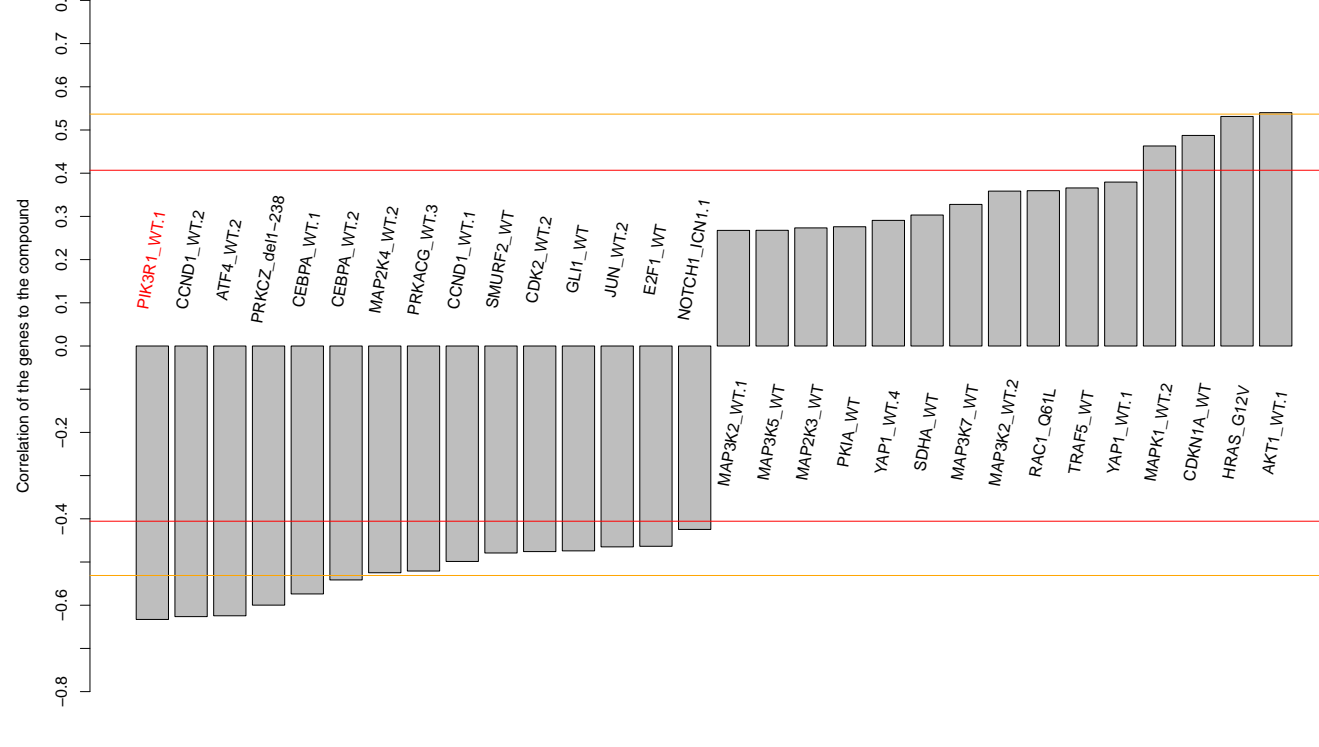
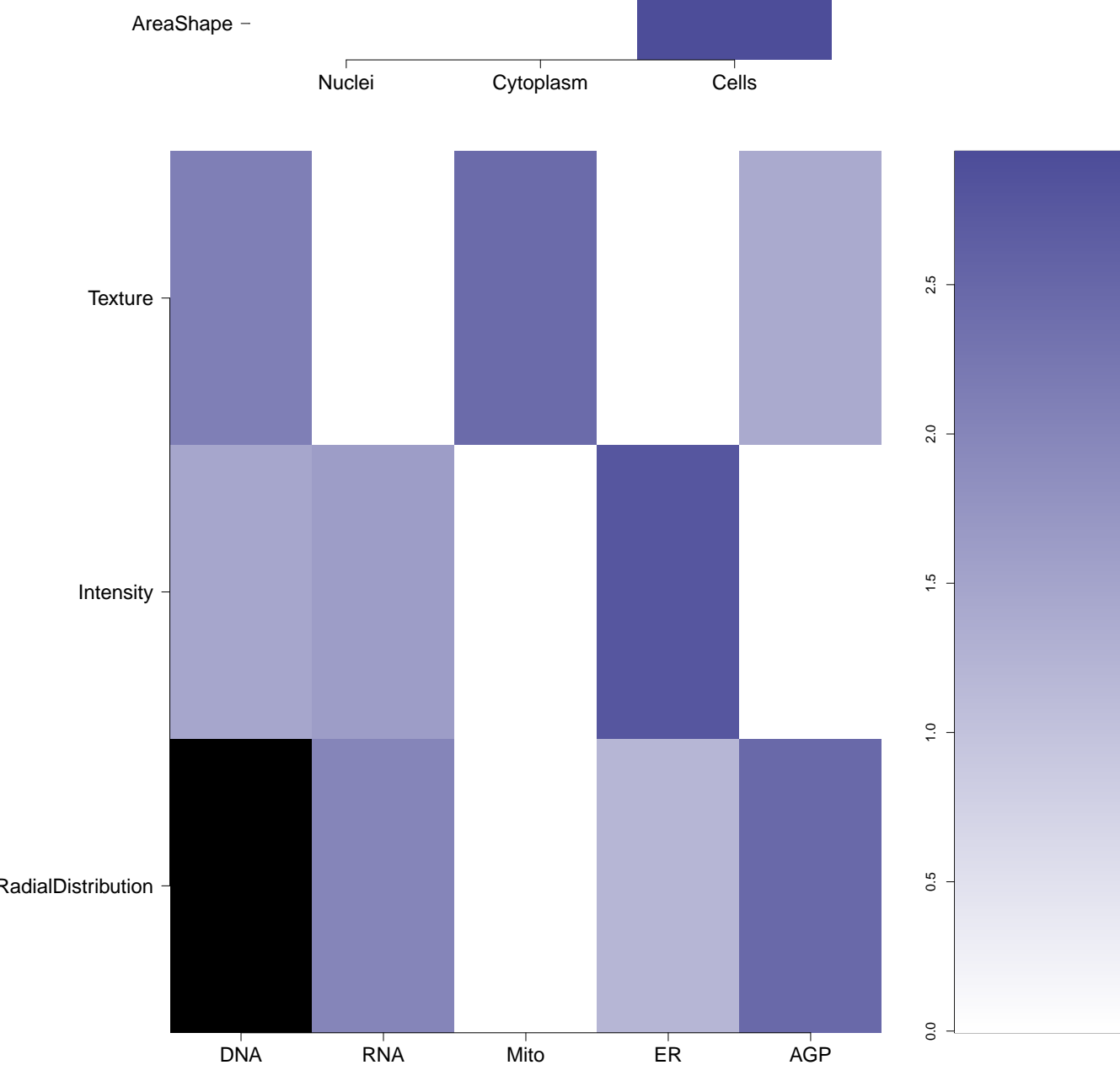

