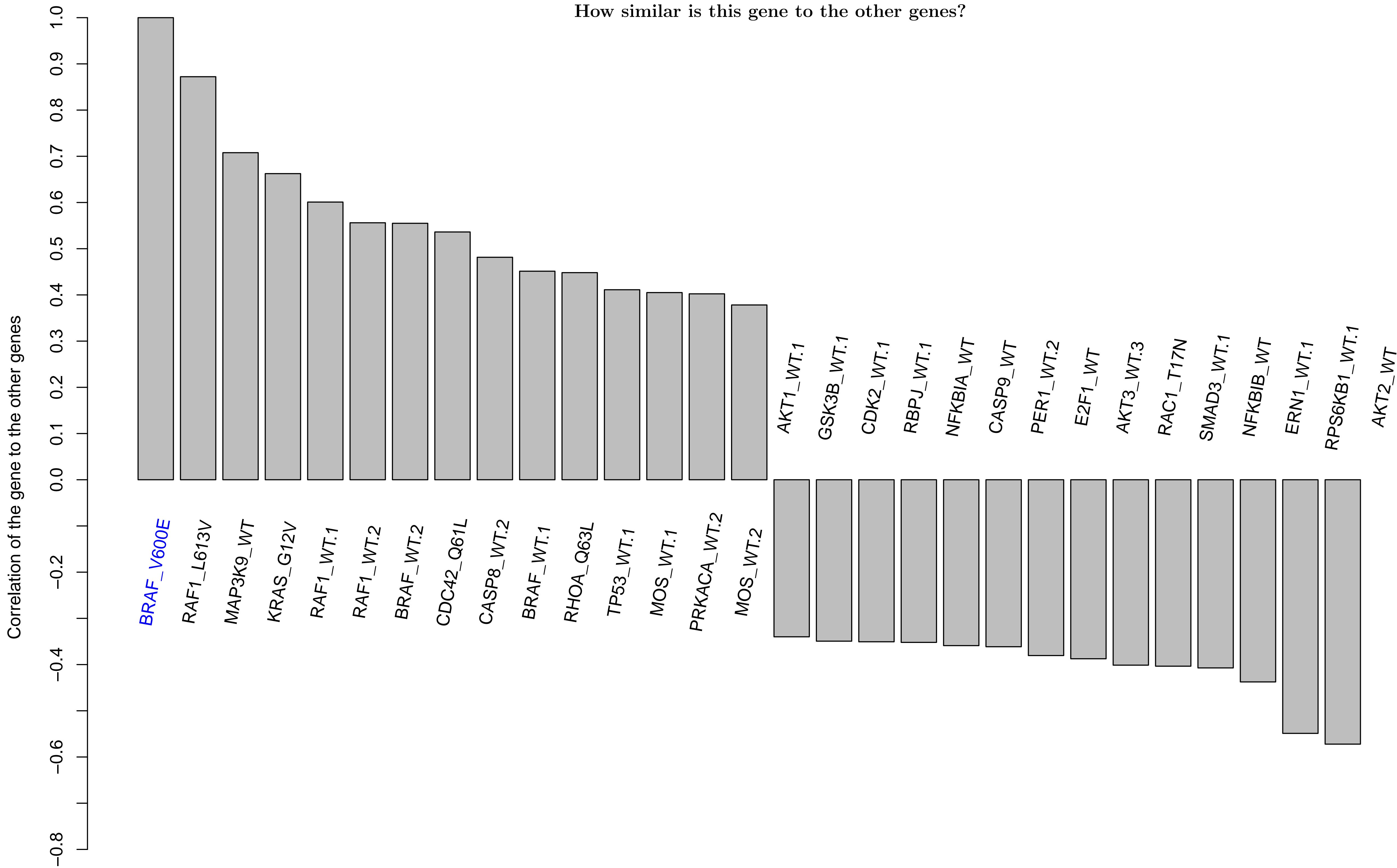
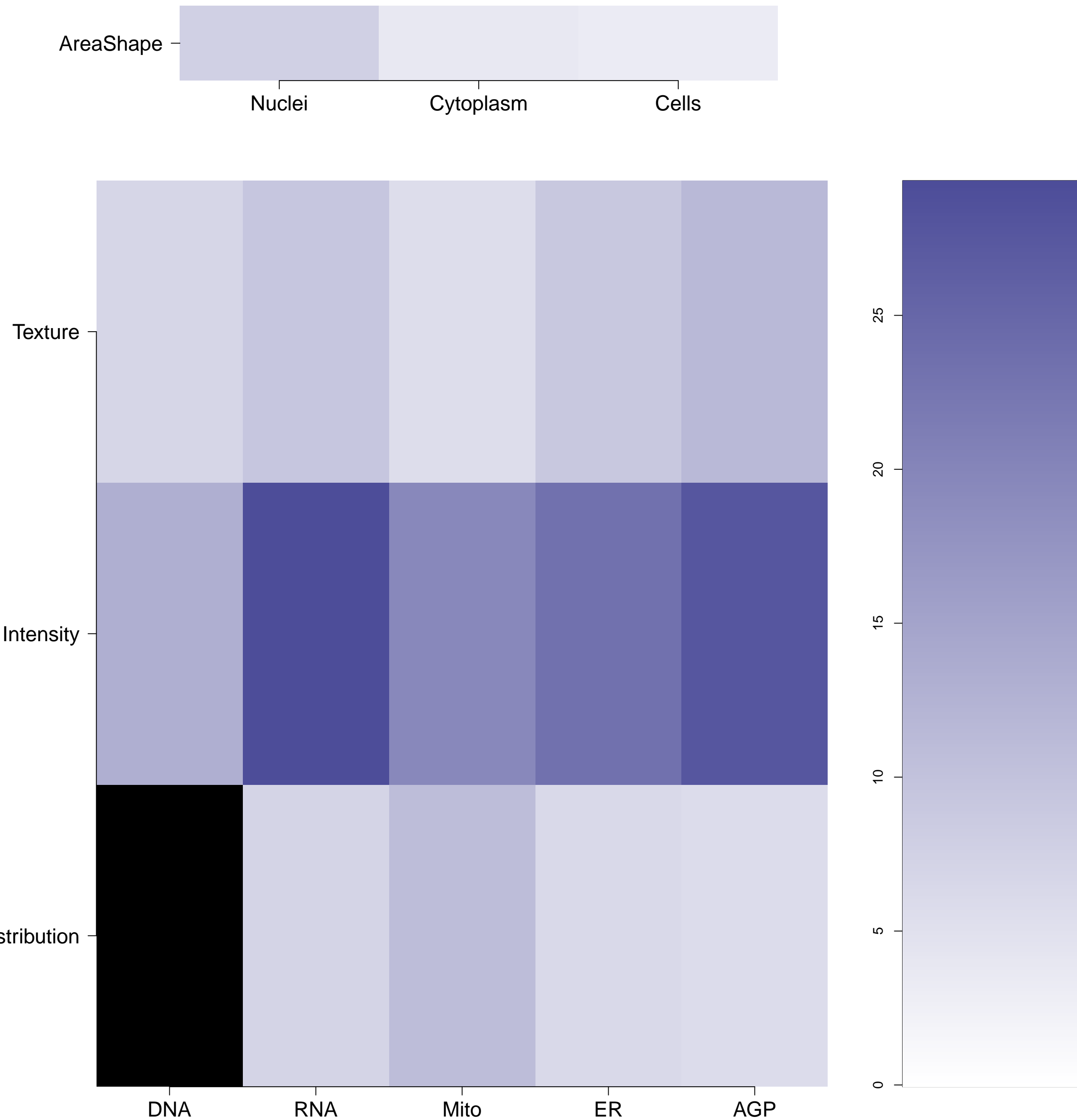


BRAF.V600E - in Canonical MAPK

How similar is this gene to the other genes?



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



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



Empty

BRAF.V600E (41744)

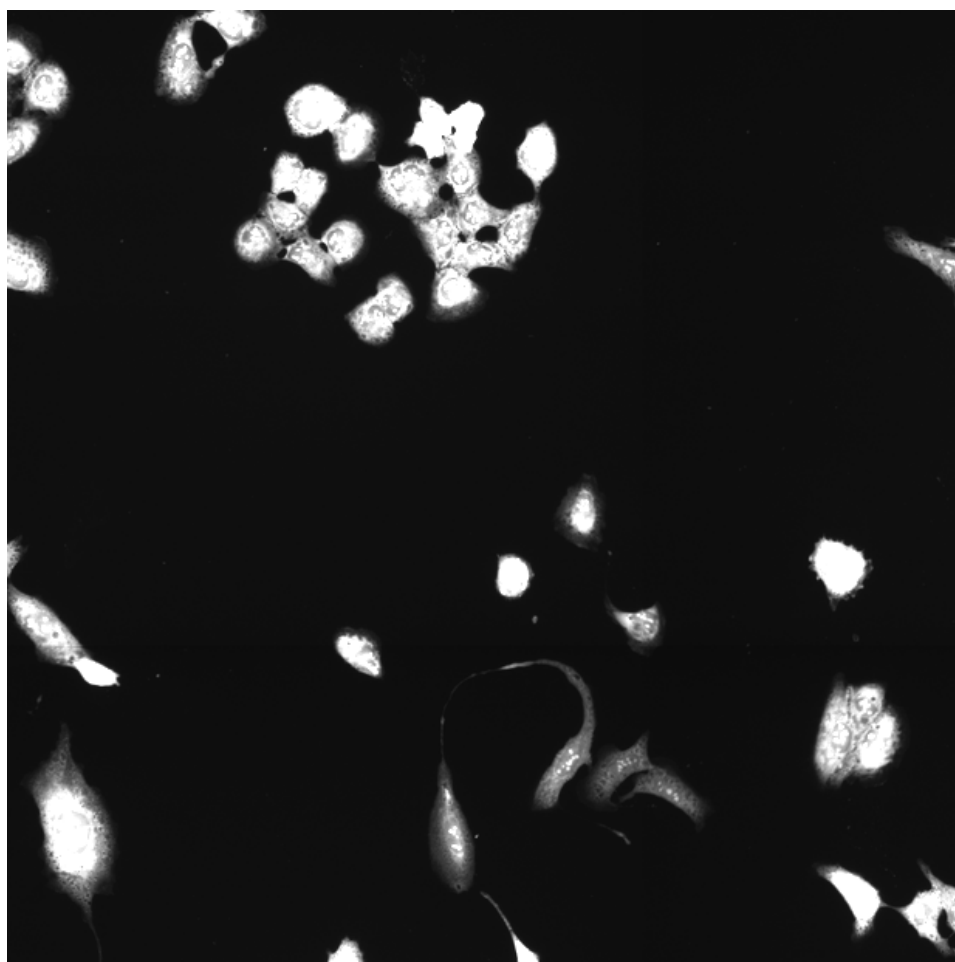
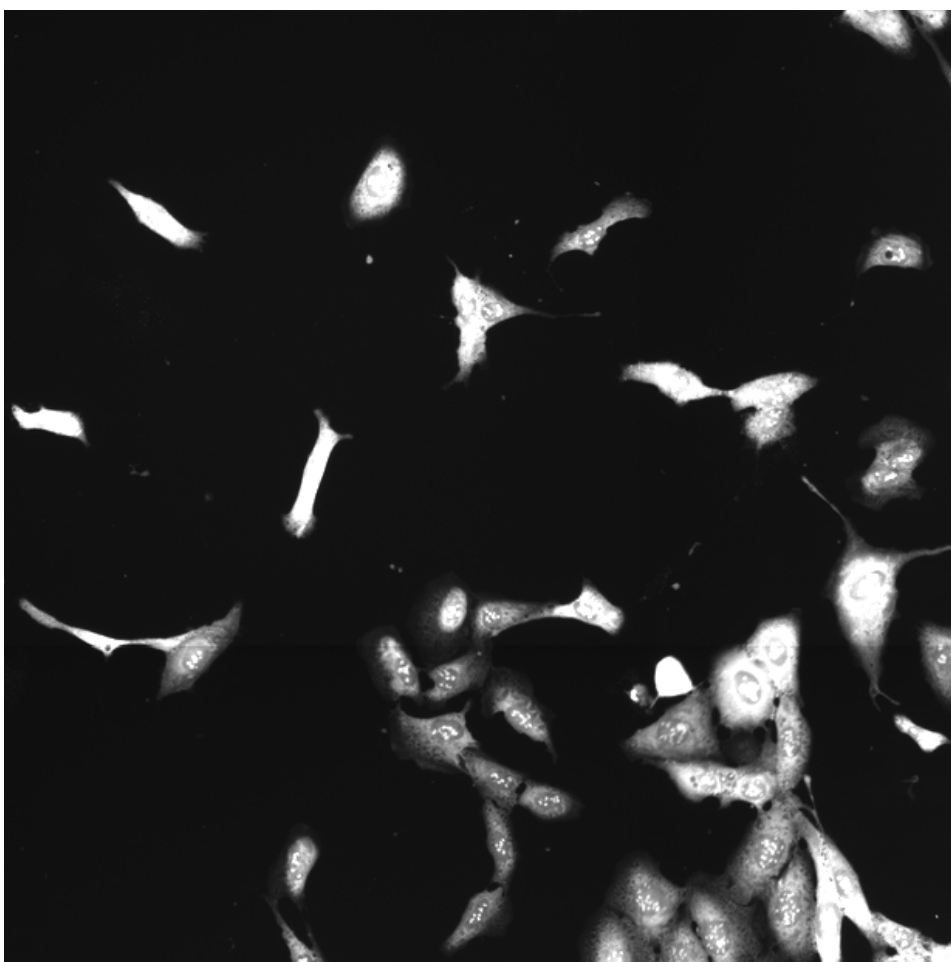
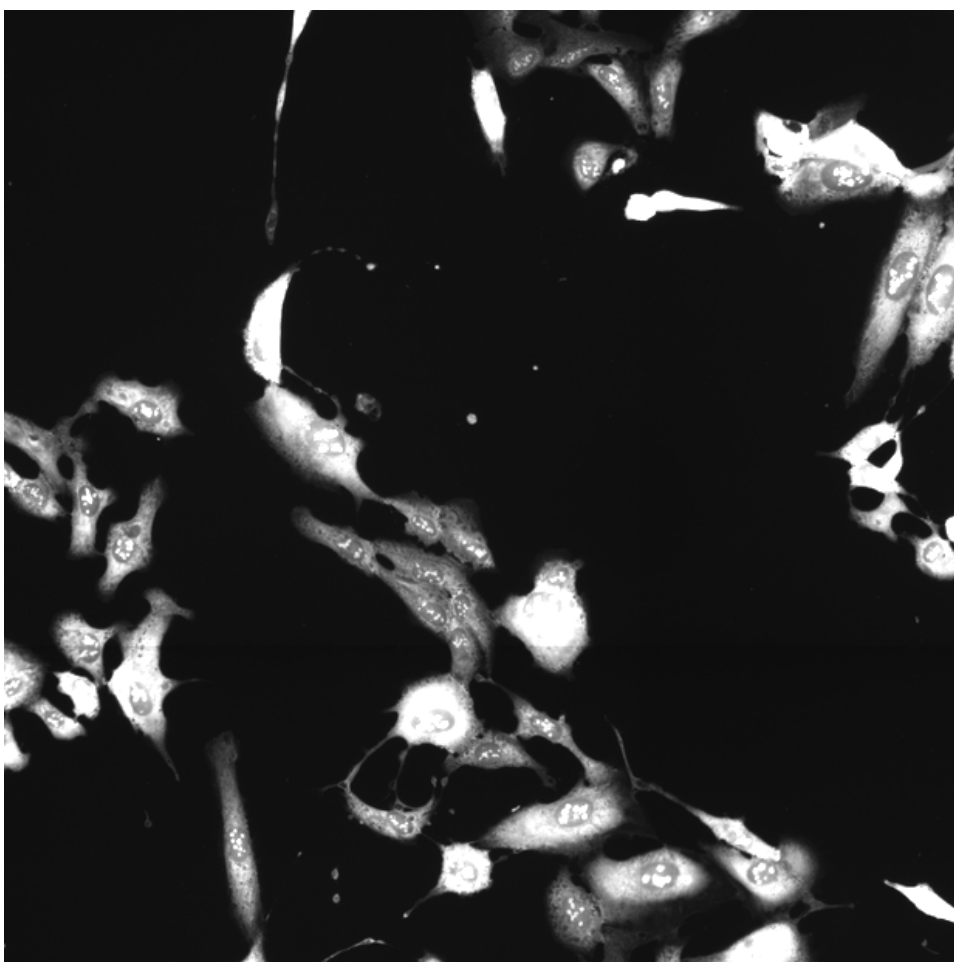
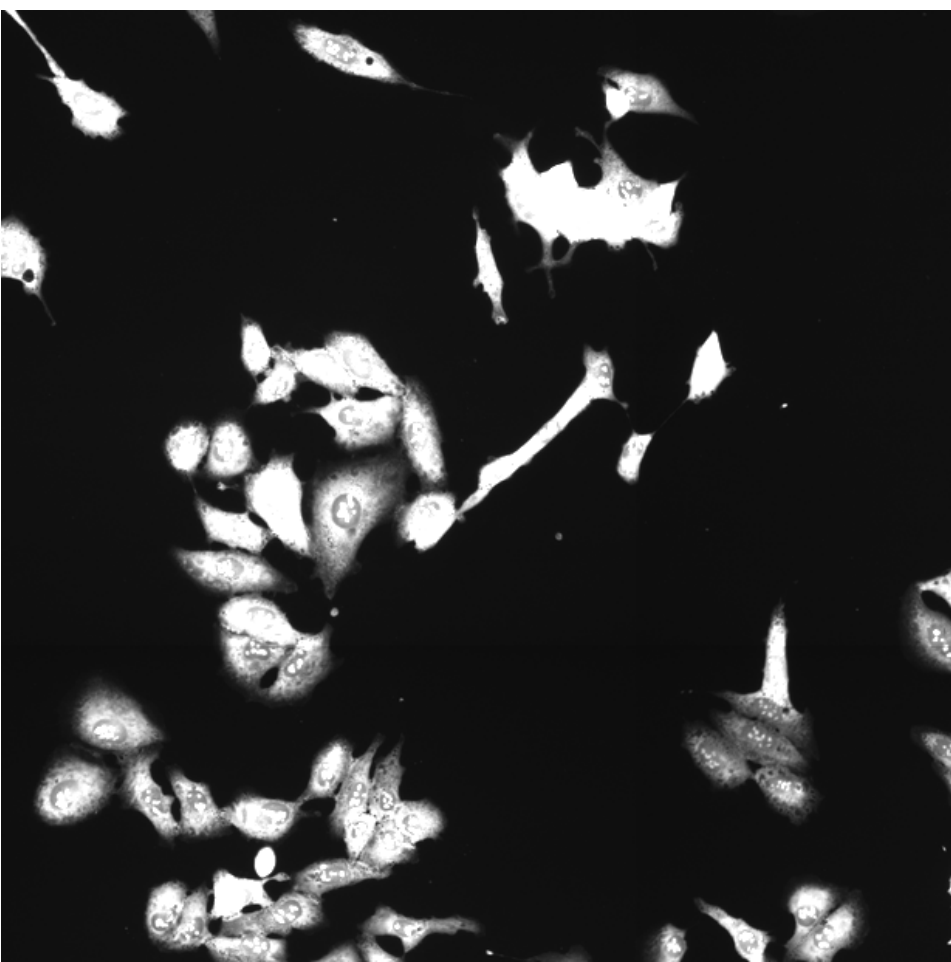
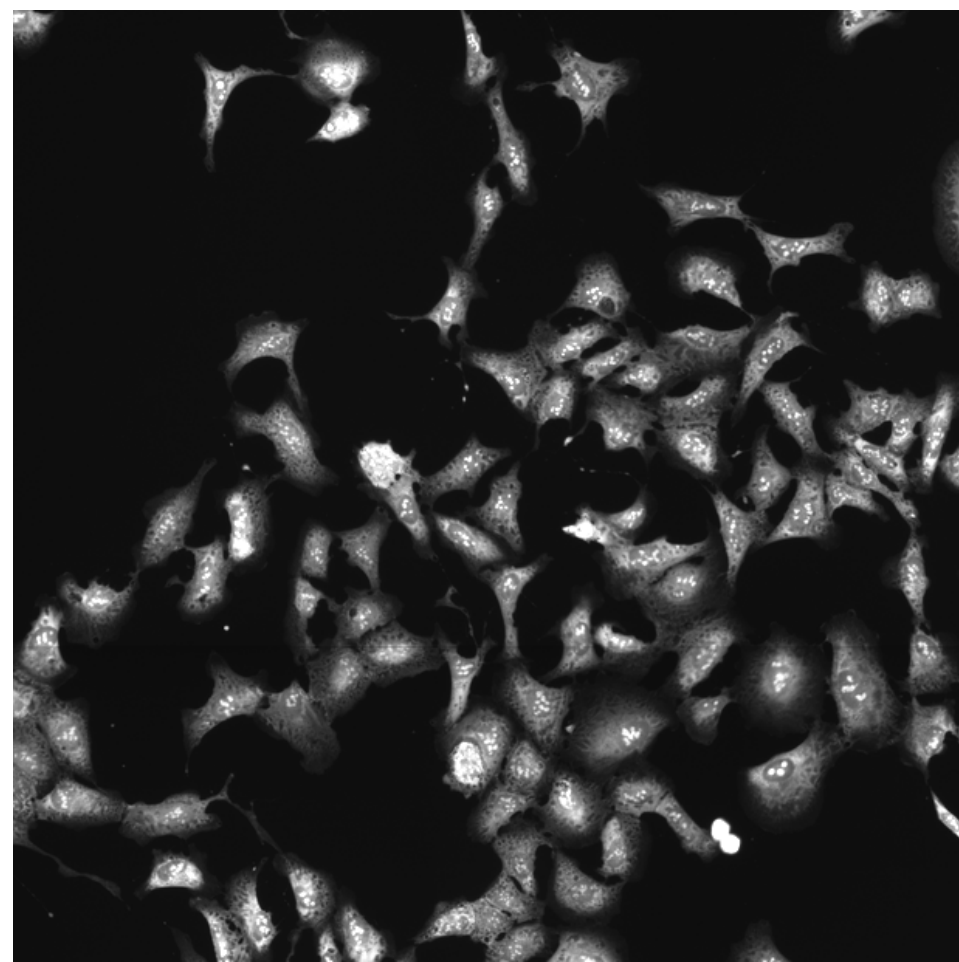
BRAF.V600E (41755)

