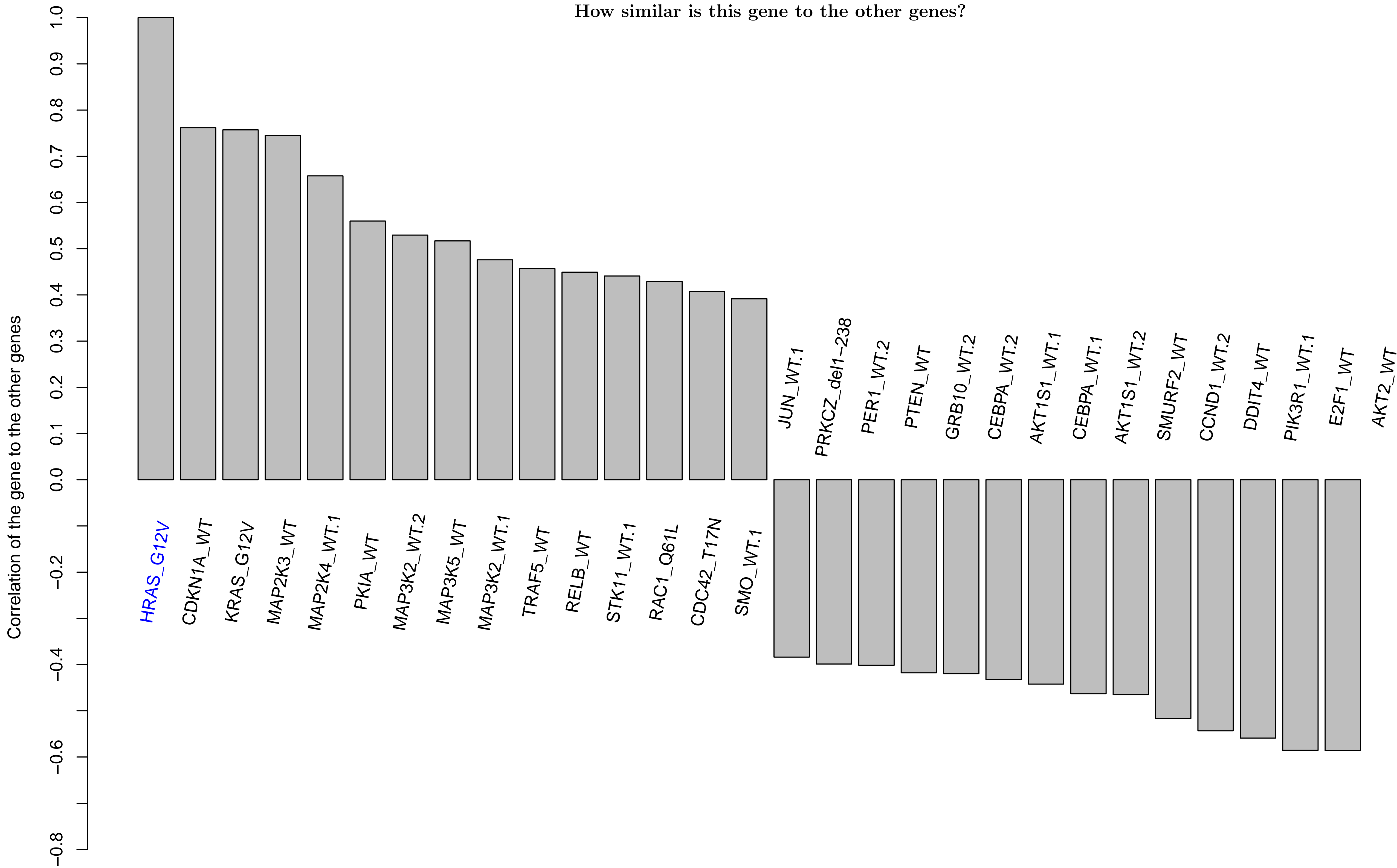
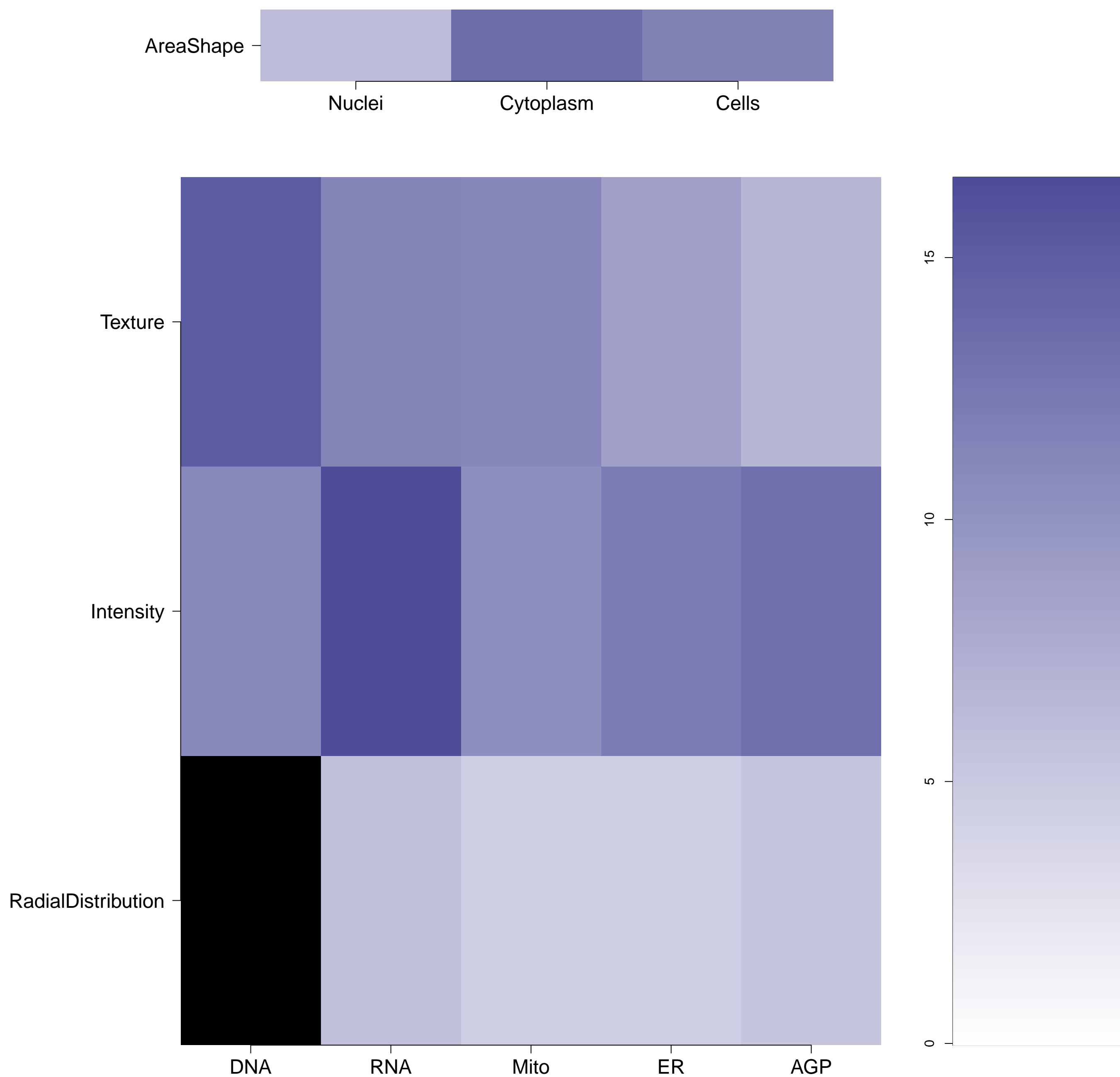


HRAS.G12V - in RTK

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

HRAS.G12V (41744)

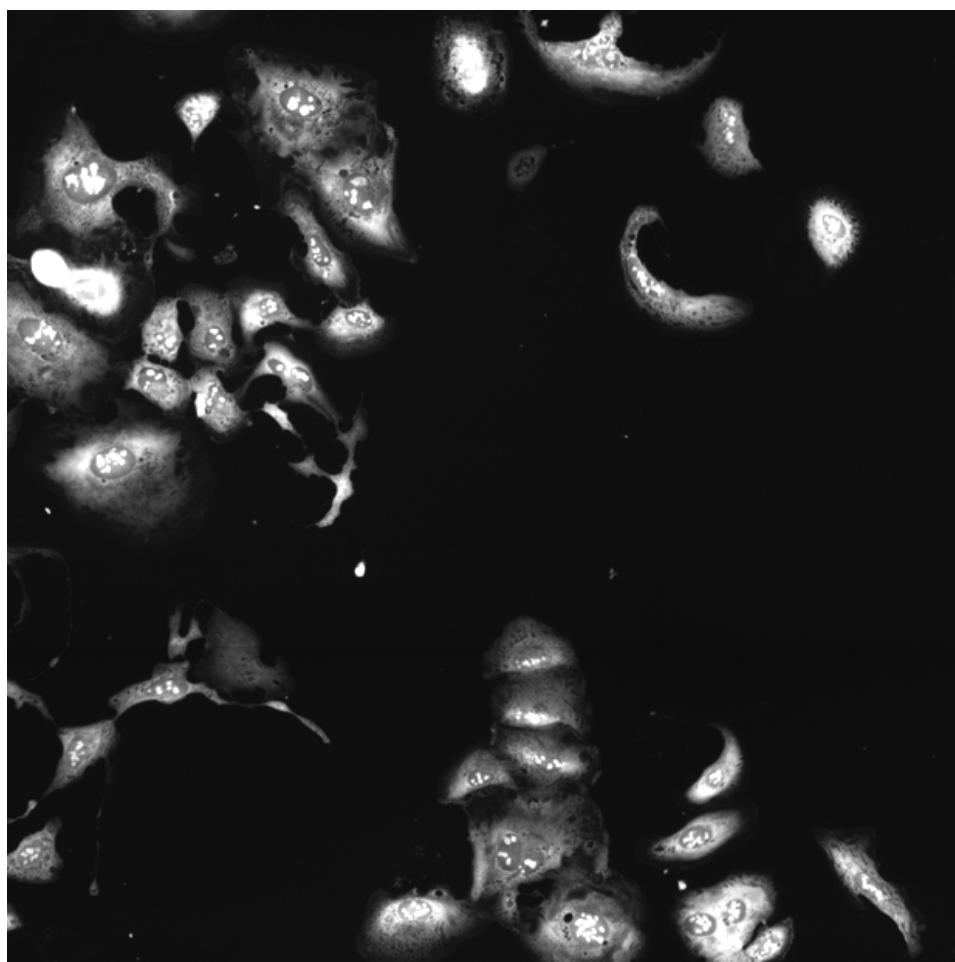
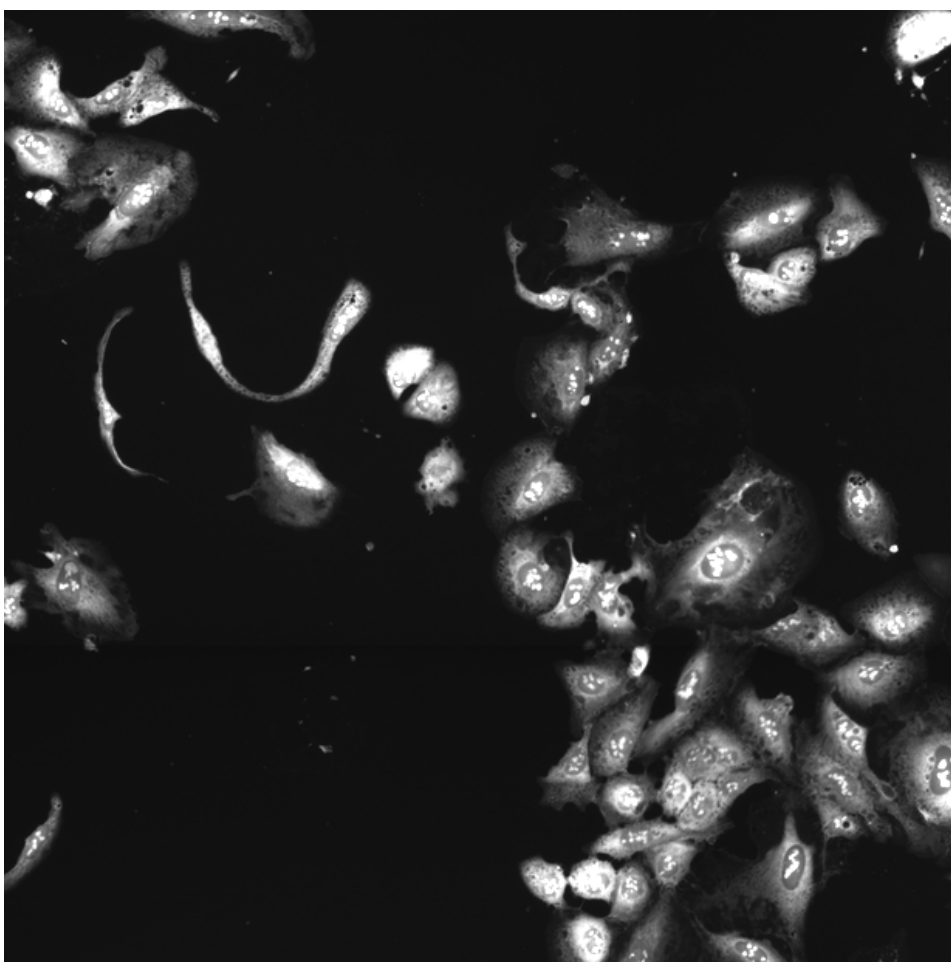
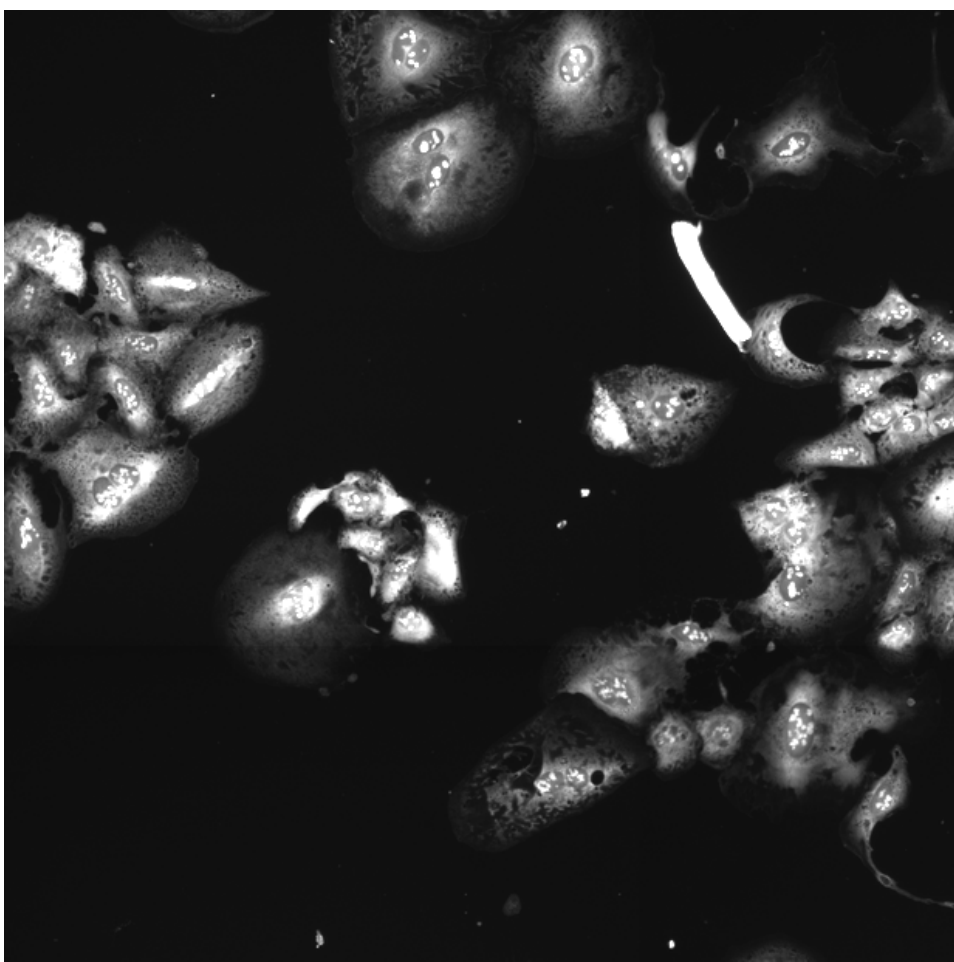
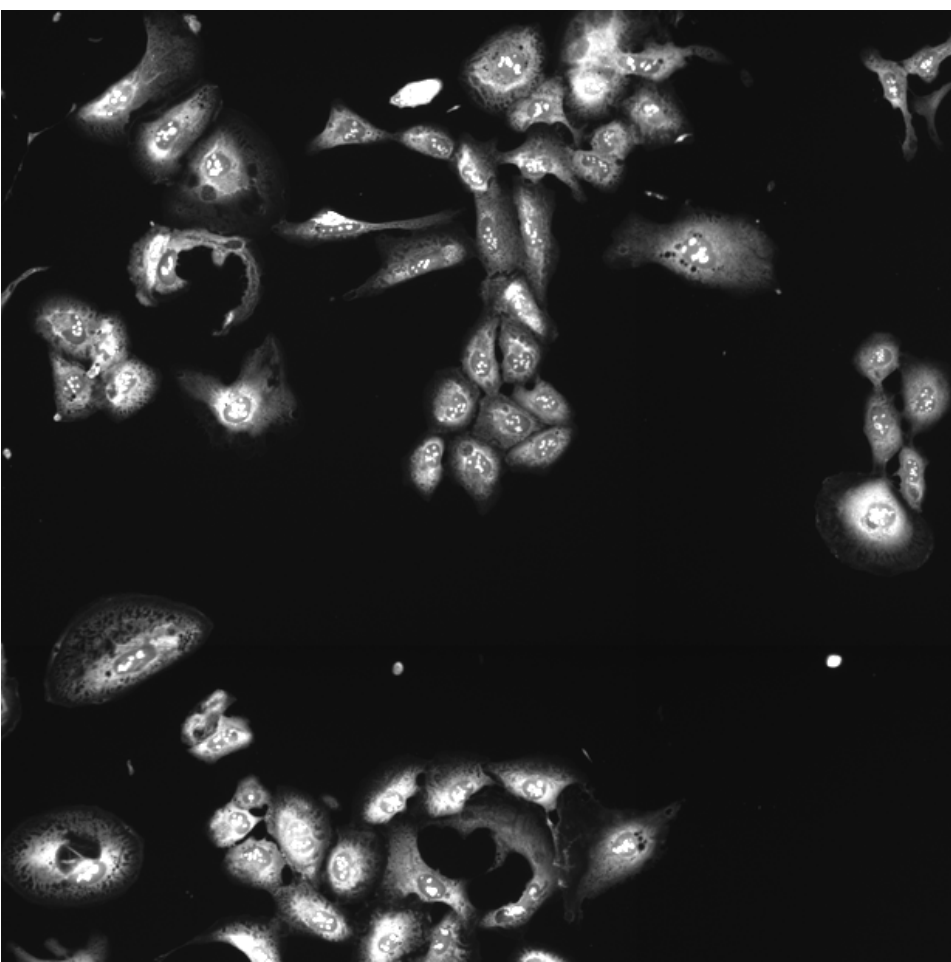
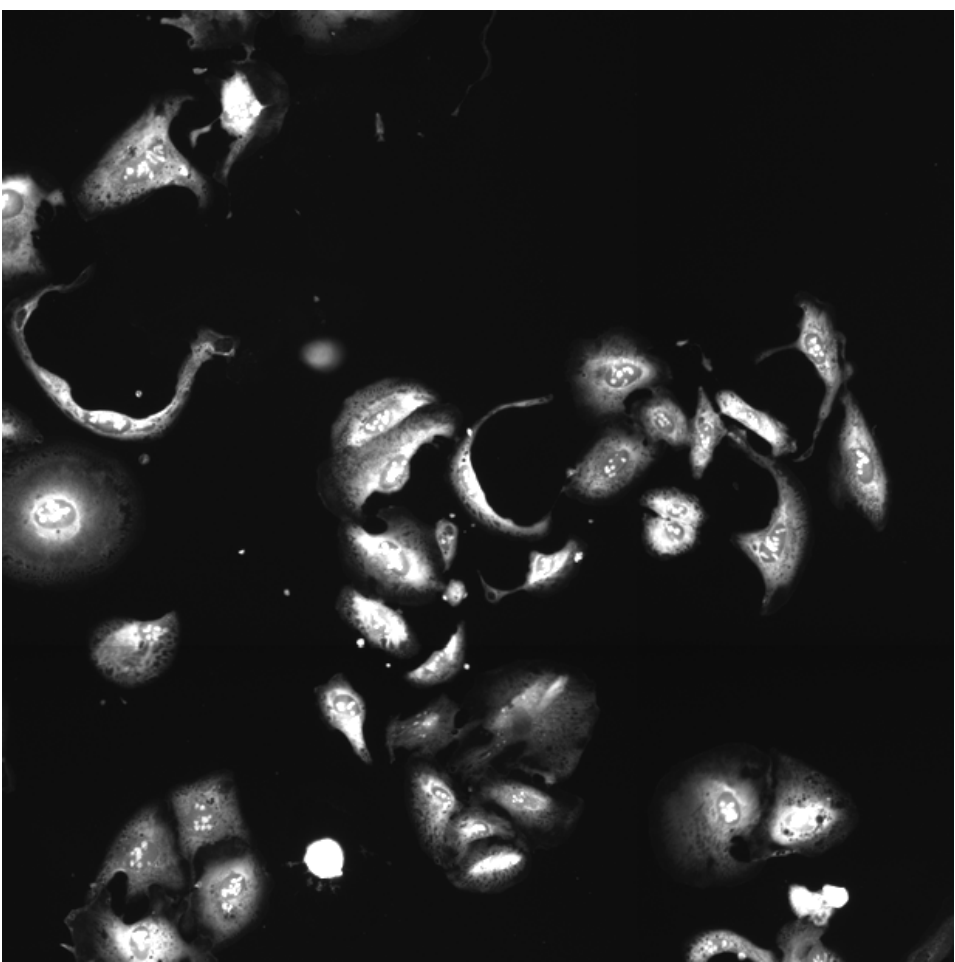
HRAS.G12V (41755)

HRAS.G12V (41756)