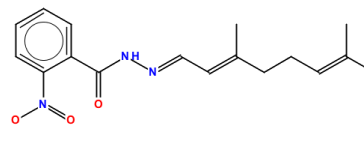
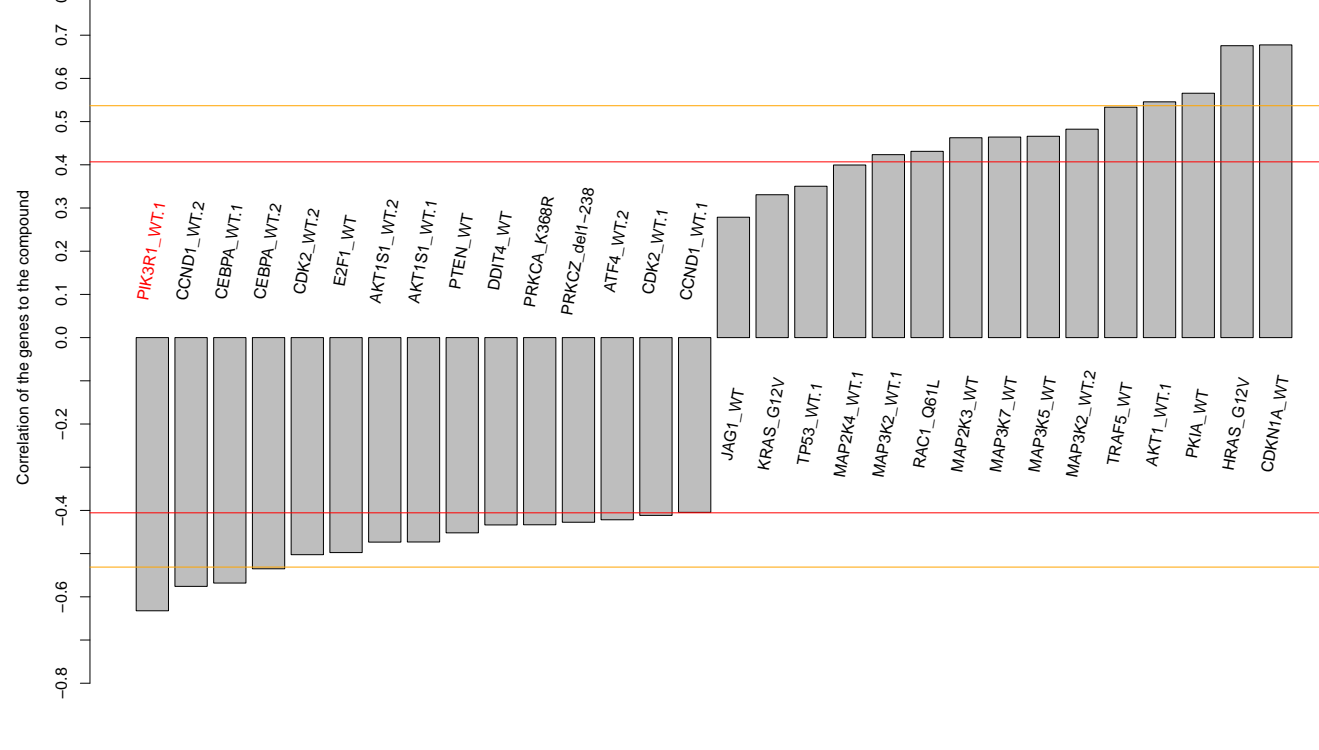