BRAF.V600E (41756)

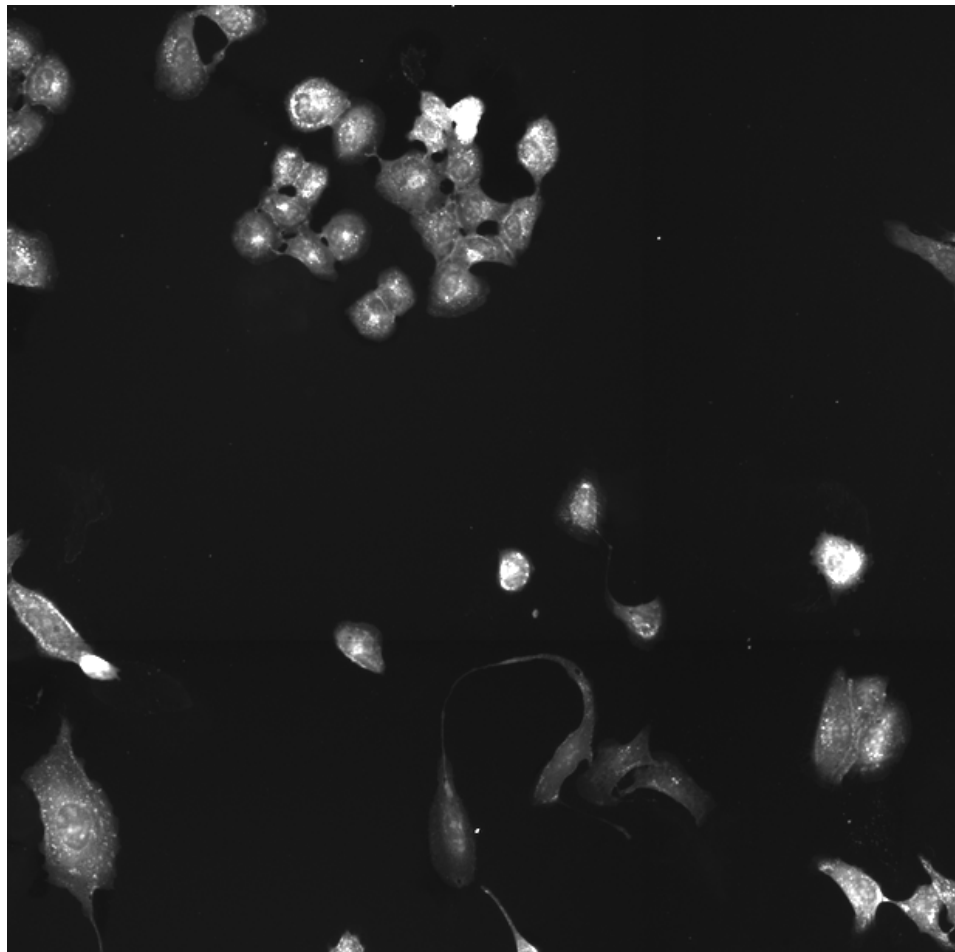
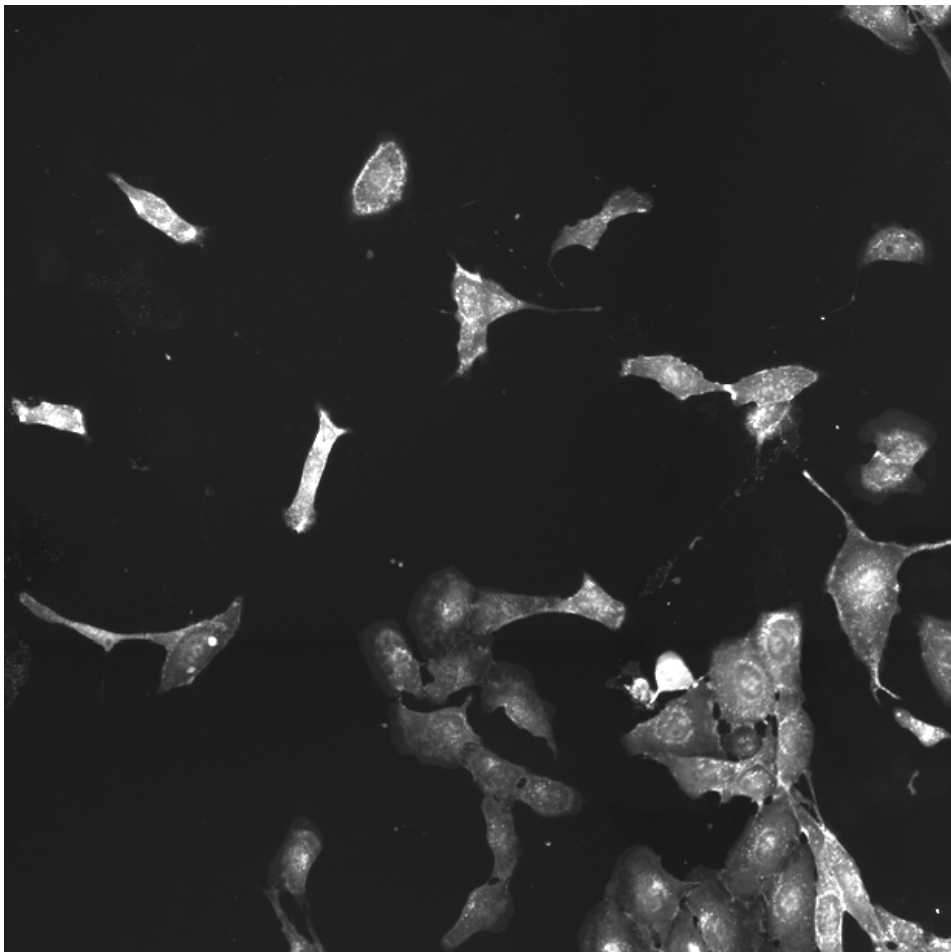
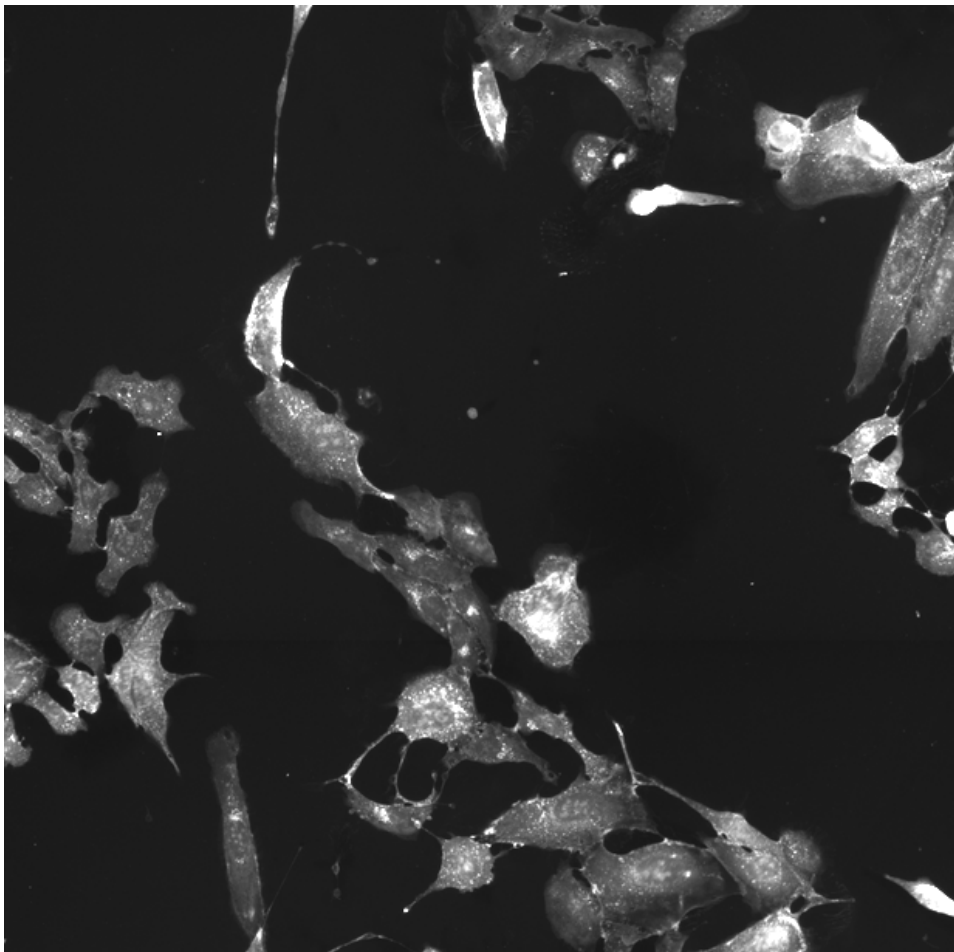
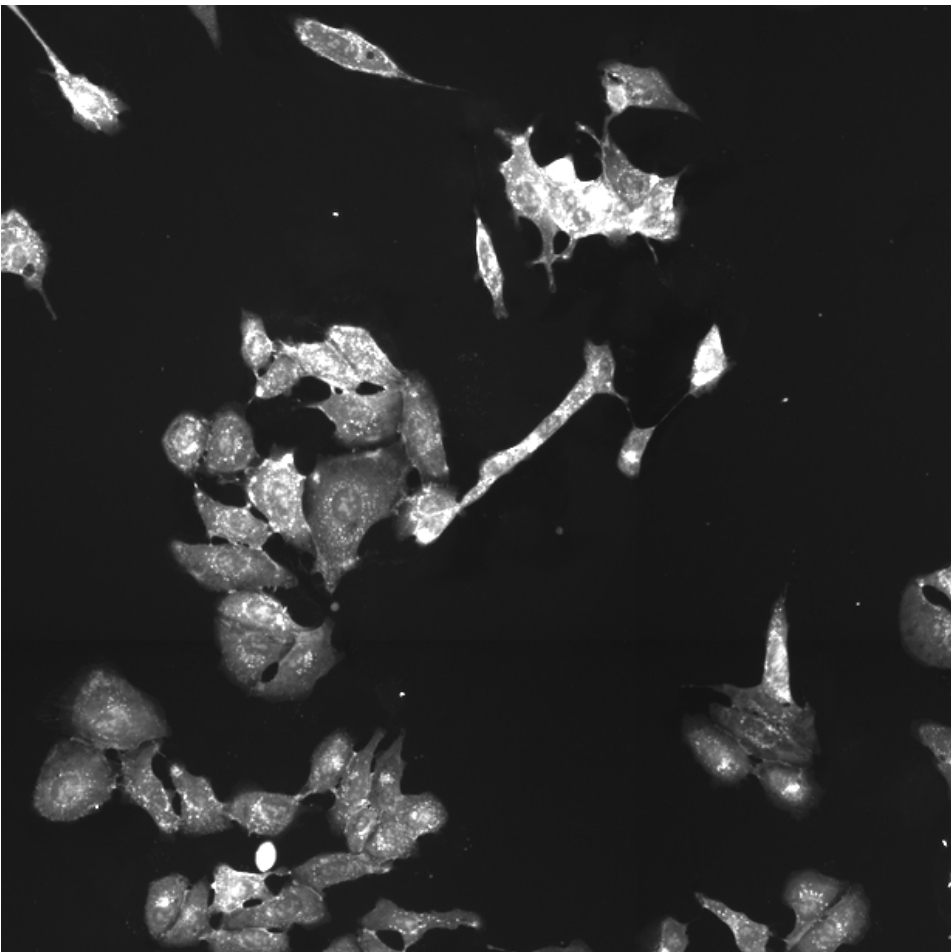
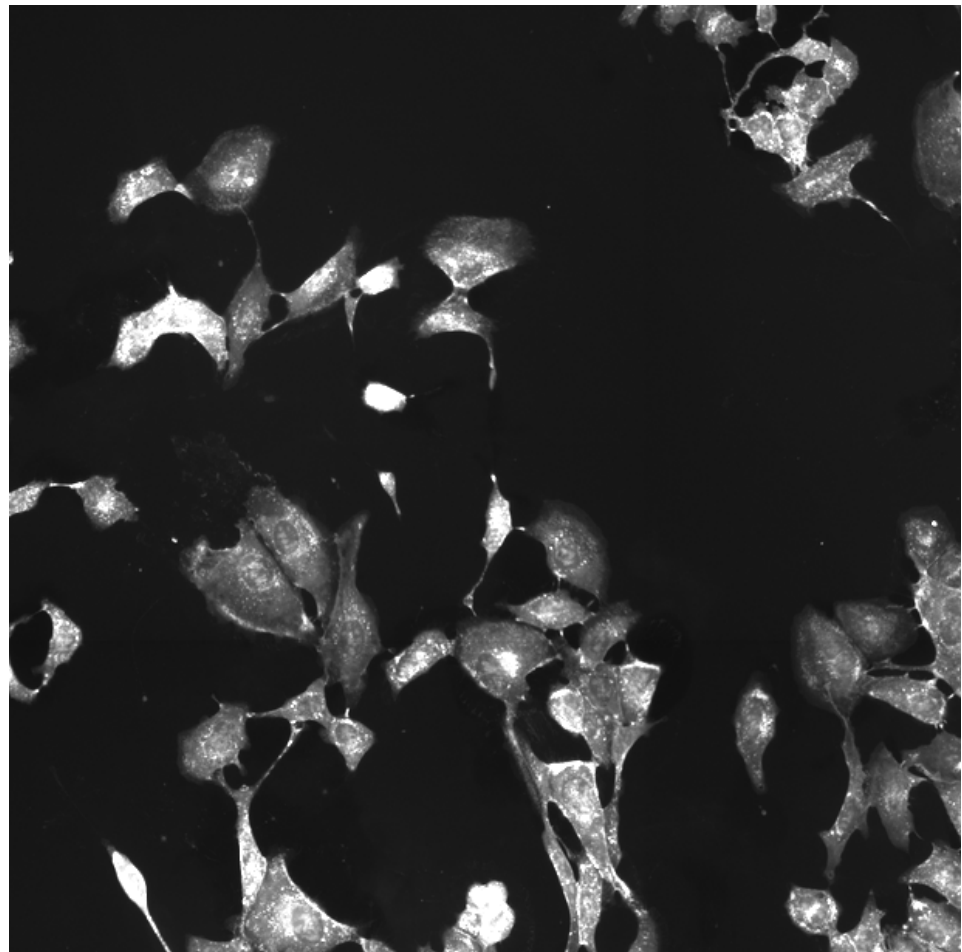
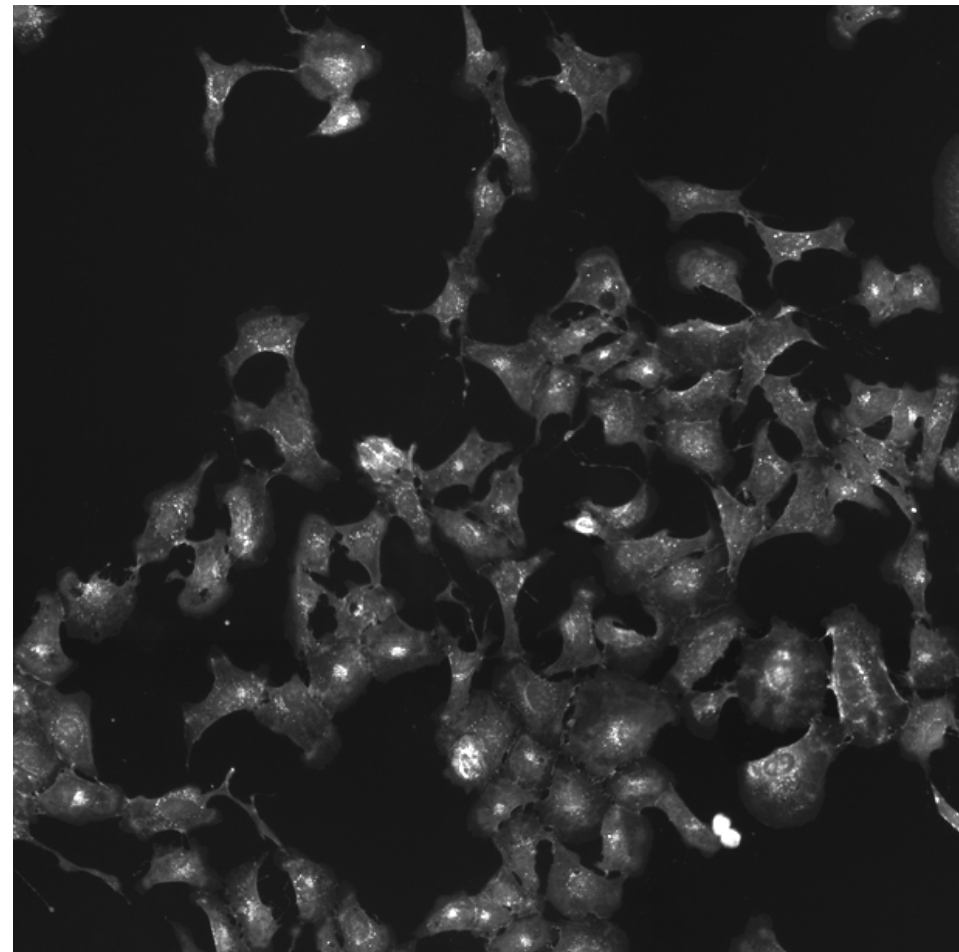
BRAF.V600E (41757)

BRAF.V600E (41754)