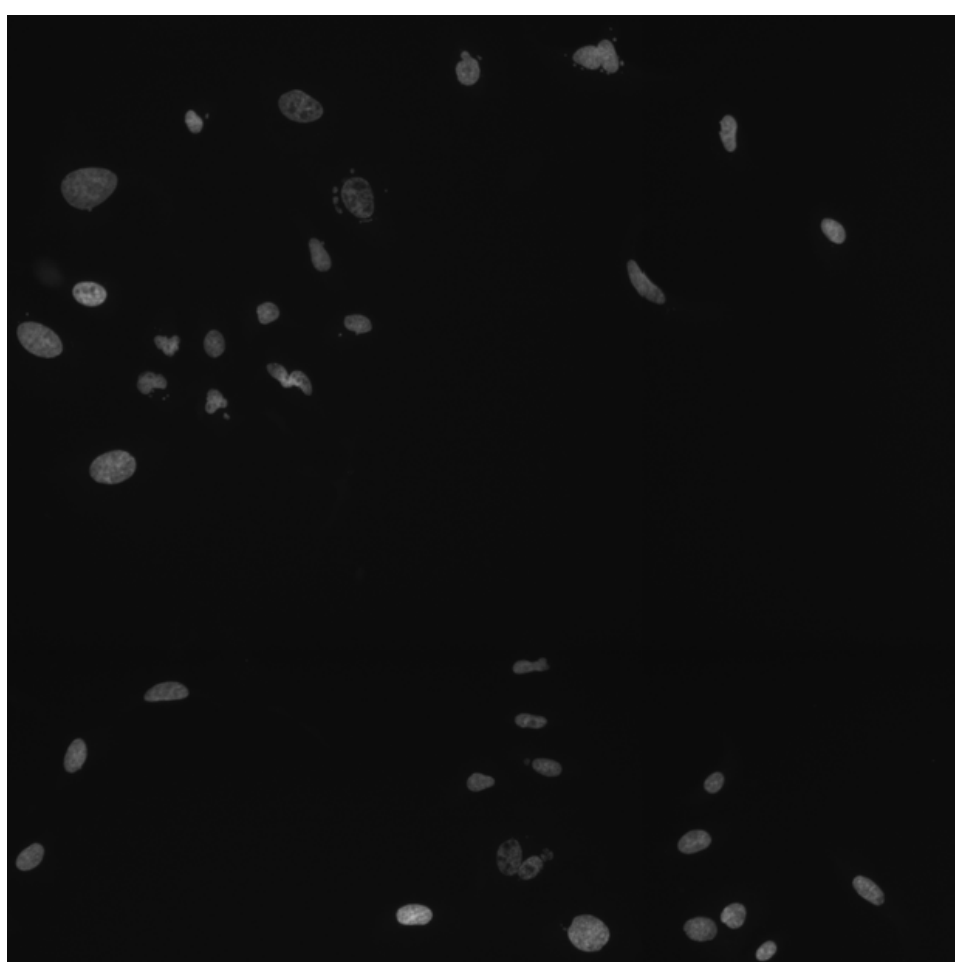
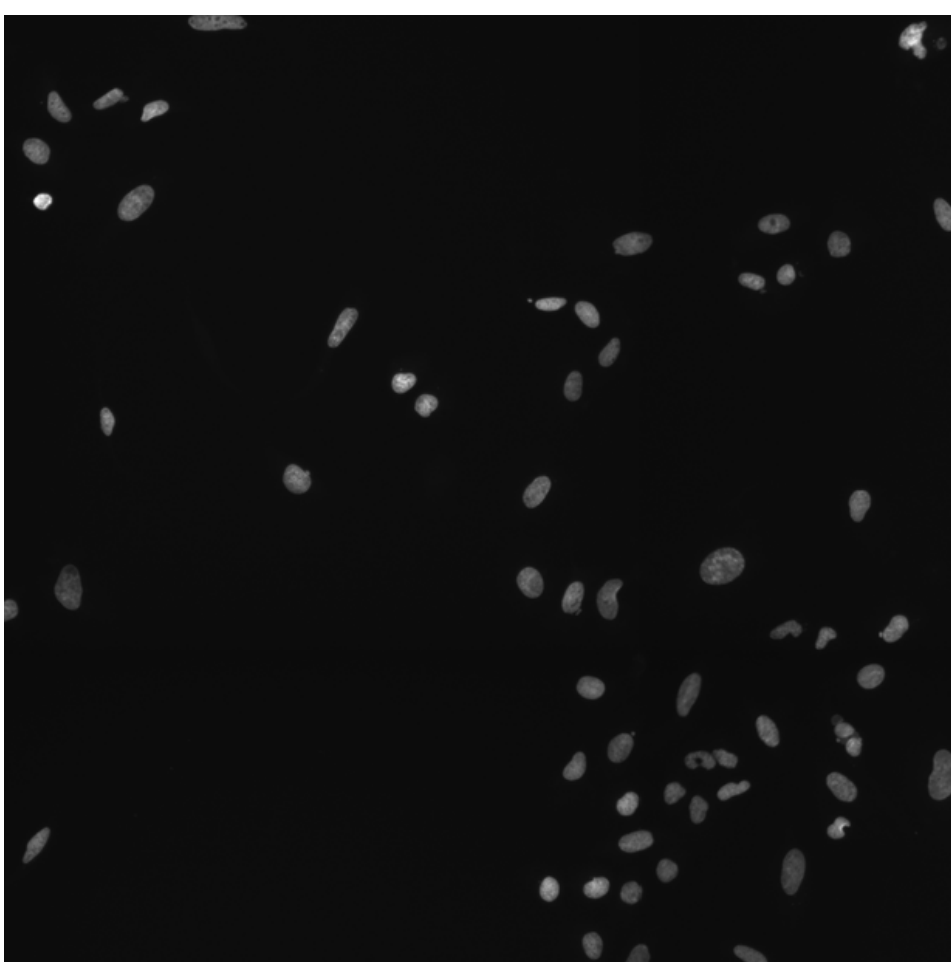
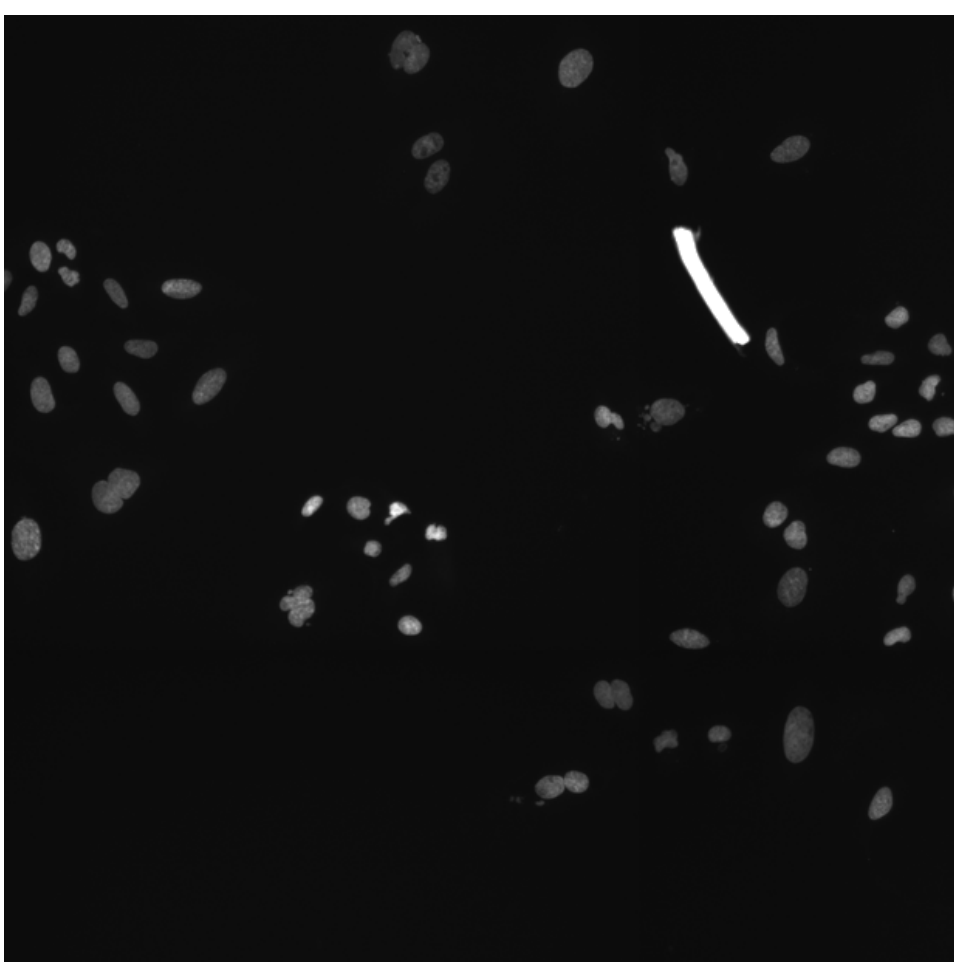
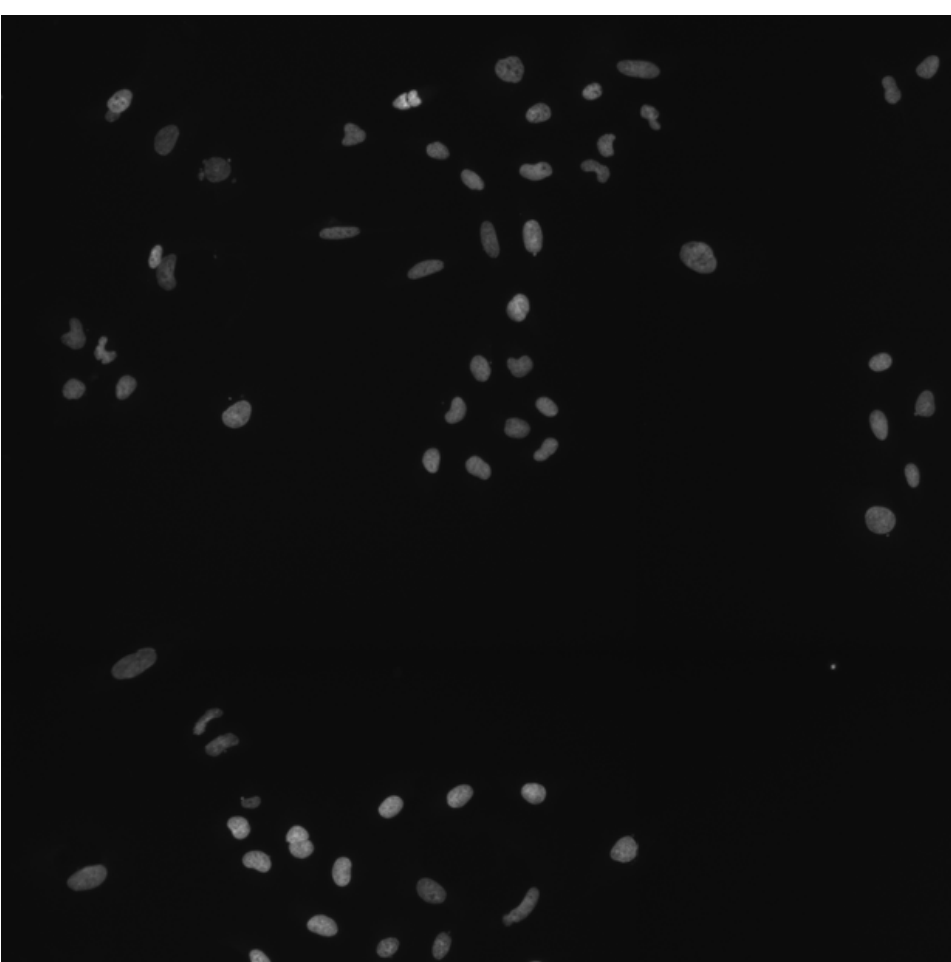
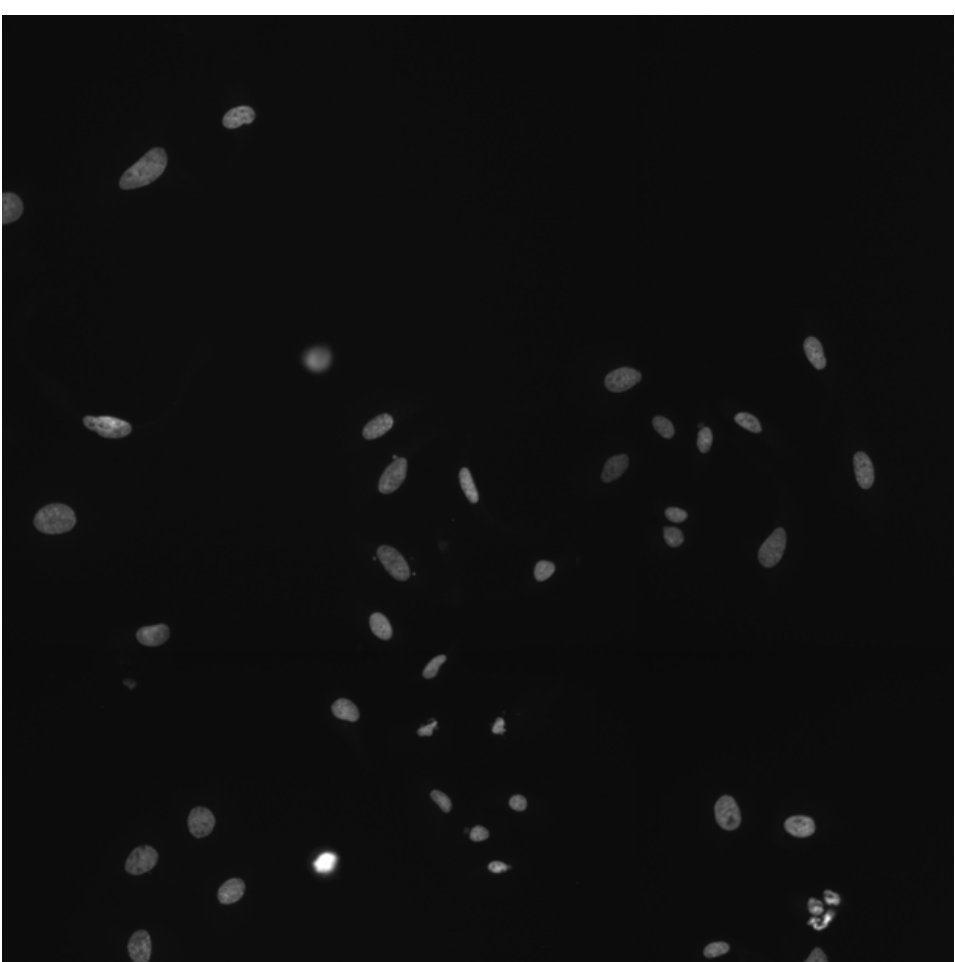
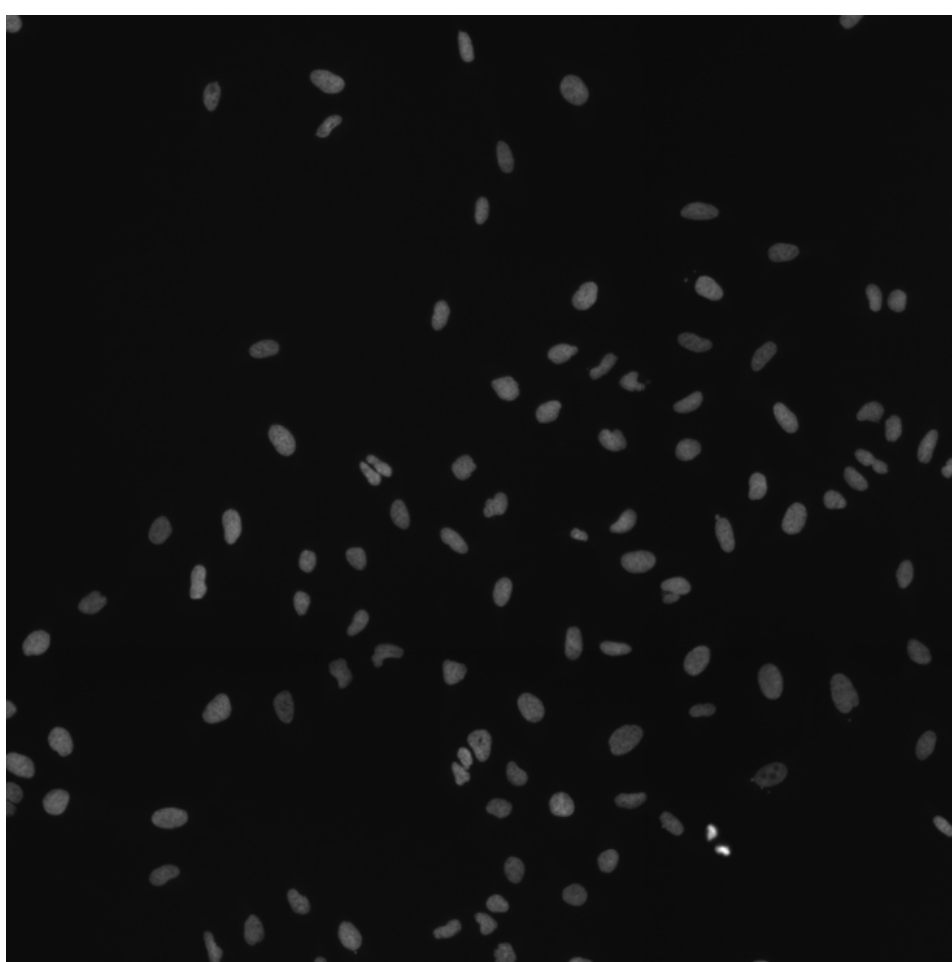
HRAS.G12V (41757)

HRAS.G12V (41754)

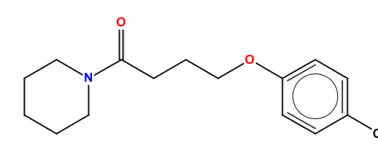
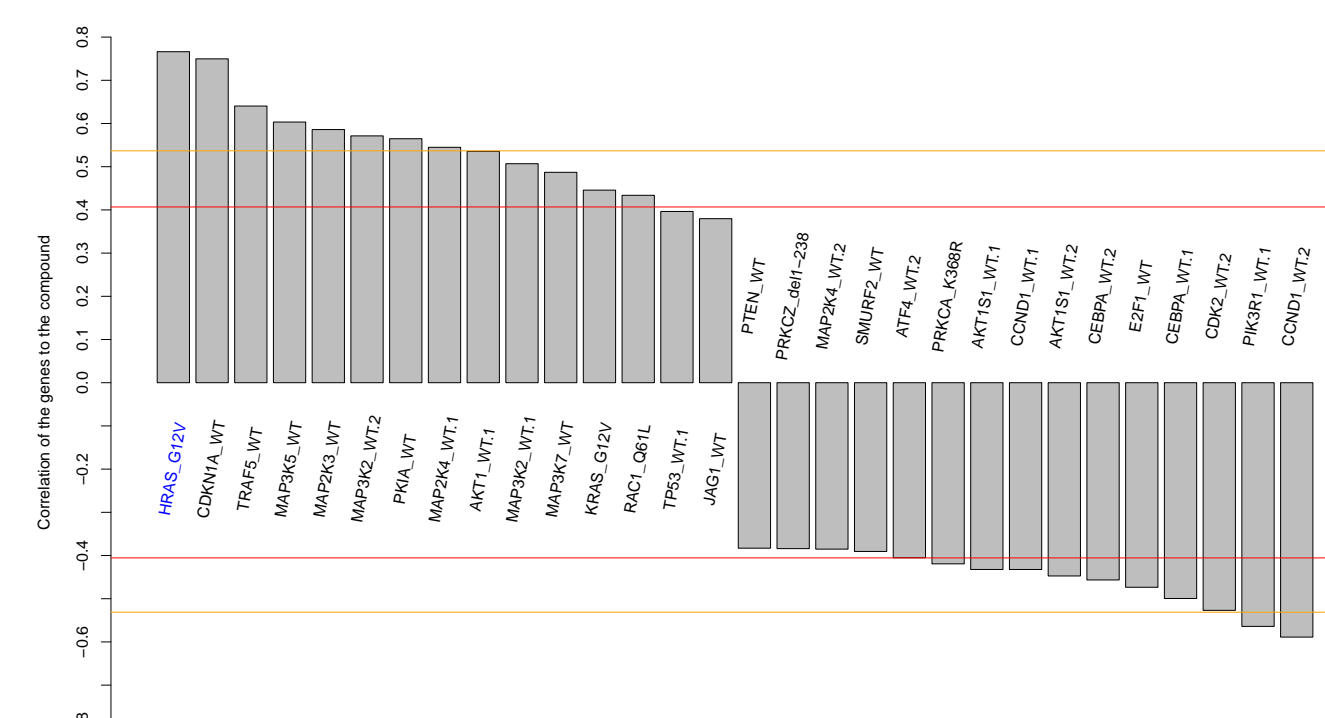
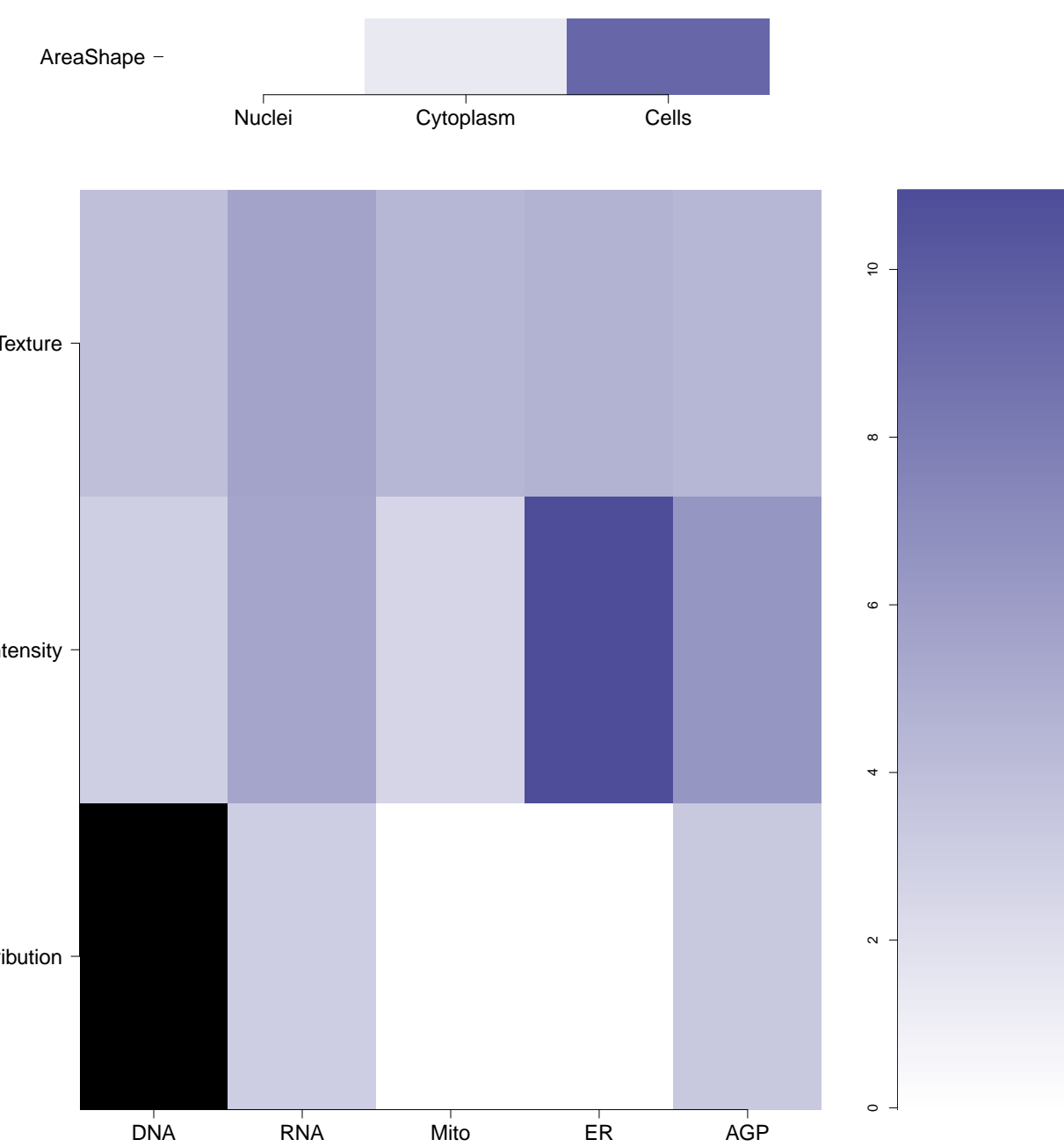
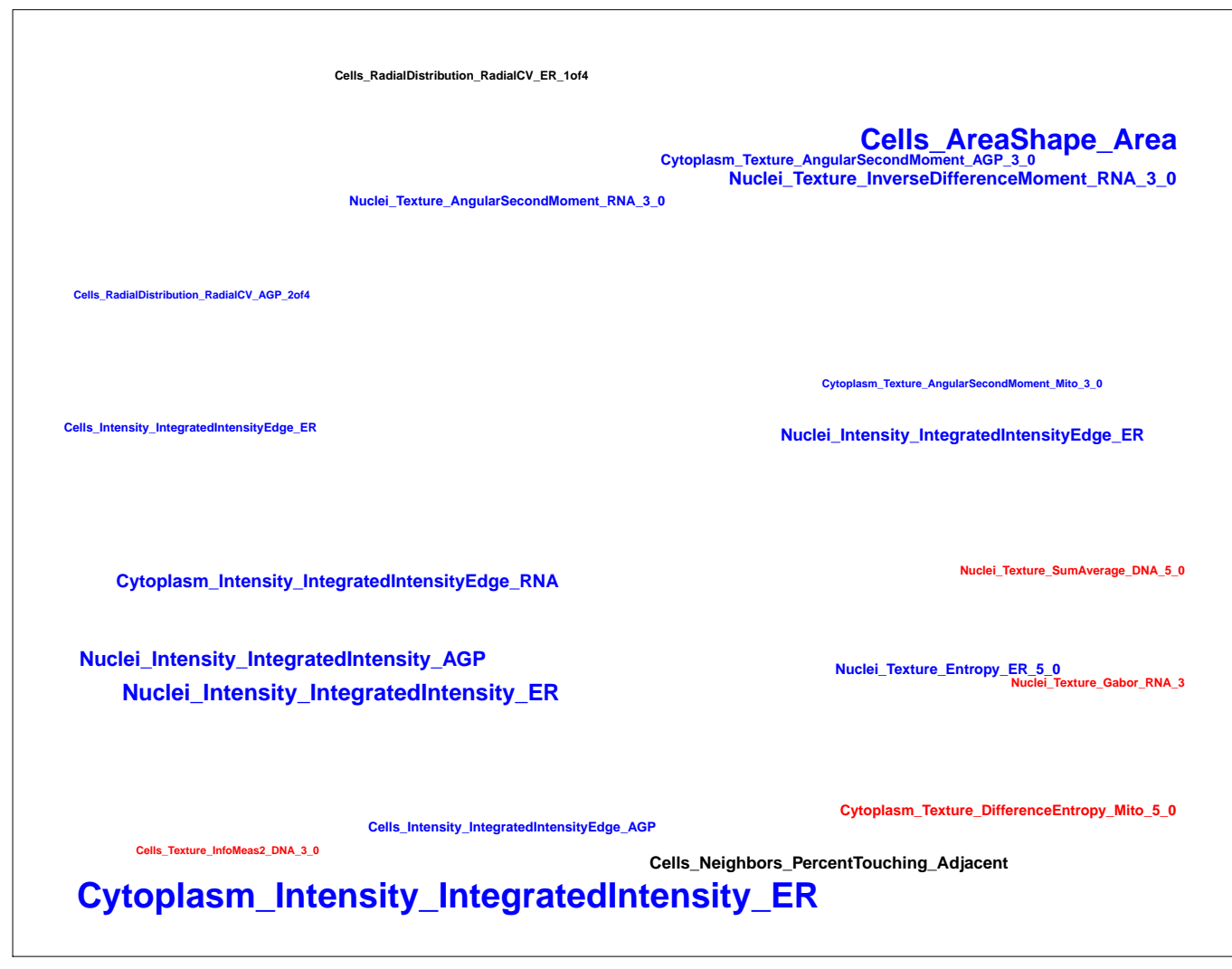
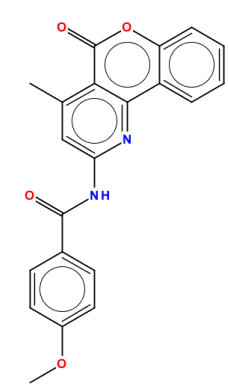
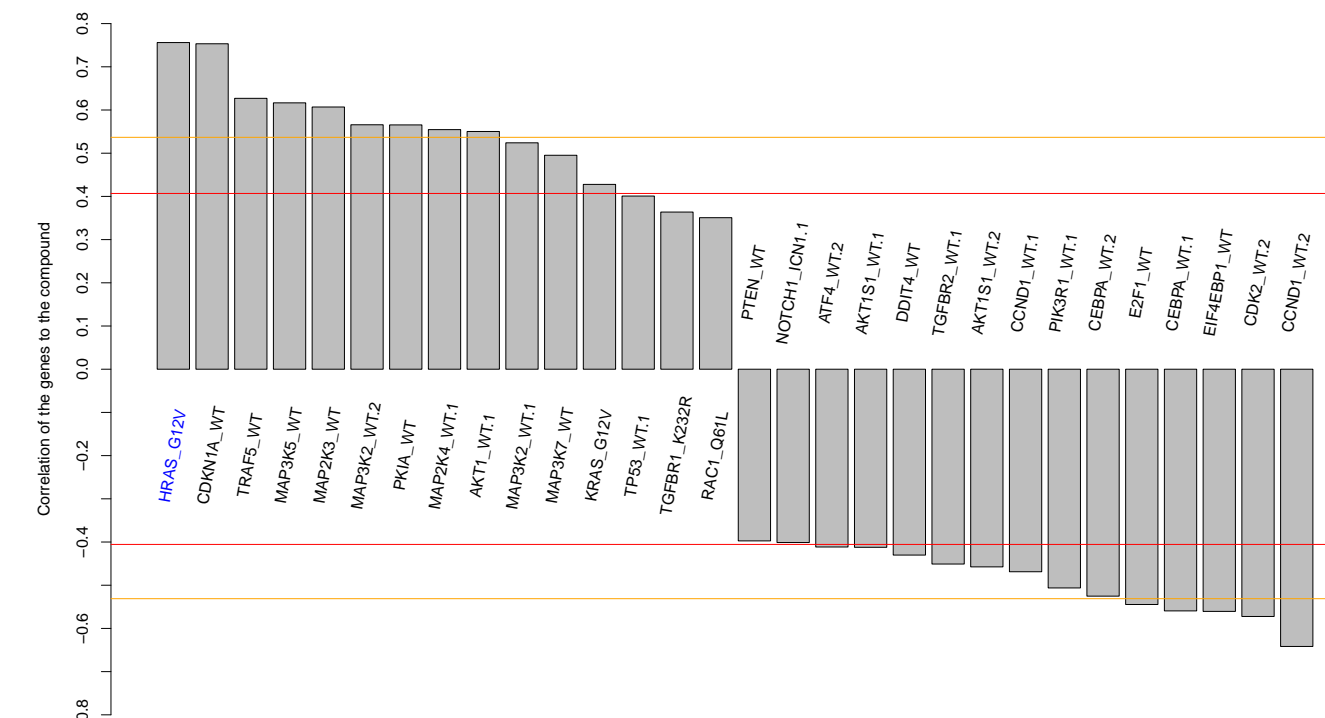
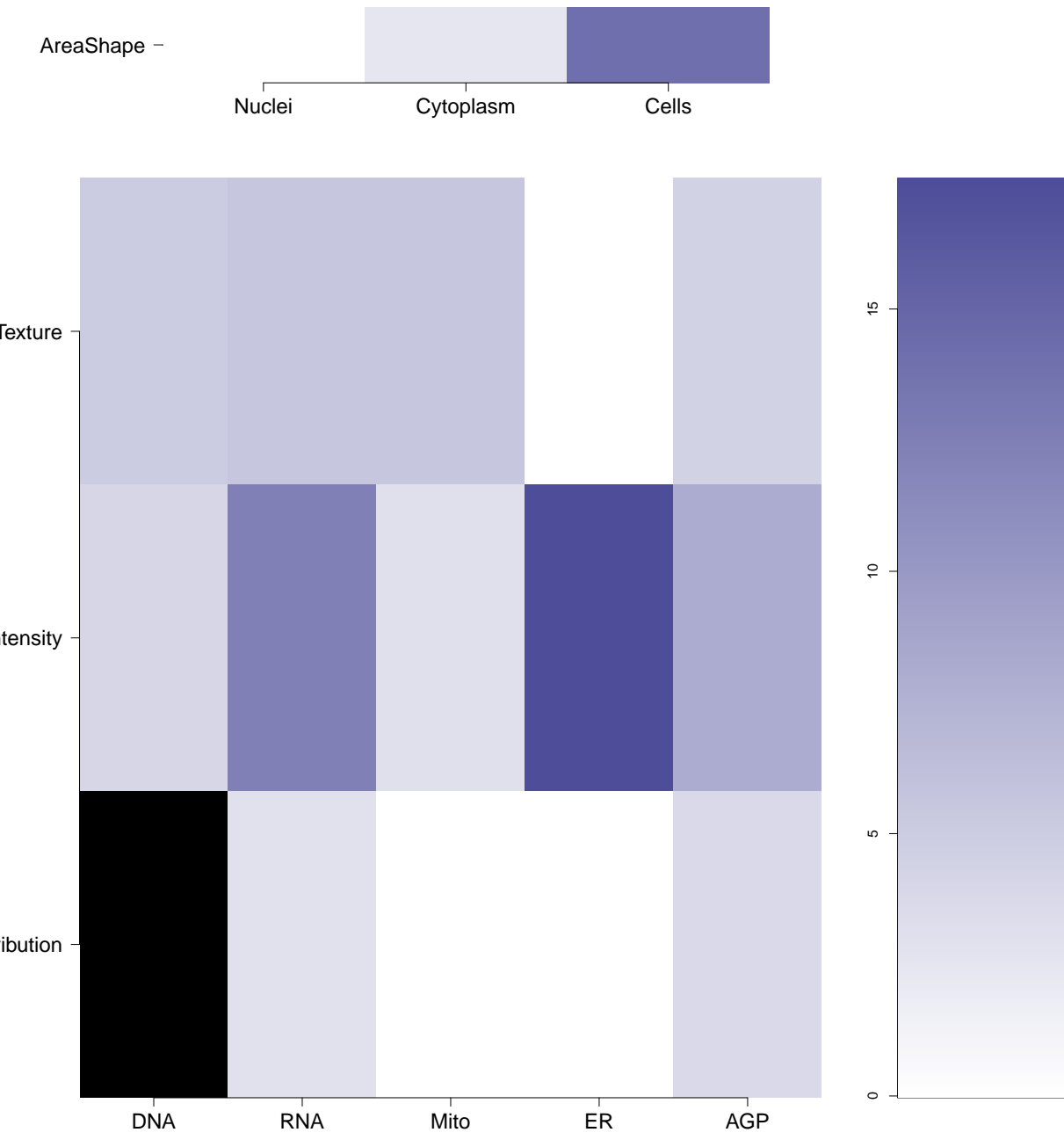