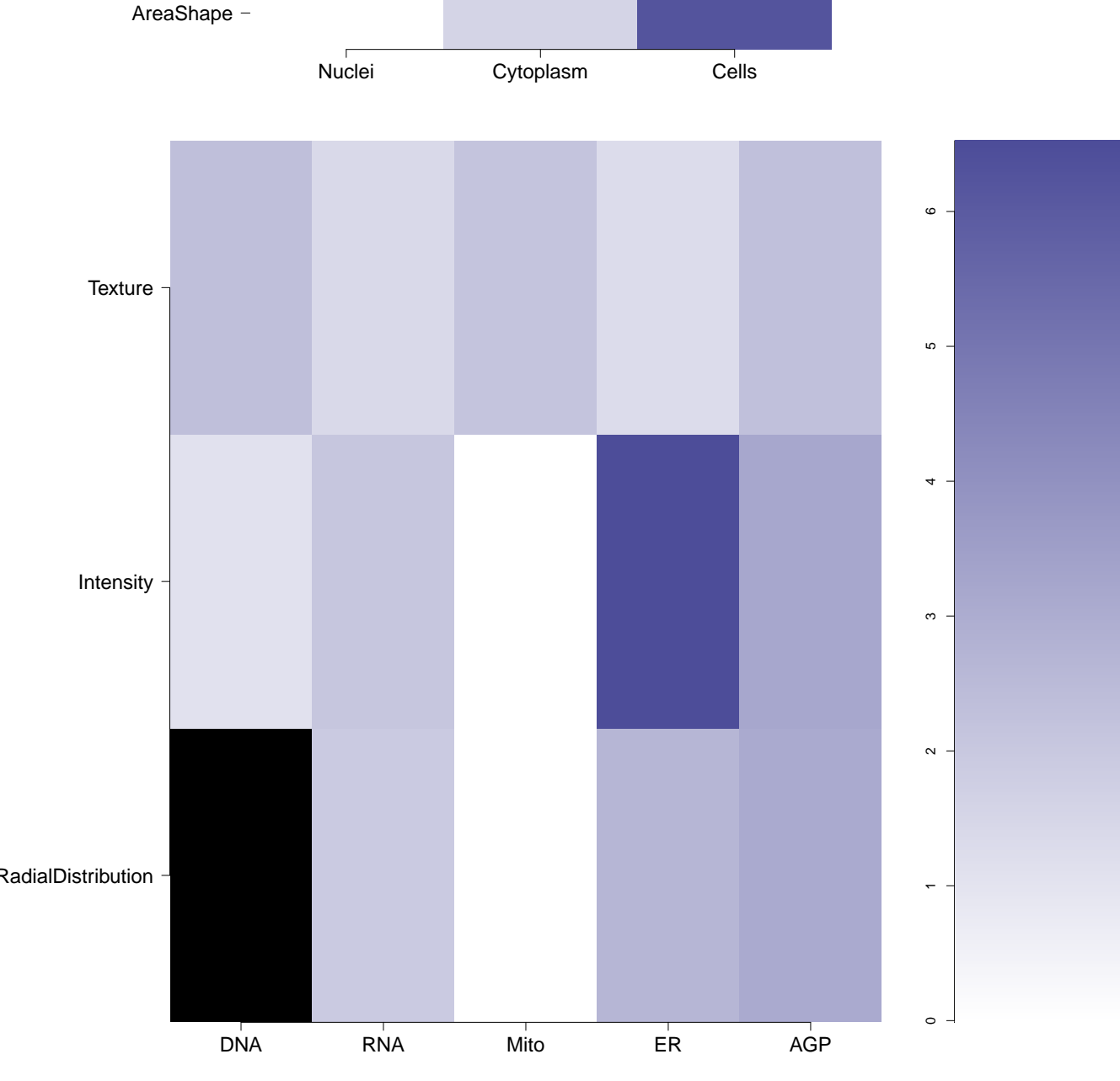