RNA

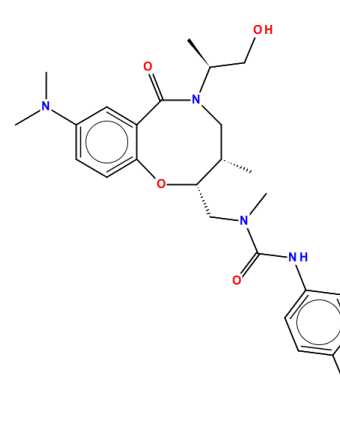
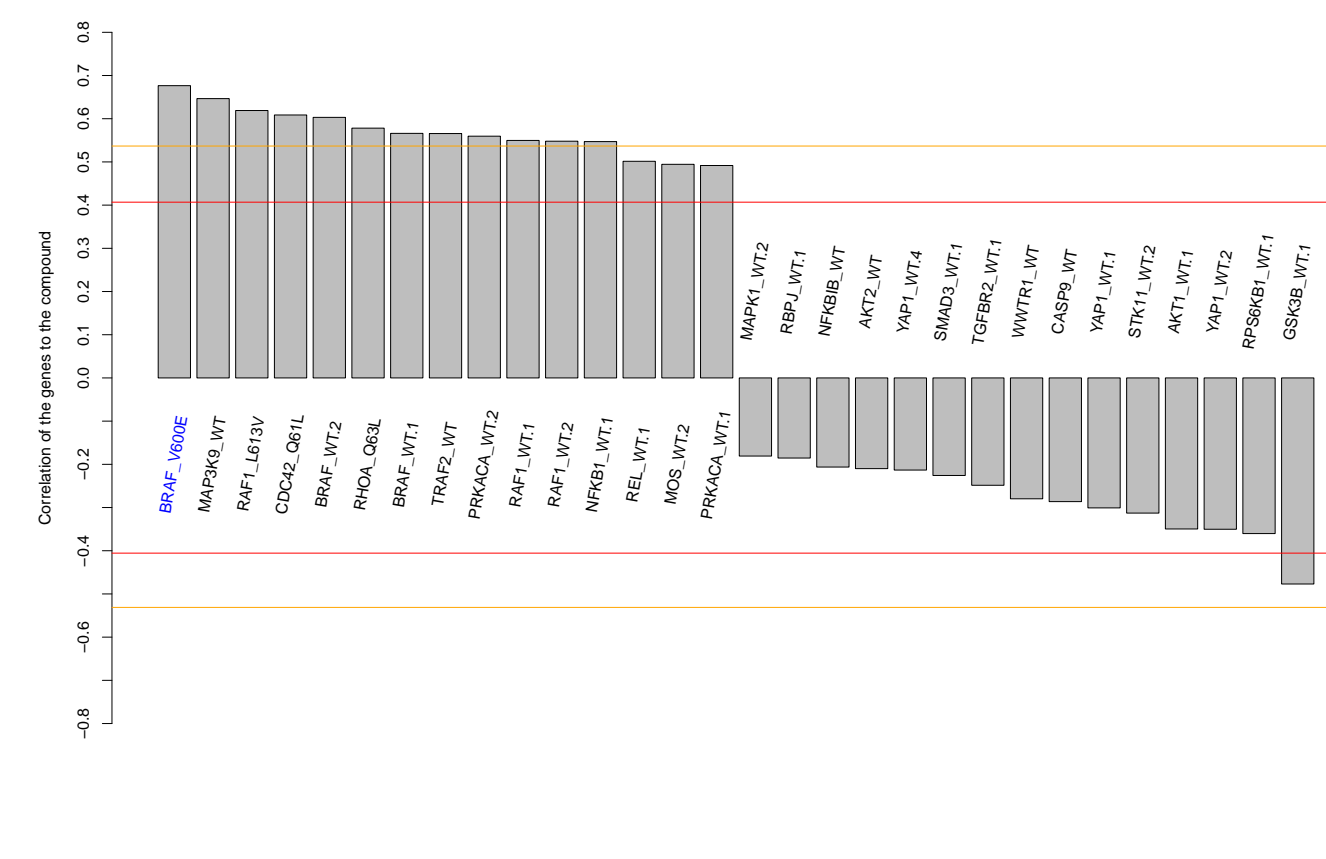
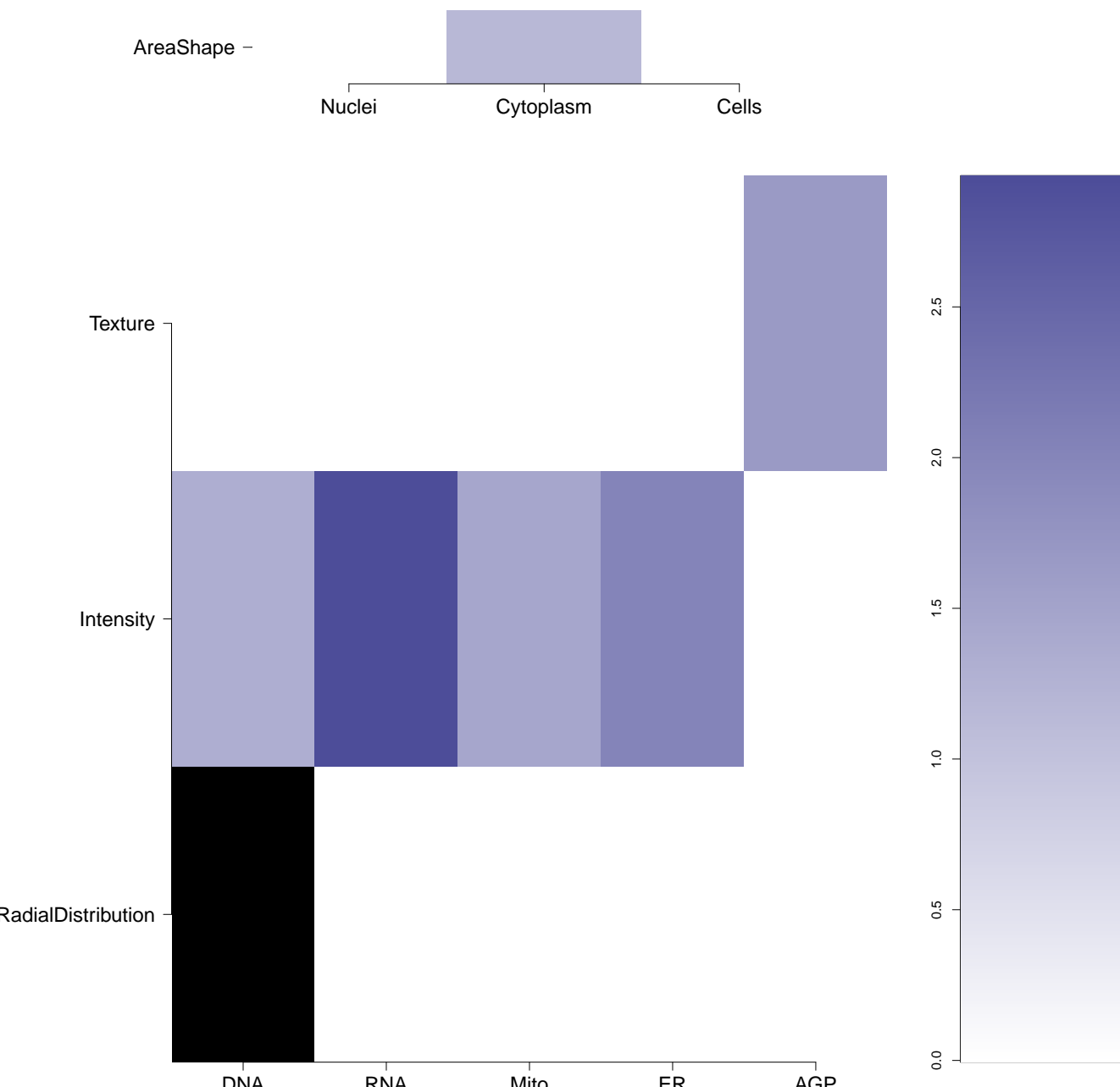
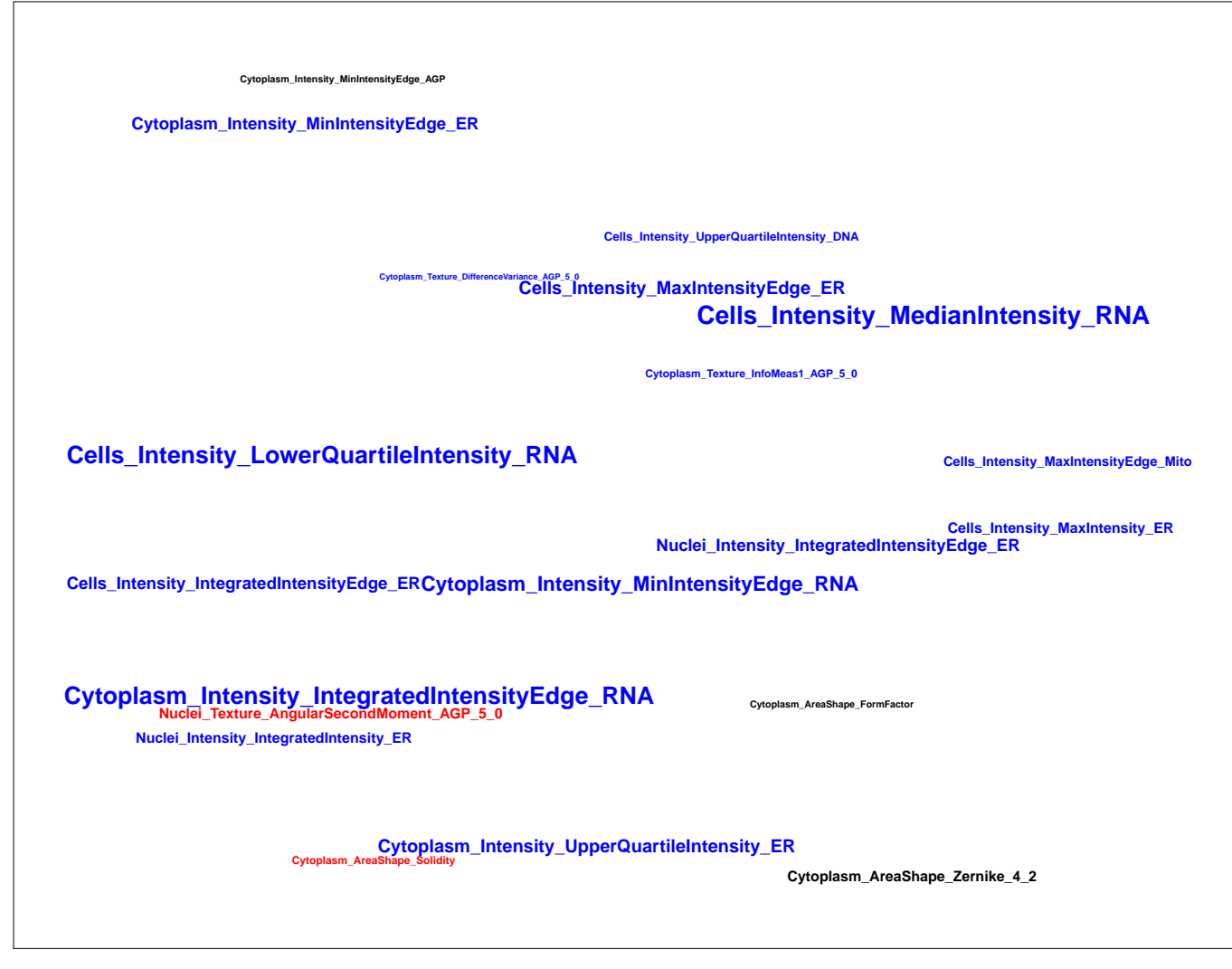
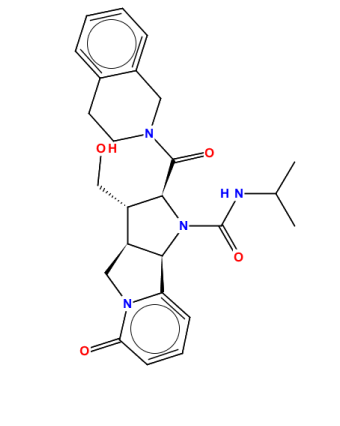
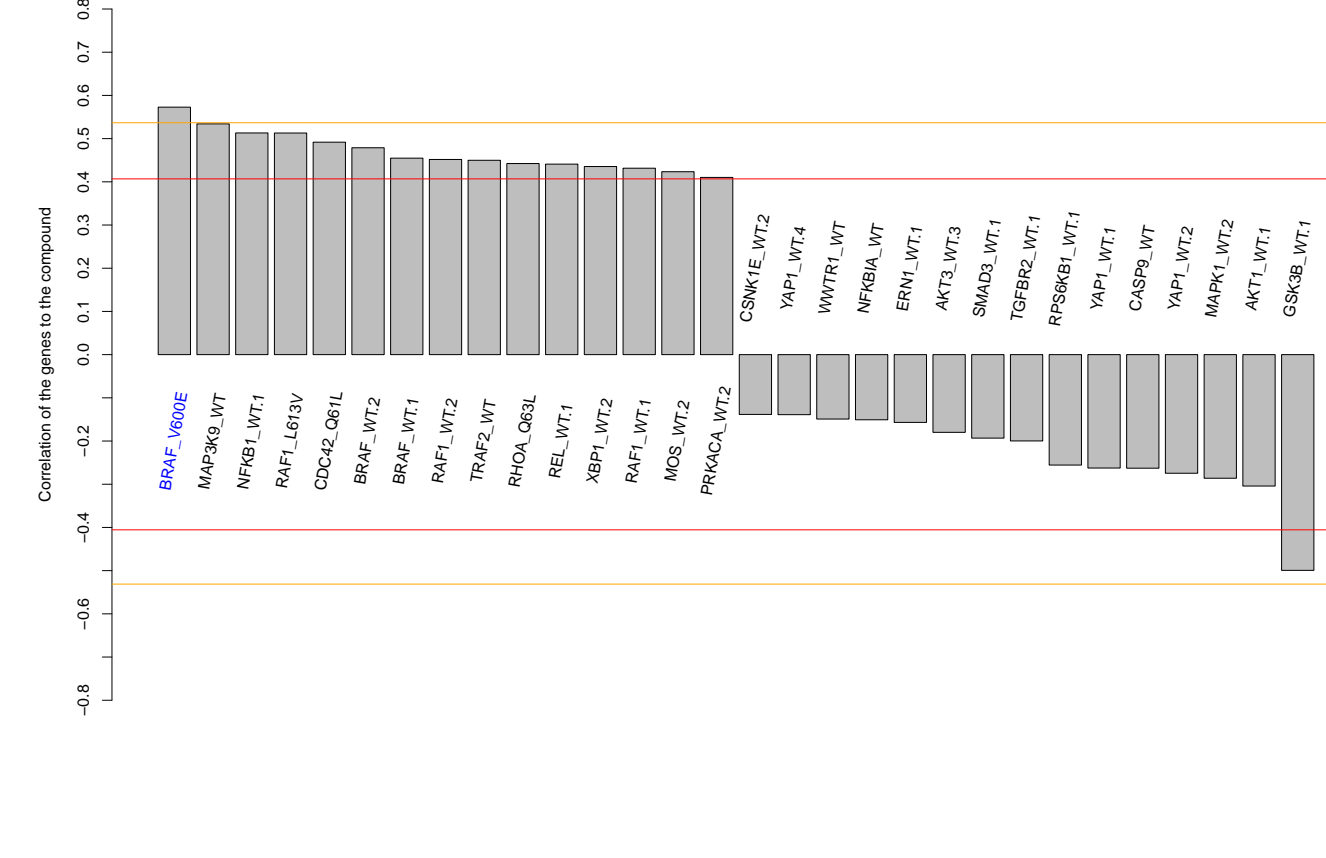
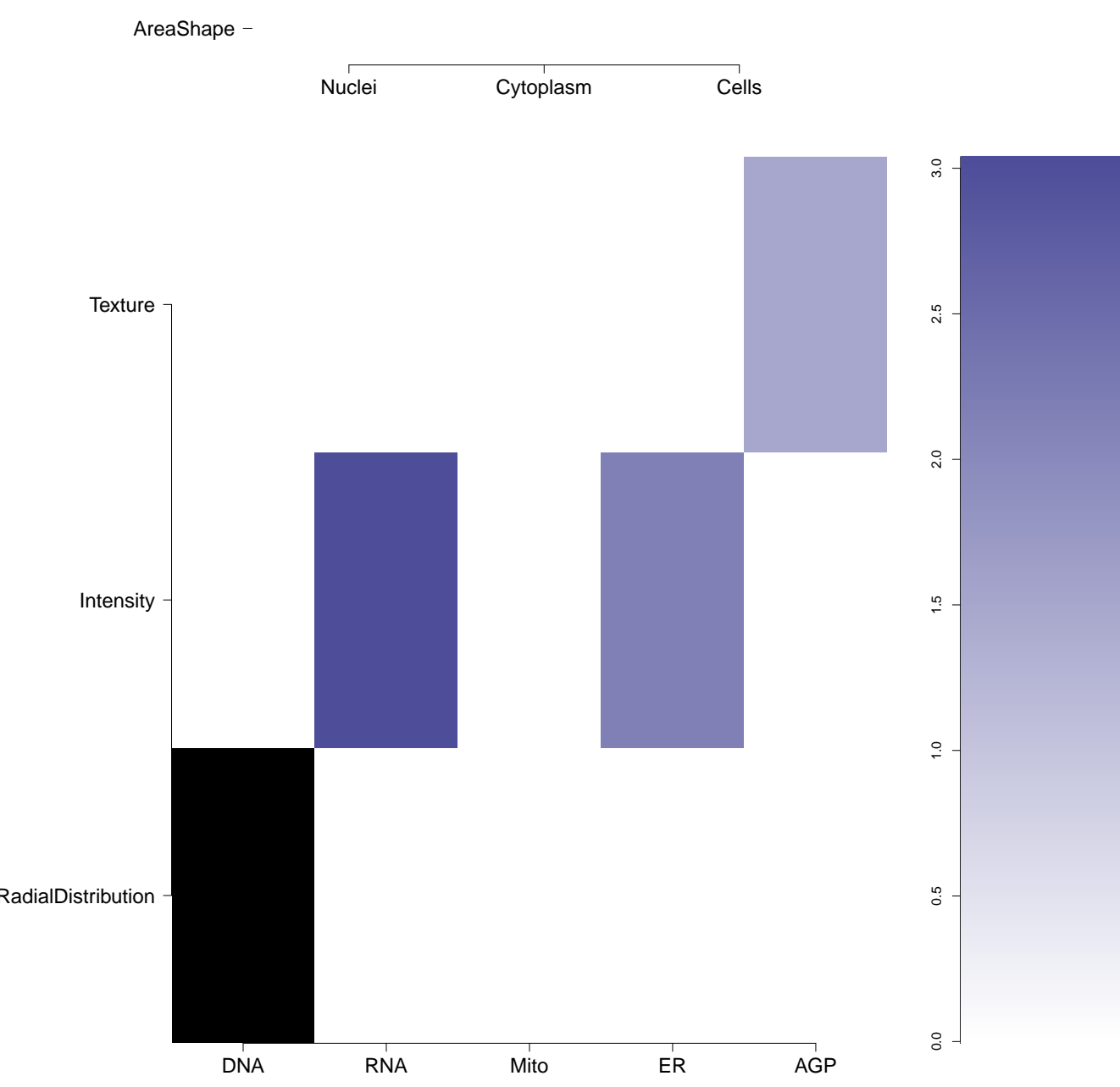

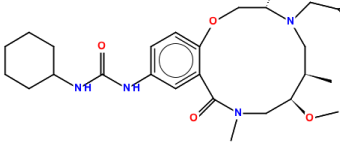
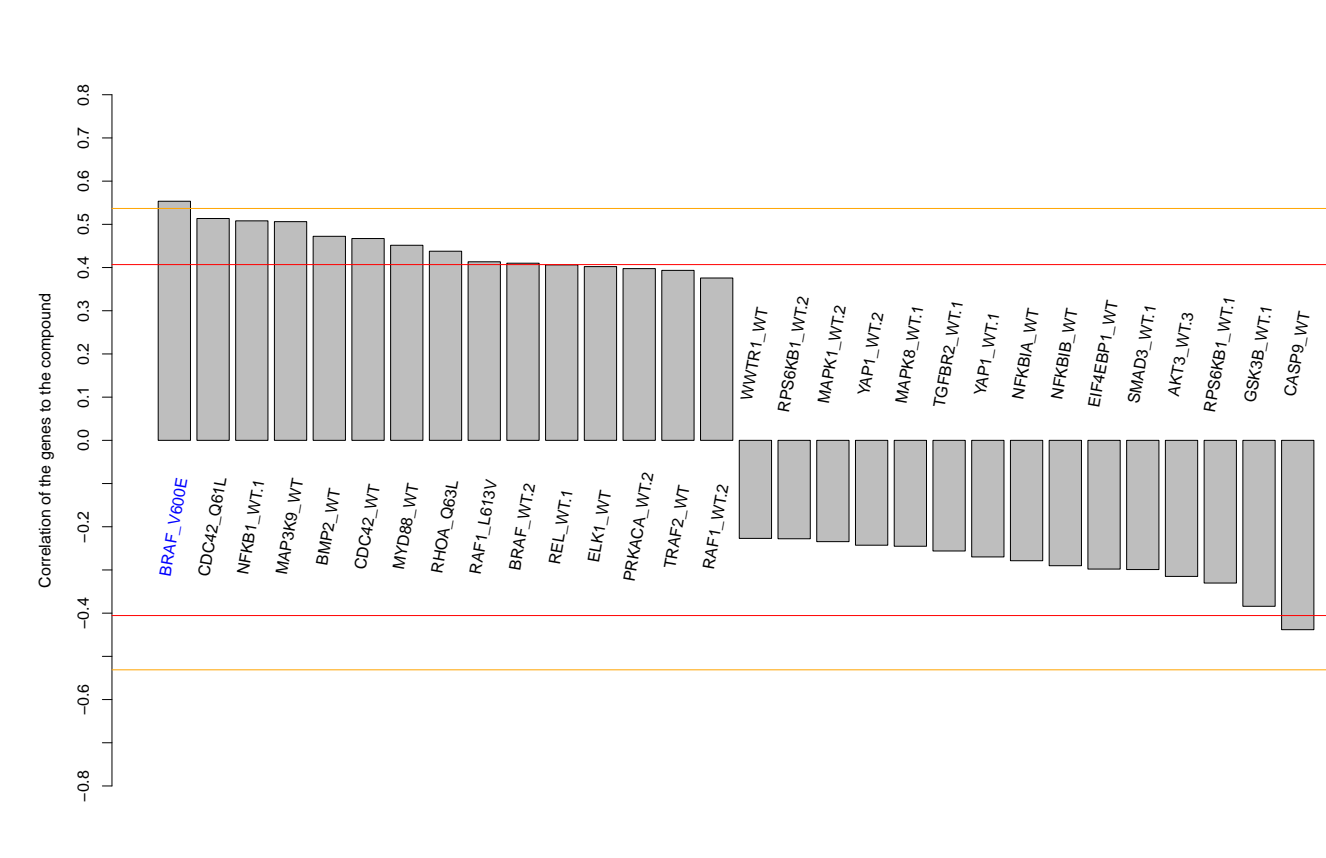
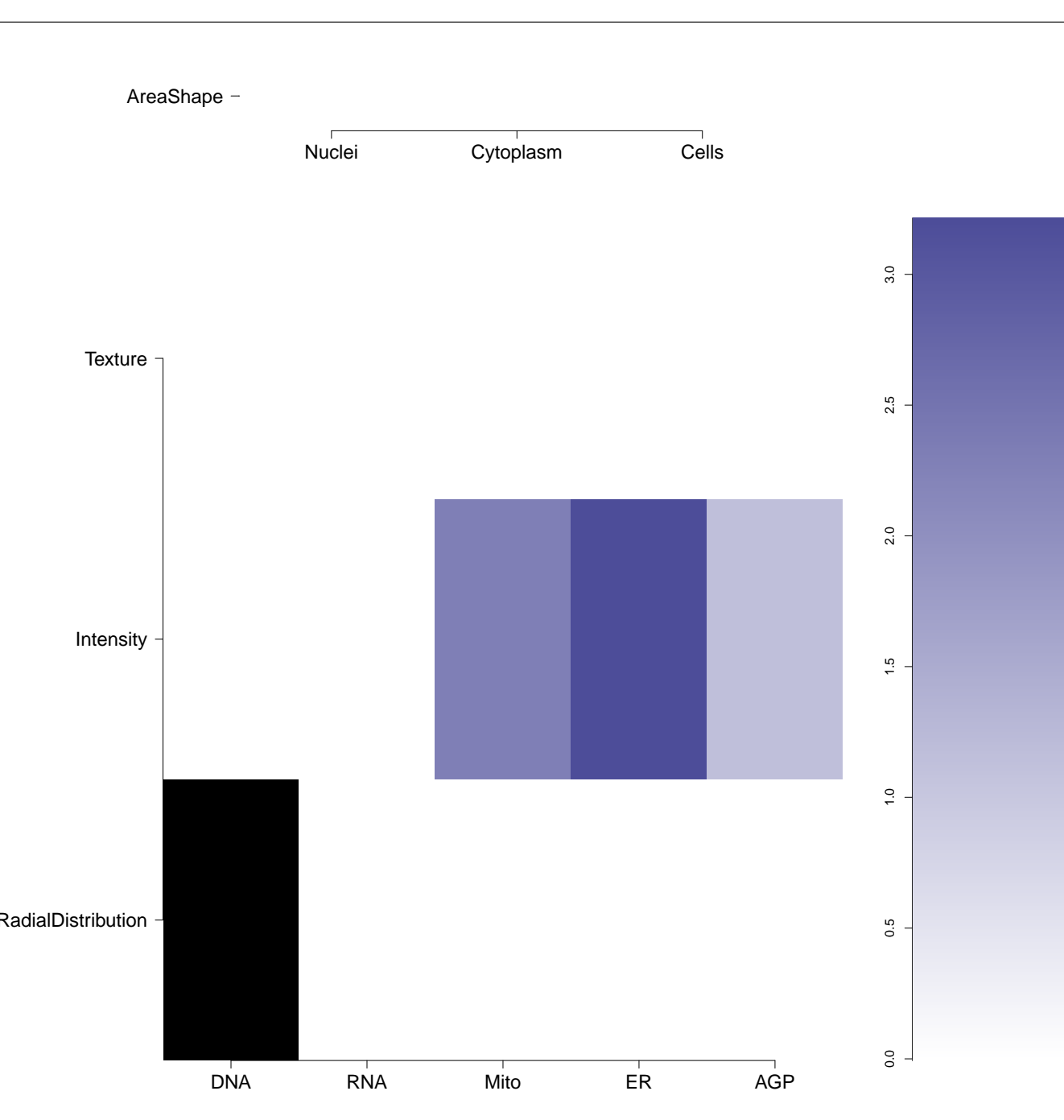