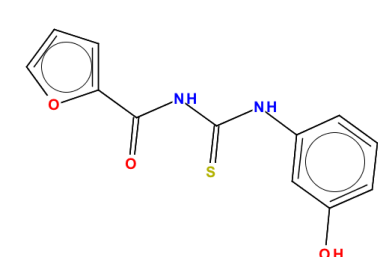
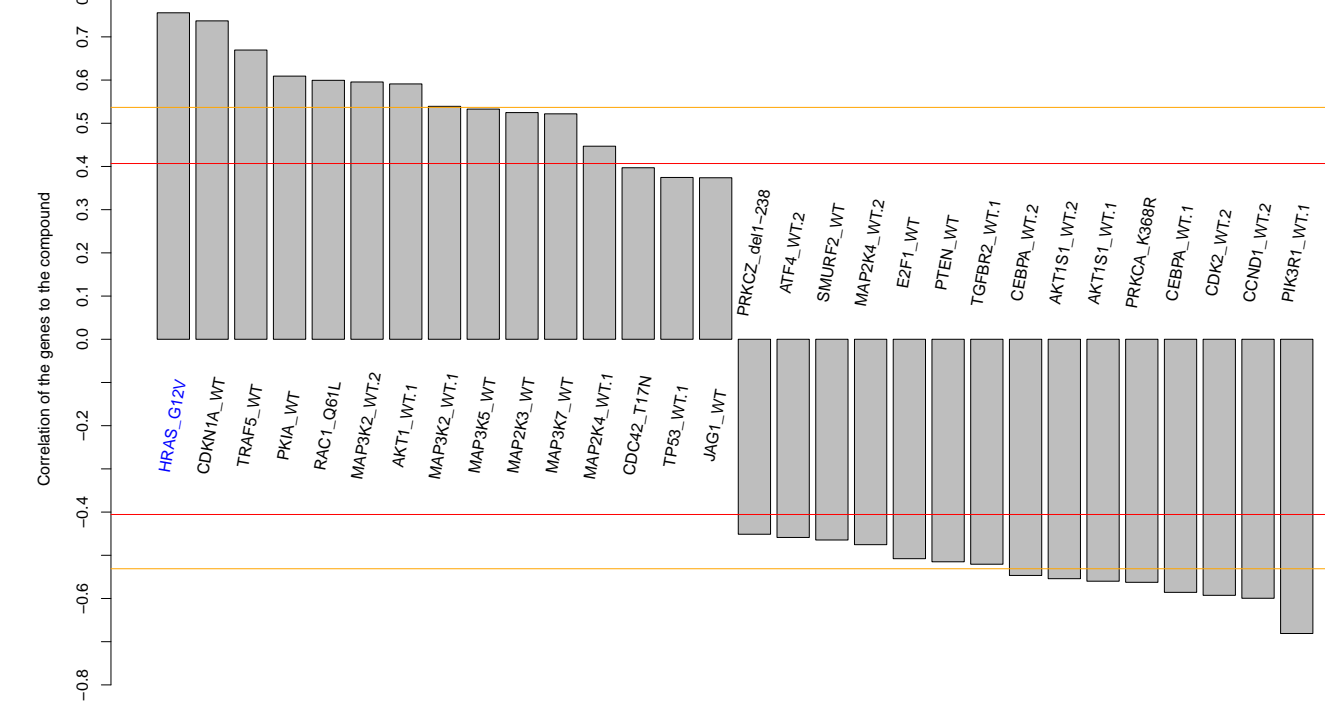
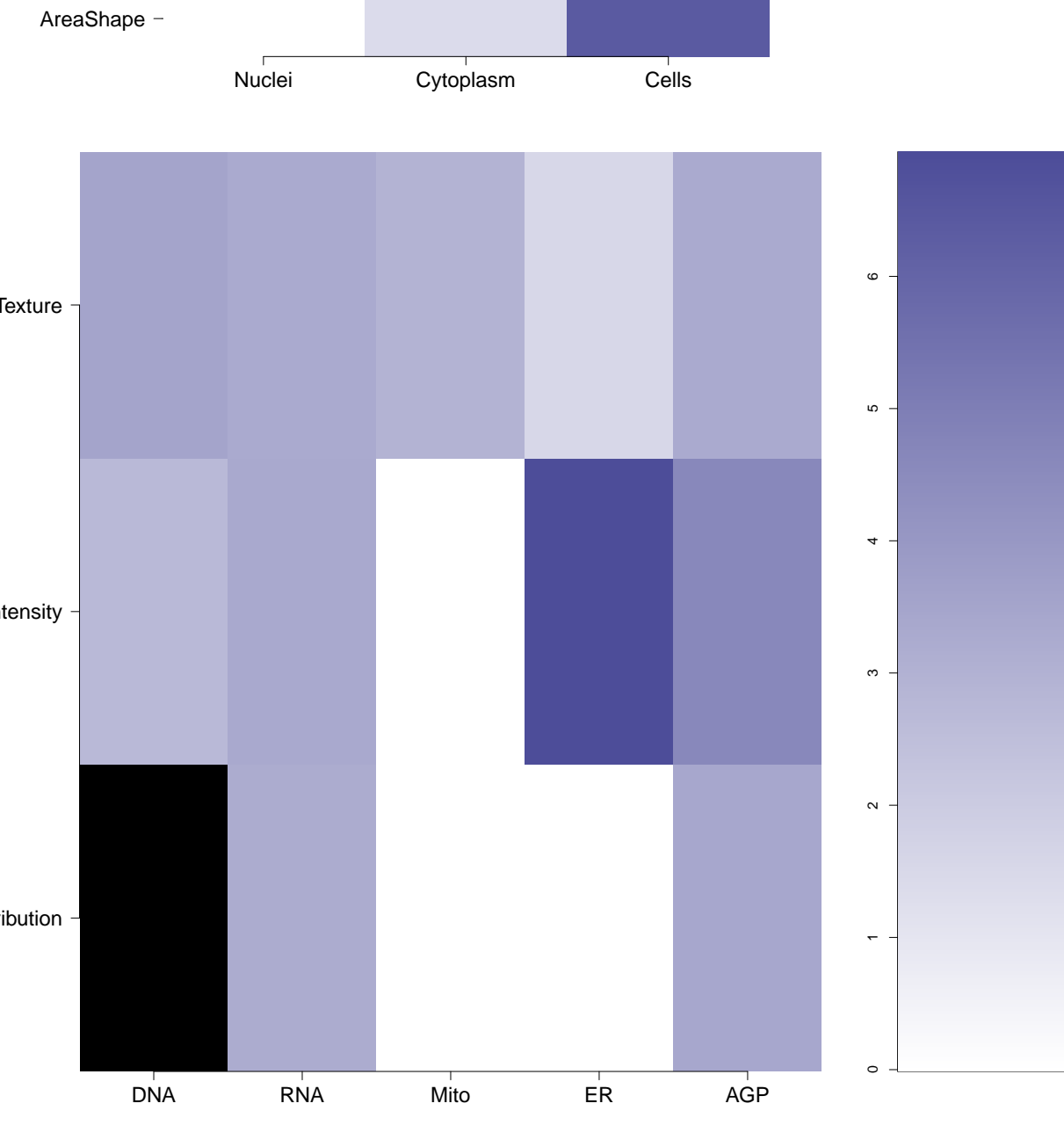
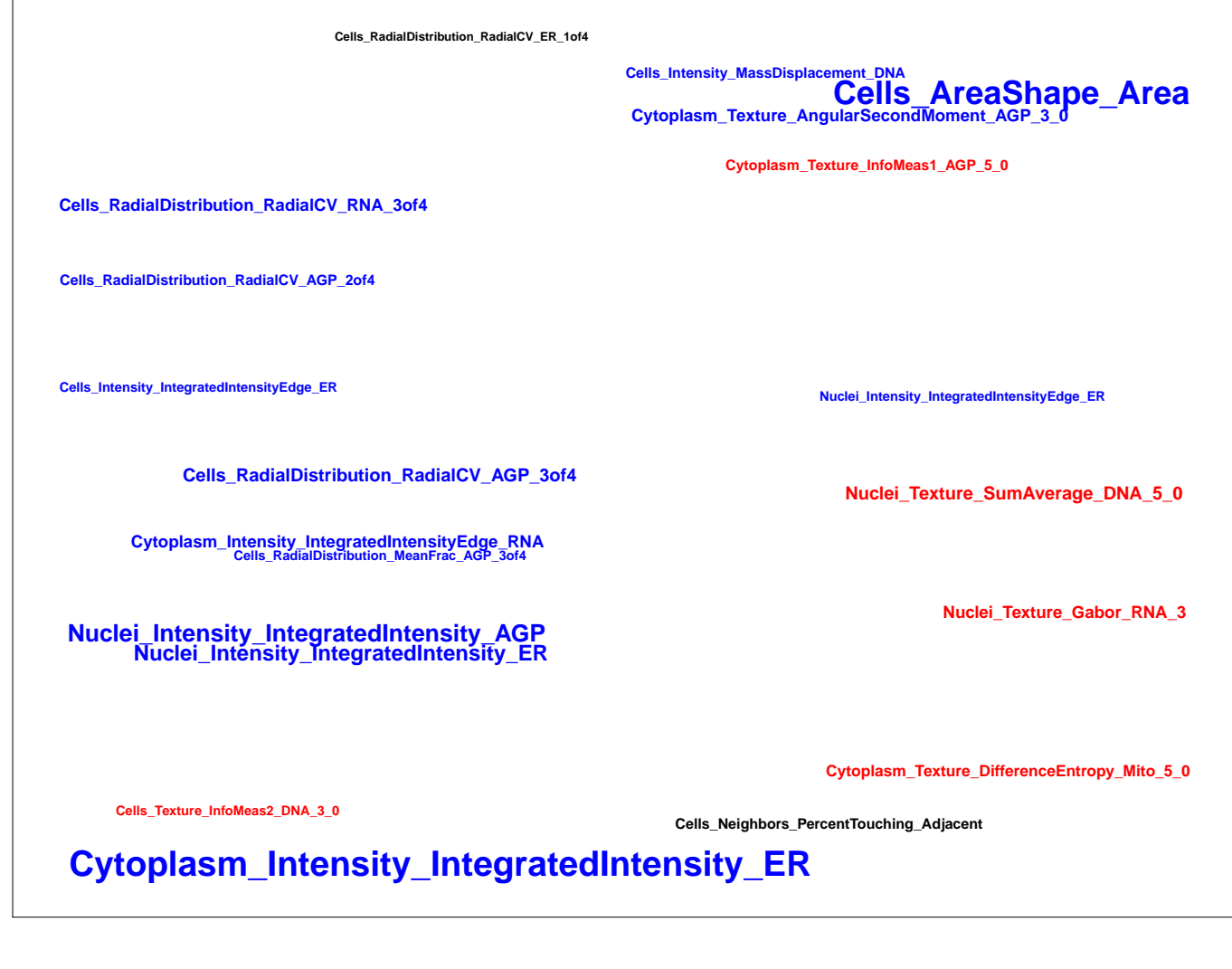
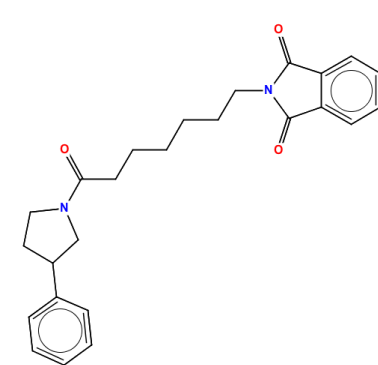
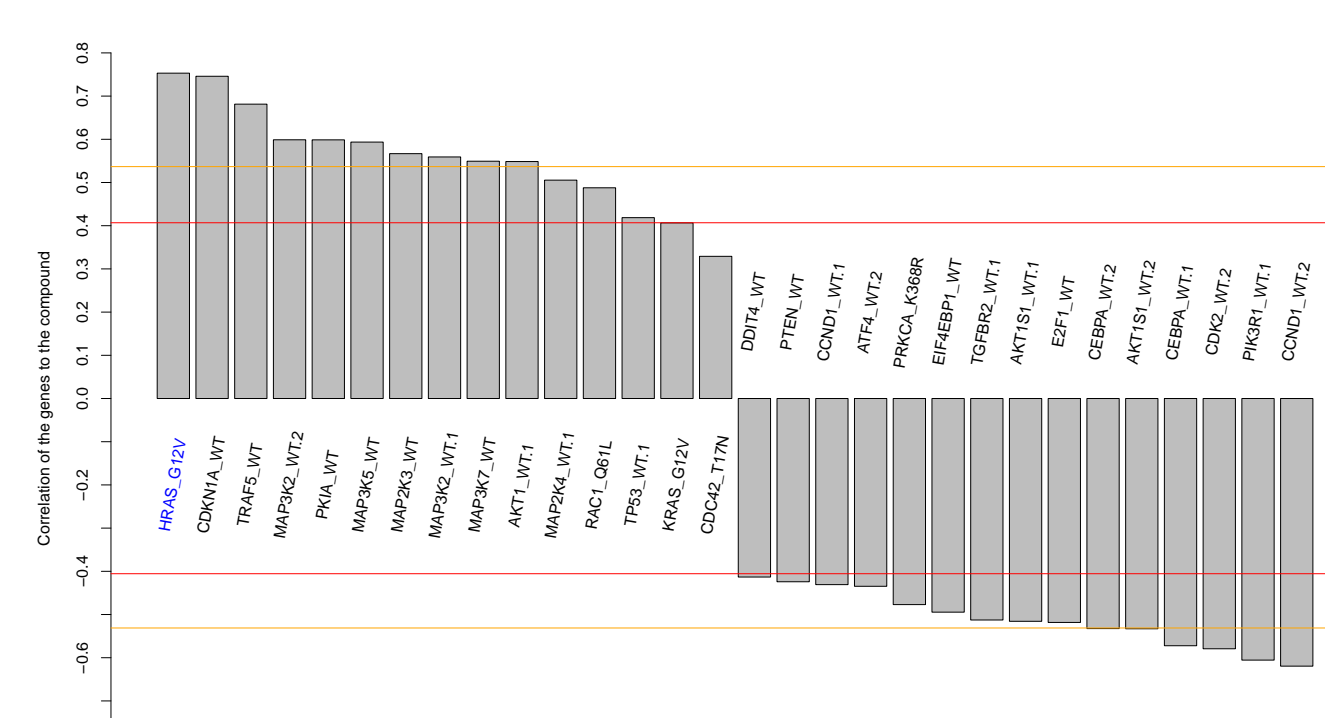
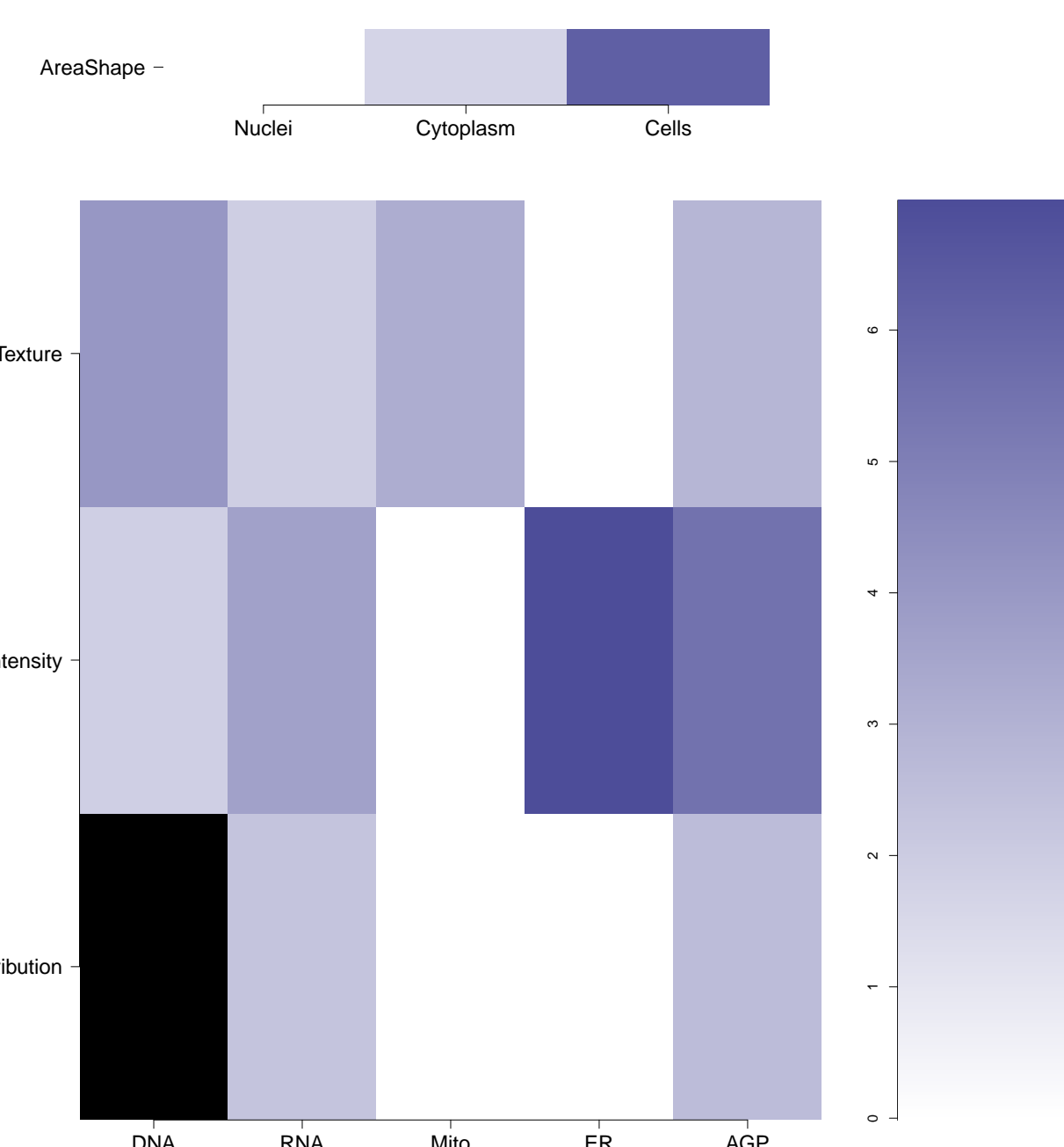
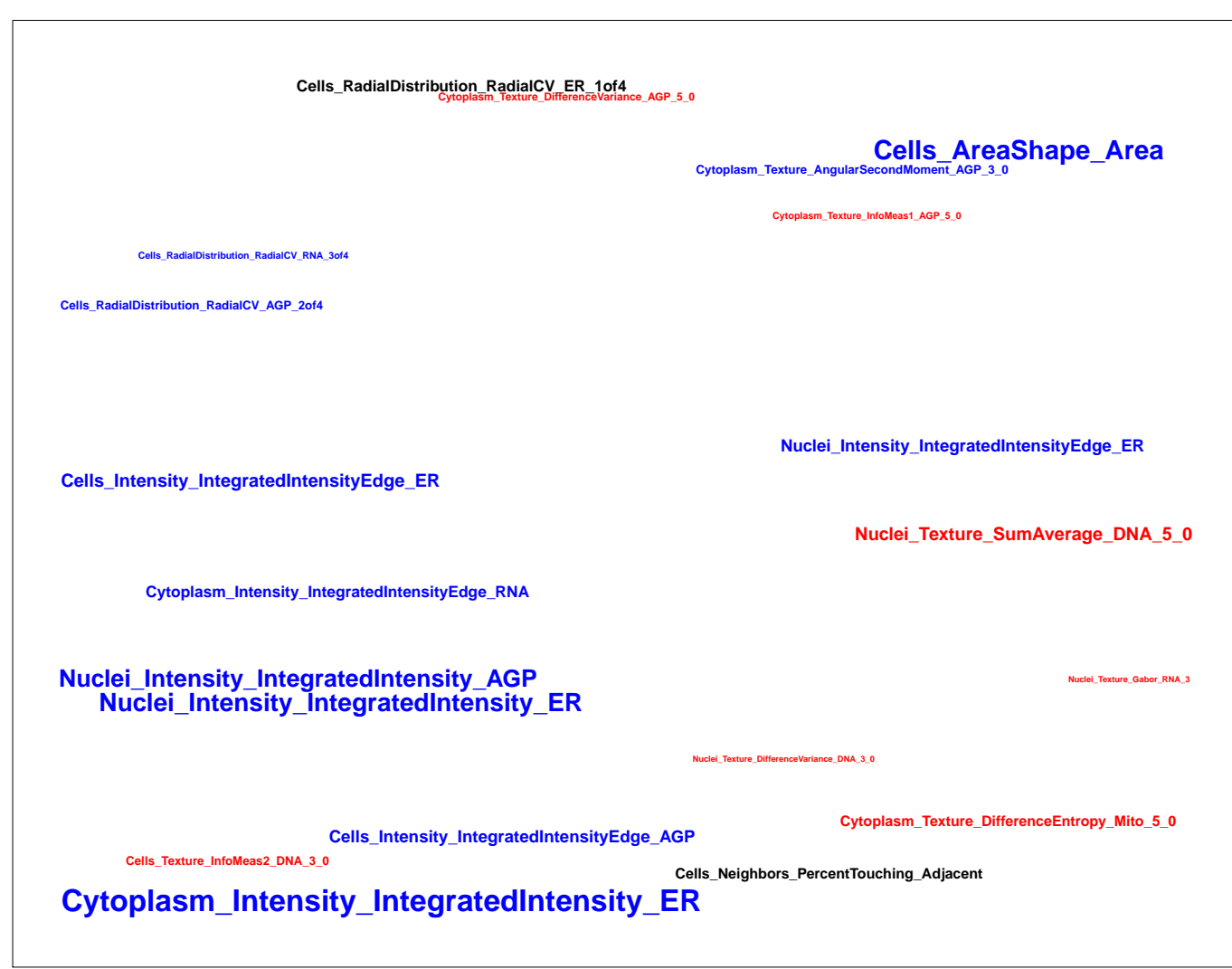
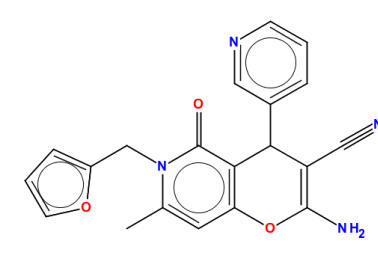
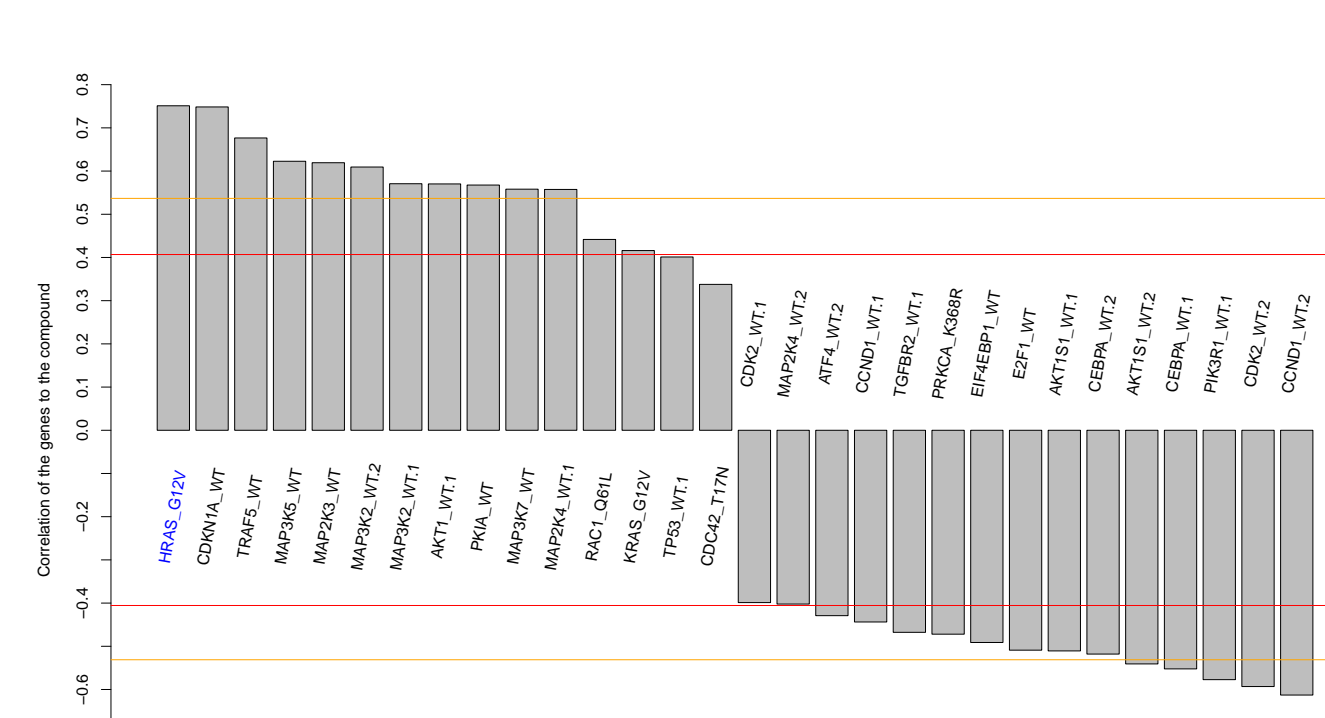
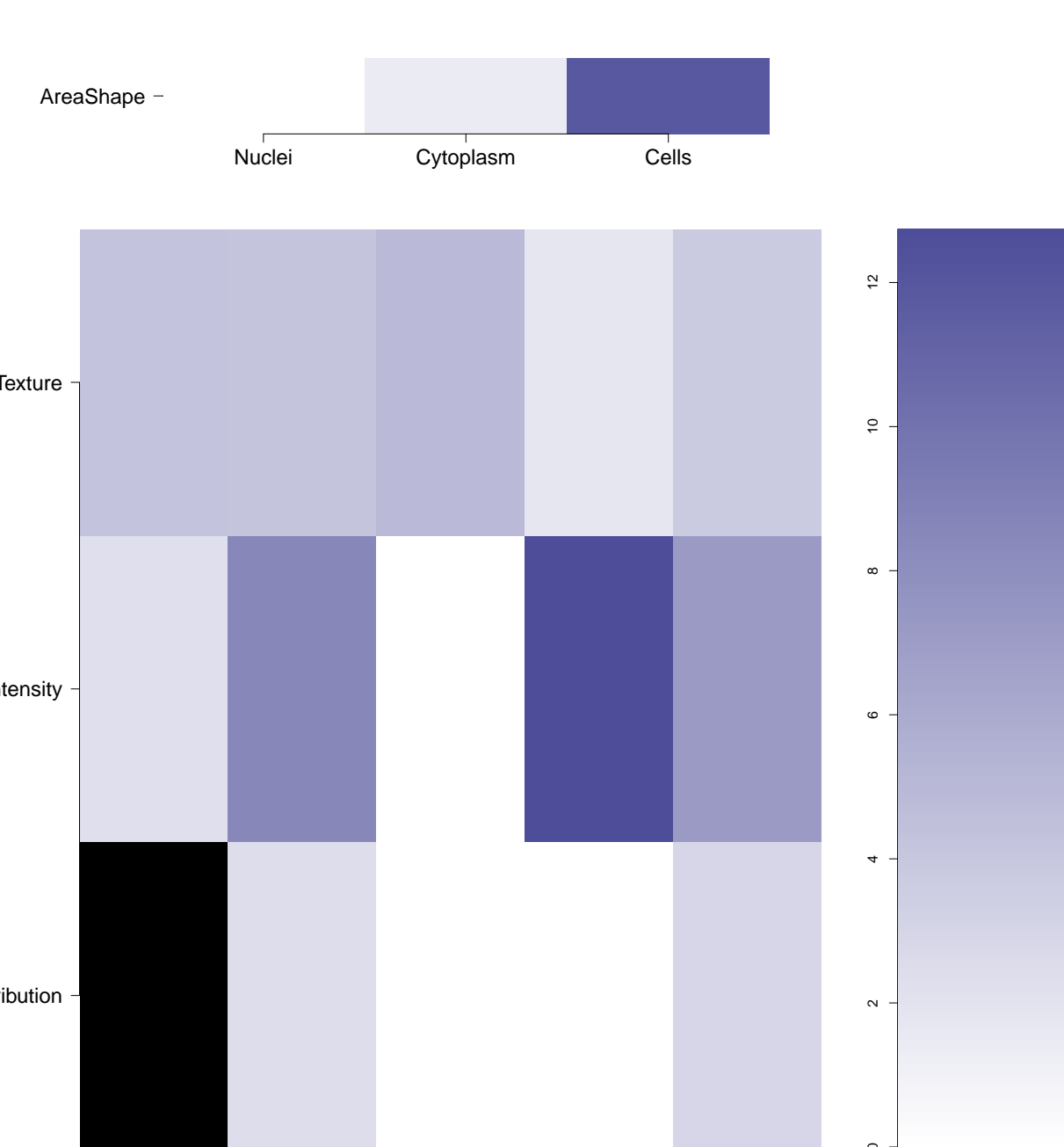
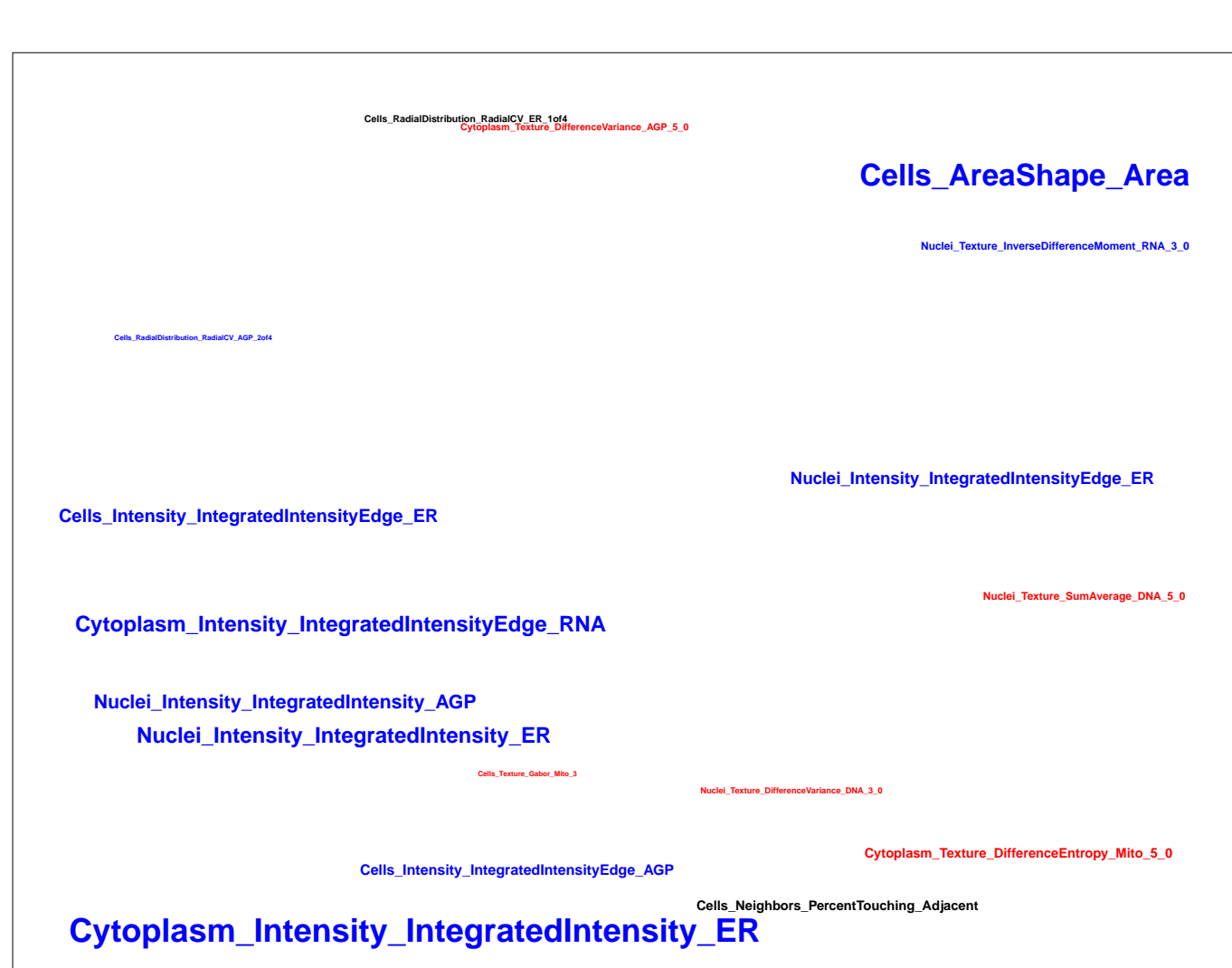
RNA