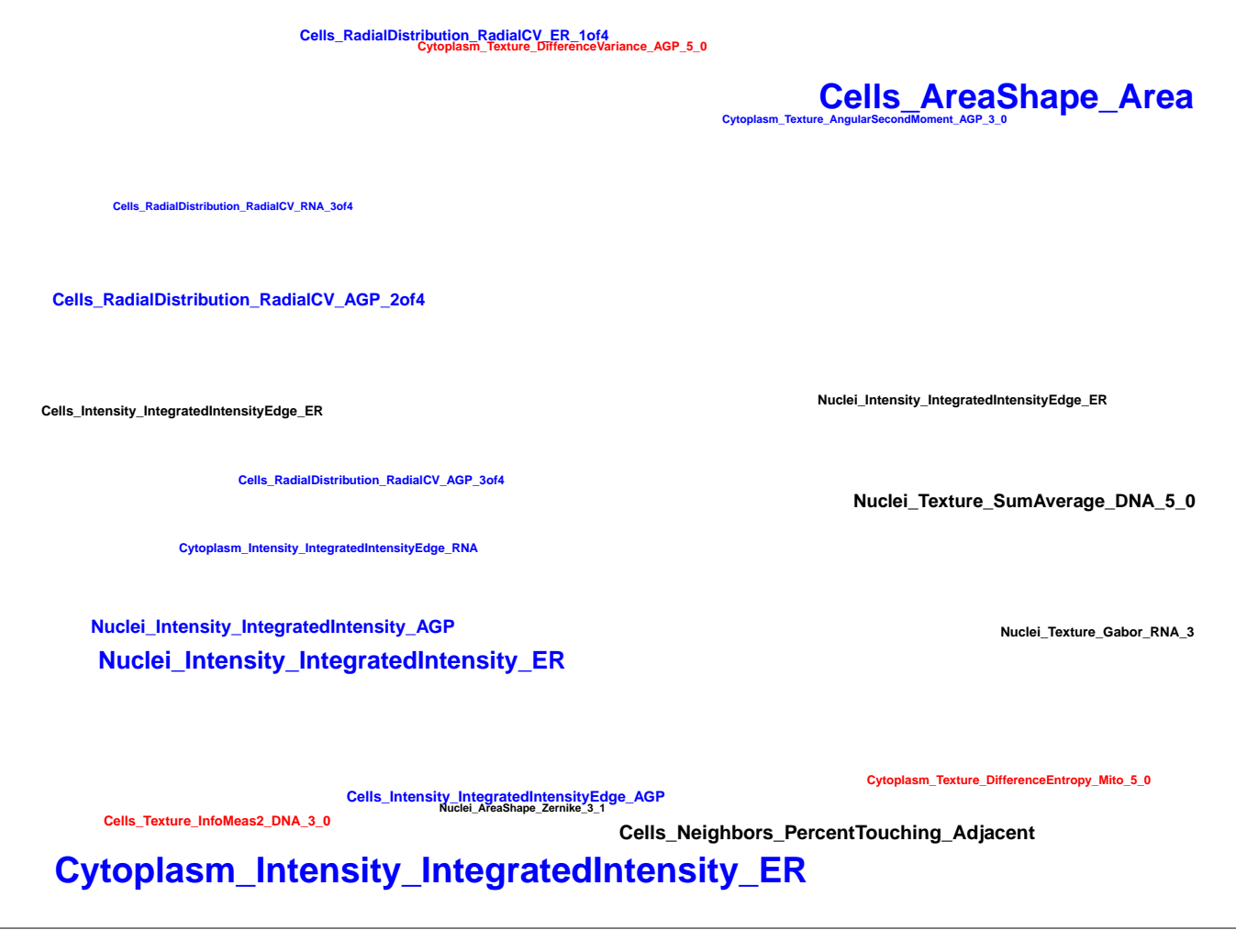
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.