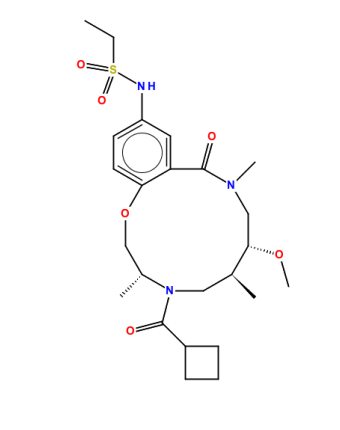
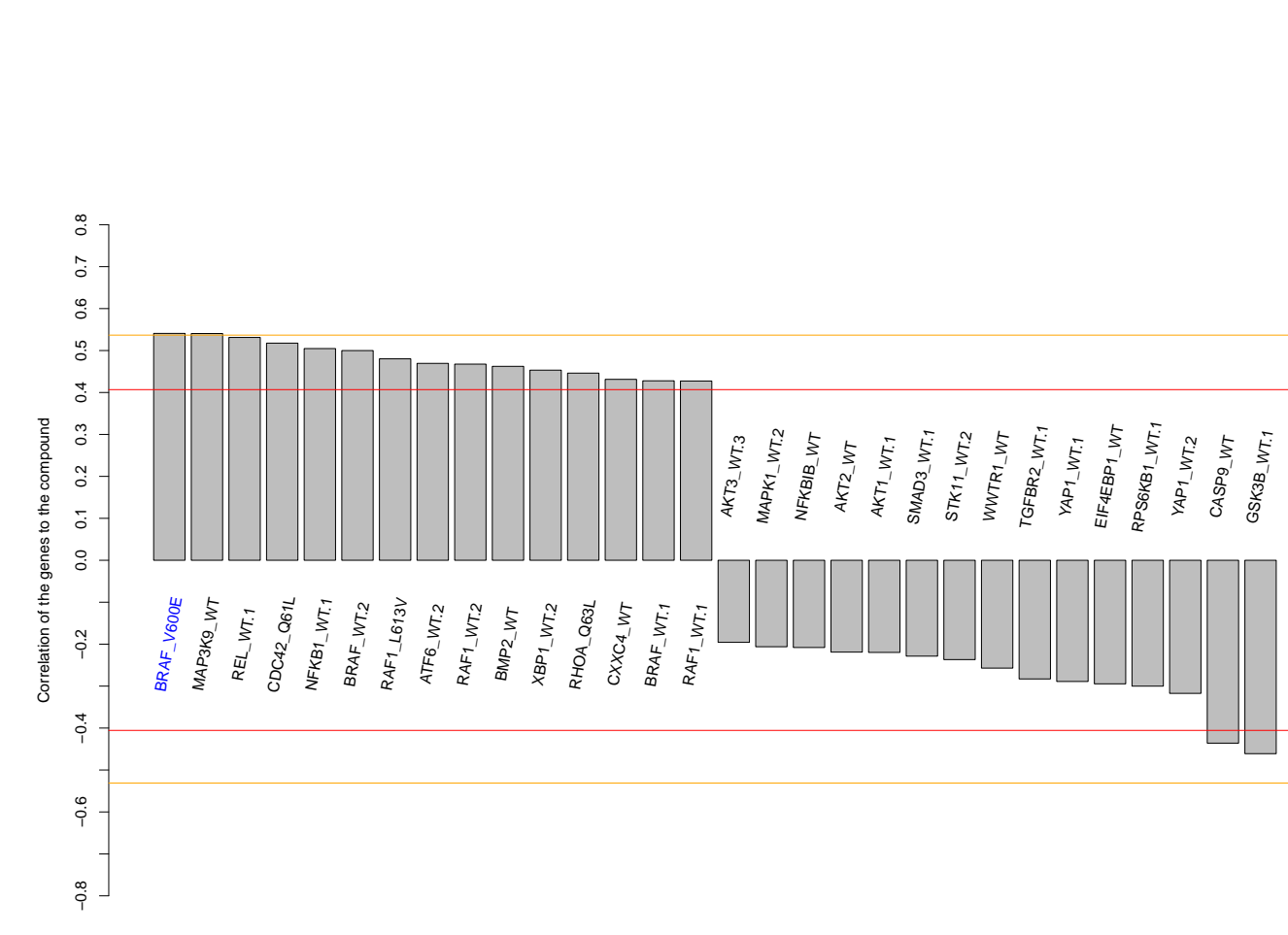
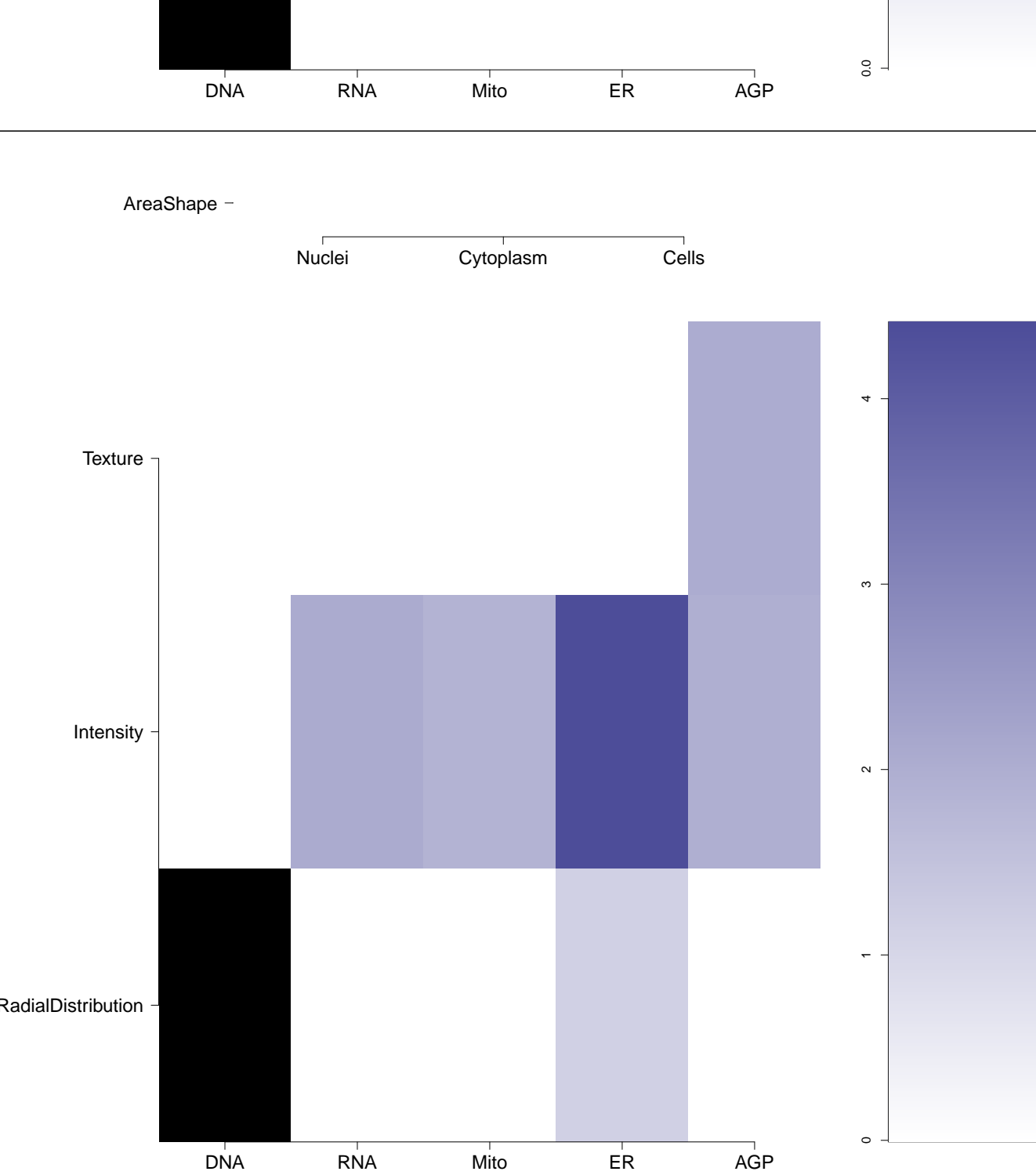
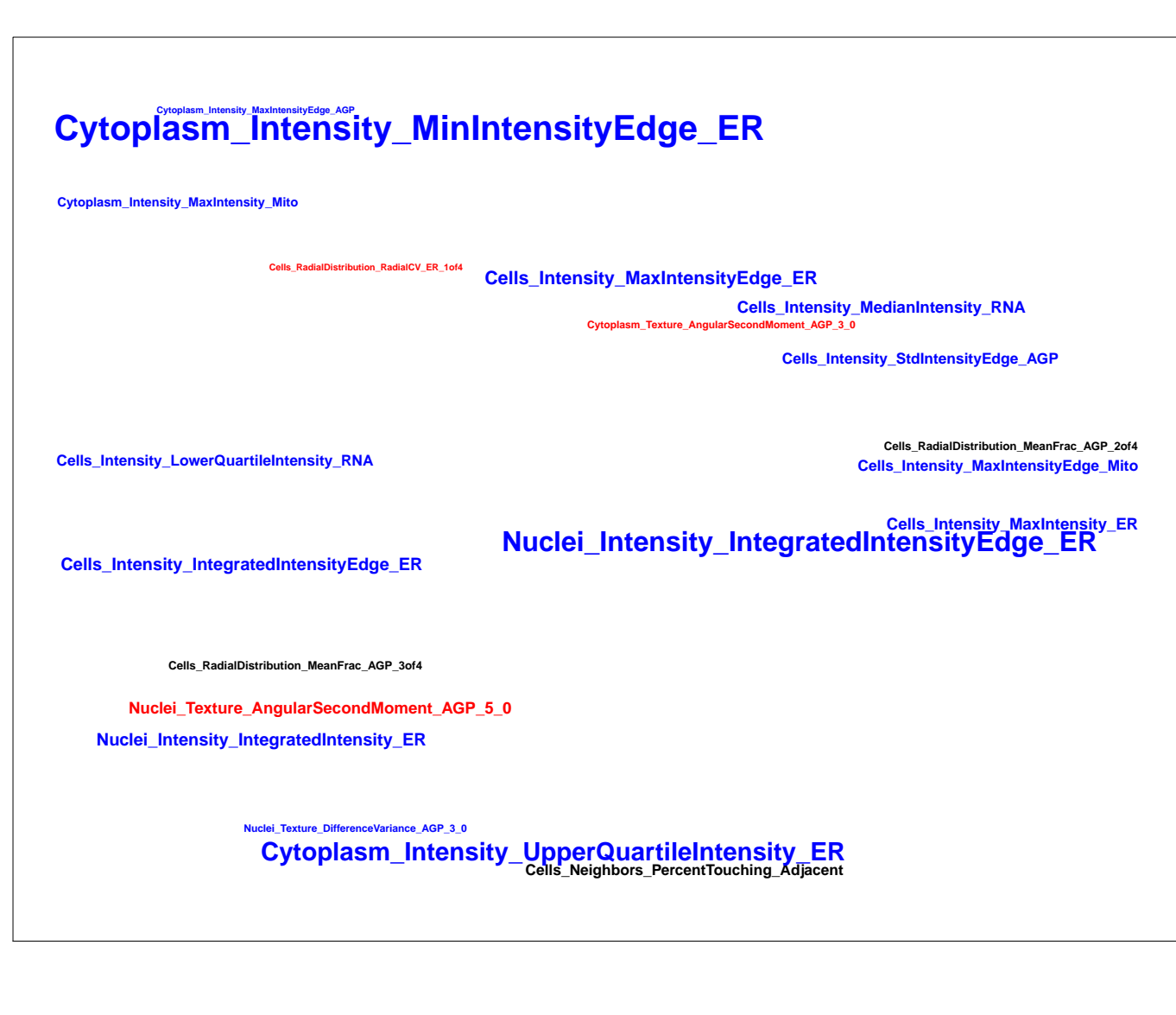
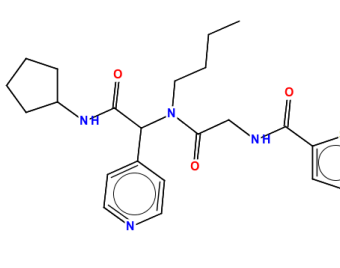
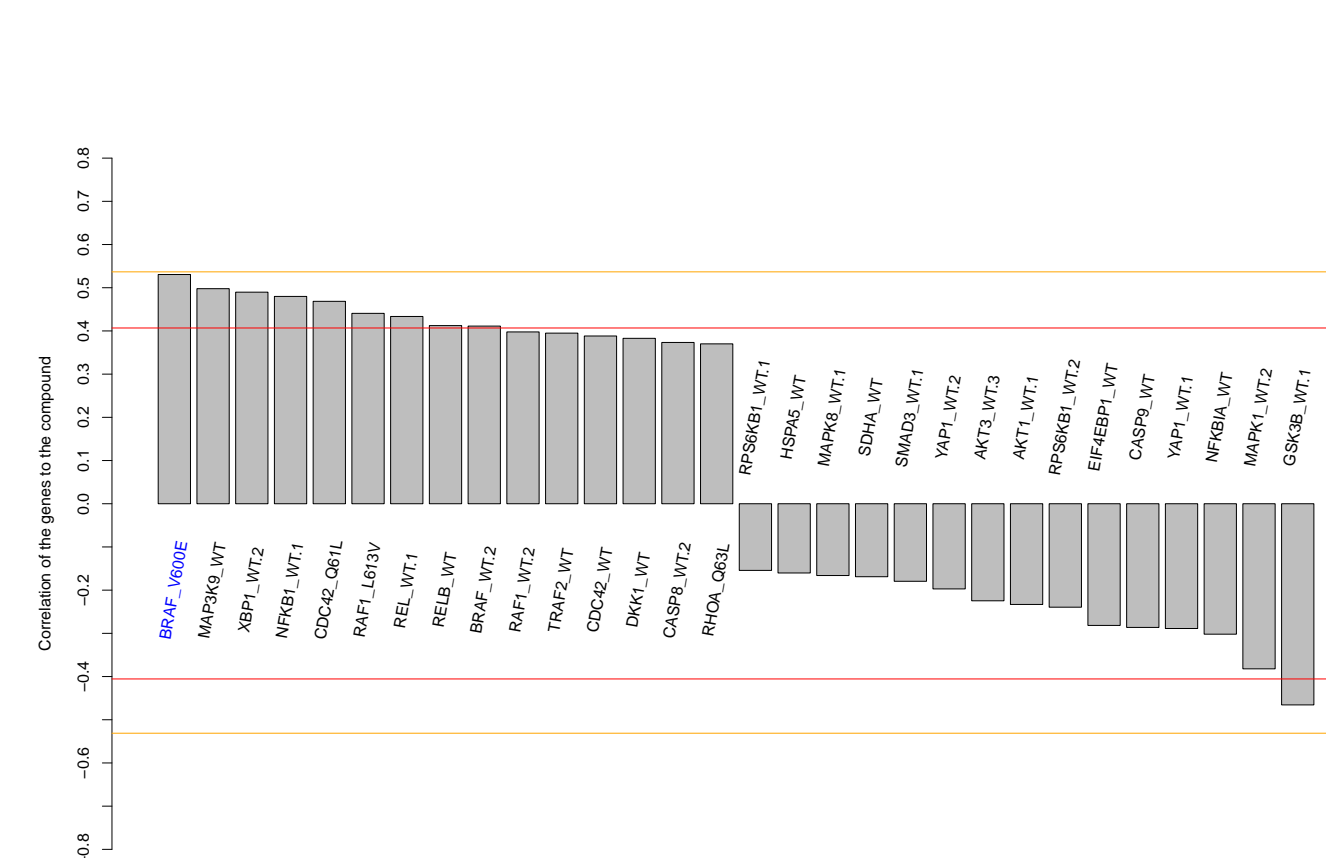
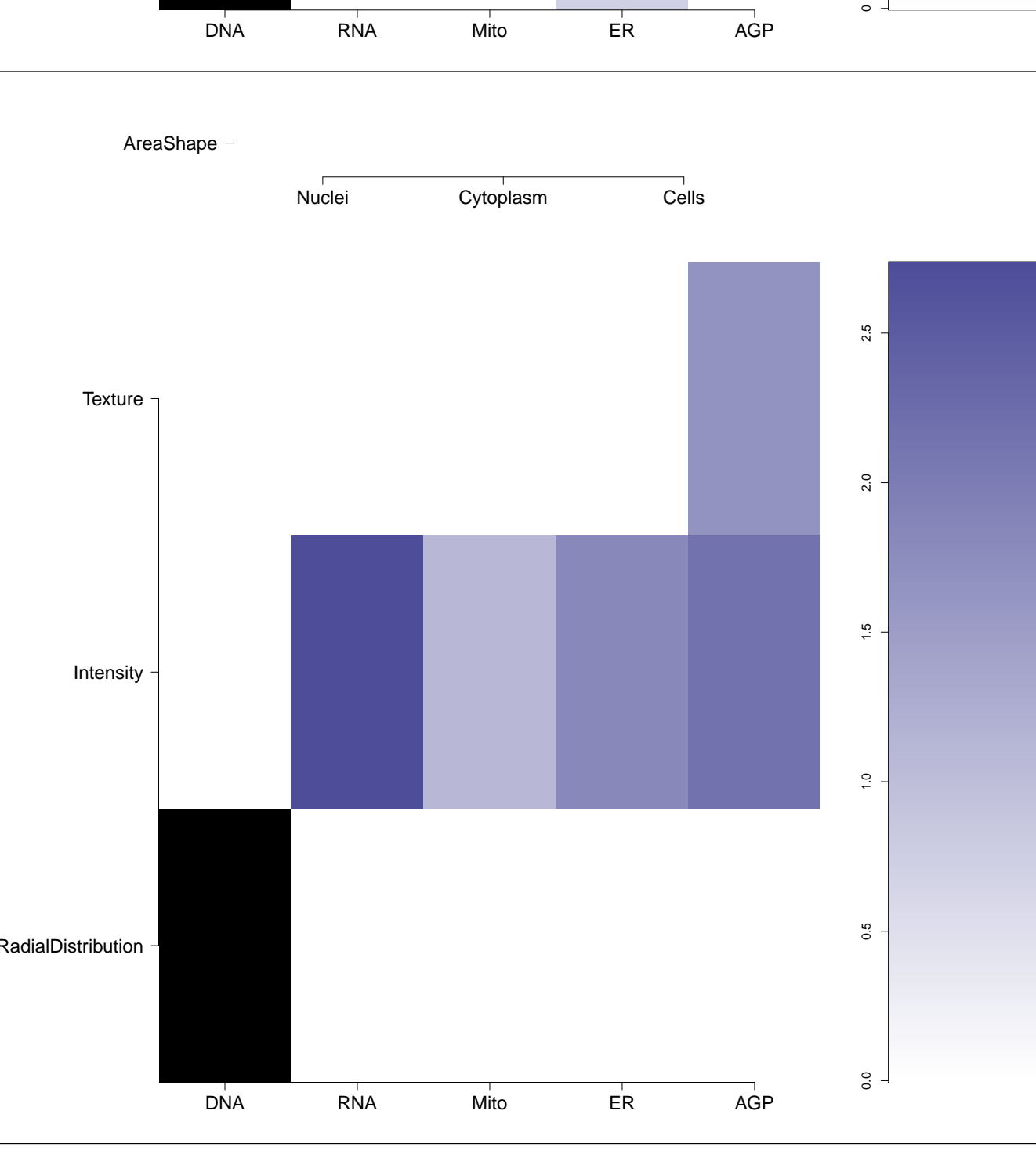
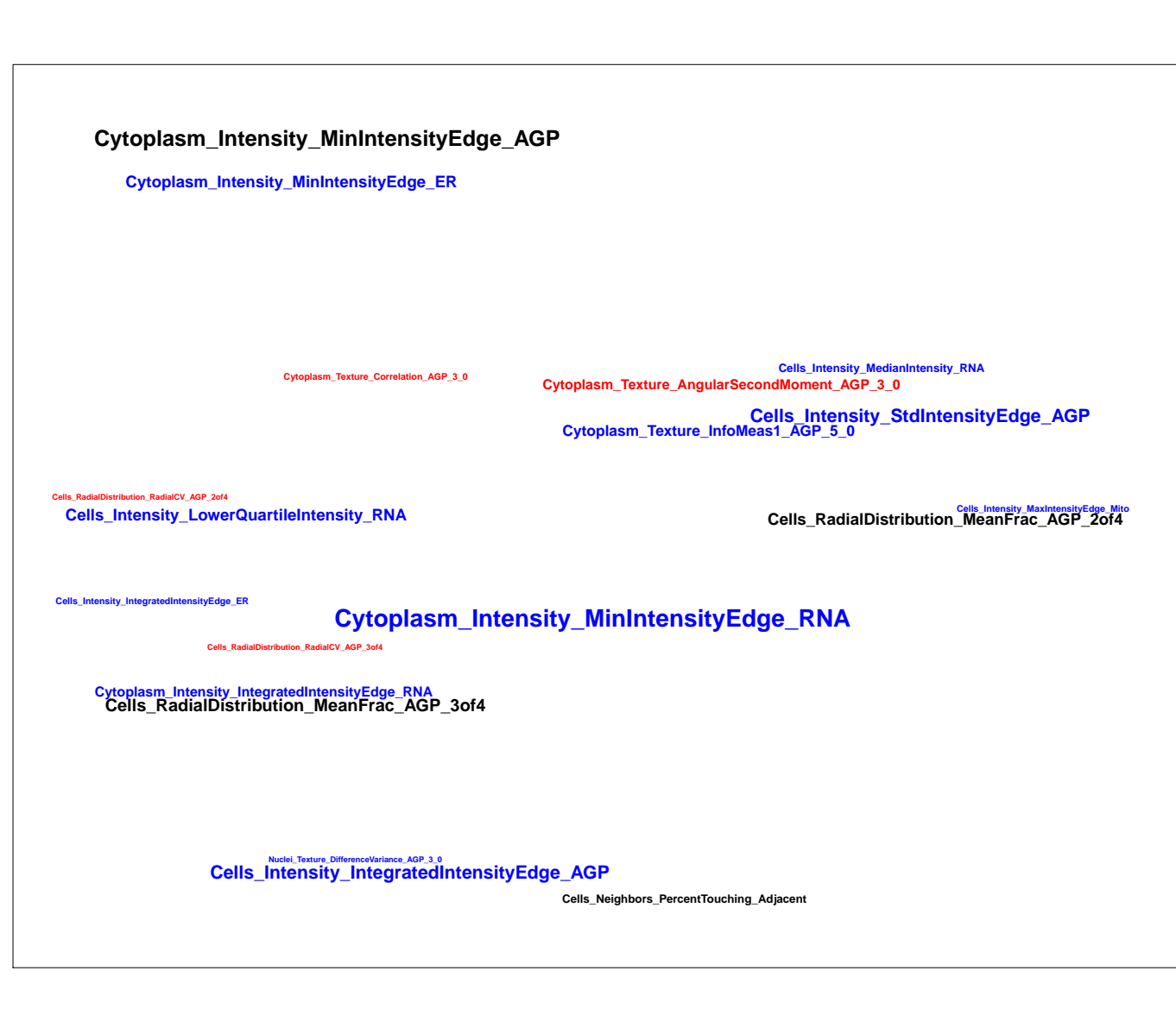
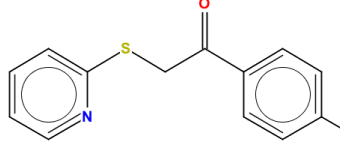
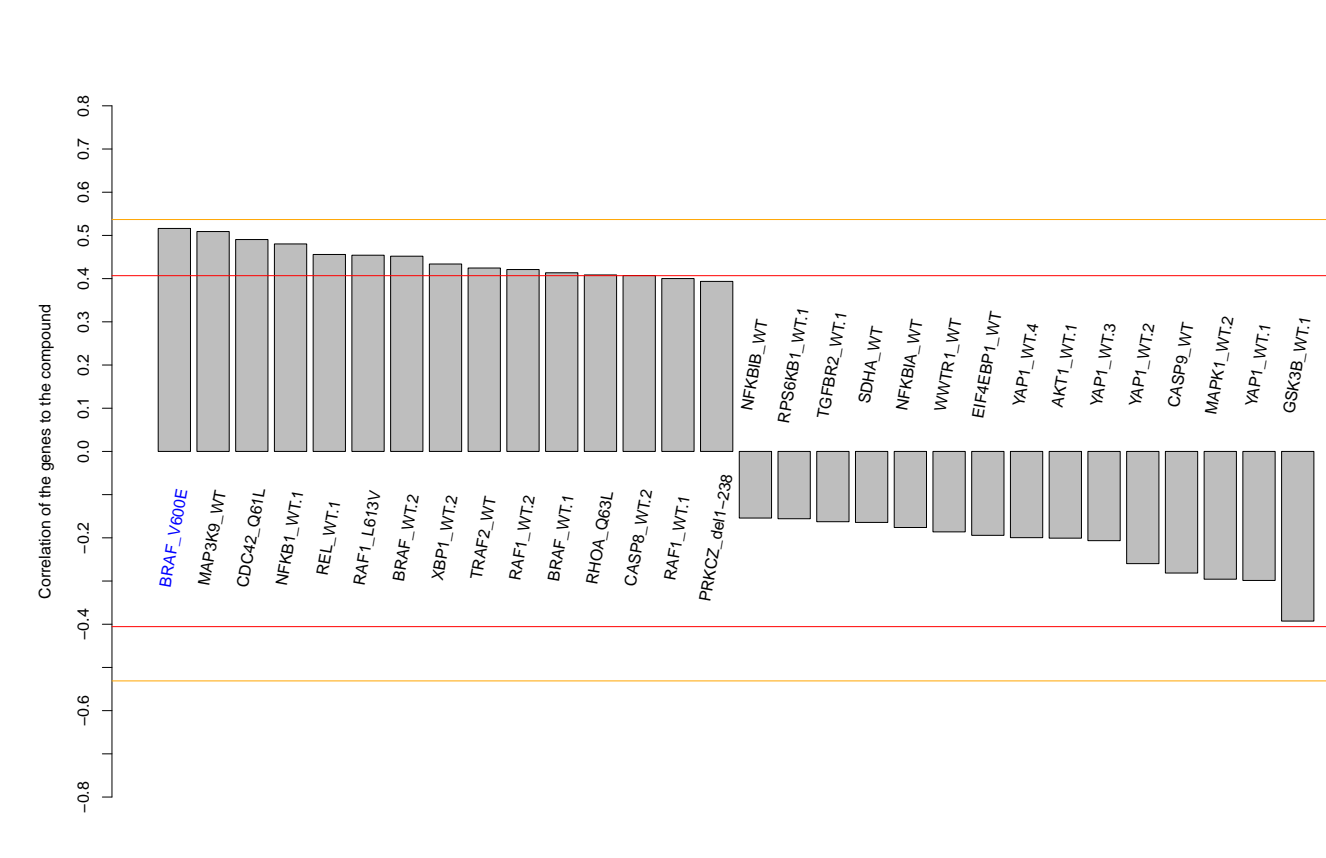
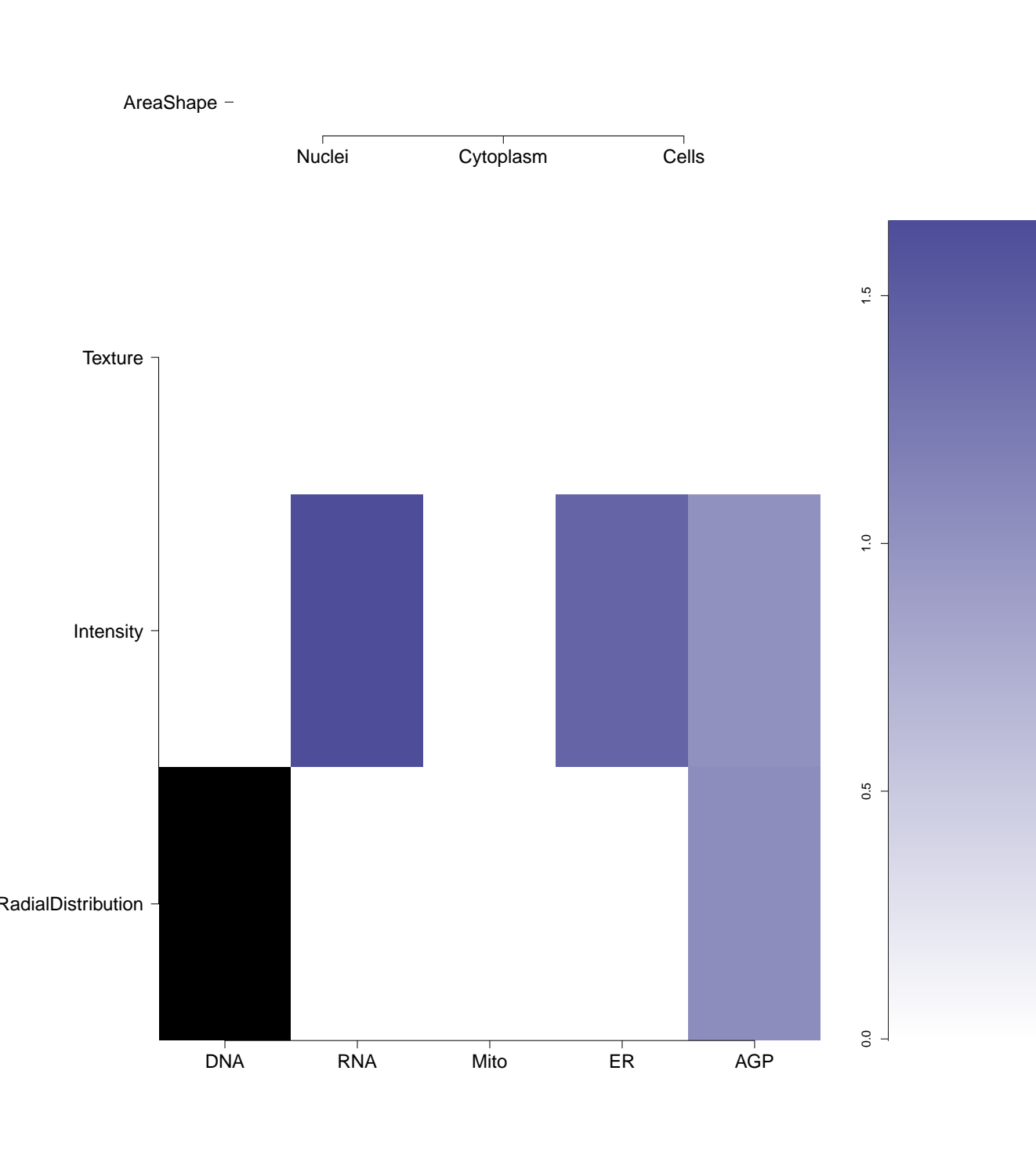
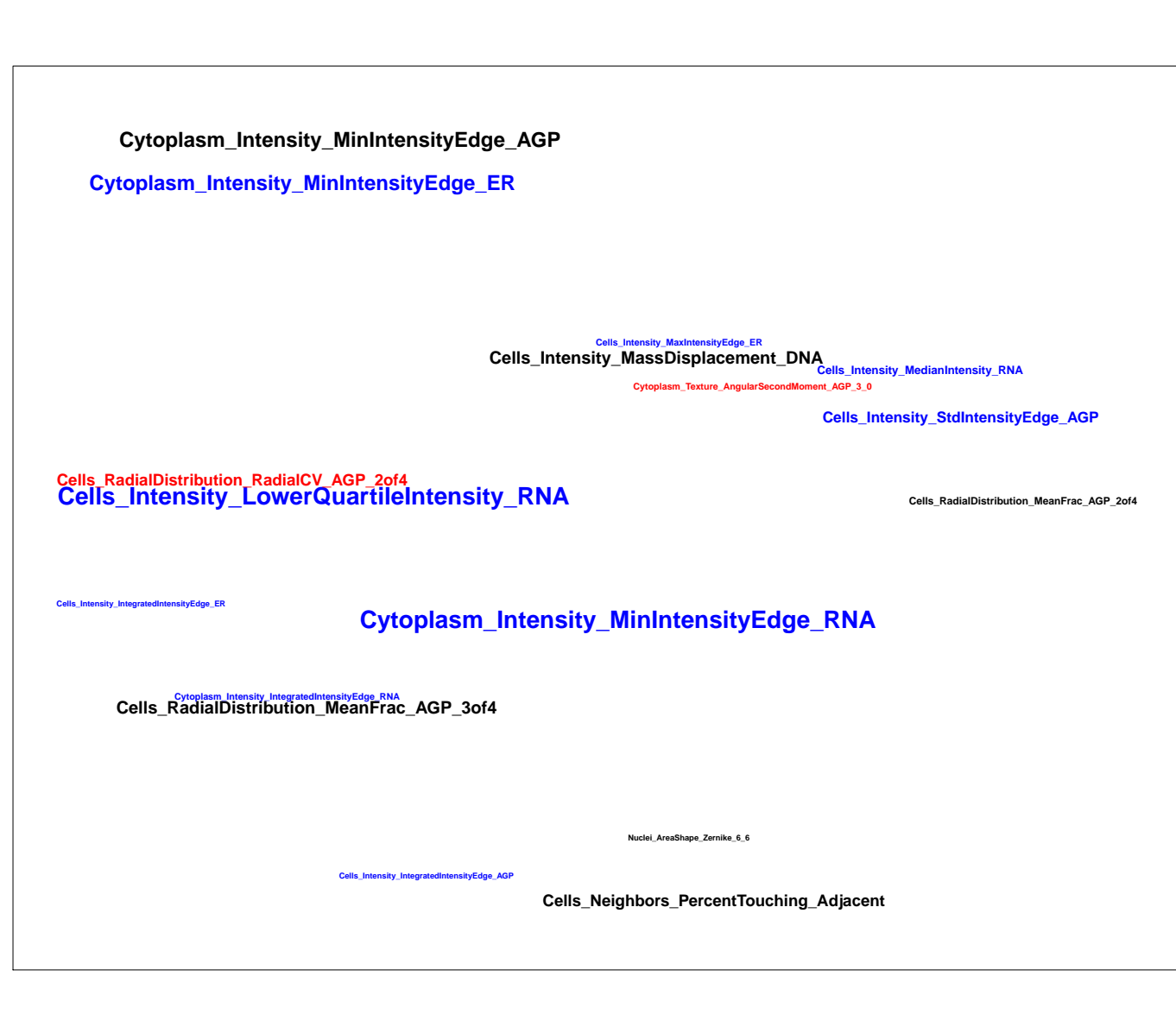