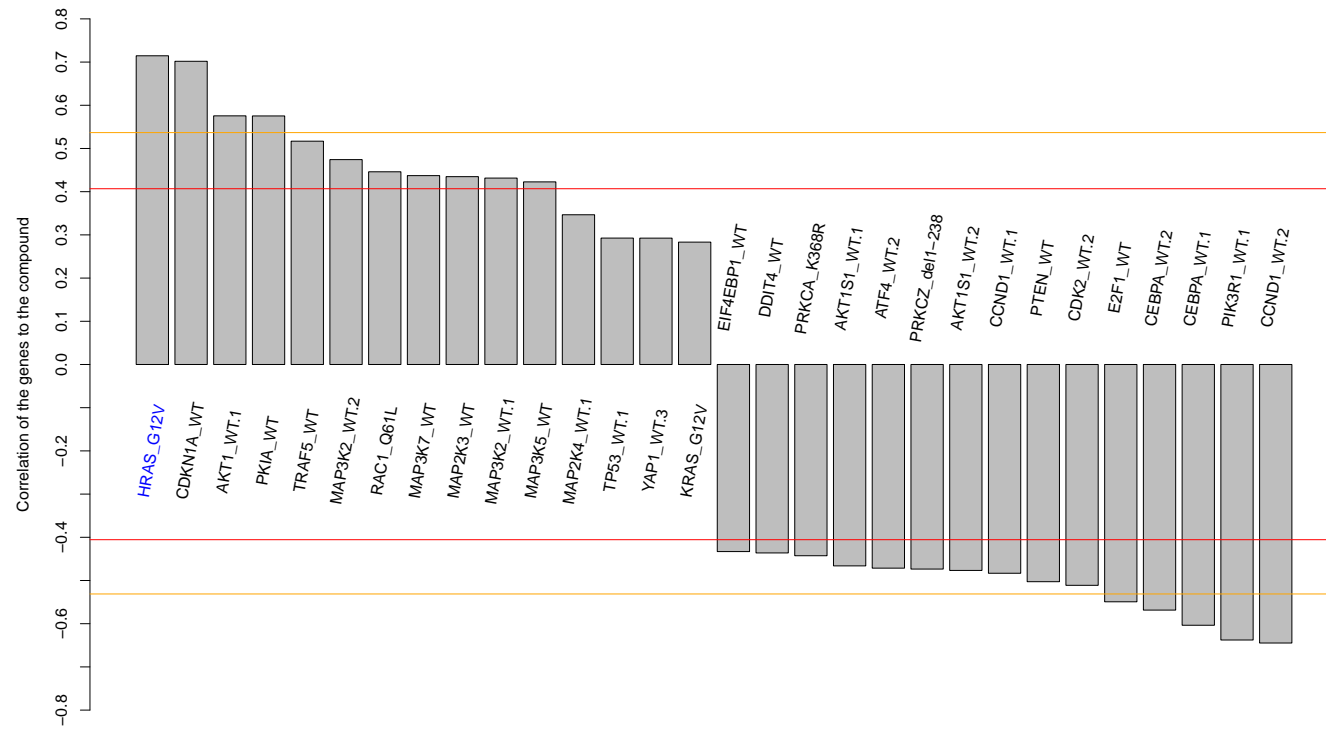
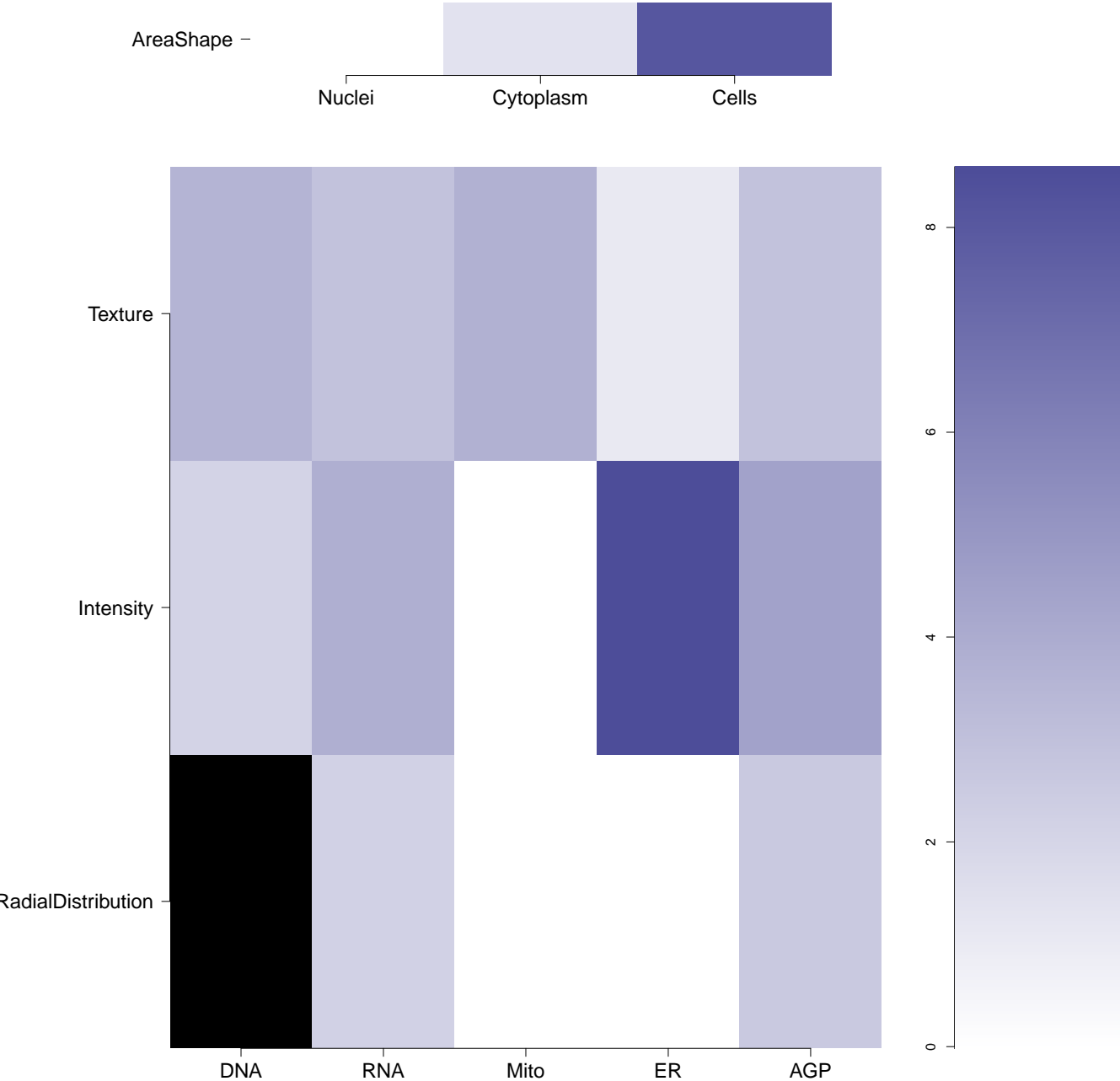
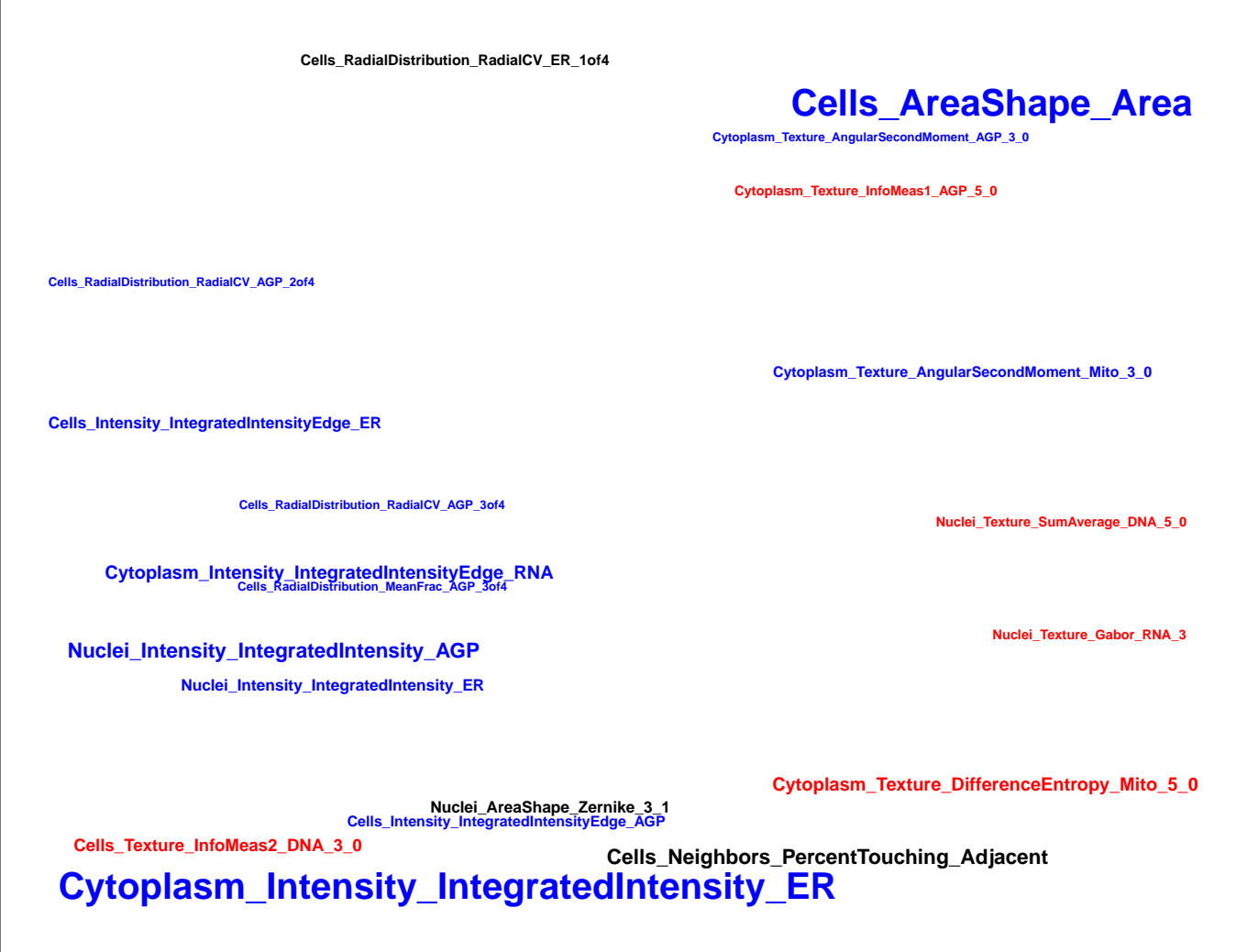
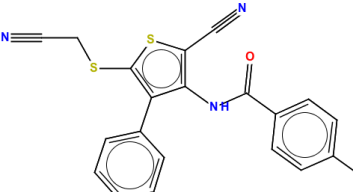
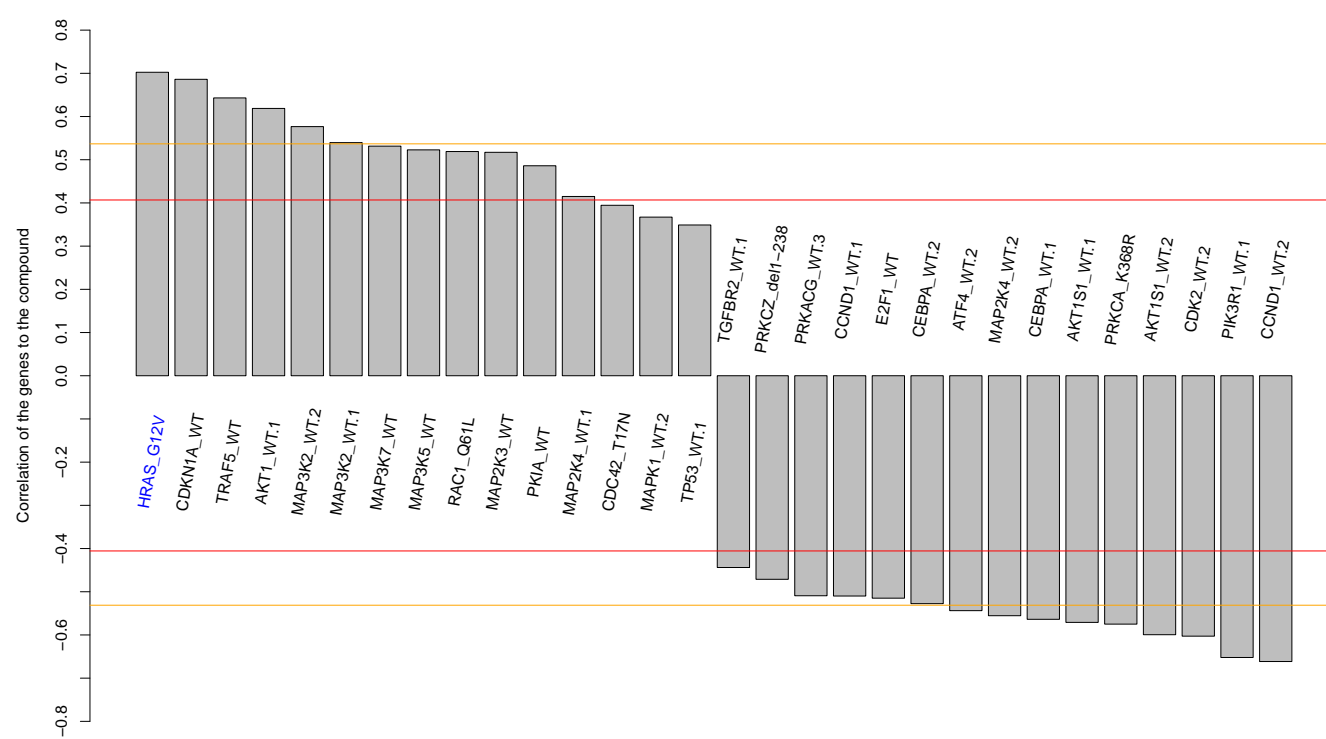
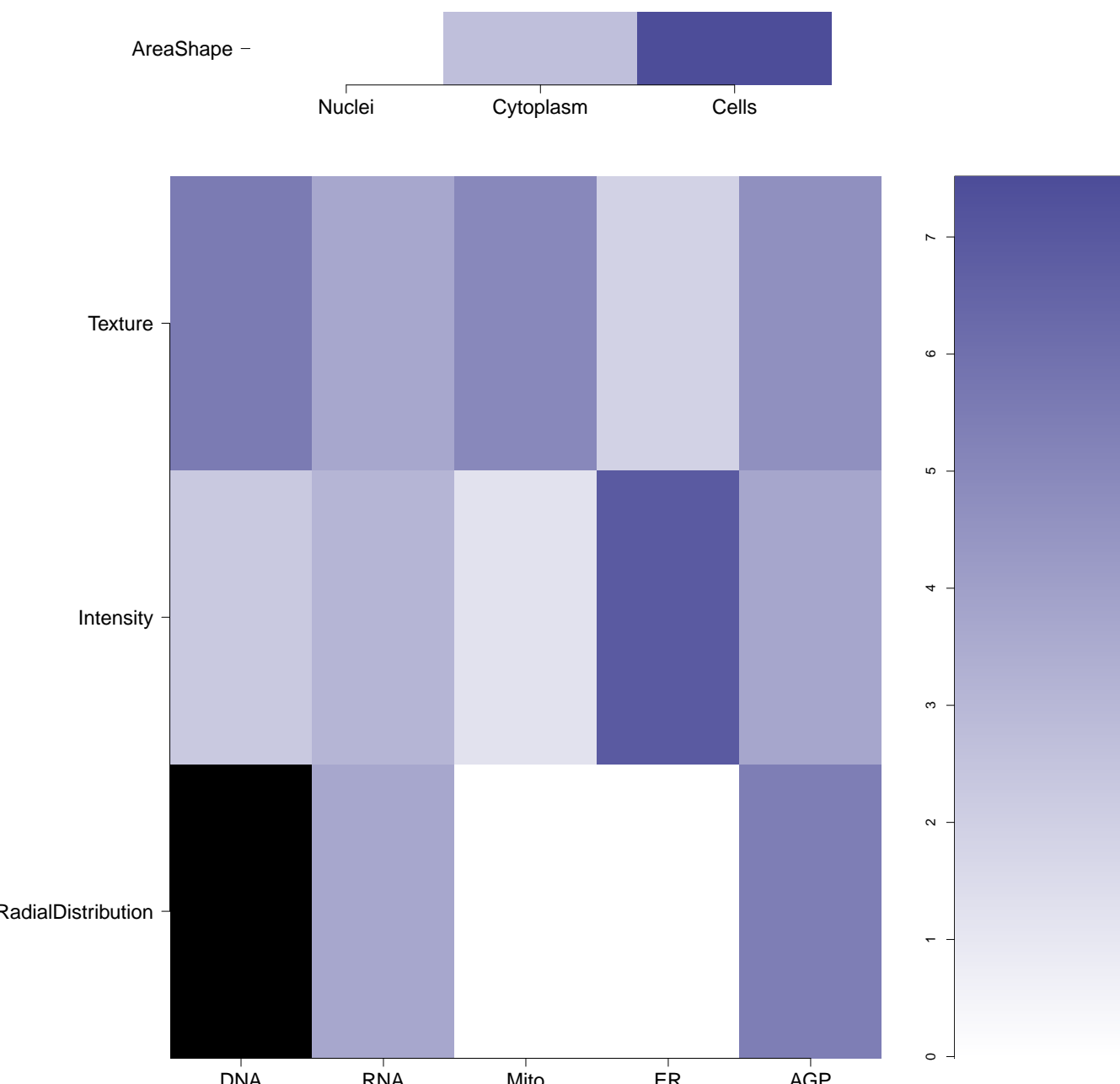
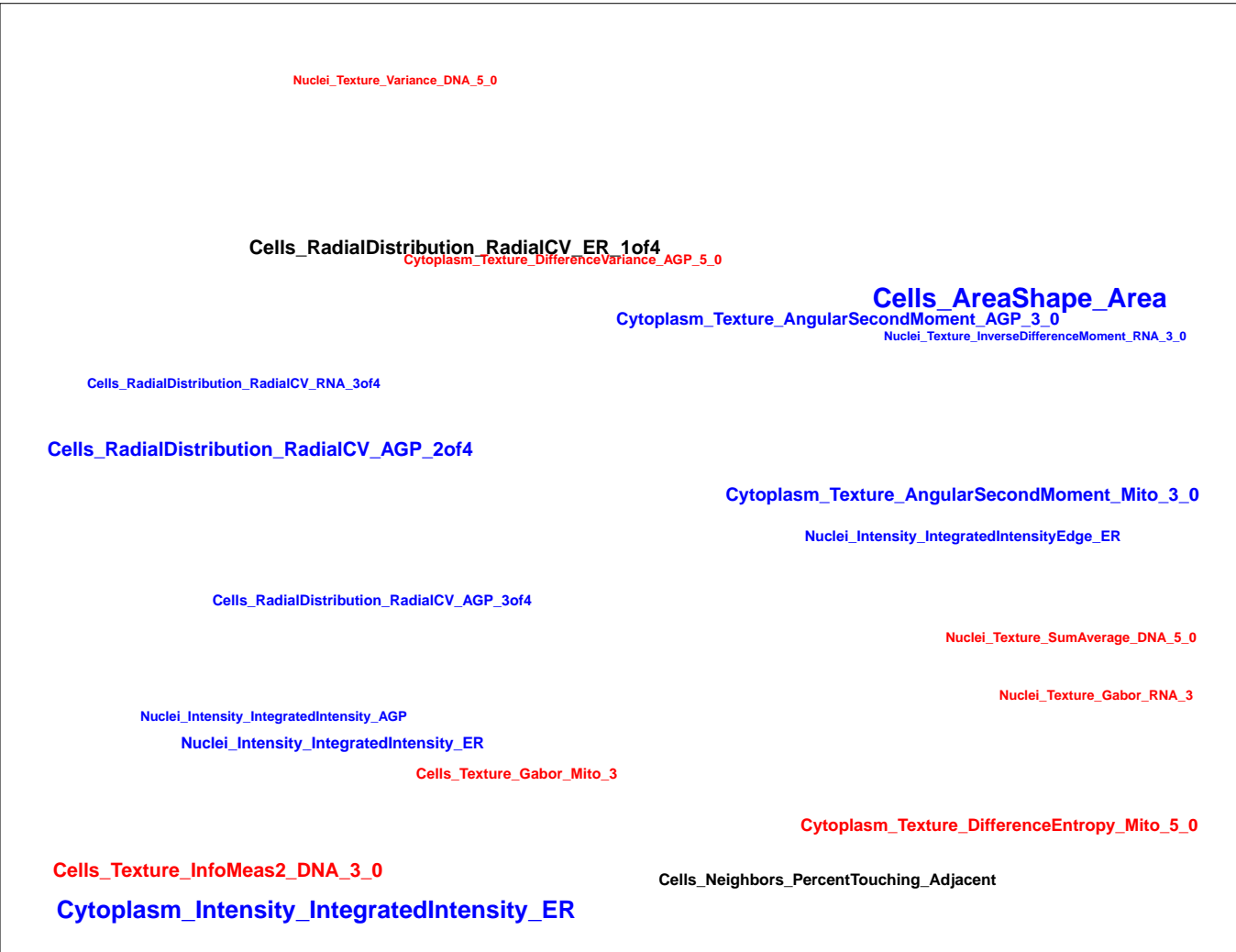
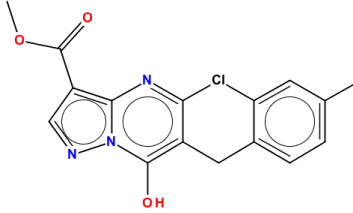
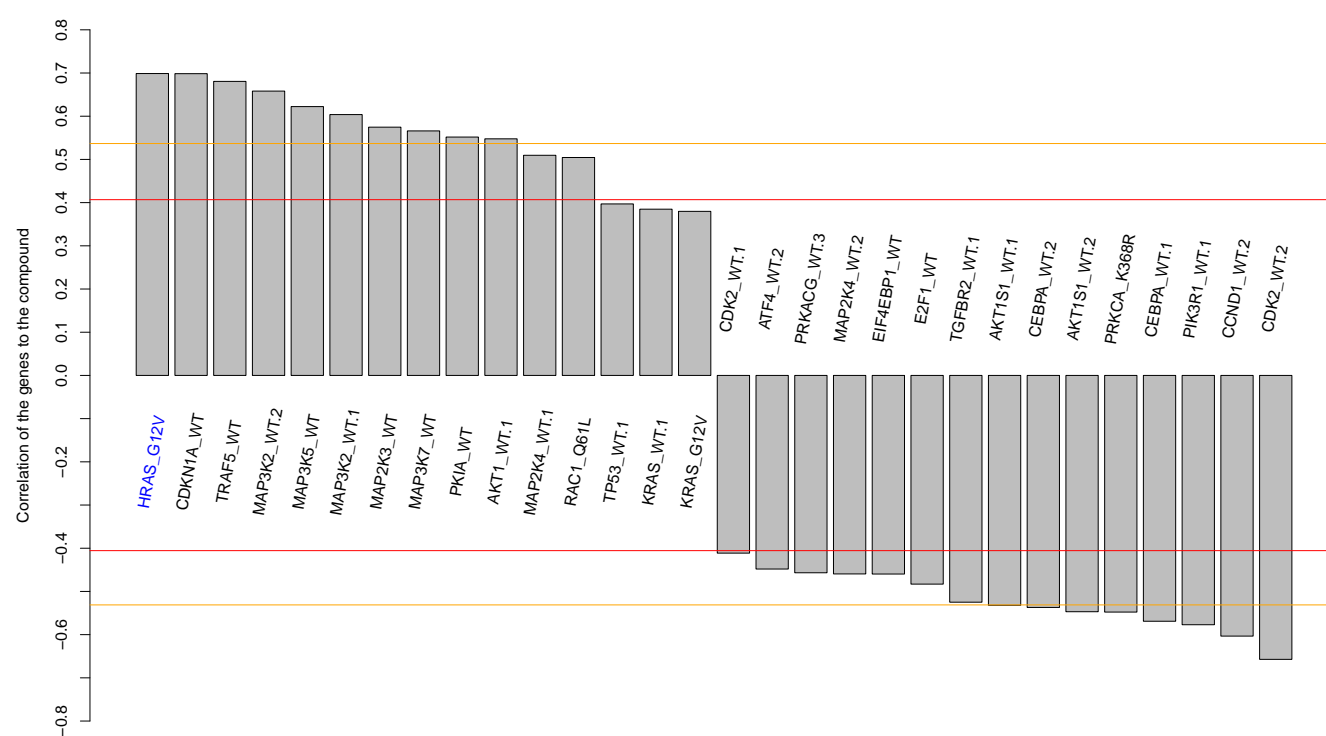
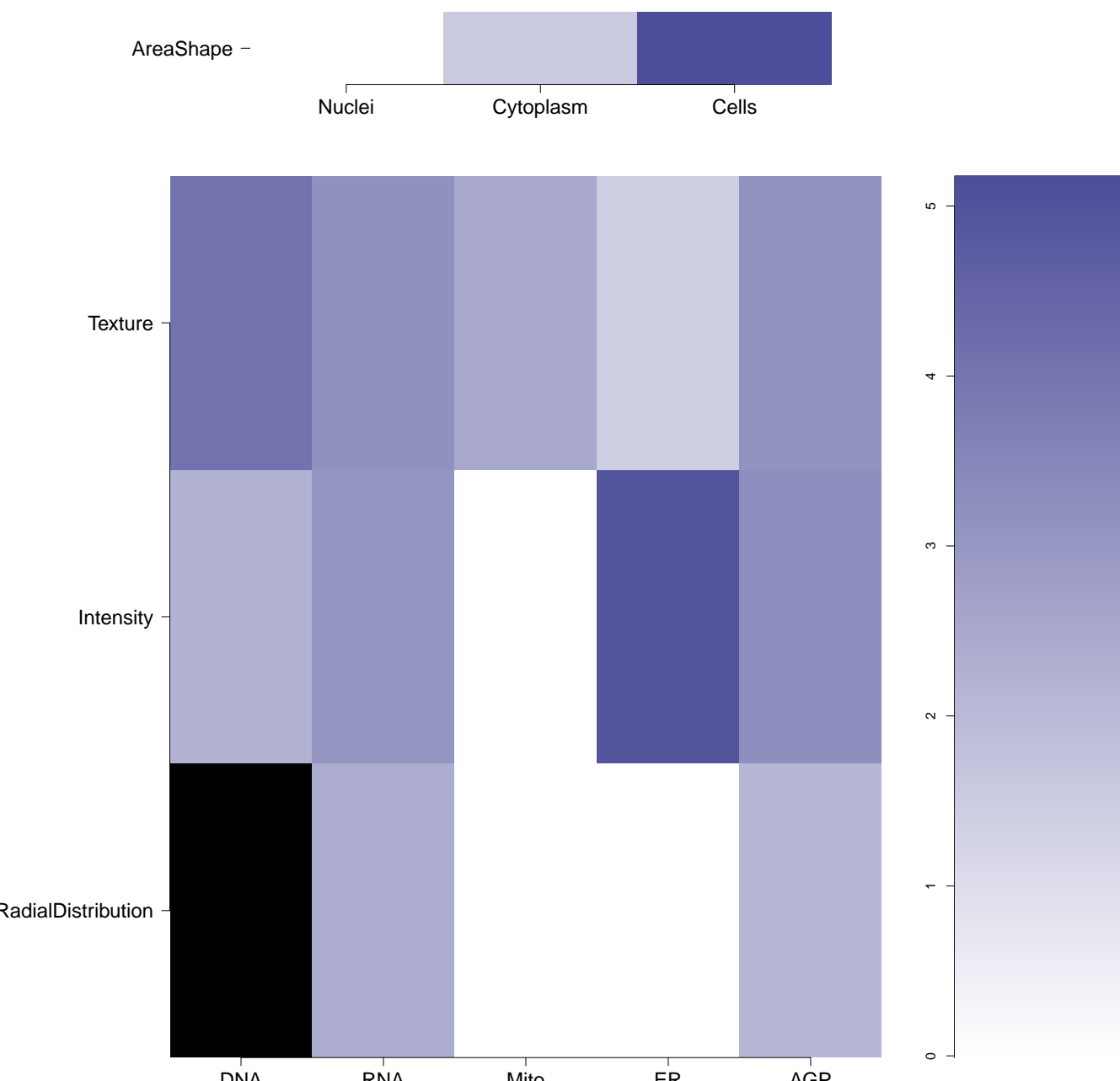