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-K23946230-001-07-9 MLS000771305 SMR000344440 AC1NIKDQ BDBM72613 HMS2772C18 PubChem CID : 4832471		NA (in 1 replicates)	0.61	NA				<p>Total number of assays tested in: 572. Active in the following assays:</p> <ul style="list-style-type: none"> HCS to Identify Inhibitors of Dynein Mediated Cargo Transport on Microtubules. (AID 1381) qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490) Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) Luminescence Cell-Based Dose Retest to Identify Potentiators of Heat Shock Factor 1 (HSF1) (AID 435004) HCS to Identify Inhibitors of Dynein Mediated Cargo Transport on Microtubules: Confirmation Assay (AID 463116) HTS-Luminescent assay for inhibitors of ALR by detection of hydrogen peroxide production Measured in Biochemical System Using Plate Reader - 2036-02.Inhibitor.SinglePoint.HTS (AID 485317) qHTS Inhibitors of AmpC Beta-Lactamase (assay without detergent) (AID 485341) Heat Shock Factor-1 (HSF-1) Measured in Cell-Based System Using Plate Reader - 2038-01.Activator.SinglePoint.HTS Activity (AID 504408) Sustained Induction of HSF-1 Measured in Cell-Based System Using Plate Reader - 2038-07.Activator.Dose.CherryPick.Activity (AID 602296) A quantitative high throughput screen for small molecules that induce DNA re-replication in MCF 10a normal breast cells. (AID 624296) qHTS of TDP-43 Inhibitors (AID 652104) Primary biochemical fluorescence polarization-based high throughput screening assay to identify inhibitors of protein arginine methyltransferase 1 (PRMT1) (AID 652257) 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) Fluorescence polarization-based biochemical high throughput confirmation assay to identify inhibitors of protein arginine methyltransferase 1 (PRMT1) (AID 687036) MLPCN_PGC1a Modulators Measured in Cell-Based System Using Plate Reader - 2139-01_Activator.Dose.CherryPick_Activity.Set6 (AID 720513) qFRET-based biochemical high throughput primary assay to identify inhibitors of human group III secreted phospholipase A2 enzyme (HGGII-sPLA2) (AID 743136) 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-A72832265-001-06-3 MLS000548215 AC1NAQN8 HMS2366J06 STK315958 SMR000114937 PubChem CID : 4431146		0.76 (in 2 replicates)	0.61	NA				<p>Total number of assays tested in: 668. Active in the following assays:</p> <ul style="list-style-type: none"> Multiplex HTS Screen of TOR pathway GFP-fusion proteins in Saccharomyces cerevisiae specifically. MEPP.MLPCN. (AID 2016) Multiplex HTS Screen of TOR pathway GFP-fusion proteins in Saccharomyces cerevisiae specifically-. RPL19A.MLPCN. (AID 2025) Fluorescence Cell-Free Homogeneous 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 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-K07581216-001-01-5 PubChem CID : 54618448		0.60 (in 4 replicates)	0.55	0.724				<p>Total number of assays tested in: 35.</p>