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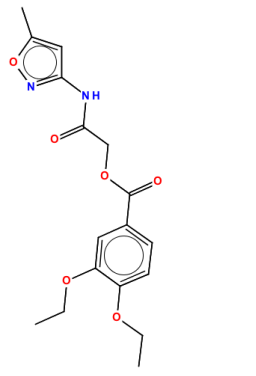
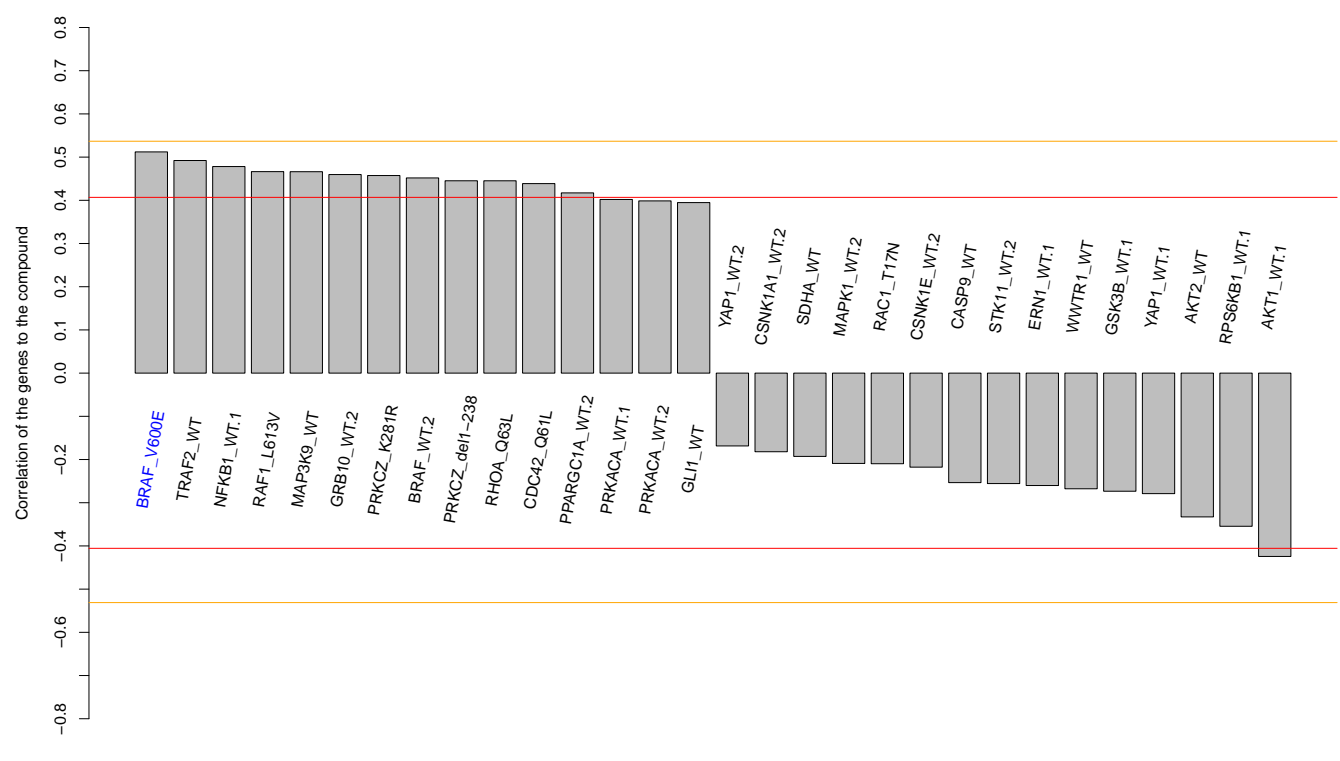
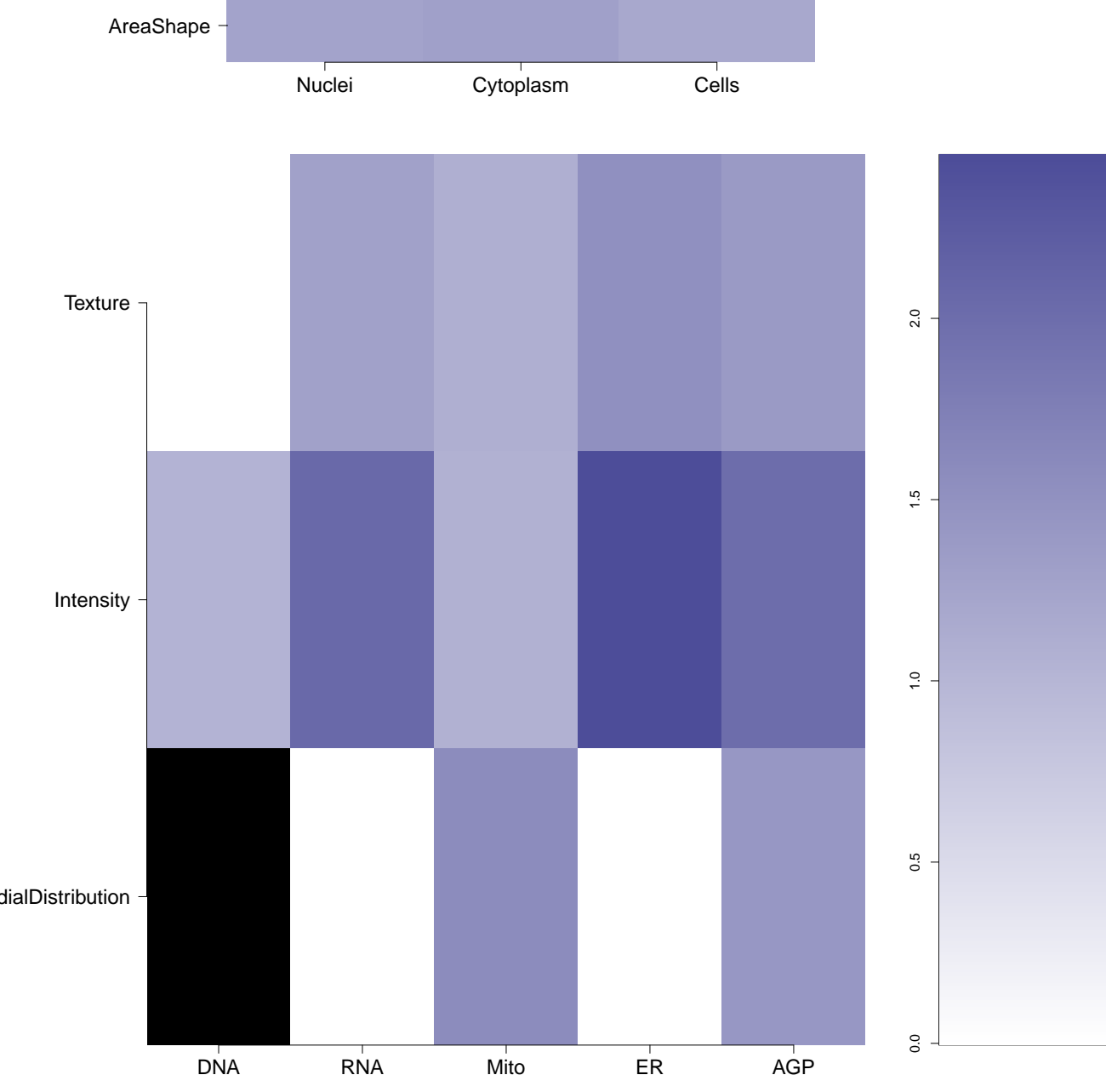