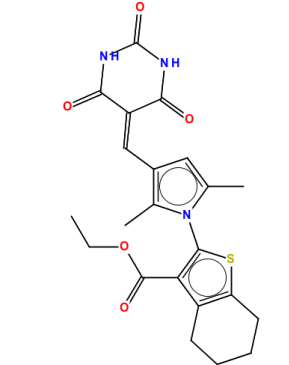
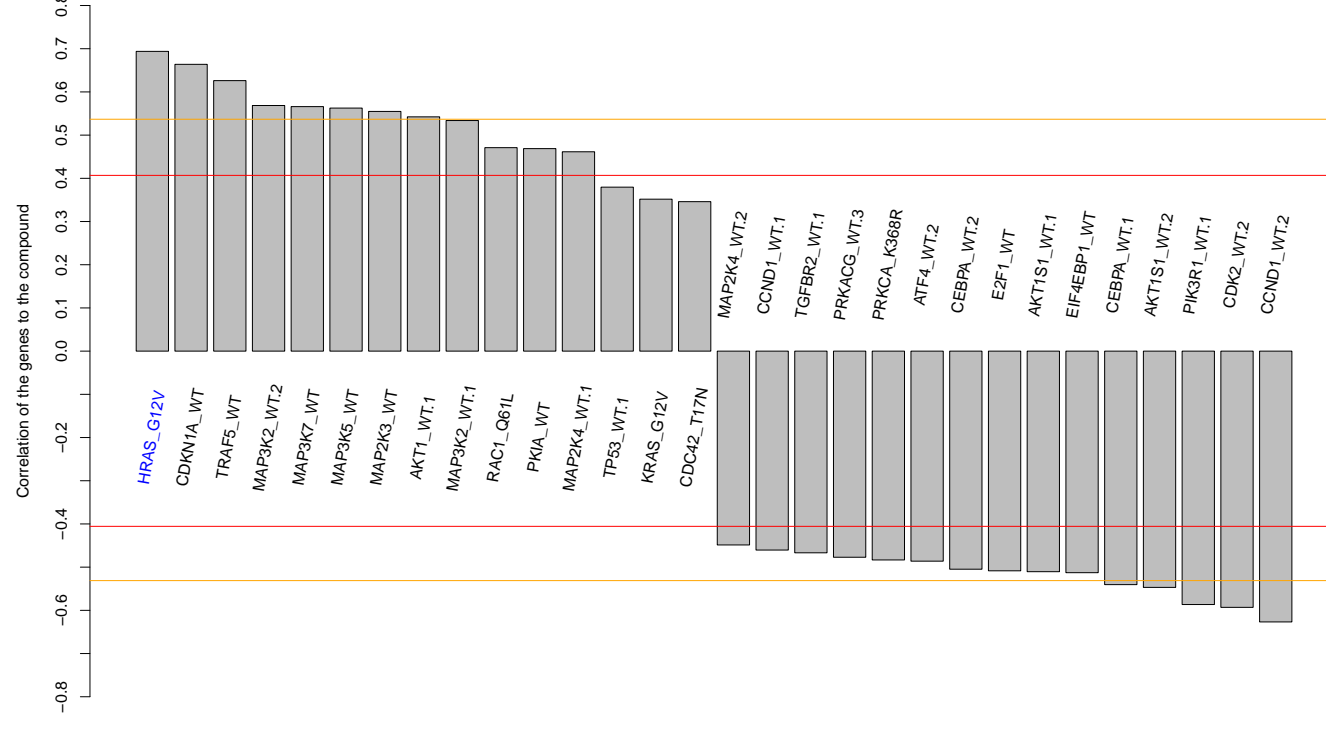
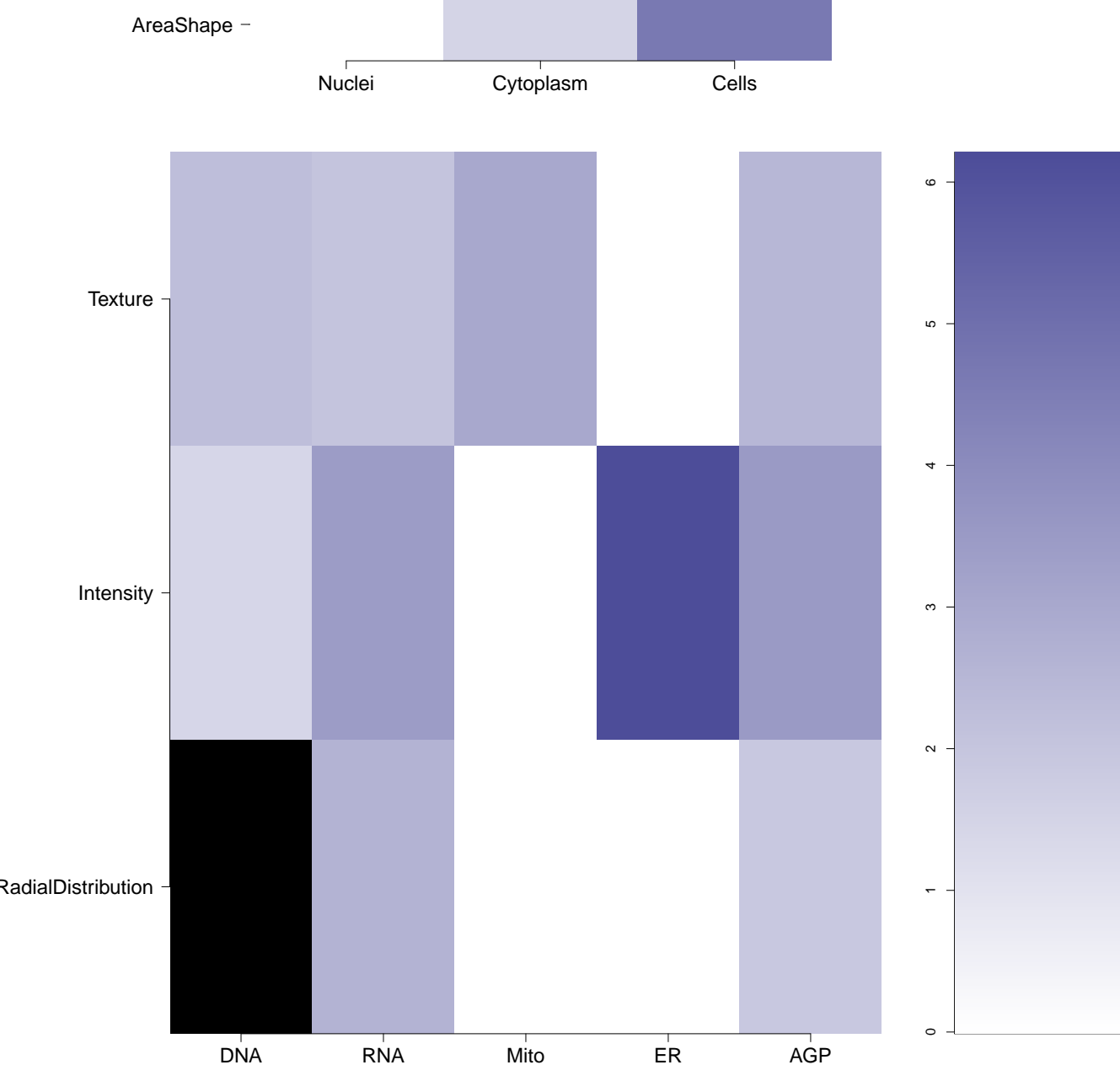
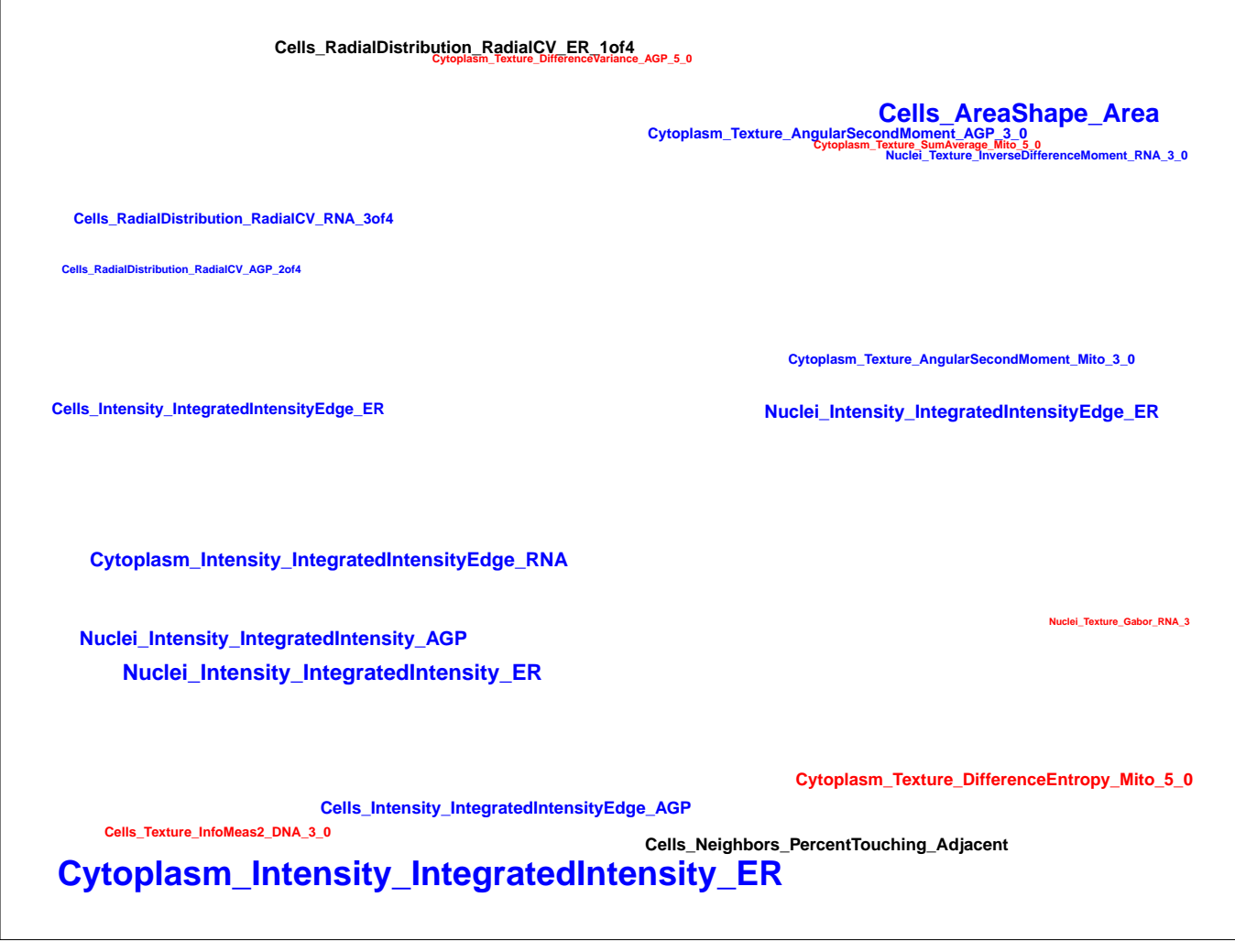