BRD-K47479852-001-05-4 T0502-0158 AC1OCBLD MLS001018827 HMS1782M03 ZINC12729559 SMR000363219 PubChem CID : 6899059		NA (in 1 replicates)	0.55	NA				<p>Total number of assays tested in: 581. Active in the following assays:</p> <ul style="list-style-type: none"> Luminescence-based primary biochemical high throughput screening assay to identify inhibitors of the Heat Shock Protein 90 (HSP90) (AID 1789) qFBET-based counterscreen for PFM18AAP inhibitors: biochemical high throughput screening assay to identify inhibitors of the Cathepsin L proteinase (CTSL1). (AID 1906) Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) Inhibitors of the vitamin D receptor (VDR): qHTS (AID 504847) Luminescence-based cell-based primary high throughput screening assay to identify activators of the GAA850 frataxin (FXN) promoter (AID 540364) qHTS profiling assay for firefly luciferase inhibitor/activator using purified enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588512) Counterscreen for activators of the GAA850 frataxin promoter: luminescence-based cell-based high throughput screening assay to identify activators of the GAA30 frataxin promoter (AID 588350) Luminescence-based cell-based high throughput confirmation assay for activators of the GAA850 frataxin (FXN) promoter (AID 588351) Luminescence-based cell-based primary high throughput screening assay to identify activators of the function of SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2, BRM) (AID 652017) qHTS for Inhibitors of phosphatidylinositol 5-phosphate 4-kinase (PI5P4K) (AID 652105) 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) qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504)

BRD-K20192397-001-01-5 PubChem CID : 44490468		0.74 (in 4 replicates)	0.54	NA				Total number of assays tested in: 43.
BRD-K42136676-001-05-9 AC1LJ3M9 MLS000588280 HMS2542120 ZINC5819375 STK361603 SMR000212094 EU-0073050 ST50807812 F1001-0013 PubChem CID : 916344		NA (in 1 replicates)	0.54	NA				Total number of assays tested in: 654. Active in the following assays: <ul style="list-style-type: none"> qHTS Assay for Modulators of miRNAs and/or Inhibitors of miR-21 (AID 2289) Elucidation of physiology of non-replicating, drug-tolerant Mycobacterium tuberculosis (AID 488890) qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) Luminescence-based biochemical primary high throughput screening assay to identify inhibitors of Trypanosoma brucei methionyl tRNA synthetase (MetRS) (AID 624268) Luminescence-based biochemical high throughput orthogonal assay for inhibitors of Trypanosoma brucei methionyl tRNA synthetase (MetRS) (AID 624412) Fluorescent Polarization-based biochemical high throughput orthogonal assay for inhibitors of Trypanosoma brucei methionyl tRNA synthetase (MetRS) (AID 651607) HTS for PAXS inhibitors using PAXS luciferase reporter gene assay in RMG-I cells Measured in Cell-Based System Using Plate Reader - 7054-01 Inhibitor.SinglePoint.HTS Activity (AID 652154)
BRD-K99915395-001-01-7 PubChem CID : 54646409		0.70 (in 4 replicates)	0.53	0.724				Total number of assays tested in: 38.
BRD-K53349319-001-01-6 PubChem CID : 54632181		0.58 (in 4 replicates)	0.52	0.724				Total number of assays tested in: 36.
BRD-K12091863-001-01-4 PubChem CID : 54618535		0.59 (in 4 replicates)	0.51	0.140				Total number of assays tested in: 31.
BRD-K40543019-001-01-3 PubChem CID : 54649000		0.65 (in 2 replicates)	0.51	0.150				Total number of assays tested in: 36.