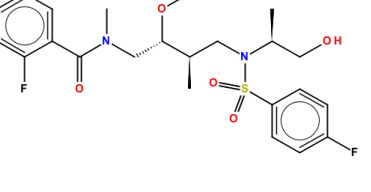
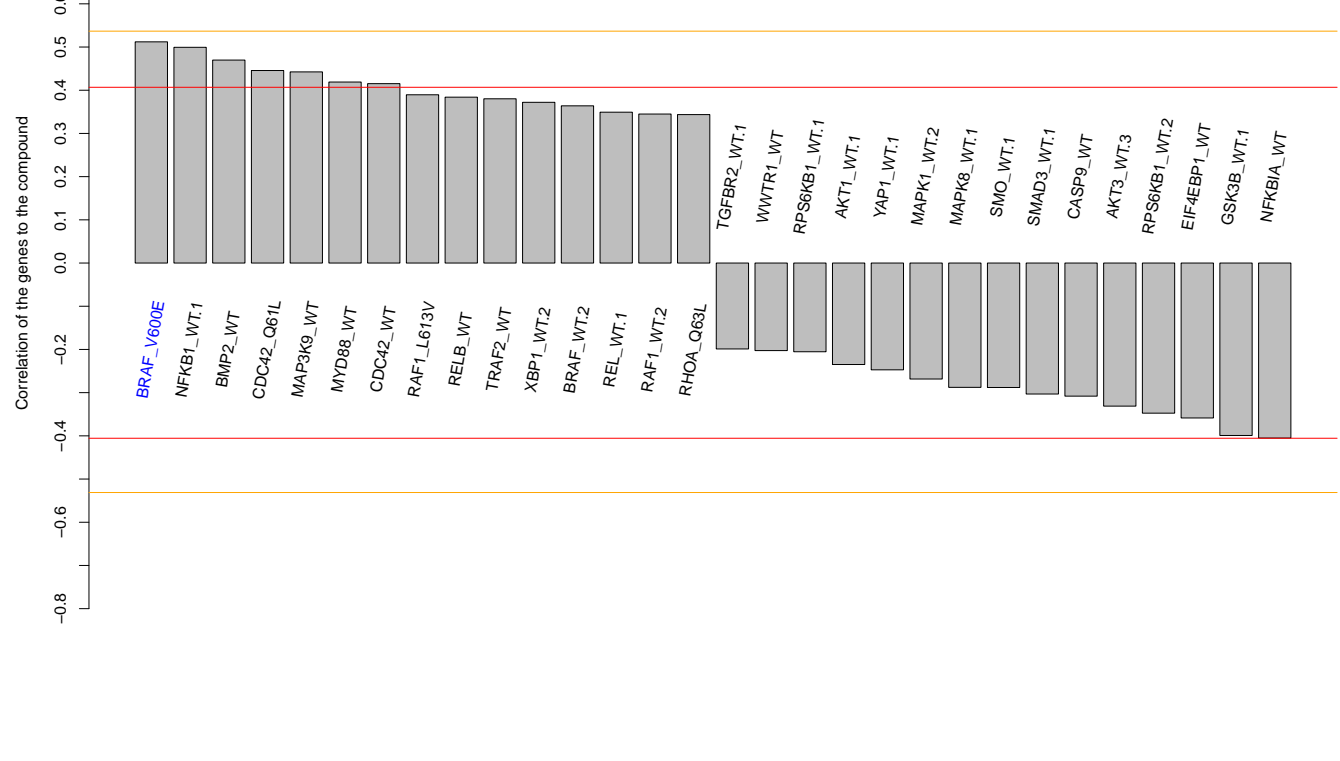
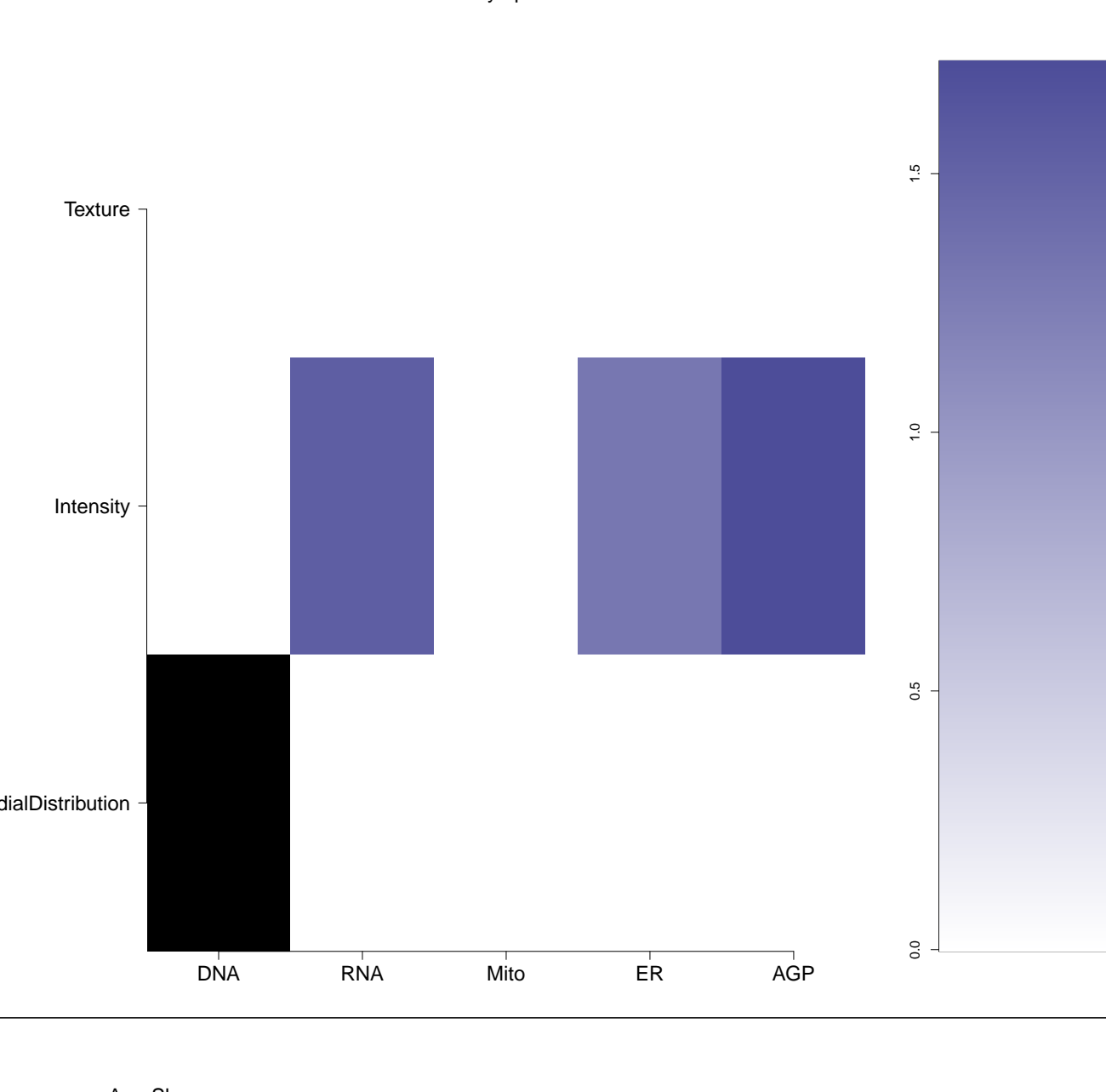
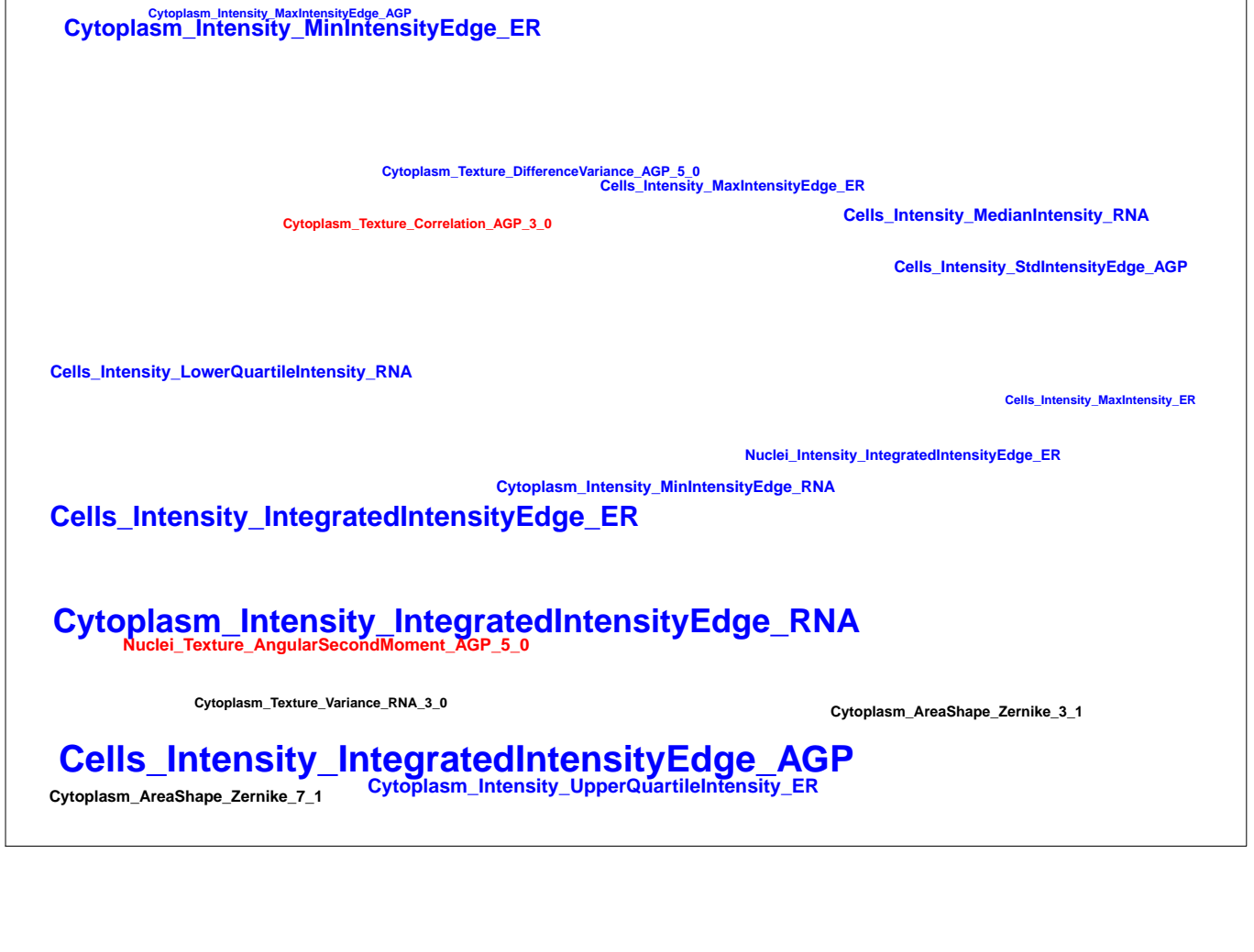
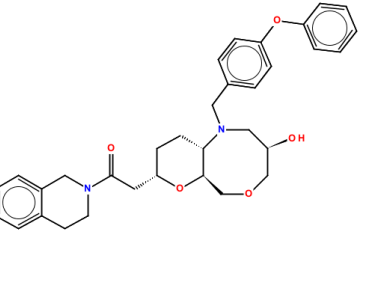
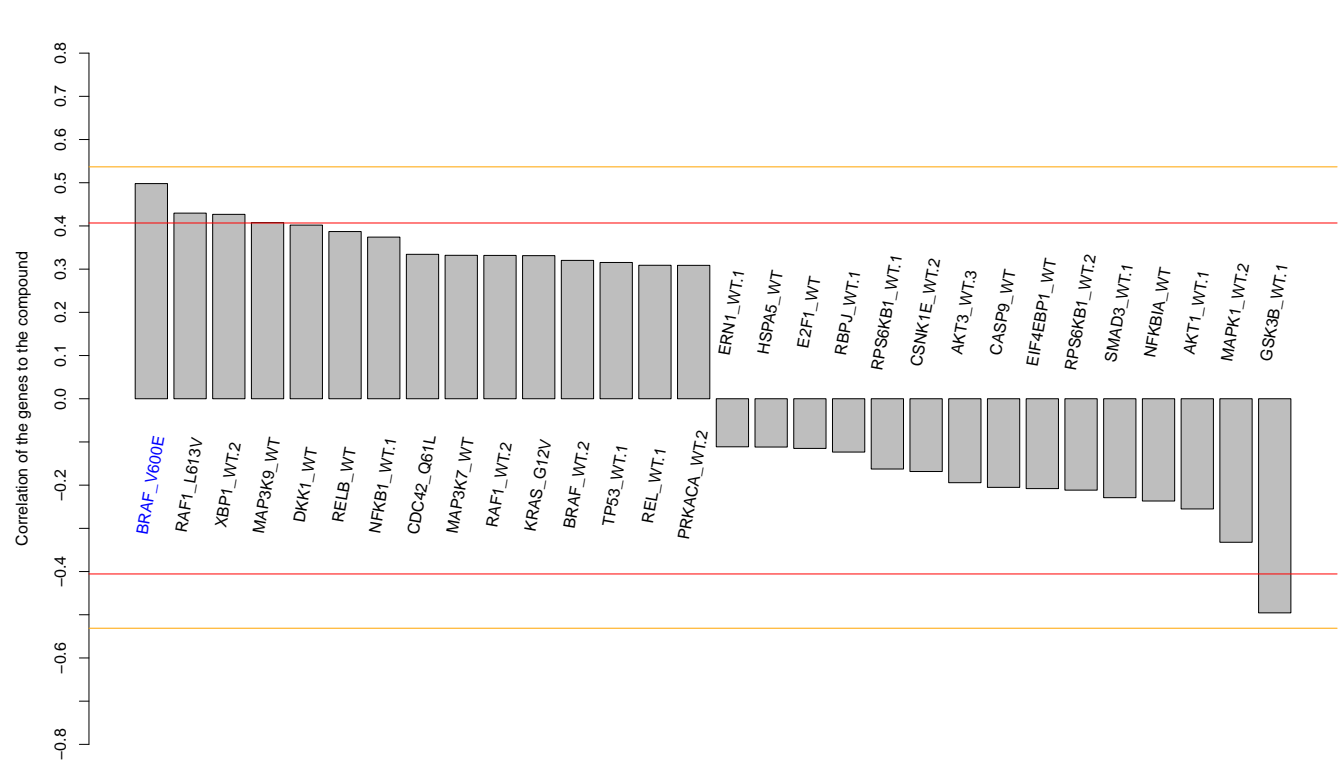
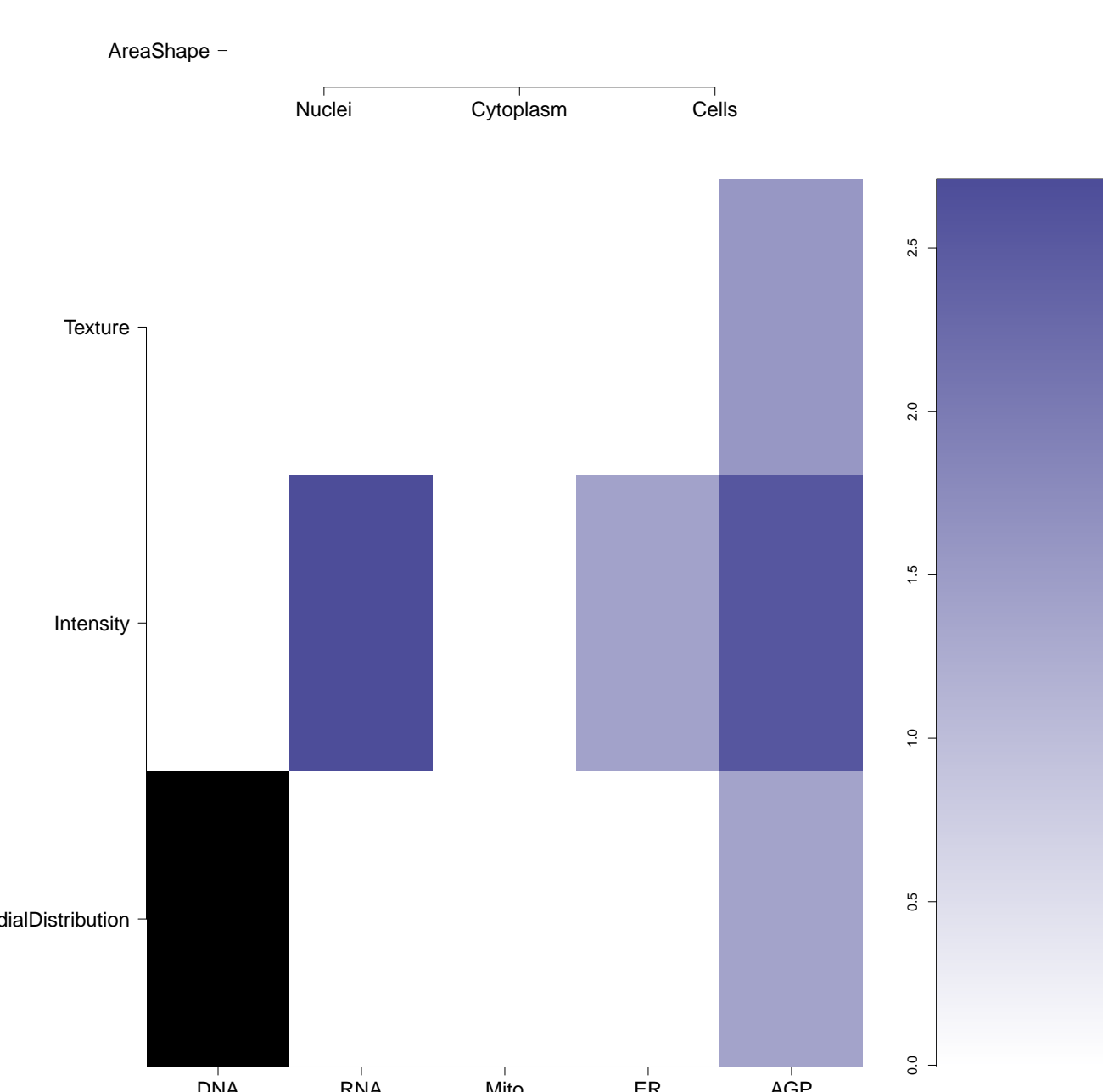
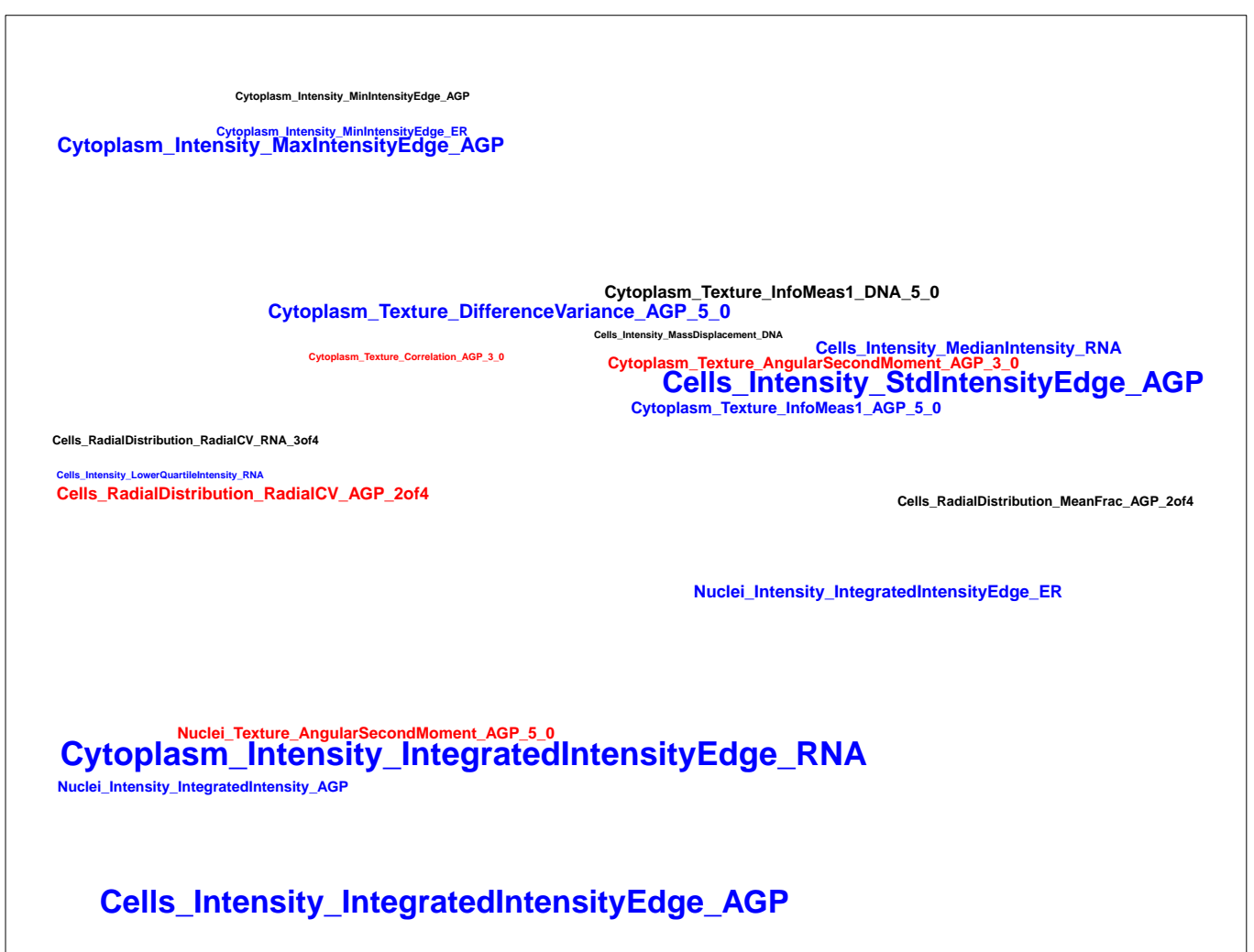
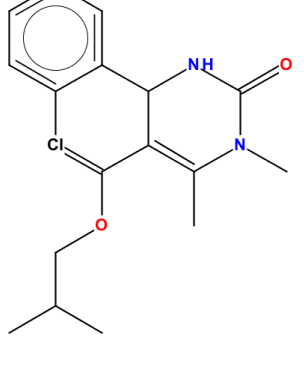
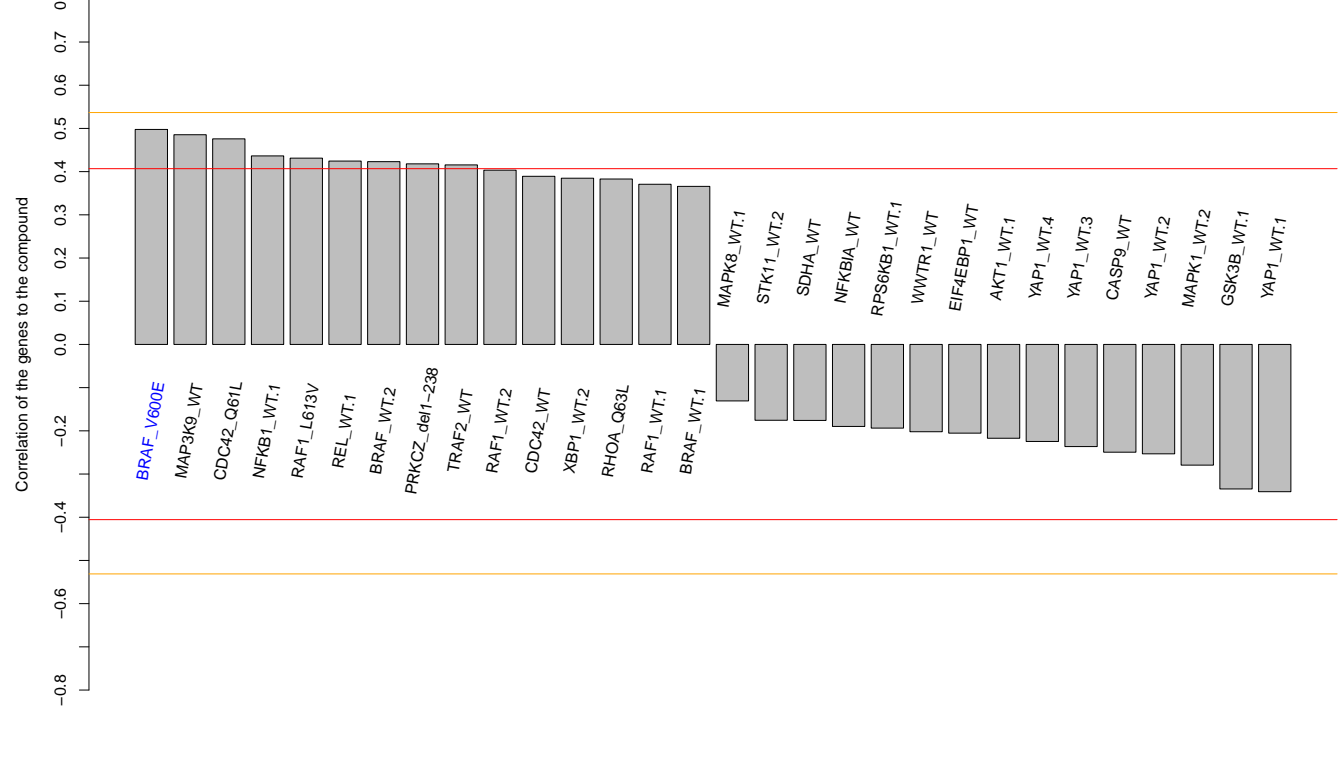
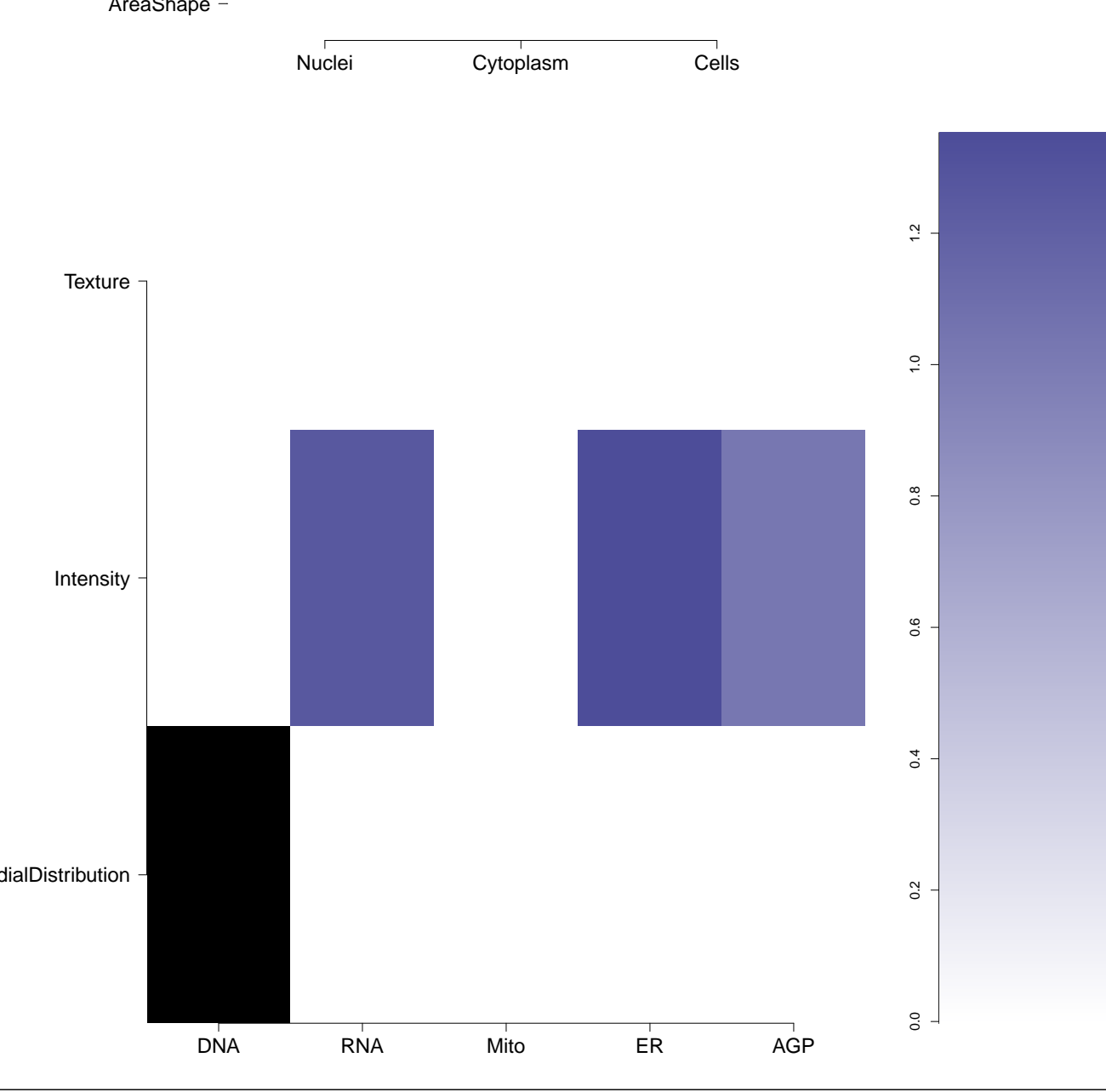
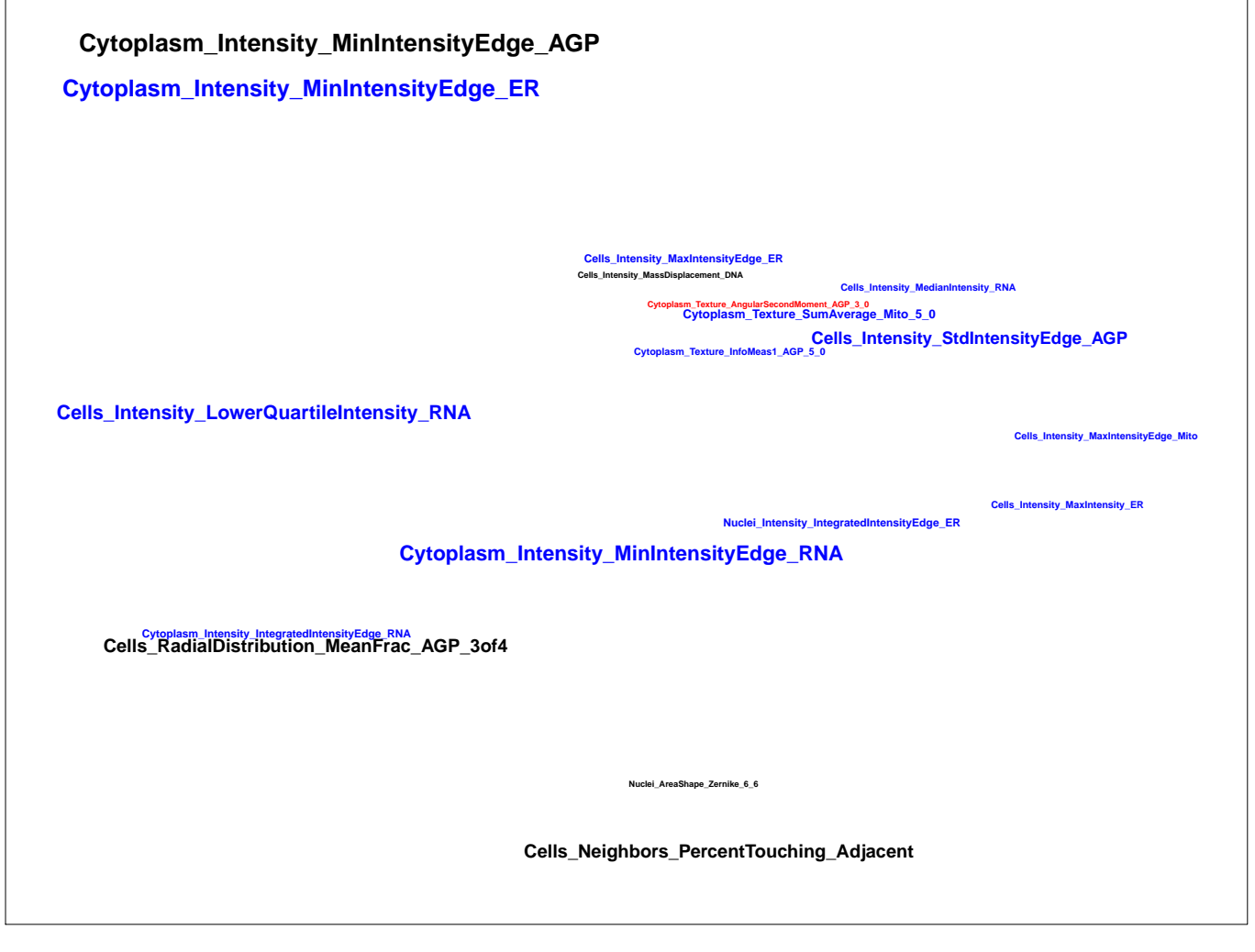
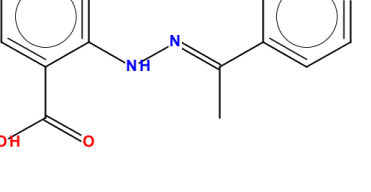
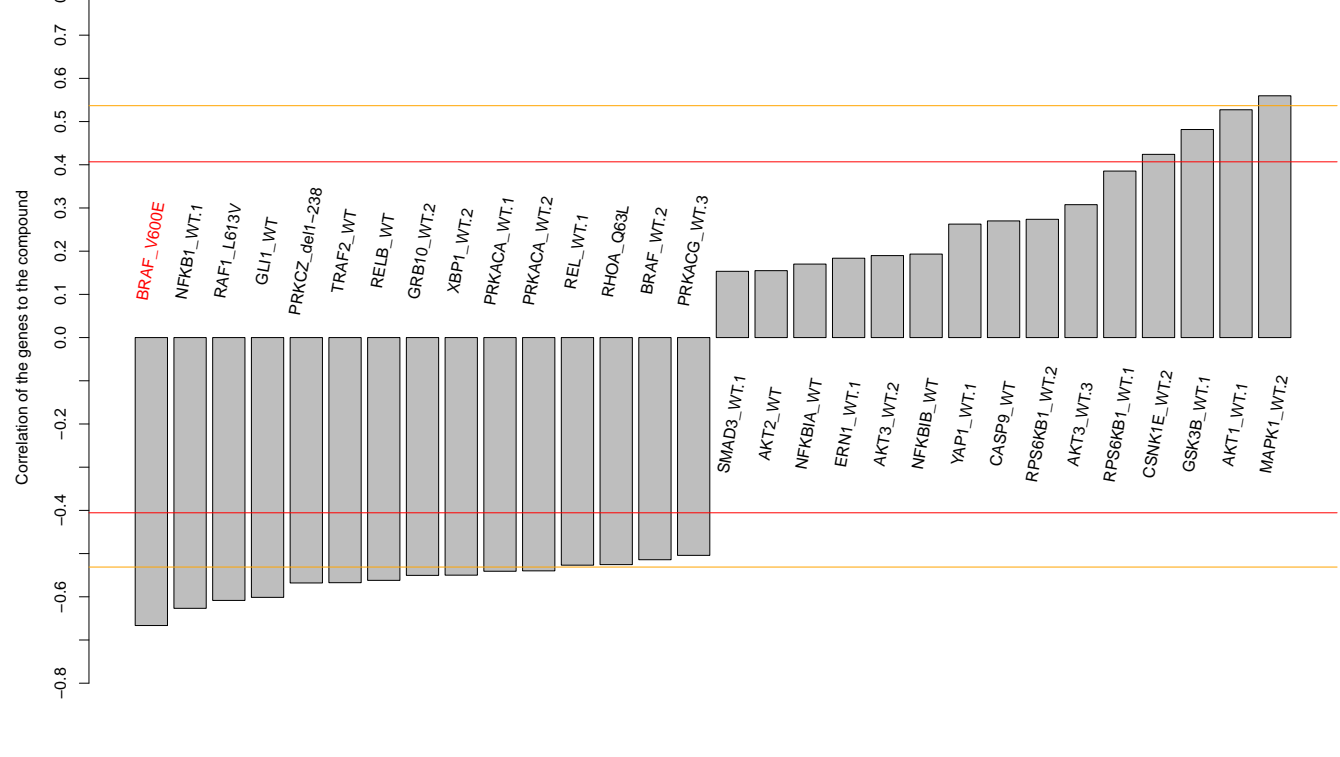
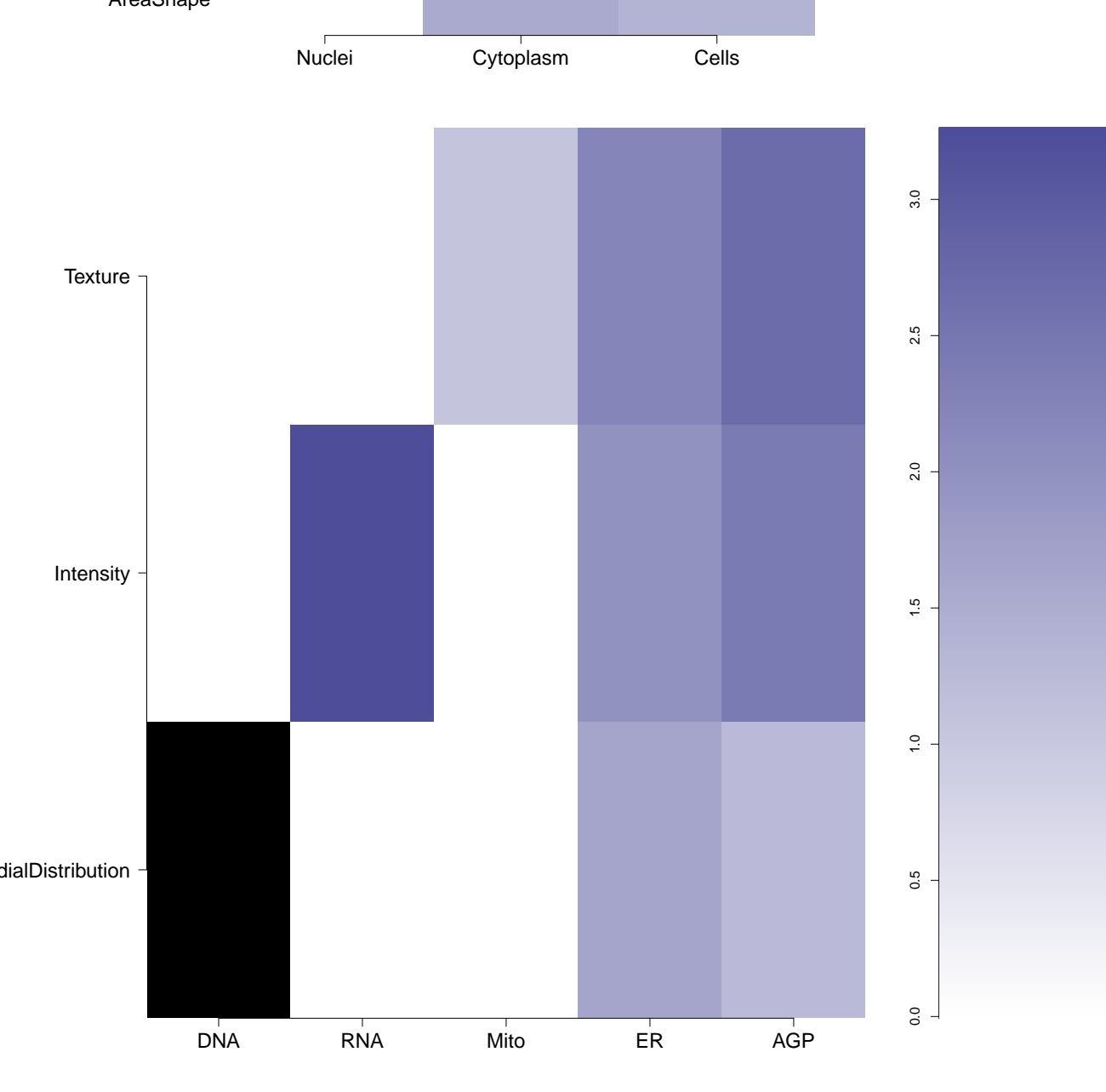



Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.52)	Correlation between compound 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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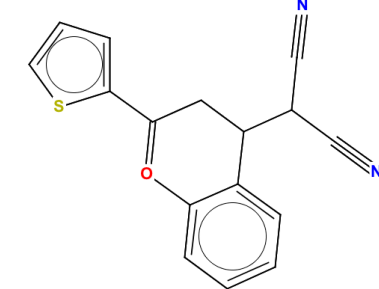
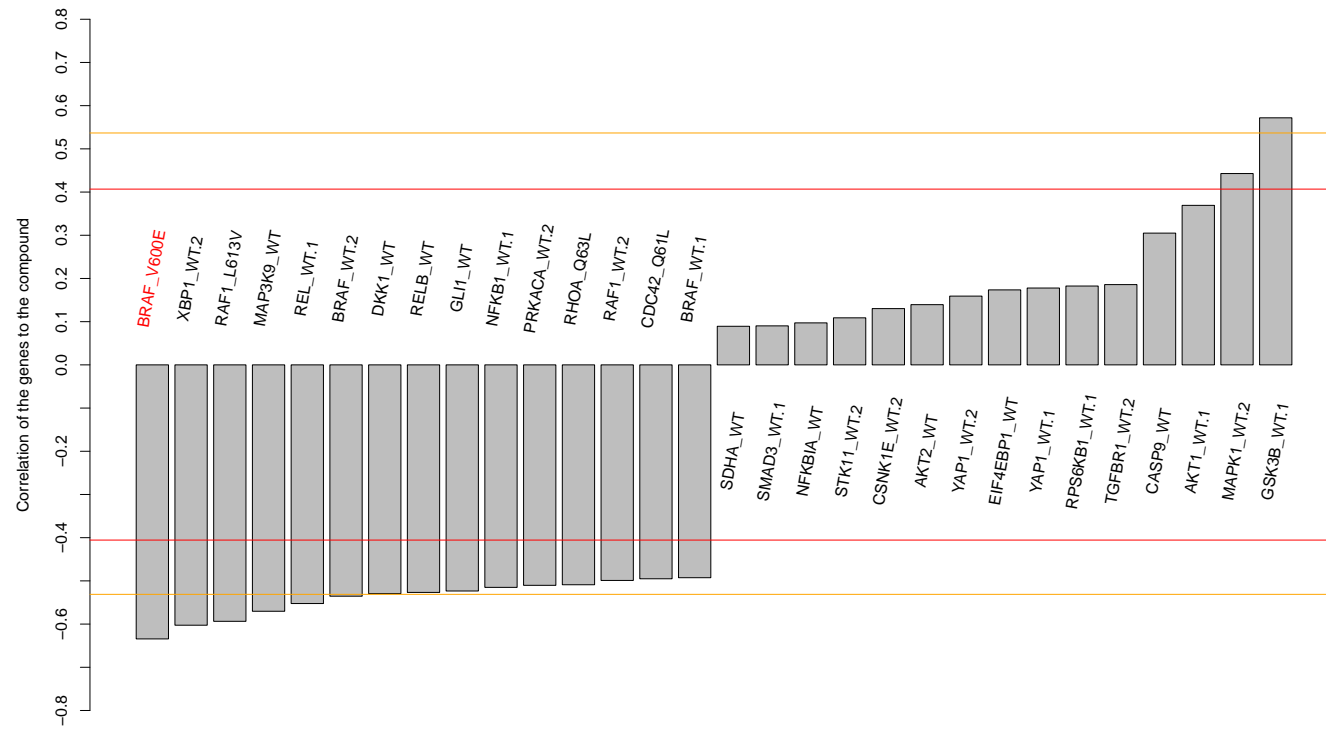
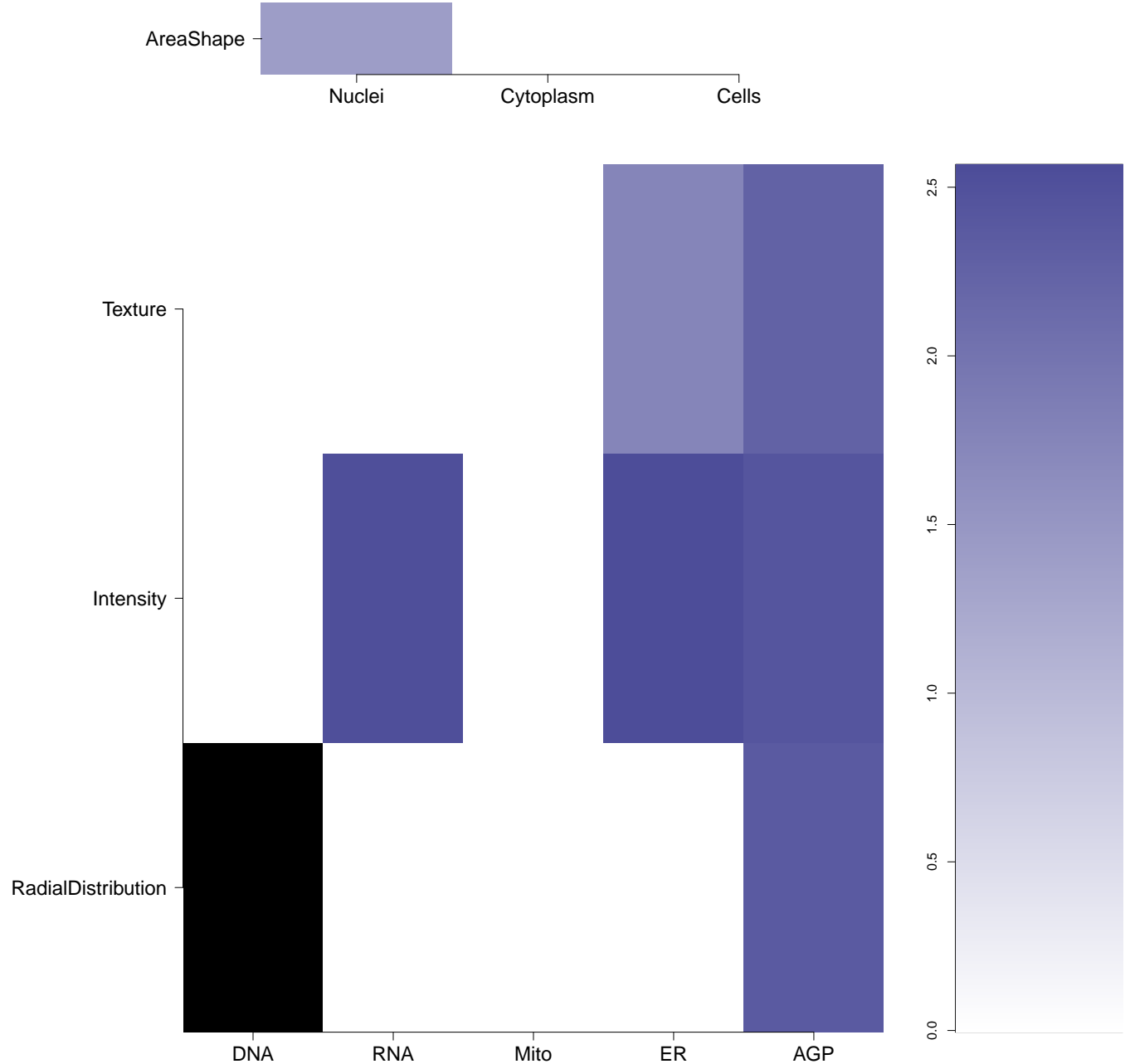