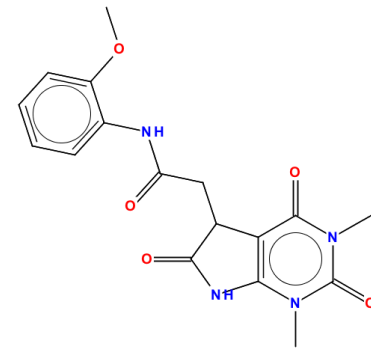
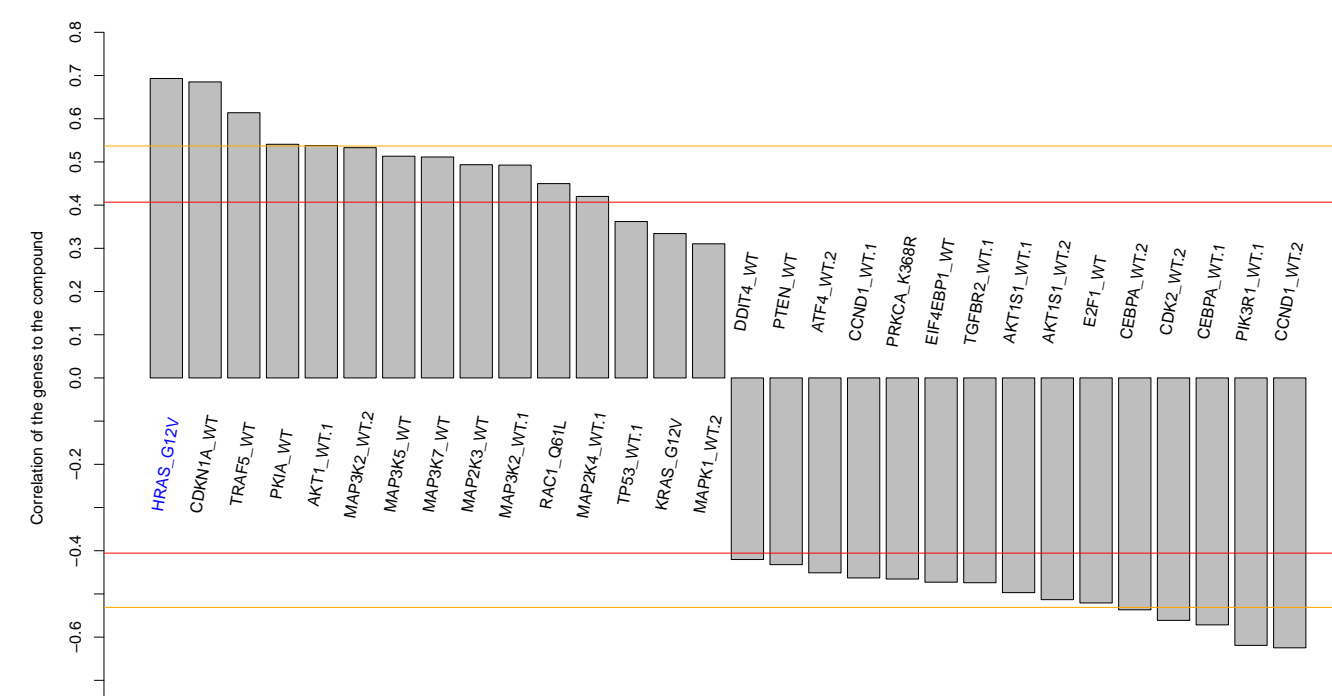
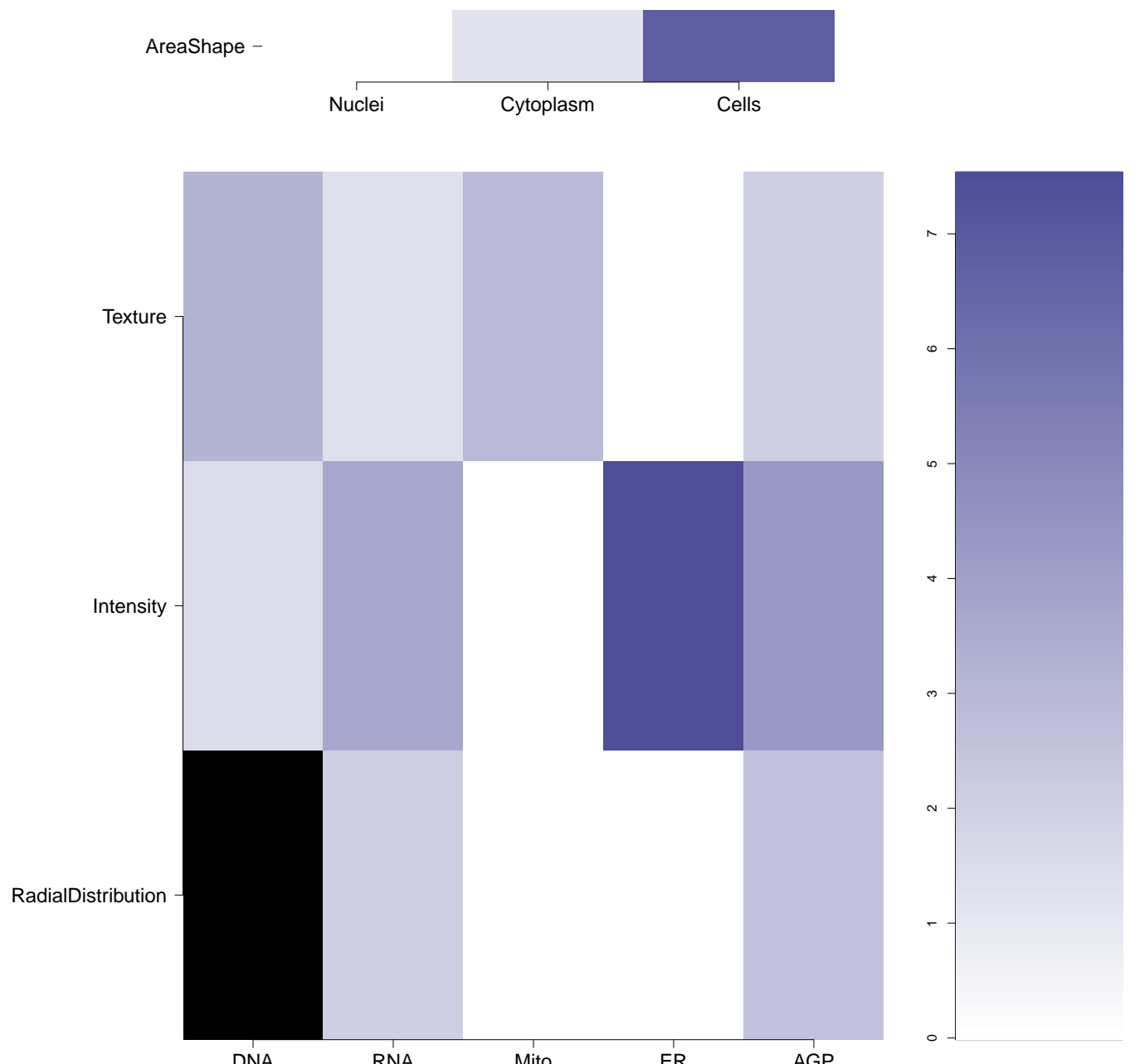
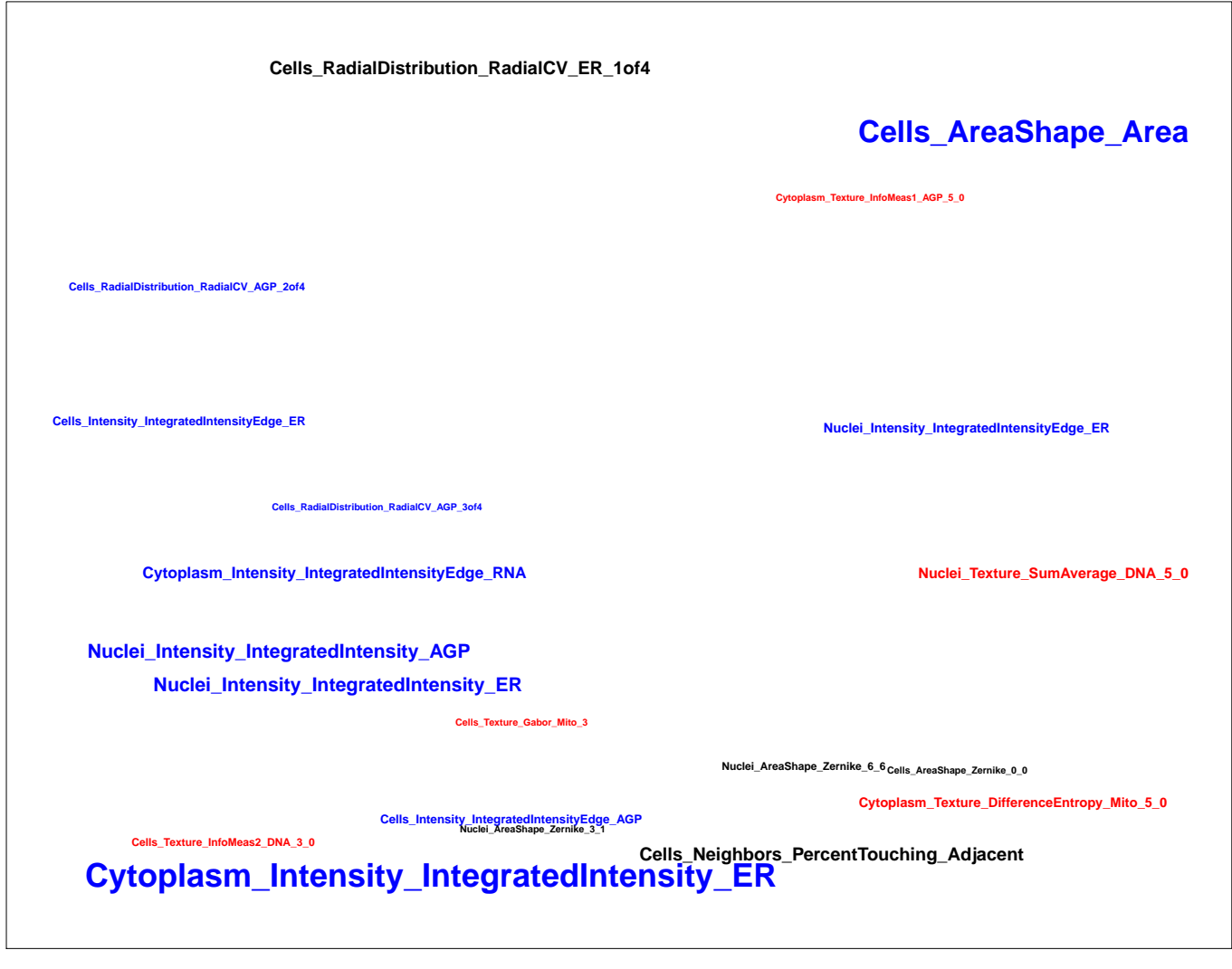
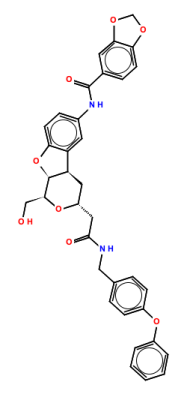
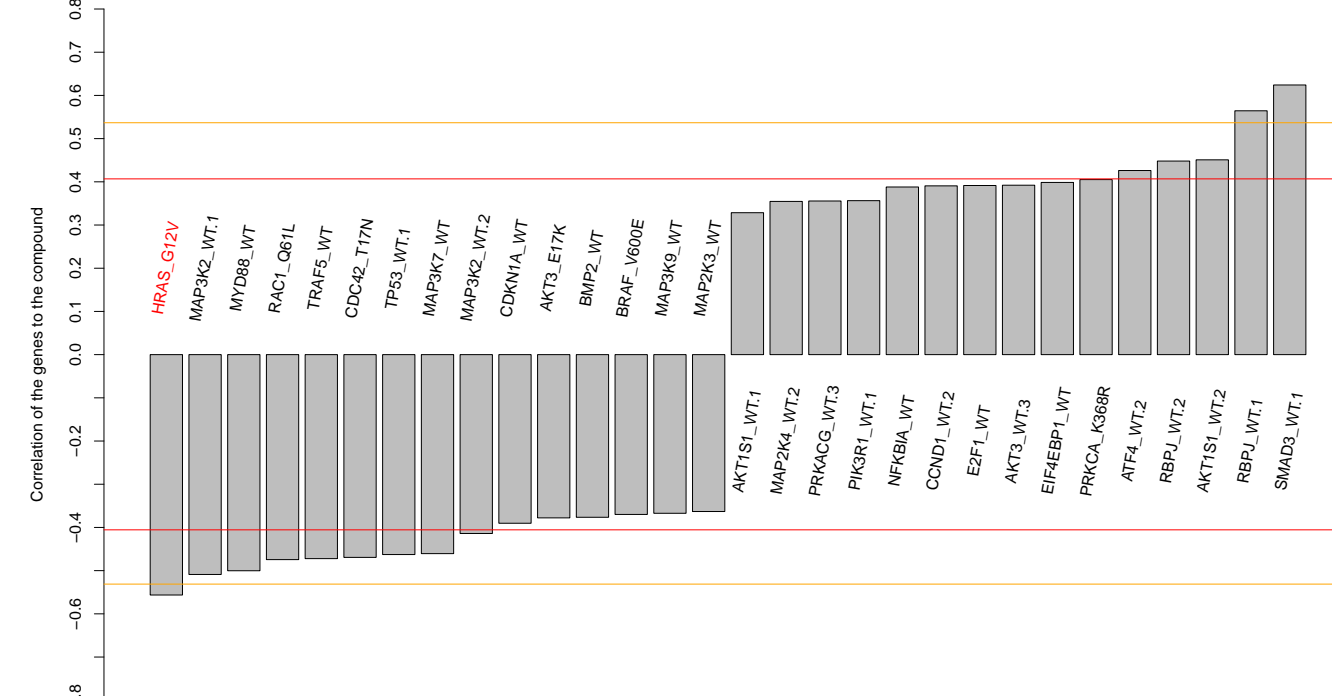
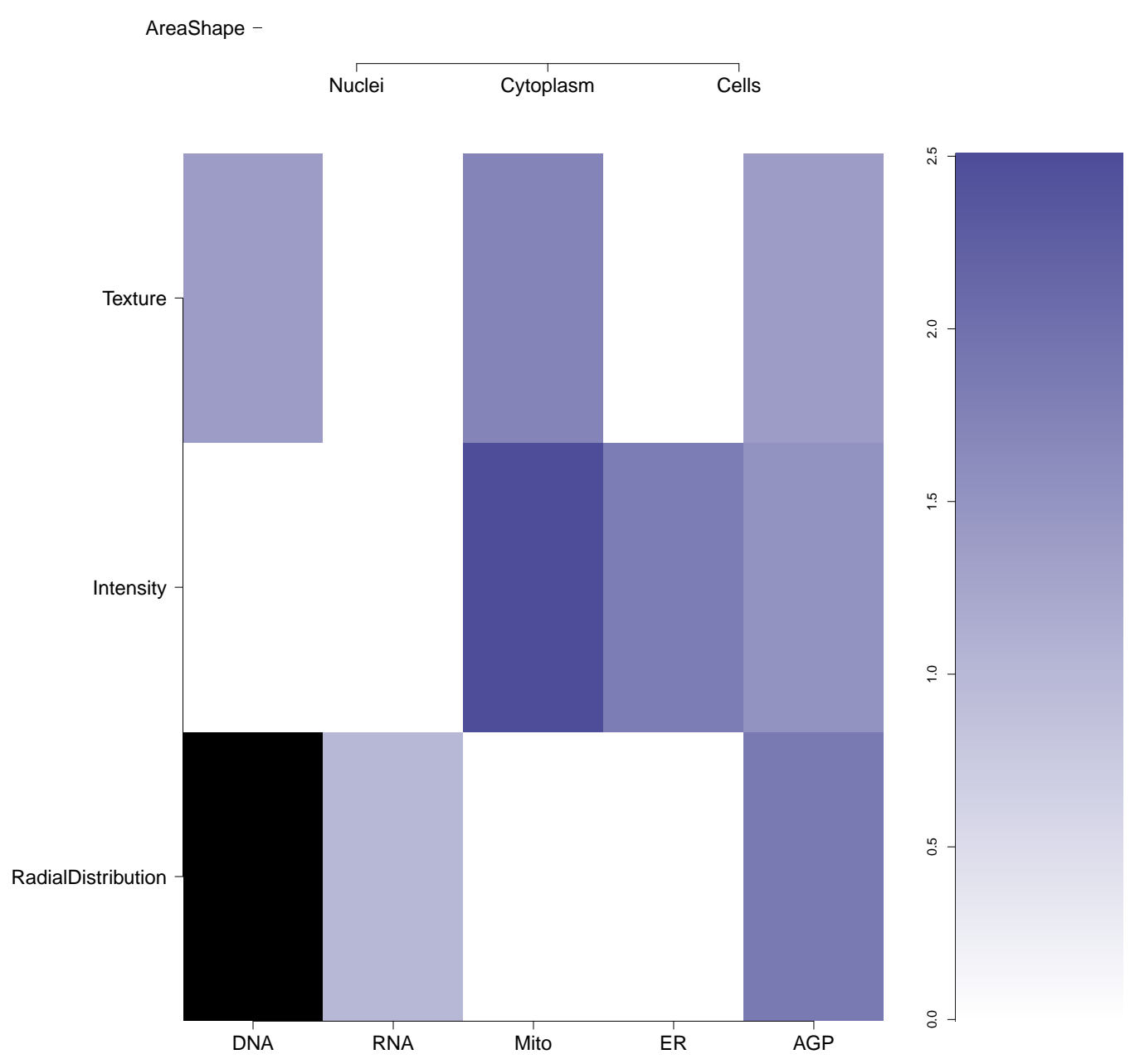
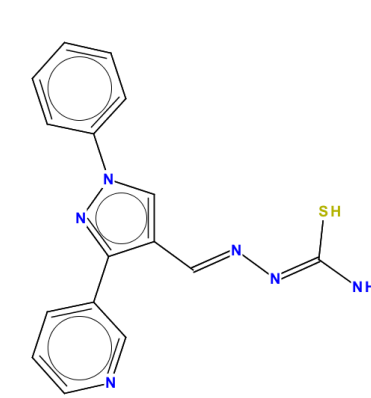