BRD-K75977772-001-05-9 MLS000756489 NSC205913 AC1N1LYV ZINC5580712 NSC-205913 SMR000528759 PubChem CID : 4007404		NA (in 1 replicates)	-0.68	NA				Total number of assays tested in: 565. Active in the following assays: <ul style="list-style-type: none"> 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 Assay for the Inhibitors of Schistosoma Mansonii Peroxiredoxins (AID 485364) qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) qHTS profiling assay for firefly luciferase inhibitor/activator using purified enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) qHTS of Nrf2 Activators (AID 624171) Luminescence-based cell-based primary high throughput screening assay to identify activators of the function of SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2, BRM) (AID 652017) Luminescence-based cell-based primary high throughput screening assay to identify activators of the DAF-12 from the parasite S. stercoralis (ssDAF-12) (AID 652126) Counterscreen for activators of the function of SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2, BRM): Luminescence-based cell-based high throughput screening assay to identify non-selective compounds using the VP16 reporter assay (AID 686939)

<div>BRD-K49119404-001-05-7</div> <div>MLS000756481</div> <div>NSC-205827</div> <div>NSC205827</div> <div>HMS2885N04</div> <div>ZINC401809</div> <div>ZINC00401809</div> <div>SMR000528754</div> <div>PubChem CID : 307712</div>	<div></div>	NA (in 1 replicates)	-0.68	NA	<div></div>	<div></div>	<div></div>	<div>Total number of assays tested in: 568. Active in the following assays:</div> <div><ul style="list-style-type: none">• 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)• HTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 8 (SENPS) (AID 2540)• uHTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 6 (SEN6) (AID 2599)• uHTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 7 (SEN7) (AID 434973)• qHTS profiling assay for firefly luciferase inhibitor/activator using purified enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588512)• qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase-1 (TDP1): qHTS in cells in presence of CPT (AID 686979)</div>
<div>BRD-K56431031-001-05-7</div> <div>MLS000588411</div> <div>AC1LTTVN</div> <div>HMS2537A04</div> <div>ZINC1470316</div> <div>STK810003</div> <div>ZINC01470316</div> <div>SMR000212182</div> <div>ST50042501</div> <div>T0511-7175</div> <div>PubChem CID : 1540074</div>	<div></div>	0.85 (in 4 replicates)	-0.65	0.276	<div></div>	<div></div>	<div></div>	<div>Total number of assays tested in: 662. Active in the following assays:</div> <div><ul style="list-style-type: none">• Multiplexed high-throughput screen for small molecule regulators of Bcl-2 family protein interactions, specifically Bim-Mcl-1 (AID 1009)• qHTS for Inhibitors of Tan Fibril Formation, Fluorescence Polarization (AID 1468)• HTS Assay for PdgR Promoter Inhibitors (AID 588405)• uHTS identification of inhibitors of NaDd in a Colorimetric assay (AID 602399)• uHTS identification of small molecule activators of alpha dystroglycan glycosylation (AID 624168)• A quantitative high throughput screen for small molecules that induce DNA re-replication in MCF 10a normal breast cells. (AID 624296)• uHTS identification of inhibitors of cellin ned-dylation in a TR-FRET assay (AID 651609)</div>
<div>BRD-K92105860-001-05-9</div> <div>MLS000582831</div> <div>SMR000201536</div> <div>ZINC02885104</div> <div>AC1M3GMM</div> <div>ARONIS009773</div> <div>BDBM82697</div> <div>HMS2510M18</div> <div>ZINC2885104</div> <div>STL064040</div> <div>ST50526944</div> <div>PubChem CID : 2237510</div>	<div></div>	0.84 (in 3 replicates)	-0.64	NA	<div></div>	<div></div>	<div></div>	<div>Total number of assays tested in: 656. Active in the following assays:</div> <div><ul style="list-style-type: none">• qHTS Assay for Inhibitors of the Human Apurinic/apyrimidinic Endonuclease 1 (APE1) (AID 2517)• uHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346)• uHTS Colorimetric assay for identification of inhibitors of Scp-1 (AID 493091)• qHTS Assay for Inhibitors of JMJD2A-Tudor Domain (AID 504339)• Single concentration confirmation of inhibitors of Mdm2/MdmX interaction using a Full-Length Luciferase Counterscreen assay (AID 504607)• Single concentration confirmation of inhibitors of Mdm2/MdmX interaction using a Breal/Bard1 BiLC Counterscreen assay. (AID 504668)• Single concentration confirmation of uHTS hits for Scp-1 phosphatase using a colorimetric assay (AID 540281)• Dose Response confirmation of uHTS hits for Scp-1 phosphatase using a colorimetric assay (AID 540297)• uHTS identification of DNMT1 inhibitors in a Fluorescent Molecular Beacon assay (AID 588458)• uHTS identification of small molecule inhibitors of Striatral-Enriched Phosphatase via a fluorescence intensity assay (AID 588621)• Dose Response selectivity of inhibitors of Striatral-Enriched Phosphatase (STEP) in a SHP2 (PTPN11) Inhibition Assay (AID 602367)• Dose Response selectivity of inhibitors of Striatral-Enriched Phosphatase (STEP) in the dual-specificity protein-tyrosine phosphatase VHR Inhibition Assay (AID 602374)• Single concentration confirmation molecule inhibitors of Striatral-Enriched Phosphatase via a fluorescence intensity assay (AID 623866)• uHTS identification of small molecule inhibitors of Low Molecular Weight Protein Tyrosine Phosphatase, LMPTP, via a fluorescence intensity assay (AID 651560)• Dose response confirmation of small molecule inhibitors of Low Molecular Weight Protein Tyrosine Phosphatase, LMPTP, via a fluorescence intensity assay (AID 651700)• Dose response confirmation of small molecule inhibitors of Low Molecular Weight Protein Tyrosine Phosphatase, LMPTP, in an orthogonal absorbance-based assay (AID 652905)• Dose response confirmation of uHTS small molecule inhibitors of Low Molecular Weight Protein Tyrosine Phosphatase, LMPTP, in a fluorescence-based, VHR-1 (dual specificity phosphatase 3) selectivity assay (AID 686961)• Luminescent GLuc Reporter Gene Assay Primary HTS to Identify Small Molecule Activator of Glucose Dependent Insulin Secretion Measured in Cell-Based System Using Plate Reader - 7055-01 Activator, SinglePoint.HTS Activity (AID 743287)</div>
<div>BRD-A23271867-001-06-6</div> <div>MLS001004875</div> <div>SMR000348440</div> <div>AC1MXUIK</div> <div>AC1Q2RIC</div> <div>BDBM51996</div> <div>CTK6C2125</div> <div>HMS1782L15</div> <div>HMS2682A12</div> <div>NE61490</div> <div>EN300-04500</div> <div>T0512-0170</div> <div>721893-55-6</div> <div>PubChem CID : 3771607</div>	<div></div>	NA (in 1 replicates)	-0.63	NA	<div></div>	<div></div>	<div></div>	<div>Total number of assays tested in: 641. Active in the following assays:</div> <div><ul style="list-style-type: none">• Primary biochemical high throughput screening assay to identify inhibitors of VIM-2 metallo-beta-lactamase (AID 1527)• qHTS Assay for Inhibitors of Leishmania mexicana Pyruvate Kinase (LmPK) (AID 1721)• FRET-based counterscreen assay for selective VIM-2 inhibitors: biochemical high throughput screening assay to identify epi-absorbance assay artifacts (AID 1857)• FRET-based counterscreen for selective VIM-2 inhibitors: dose response biochemical high throughput screening assay to identify epi-absorbance assay artifacts. (AID 1926)• Aqueous Solubility from MLSMR Stock Solutions (AID 1996)• Epi-absorbance-based confirmation assay for common VIM-2 and IMP-1 inhibitors: biochemical high throughput screening assay to identify inhibitors of VIM-2 metallo-beta-lactamase. (AID 2187)• qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)• HTS-Luminescent assay for inhibitors of ALR by detection of hydrogen peroxide production Measured in Biochemical System Using Plate Reader - 2036-02-Inhibitor.SinglePoint.HTS (AID 485317)• qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)• qHTS Assay for Inhibitors of JMJD2A-Tudor Domain (AID 504339)• qHTS of Trypanosoma Brucei Inhibitors (AID 624173)• Counterscreen for inhibitors of 5-mCpG-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)</div>
<div>BRD-K73322901-001-05-4</div> <div>SMR000160543</div> <div>AC1OBL0L</div> <div>MLS000545992</div> <div>ARONIS018840</div> <div>STK018959</div> <div>ZINC15985781</div> <div>PubChem CID : 6875560</div>	<div></div>	0.83 (in 4 replicates)	-0.63	NA	<div></div>	<div></div>	<div></div>	<div>Total number of assays tested in: 654. Active in the following assays:</div> <div><ul style="list-style-type: none">• Leishmania major promastigote HTS (AID 1063)• VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546)• qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)• uHTS identification of small molecule inhibitors of Plasmodium falciparum Glucose-6-phosphate dehydrogenase via a fluorescence intensity assay (AID 504900)• Luminescence-based cell-based primary high throughput screening assay to identify activators of the GAA850 frataxin (FXN) promoter (AID 540364)</div>