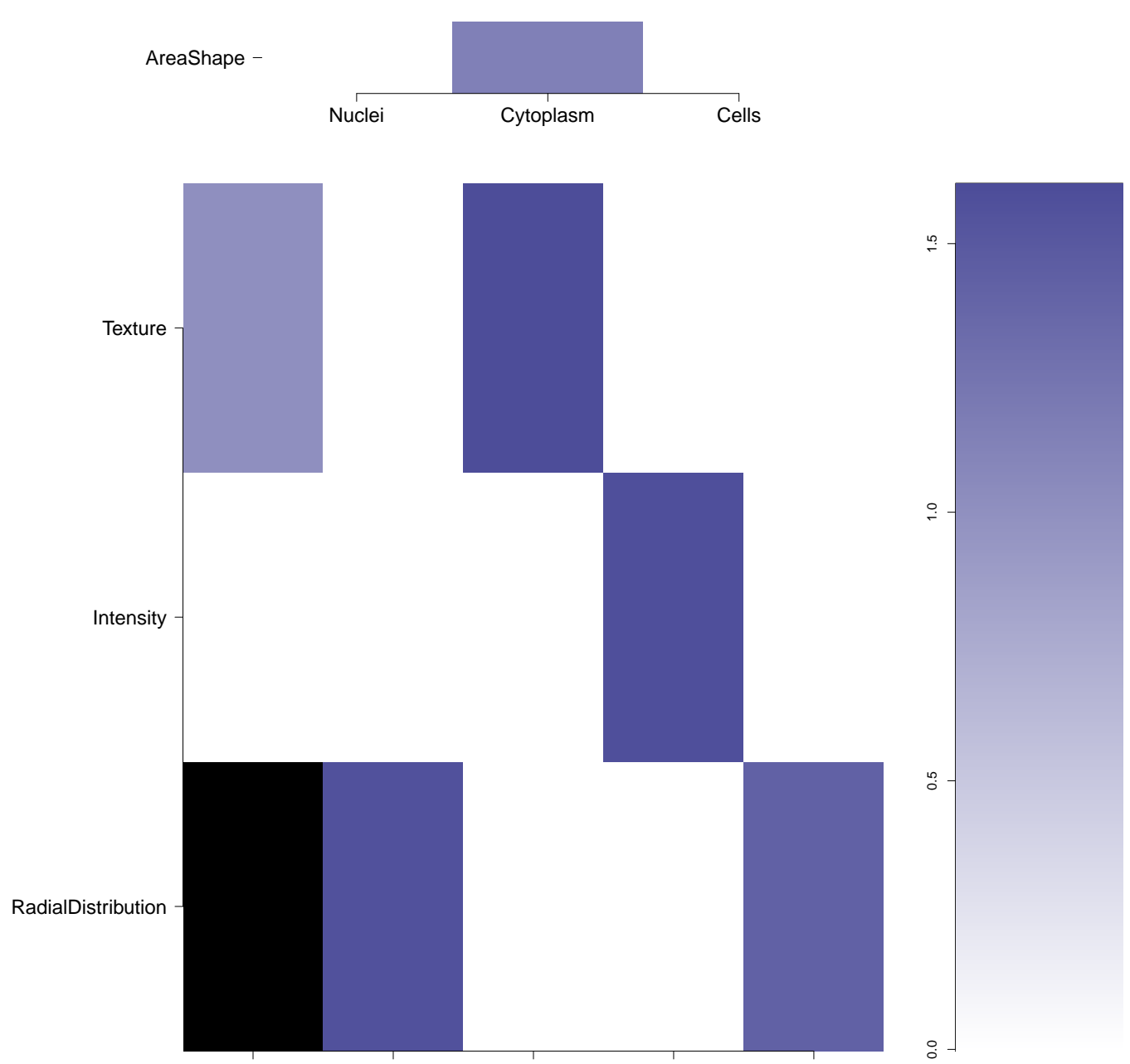

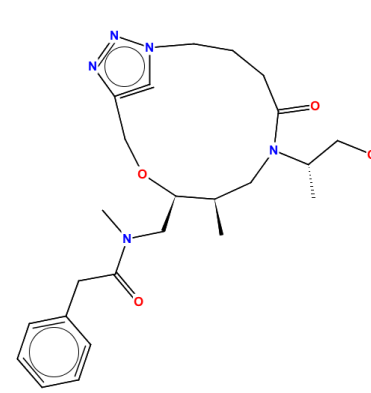
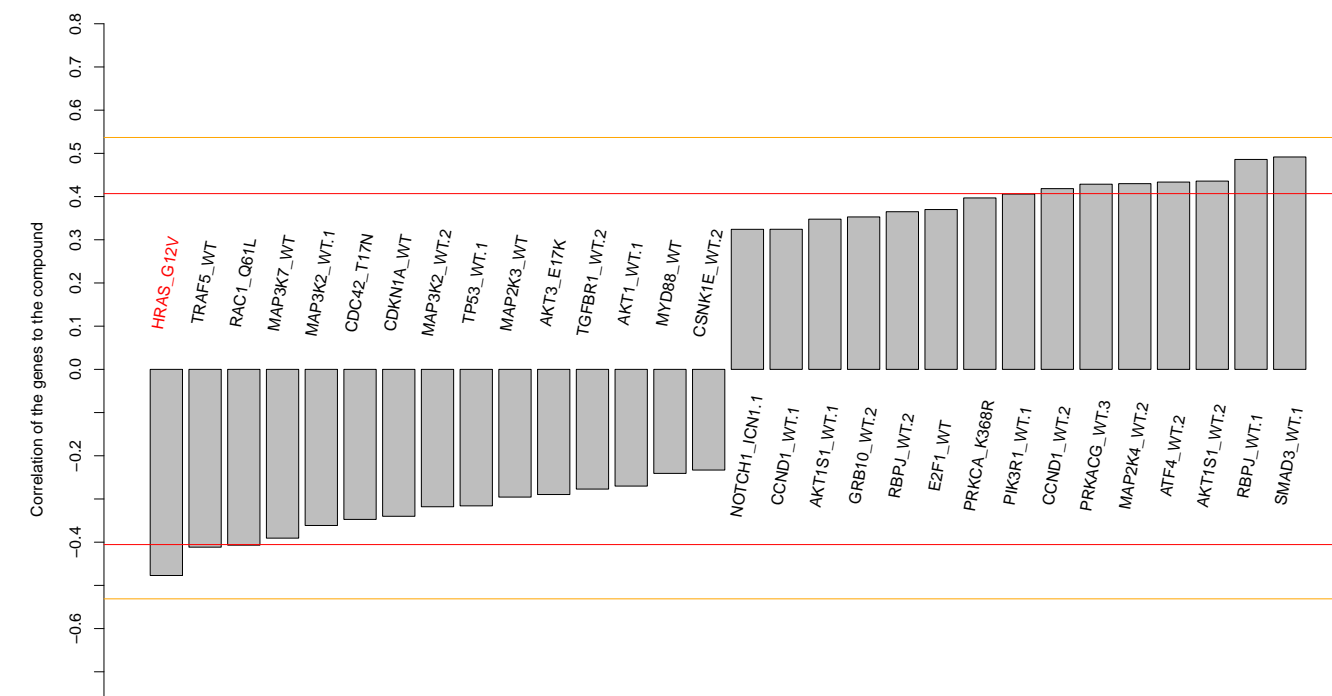
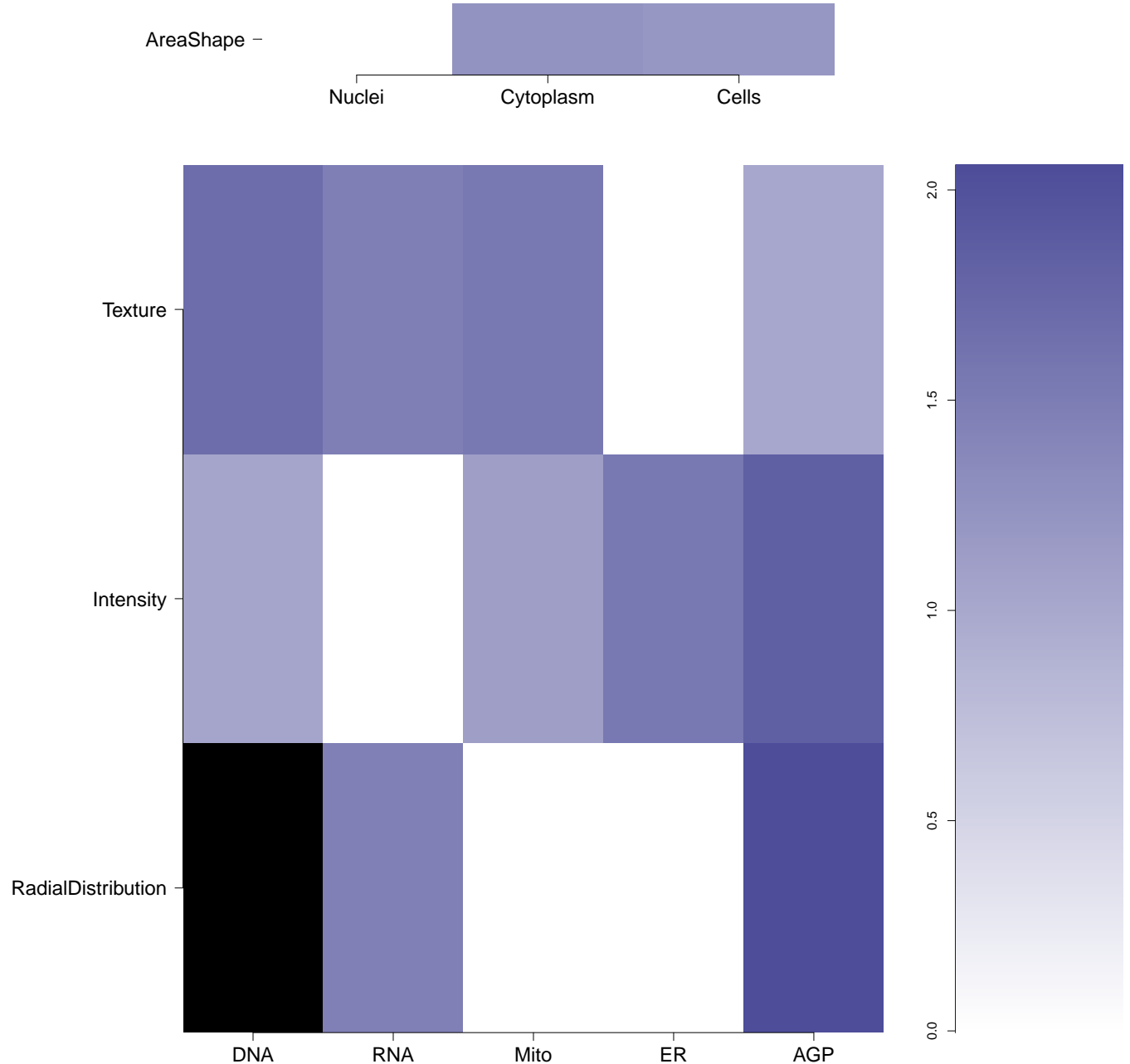
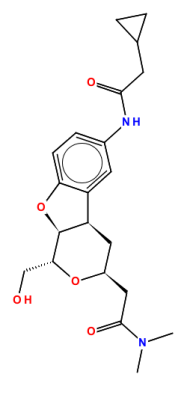
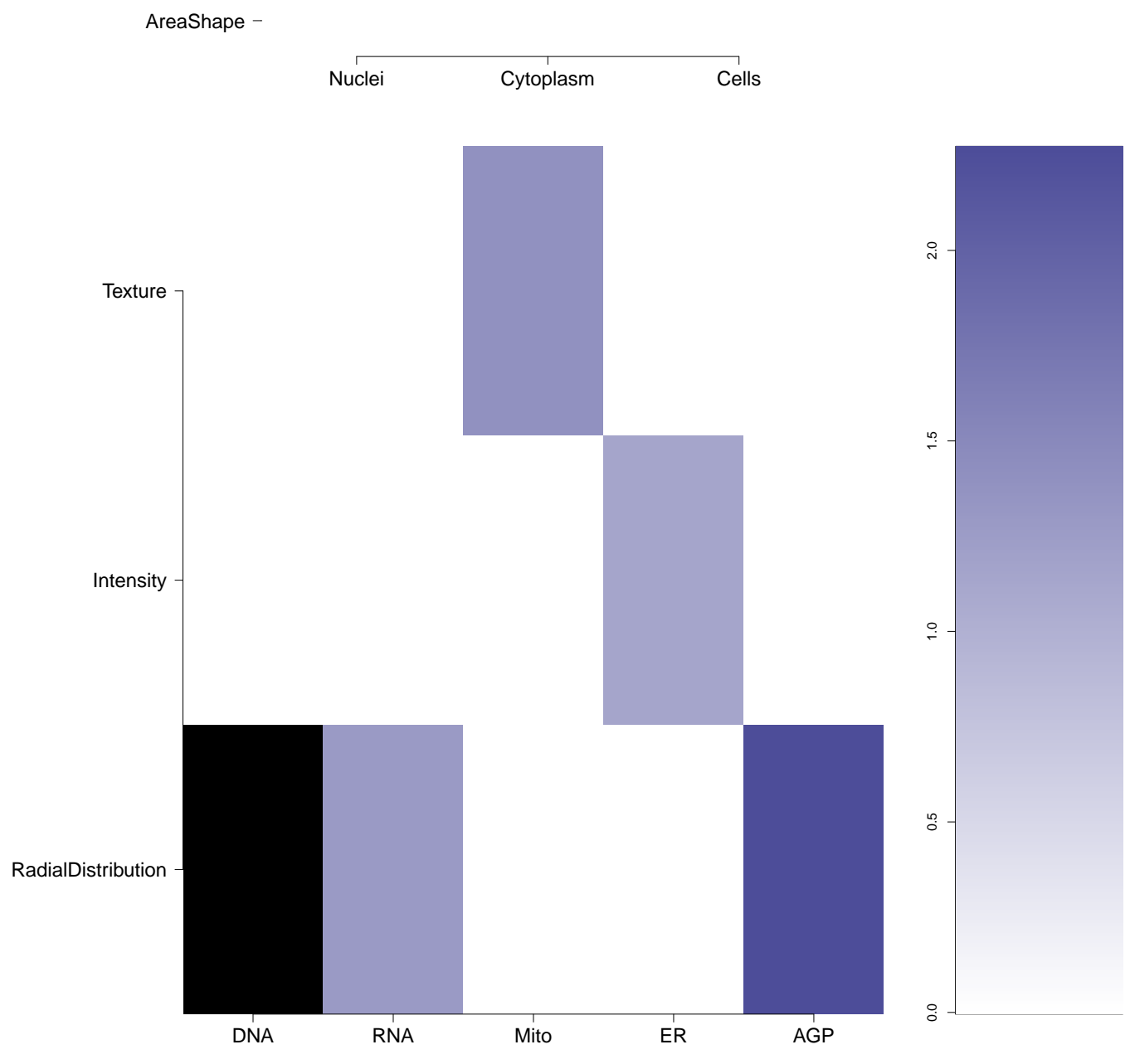
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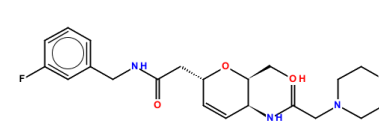
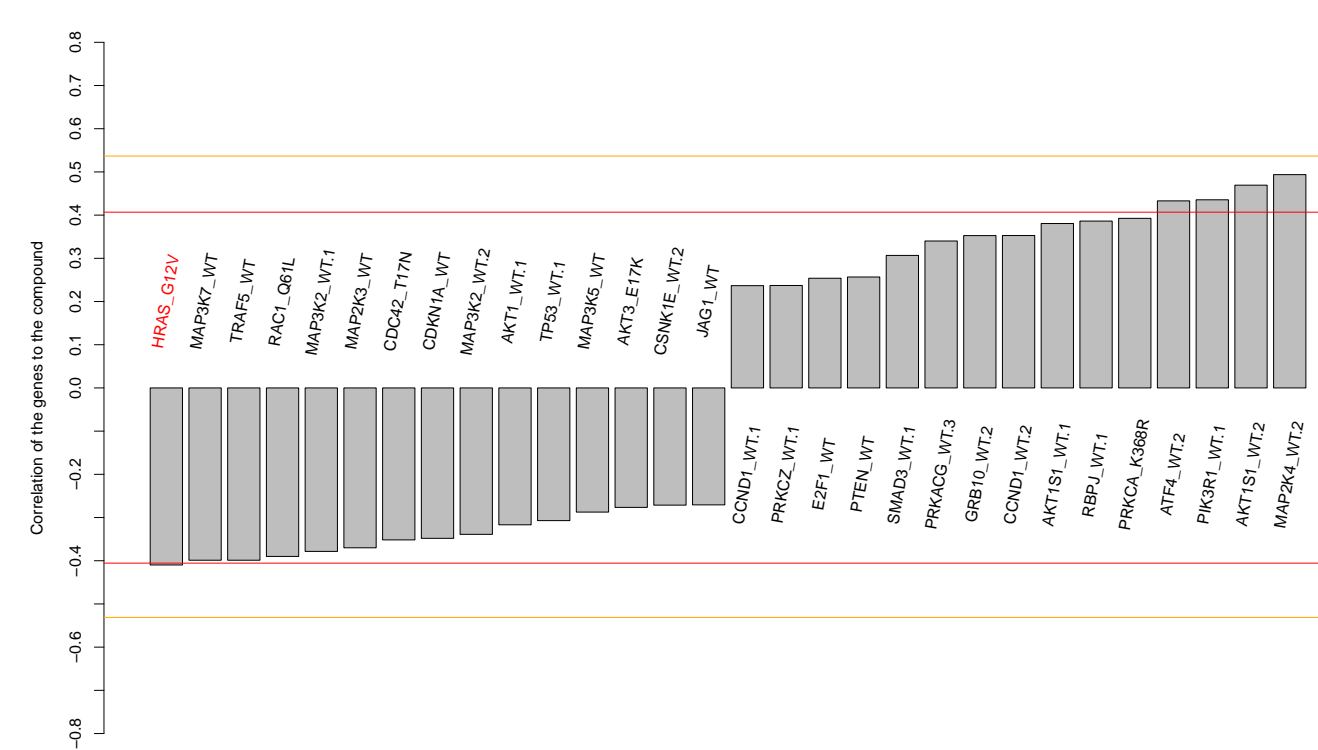
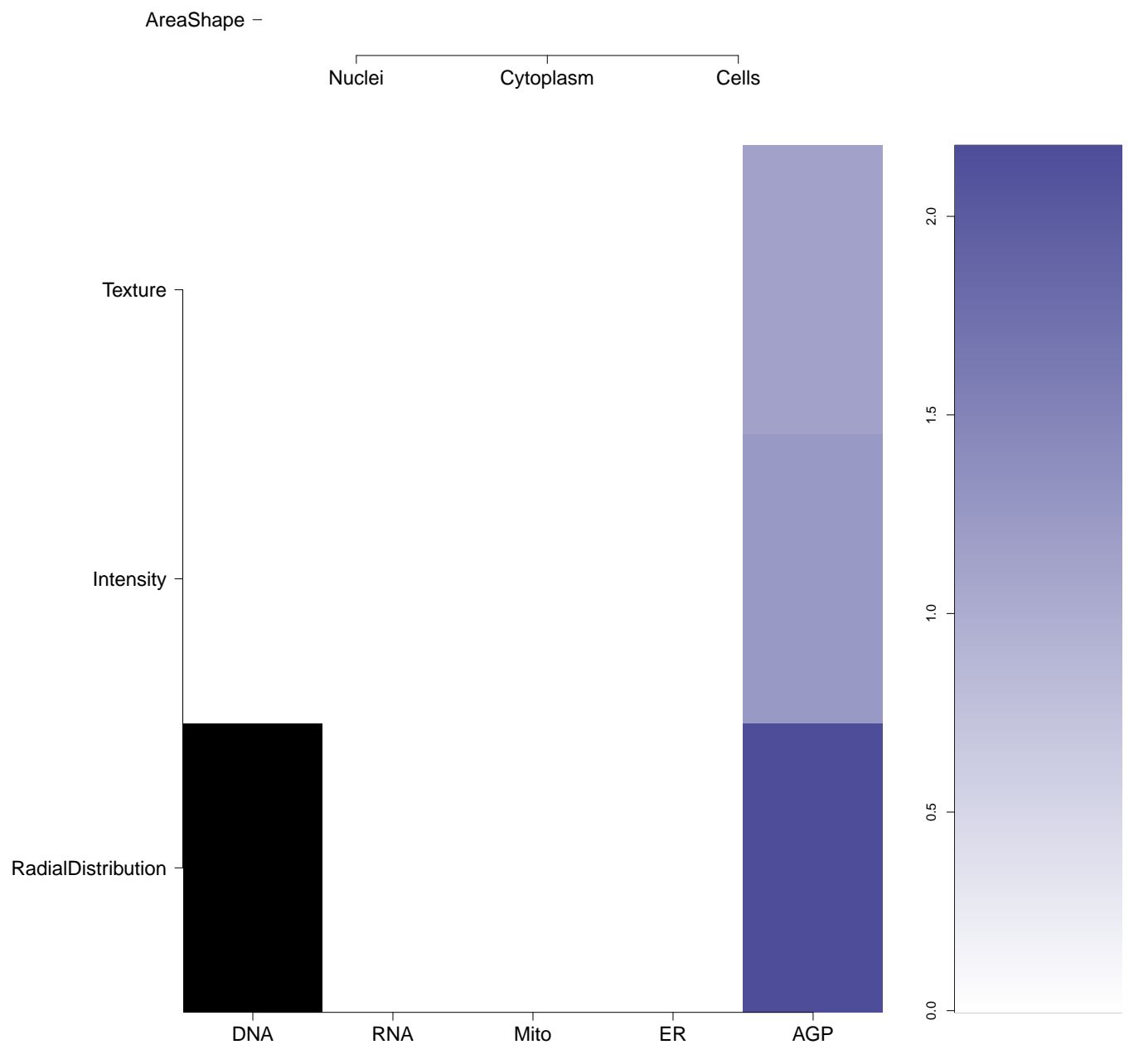
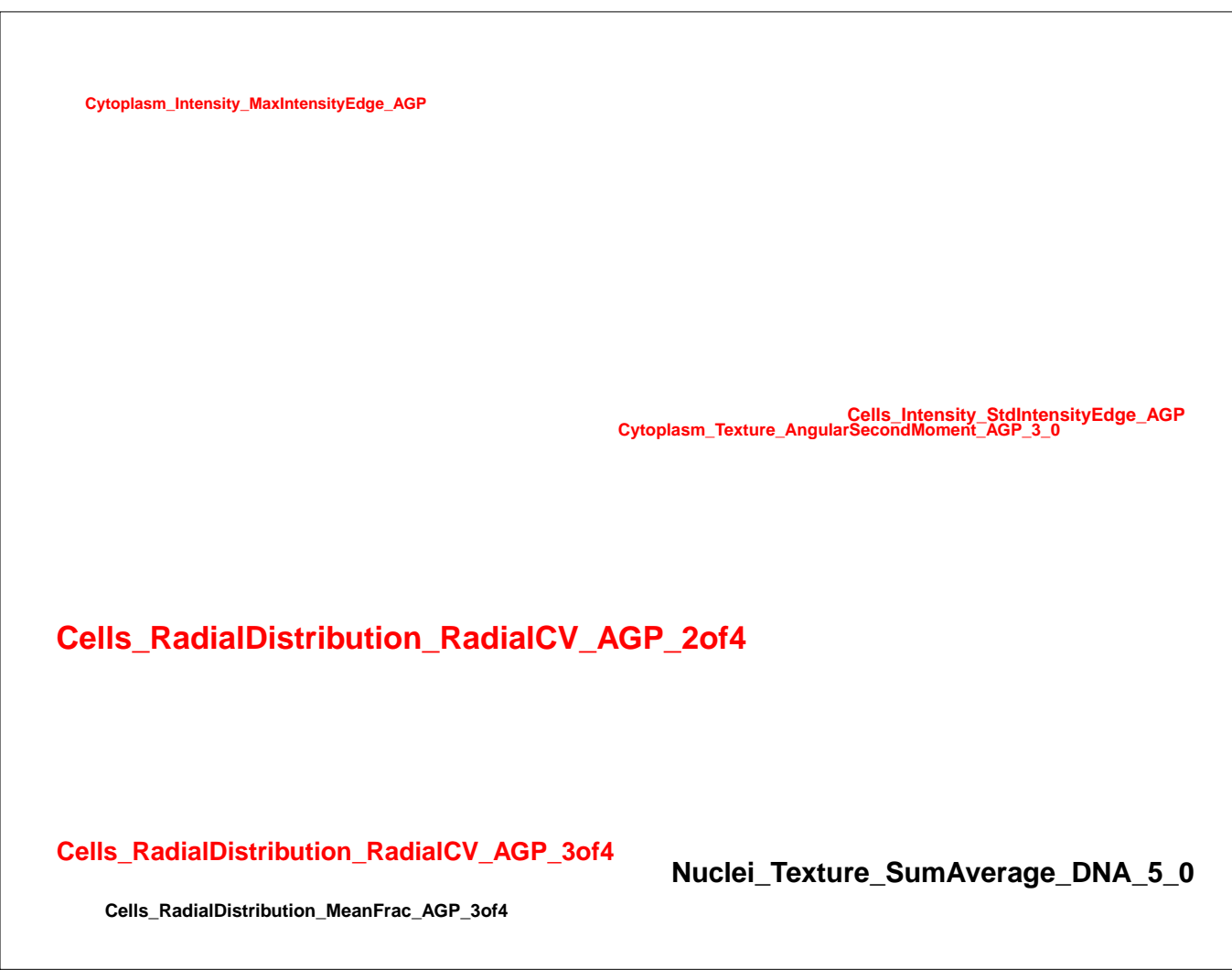
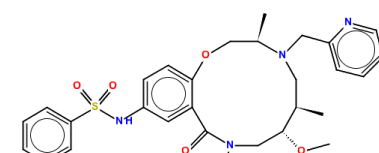
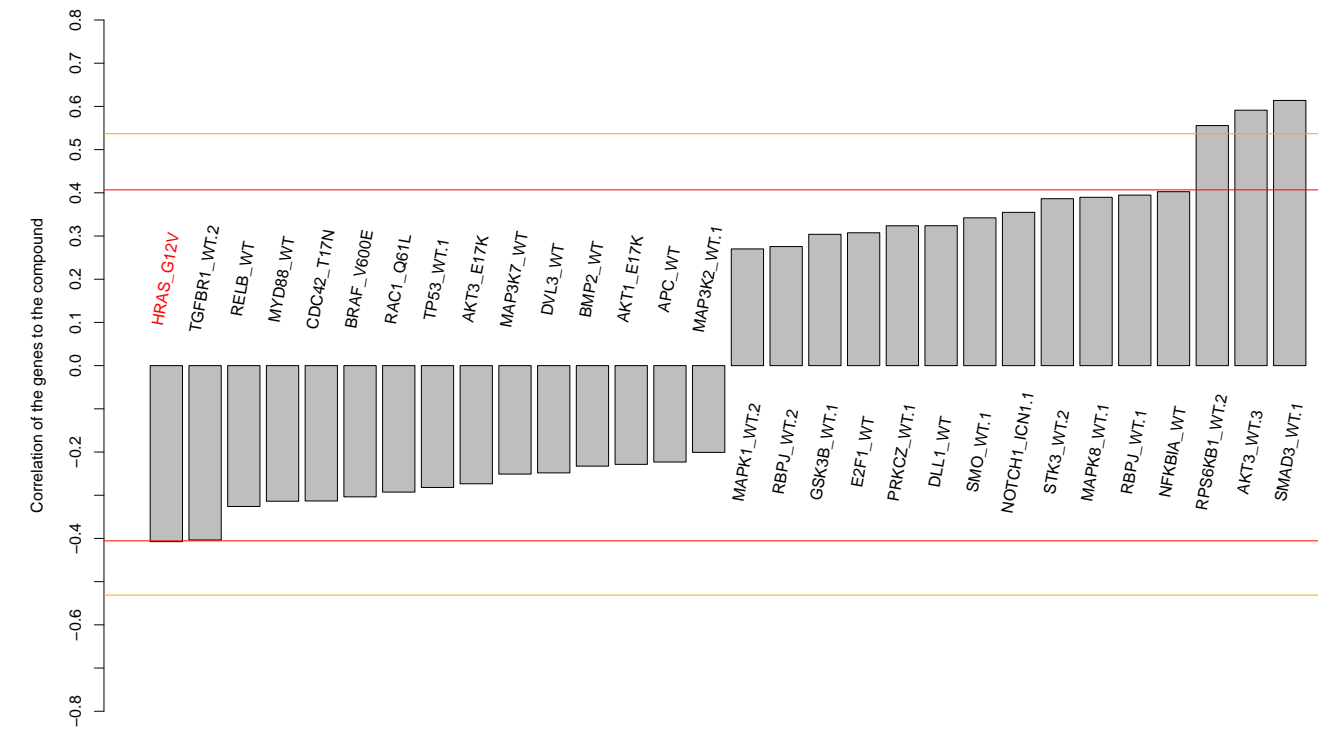
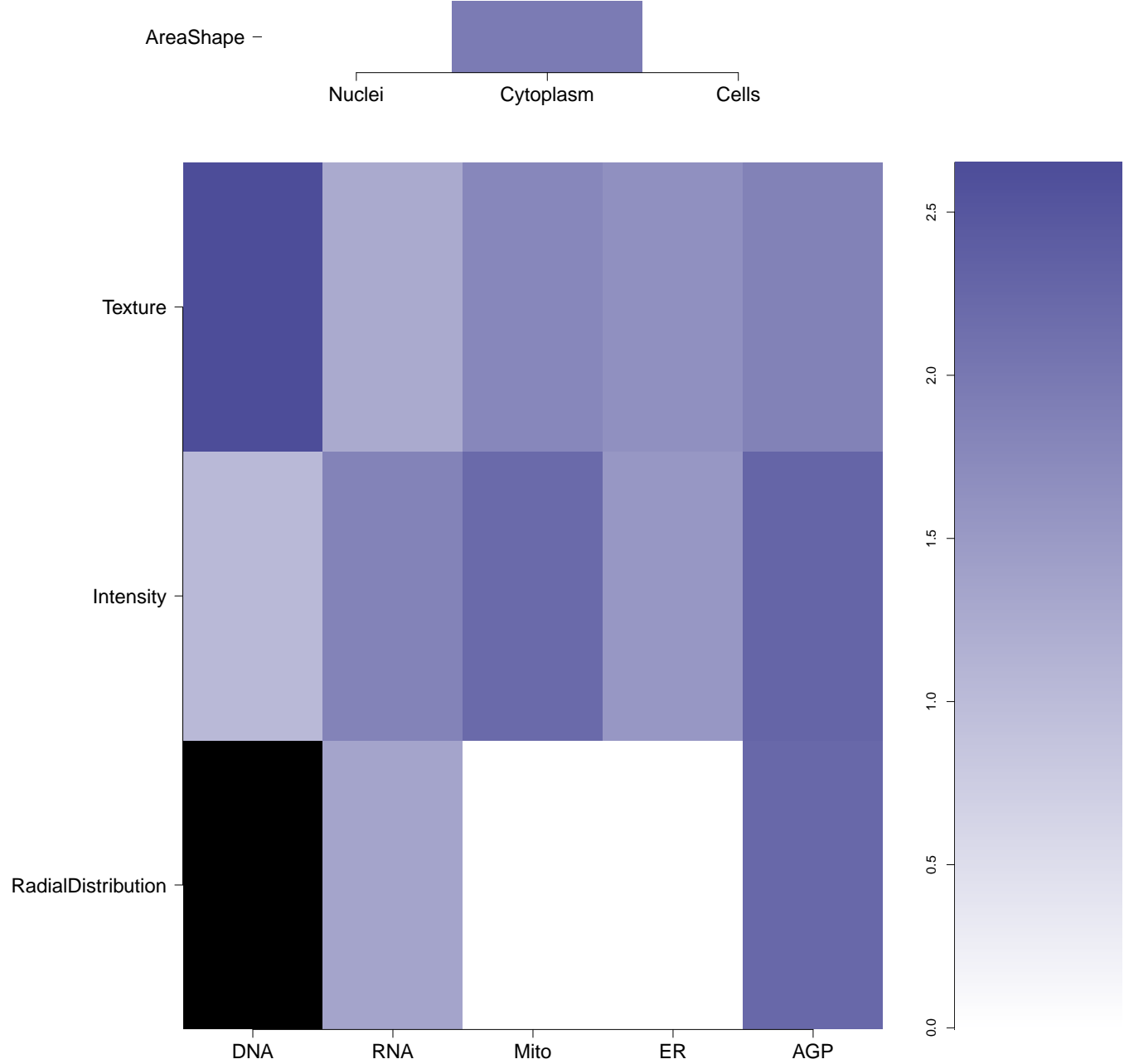
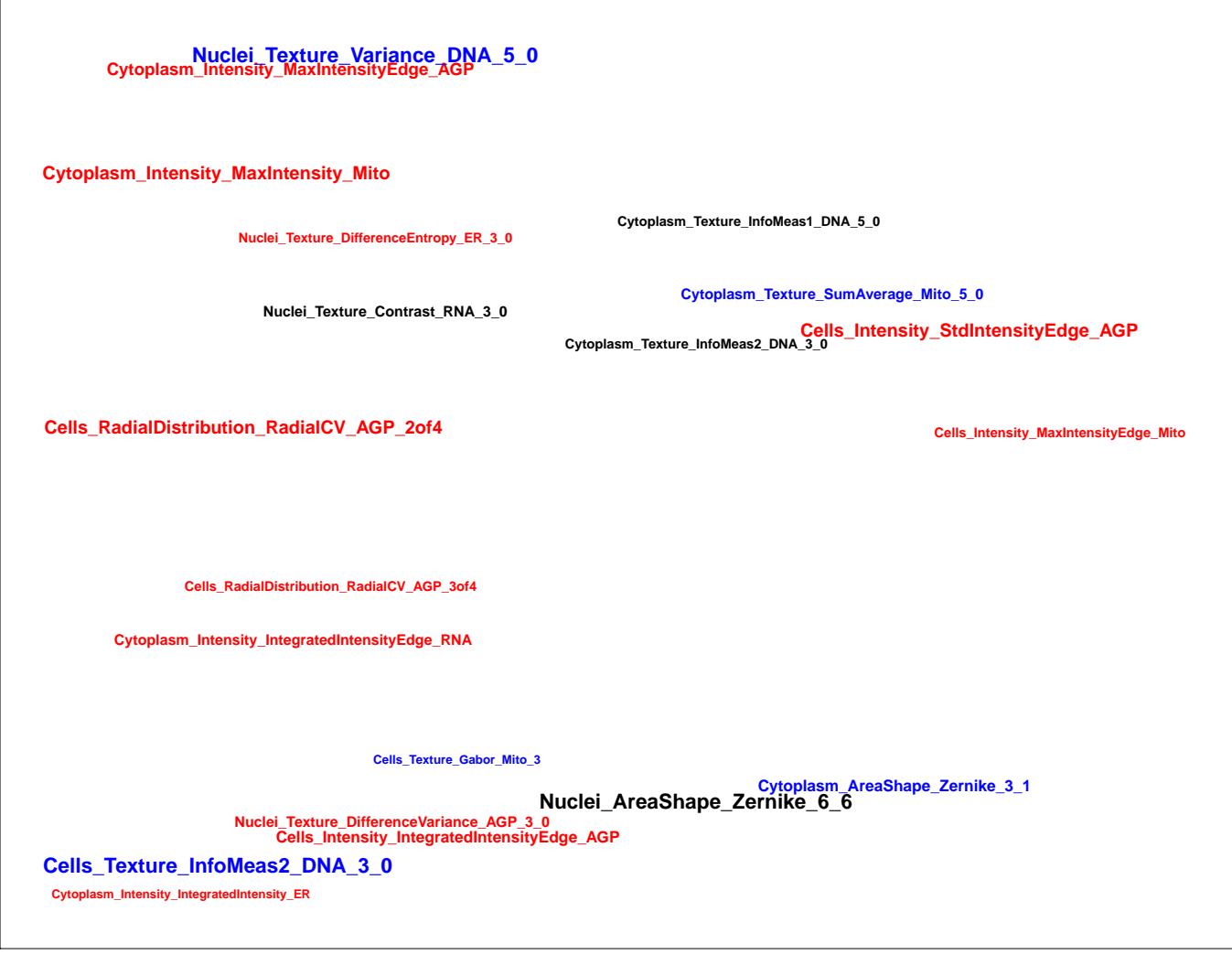


Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.52)	Correlation between compound the gene	Compound rank when scored against the gene using L1000 profiling	How similar is the compound signature to the genes in this experiment? (Yellow and red lines correspond to top/bottom 1st and 5th percentile DMSO correlation to all the genes)	Common distinguishing feature categories in the compound and the gene relative to the untreated samples	Distinguishing individual features for the compound relative to untreated samples. Black means a mismatch; i.e. active (= high z-score in magnitude) in the compound, and either inactive (= small z-score in magnitude) or oppositely active in the gene	Number of PubChem assays in which the compound was tested; assays in which the compound was active are itemized
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<p>BRD-K32364382-001-05-4</p> <p>ST50191717</p> <p>MLS000112340</p> <p>AC1LTOAE</p> <p>HMS2490G23</p> <p>ZINC1773843</p> <p>ZINC01773843</p> <p>BAS 03311486</p> <p>SMR000108254</p> <p>PubChem CID : 1565331</p>		0.82 (in 4 replicates)	0.77	NA				<p>Total number of assays tested in: 769. Active in the following assays:</p> <ul style="list-style-type: none"> • CYP2C19 Assay (AID 778) • qHTS Assay for Inhibitors of HPGD (15-Hydroxyprostaglandin Dehydrogenase) (AID 894) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • qHTS Assay for Rab9 Promoter Activators (AID 485297) • qHTS Assay for NPC1 Promoter Activators: Initial hit validation from the primary screen (AID 493203) • qHTS screen for small molecules that induce genotoxicity in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504466) • HTS Assay for Compounds that Act as Agonists of the Vanilloid Receptor 1 (AID 540275) • qHTS Assay to Identify Small Molecule Activators of BRCA1 Expression (AID 624202) • qHTS Assay for Rab9 Promoter Activators: Hit Validation Using Firefly Luciferase Read-Out for NPC1 (AID 624493) • qHTS Assay for NPC1 Promoter Activators: Hit Validation Using Firefly Luciferase Read-Out for Rab9 (AID 720525) • qHTS Assay for NPC1 Promoter Activators: Hit Validation Using Firefly Luciferase Read-Out for NPC1 (AID 720527)
<p>BRD-K41696776-001-04-5</p> <p>MLS000529852</p> <p>SMR000126895</p> <p>F0614-0001</p> <p>AC1NFDAE</p> <p>BDBM42998</p> <p>HMS2255D24</p> <p>EU-0092111</p> <p>PubChem CID : 4656755</p>		NA (in 1 replicates)	0.76	NA				<p>Total number of assays tested in: 691. Active in the following assays:</p> <ul style="list-style-type: none"> • Human H69AR Lung Tumor Cell Growth Inhibition Assay - 86K Screen (AID 598) • HTS of Estrogen Receptor- alpha Coactivator Binding inhibitors (AID 629) • Primary biochemical High Throughput Screening assay for agonists of the steroid receptor coactivator 1 (SRC-1) recruitment by the peroxisome proliferator-activated receptor gamma (PPARgamma) (AID 631) • HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732) • qHTS Inhibitors of AmpC Beta-Lactamase (assay without detergent) (AID 485341) • qHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346) • HTS to Find Inhibitors of Pathogenic Pemphigus Antibodies (AID 588358)
<p>BRD-K75977772-001-05-9</p> <p>MLS000756489</p> <p>NSC205913</p> <p>AC1N1LYV</p> <p>ZINC5580712</p> <p>ZINC05580712</p> <p>NSC-205913</p> <p>SMR000528759</p> <p>PubChem CID : 4007404</p>		NA (in 1 replicates)	0.76	NA				<p>Total number of assays tested in: 565. Active in the following assays:</p> <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 Mansoni 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); Luminescence-based cell-based high throughput screening assay to identify non-selective compounds using the VP16 reporter assay (AID 686939)
<p>BRD-A80723361-001-06-7</p> <p>MLS000120963</p> <p>SMR000118340</p> <p>BAS 03775057</p> <p>AC1MK3FZ</p> <p>BDBM62892</p> <p>HMS2349A13</p> <p>STK840835</p> <p>PubChem CID : 3148600</p>		0.93 (in 4 replicates)	0.75	0.758				<p>Total number of assays tested in: 698. Active in the following assays:</p> <ul style="list-style-type: none"> • qHTS for Calpain Inhibitors (AID 1236) • Dose Response Confirmation for Calpain Inhibitors (AID 1420) • Luminescence Cell-Based Primary HTS to Identify Inhibitors of Heat Shock Factor 1 (HSF1). (AID 2098) • Counterscreen for PME1 inhibitors: fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of lysophospholipase 1 (LYPLA1). (AID 2174) • Counterscreen for PME1 inhibitors: fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of lysophospholipase 2 (LYPLA2). (AID 2177) • Counterscreen for PME1 inhibitors: fluorescence polarization-based biochemical high throughput confirmation assay to identify inhibitors of lysophospholipase 2 (LYPLA2). (AID 2232) • Counterscreen for PME1 inhibitors: fluorescence polarization-based biochemical high throughput confirmation assay for inhibitors of lysophospholipase 1 (LYPLA1). (AID 2233) • Inhibitors of Cav3 T-type Calcium Channels: Primary Screen (AID 449739) • High Throughput Screening for Cocaine Antagonists: Primary Screen (AID 449788) • Primary cell-based screen for identification of compounds that inhibit the Choline Transporter (CHT) (AID 488975) • Inhibitors of T-Type Calcium Channel (AID 489005) • Inhibitors of T-Type Calcium Channels (AID 493021) • Antagonist of Human D 1 Dopamine Receptor: qHTS (AID 504652) • Confirmed inhibitors of the Cav3 T-type Calcium Channel (AID 1053190)
<p>BRD-A77566727-001-05-6</p> <p>SMR000048526</p> <p>AC1LDHJD</p> <p>MLS000084442</p> <p>MLS002584781</p> <p>HMS2405B07</p> <p>STK788882</p> <p>ST50129984</p> <p>PubChem CID : 667105</p>		0.88 (in 4 replicates)	0.75	NA				<p>Total number of assays tested in: 775. Active in the following assays:</p> <ul style="list-style-type: none"> • CYP2C9 Assay (AID 777) • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • uHTS fluorescence polarization assay for the identification of translation initiation inhibitors (eIF4H) (AID 2012) • uHTS fluorescence polarization assay for the identification of translation initiation inhibitors (PABP) (AID 2014) • Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of BCL2-related protein, long isoform (BCLXL). (AID 2129) • Primary qHTS for delayed death inhibitors of the malarial parasite plasmod, 96 hour incubation (AID 504834) • Full deck counterscreen for antagonists of the human M1 muscarinic receptor (CHRM1): Fluorescence-based cell-based high throughput screening assay to identify nonselective inhibitors and assay artifacts using the parental CHO/K1 cell line (AID 602250) • Luminescence-based biochemical primary high throughput screening assay to identify inhibitors of the interaction of the lipase co-activator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5) (AID 602281) • Fluorescence-based cell-based primary high throughput screening assay to identify positive allosteric modulators (PAMs) of the human cholinergic receptor, muscarinic 4 (CHRM4) (AID 624126) • Counterscreen for inhibitors of the interaction of the lipase co-activator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5): Luminescence-based biochemical high throughput assay to identify inhibitors of Hepatocyte nuclear factor 4 (HNF4) dimerization (AID 651674)

BRD-K20777727-001-06-3 MLS001110838 HMS2237124 HMS3368L02 ZINC6750882 SMR000624653 PubChem CID : 20886483		NA (in 1 replicates)	0.71	NA				<p>Total number of assays tested in: 497. Active in the following assays:</p> <ul style="list-style-type: none"> MLPCN Platelet Activation -Dense Granule Release (AID 1663) Primary cell-based high-throughput screening assay for identification of compounds that inhibit KCNQ2 potassium channels (AID 2156) Luminescence-based primary cell-based high throughput screening assay to identify activators of the Aryl Hydrocarbon Receptor (AHR) (AID 2796) FRET-based cell-based primary high throughput screening assay to identify antagonists of the oroxin 1 receptor (OX1R; HCRT1R) (AID 485270) Fluorescence-based biochemical primary high throughput screening assay to identify inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 588726) Primary cell-based screen for identification of compounds that inhibit the two-pore domain potassium channel KCNK3 (AID 602410) Fluorescence-based biochemical high throughput confirmation assay for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 651616) Confirmation assay for identification of compounds that inhibit the two-pore domain potassium channel KCNK3 [Primary Screening] (AID 651638) Counter-screen for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis: Fluorescence-based biochemical high throughput Glycero-phosphate Dehydrogenase-Triosephosphate Isomerase (GDH-TPI) assay to identify assay artifacts (AID 652141) qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686079) TRFRET-based cell-based primary high throughput screening assay to identify inhibitors of cell surface Prion Protein (PRPC) (AID 720596) TRFRET-based cell-based high throughput confirmation assay to identify inhibitors of cell surface Prion Protein (PRPC) (AID 743200)
BRD-K46976183-001-05-0 10P-378S AC1MCBYB MLS000327655 HMS2404B20 ZINC4014200 ZINC4014200 PubChem CID : 2765899		0.81 (in 3 replicates)	0.70	NA				<p>Total number of assays tested in: 637. Active in the following assays:</p> <ul style="list-style-type: none"> qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490) Fluorescence Cell-Free Homogeneous Primary HTS to Identify Inhibitors of the RhoGTP-Importin-beta complex (AID 2216) qHTS of D3 Dopamine Receptor Antagonist: qHTS (AID 652054)
BRD-K78412459-001-07-0 MLS000095975 SMR000031523 AC1MMEHN BDBM64930 HMS1510113 HMS2441M20 PubChem CID : 3237493		0.81 (in 3 replicates)	0.70	NA				<p>Total number of assays tested in: 789. Active in the following assays:</p> <ul style="list-style-type: none"> CYP2C9 Assay (AID 777) HCS for Compounds that Up-Regulate Insulin Promoter Activity in MIN6 Cells (AID 1625) qHTS Multiplex Assay to Identify Dual Action Probes in a Cell Model of Huntington: Aggregate Formation (GFP) (AID 1688) Fluorescence Cell-Based Primary HTS of C. albicans growth in the presence of Fluconazole and compound (AID 1979) Fluorescence Cell-Based Secondary Assay to Identify Inhibitors of Resistant C. albicans Growth in the Presence of Fluconazole (AID 2423) Fluorescence Cell-Based Retest of C. albicans Growth in the Presence of Fluconazole (AID 2467) Primary qHTS for delayed death inhibitors of the malarial parasite plasmod, 96 hour incubation (AID 504834)
BRD-K11636255-001-06-2 MLS000576650 STK175268 SMR000197118 AC1LPDPR MLS002541196 BDBM47490 HMS2425122 ZINC1162114 PubChem CID : 1330292		0.77 (in 4 replicates)	0.69	0.758				<p>Total number of assays tested in: 678. Active in the following assays:</p> <ul style="list-style-type: none"> Leishmania major promastigote HTS (AID 1063) Primary cell-based high-throughput screening assay for potentiators or agonists of NPY-Y1 (AID 1304) Primary Cell-Based Assay to Identify Agonists of the Sphingosine 1-Phosphate Receptor 4 (S1P4) (AID 1509) Confirmation cell-based high throughput assay for agonists of the Sphingosine 1-Phosphate Receptor 4 (S1P4) (AID 1523) Confirmation cell-based high-throughput screening assay for potentiators or agonists of NPY-Y1 (AID 1546) Fluorescence counter-screen assay for potentiators or agonists of NPY-Y1: Cell-based high-throughput screening assay to identify potentiators or agonists of NPY-Y2. (AID 1649) Fluorescence counter-screen assay for potentiators or agonists of NPY-Y1: cell-based high-throughput screening assay to identify agonists of NPY-Y1 (AID 1697) Fluorescence counter-screen assay for potentiators or agonists of NPY-Y1: cell-based high-throughput screening assay to identify agonists of NPY-Y2. (AID 1698) Fluorescence-based counter-screen assay for potentiators or agonists of NPY-Y1: cell-based high-throughput screening assay to identify inhibitors of cyclic nucleotide gated ion channel (CNGC) activity. (AID 1704) MLPCN maternal gene expression-MEX-5 TCR-2 binding assay-Primary Screen (AID 1832) High throughput discovery of novel modulators of ROMK K+ channel activity: Primary Screen (AID 1918) HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732) uHTS Fluorescent assay for identification of inhibitors of hexokinase domain containing 1 (HKDC1) (AID 493160) TRFRET-based cell-based primary high throughput screening assay to identify biased ligands of the melanocortin 4 receptor (MC4R): antagonists of MC4R (AID 540295) qHTS for Inhibitors of mutant isocitrate dehydrogenase 1 (IDH1): qHTS in WT IDH1 (AID 623995) qHTS for Inhibitors of mutant isocitrate dehydrogenase 1 (IDH1): Confirmation of Cherrypicks (AID 624002) Fluorescence-based cell-based primary high throughput screening assay to identify agonists of the human trace amine associated receptor 1 (TAAR1) (AID 624467) Fluorescence-based cell-based primary high throughput confirmation assay to identify agonists of the human trace amine associated receptor 1 (TAAR1) (AID 651783) Counter-screen for agonists of the human trace amine associated receptor 1 (hTAAR1): Fluorescence-based cell-based high throughput screening assay to identify nonselective Gal6 antagonists (AID 651787) Counter-screen for agonists of the human trace amine associated receptor 1 (hTAAR1): Fluorescence-based cell-based high throughput screening assay to identify nonselective Gal6 antagonists (AID 651992) qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)

<div>BRD-A90025074-001-05-5</div> <div>MLS000080755</div> <div>AC1LDGAN</div> <div>HMS3314F15</div> <div>STK217355</div> <div>BAS 14602007</div> <div>SMR000037519</div> <div>ST50166825</div> <div>PubChem CID : 666583</div>		0.89 (in 4 replicates)	0.69	NA				Total number of assays tested in: 771. Active in the following assays: <ul style="list-style-type: none">● CYP2C9 Assay (AID 777)
<div>BRD-K52184420-001-01-4</div> <div>PubChem CID : 54645920</div>		NA (in 1 replicates)	-0.56	0.242				Total number of assays tested in: 44. Active in the following assays: <ul style="list-style-type: none">● Inhibition of Teruzy proliferation in culture Measured in Cell-Based System Using Plate Reader - 2138-01.Inhibitor.SinglePoint.HTS.Activity (AID 624255)● Inhibition of Teruzy proliferation in culture Measured in Cell-Based System Using Plate Reader - 2138-01.Inhibitor.SinglePoint.CherryPick.Activity (AID 651739)● NIH/3T3 (mouse embryonic fibroblast) toxicity Measured in Cell-Based System Using Plate Reader - 2138-02.Inhibitor.SinglePoint.CherryPick.Activity (AID 651744)
<div>BRD-K47479852-001-05-4</div> <div>T0502-0158</div> <div>AC1OCBLD</div> <div>MLS001018827</div> <div>HMS1782M03</div> <div>ZINC12729559</div> <div>SMR000363219</div> <div>PubChem CID : 6899059</div>		NA (in 1 replicates)	-0.51	NA				Total number of assays tested in: 581. Active in the following assays: <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 588342)● 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)
<div>BRD-K88073024-001-01-7</div> <div>PubChem CID : 54634277</div>		0.52 (in 4 replicates)	-0.49	NA				Total number of assays tested in: 34. Active in the following assays: <ul style="list-style-type: none">● DENV2 CPE-Based HTS Measured in Cell-Based and Microorganism Combination System Using Plate Reader - 2149-01.Other.SinglePoint.HTS.Activity (AID 651640)
<div>BRD-K23349860-001-01-6</div> <div>PubChem CID : 44487412</div>		0.60 (in 3 replicates)	-0.48	0.242				Total number of assays tested in: 33.
<div>BRD-K36081737-001-01-1</div> <div>PubChem CID : 54646552</div>		0.56 (in 4 replicates)	-0.46	0.129				Total number of assays tested in: 39.

BRD-K12188384-001-01-8 PubChem CID : 54641085		NA (in 1 replicates)	-0.41	NA				Total number of assays tested in: 40.
BRD-K38519440-001-01-6 PubChem CID : 54633345		NA (in 1 replicates)	-0.41	0.097				Total number of assays tested in: 35.