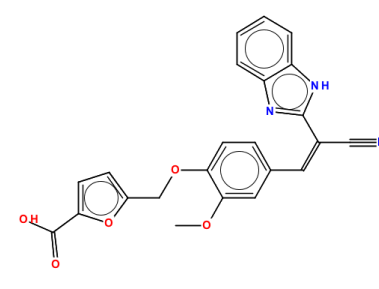
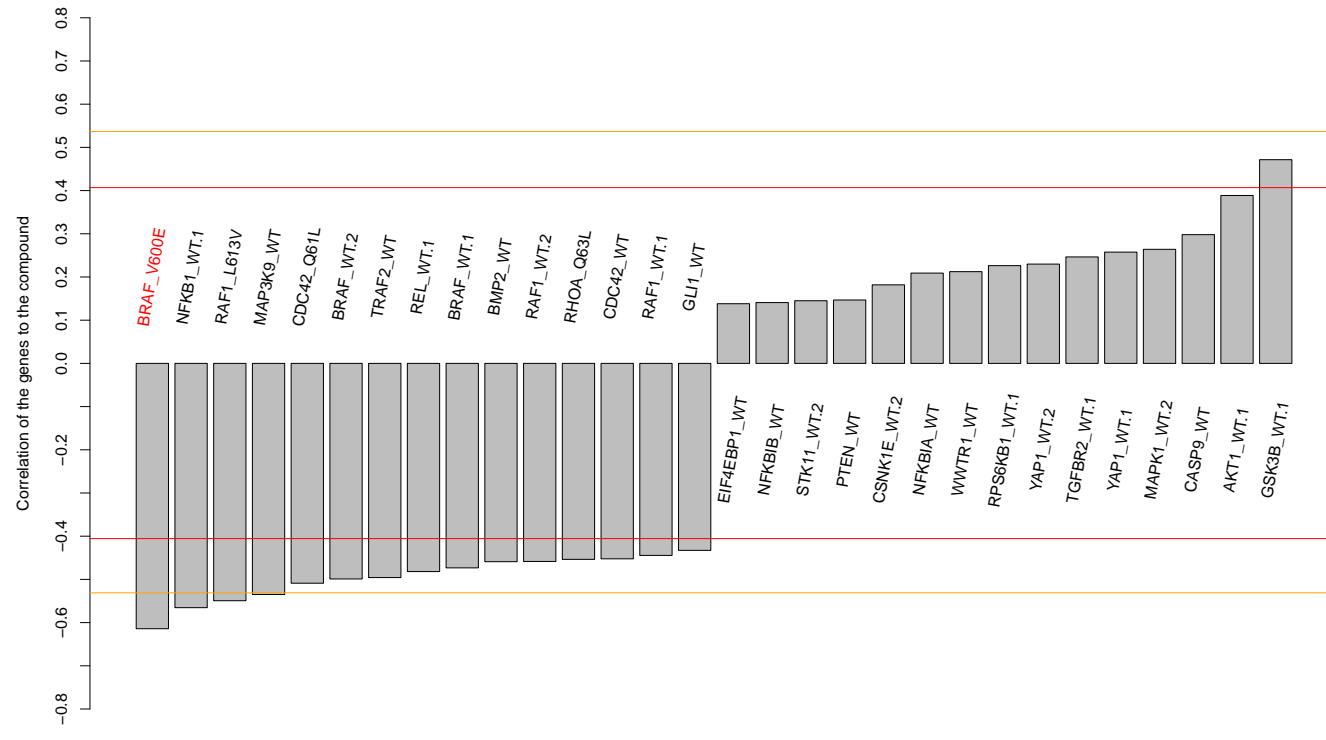
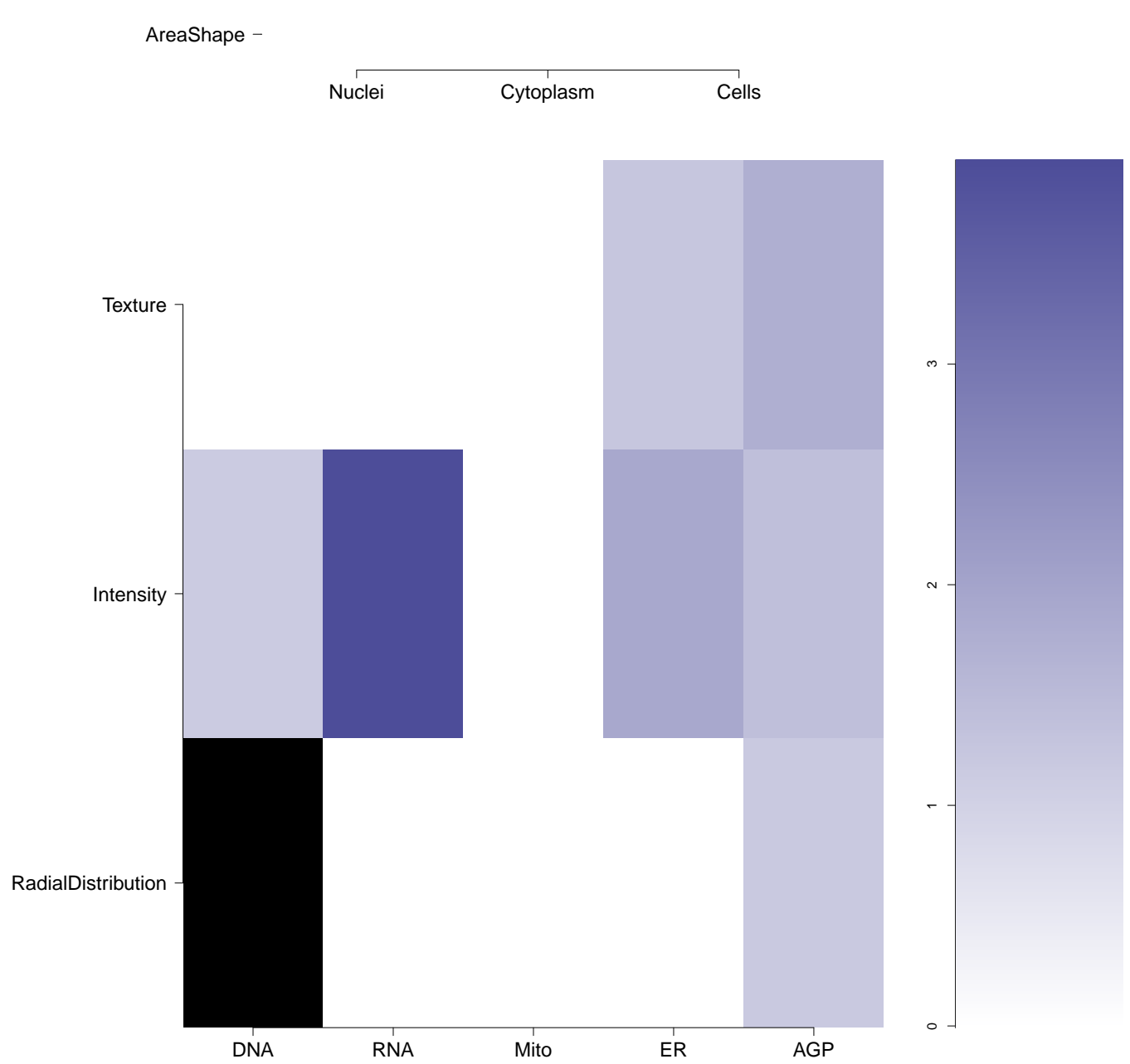
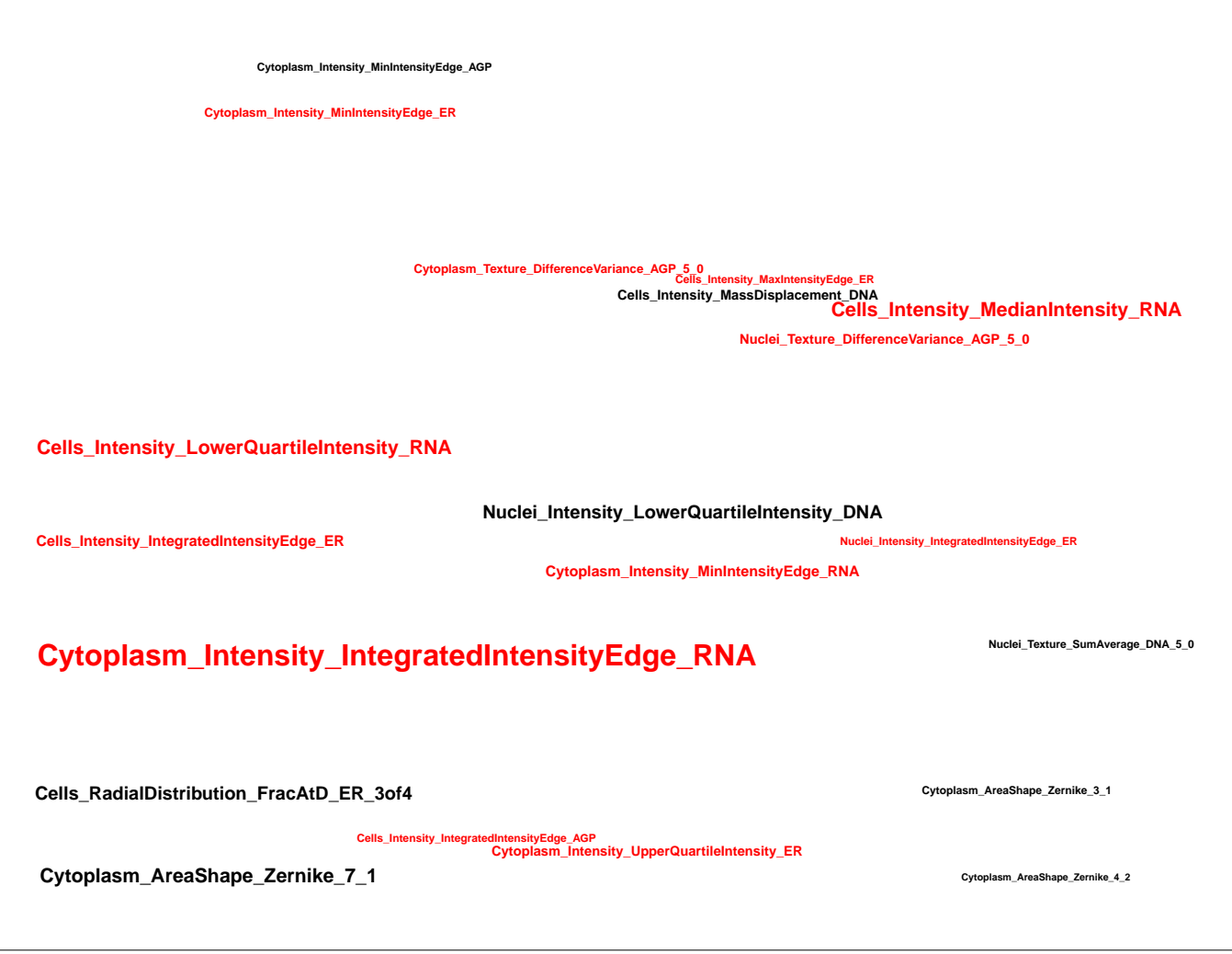
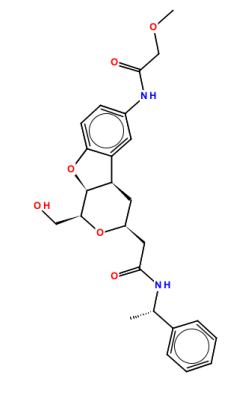
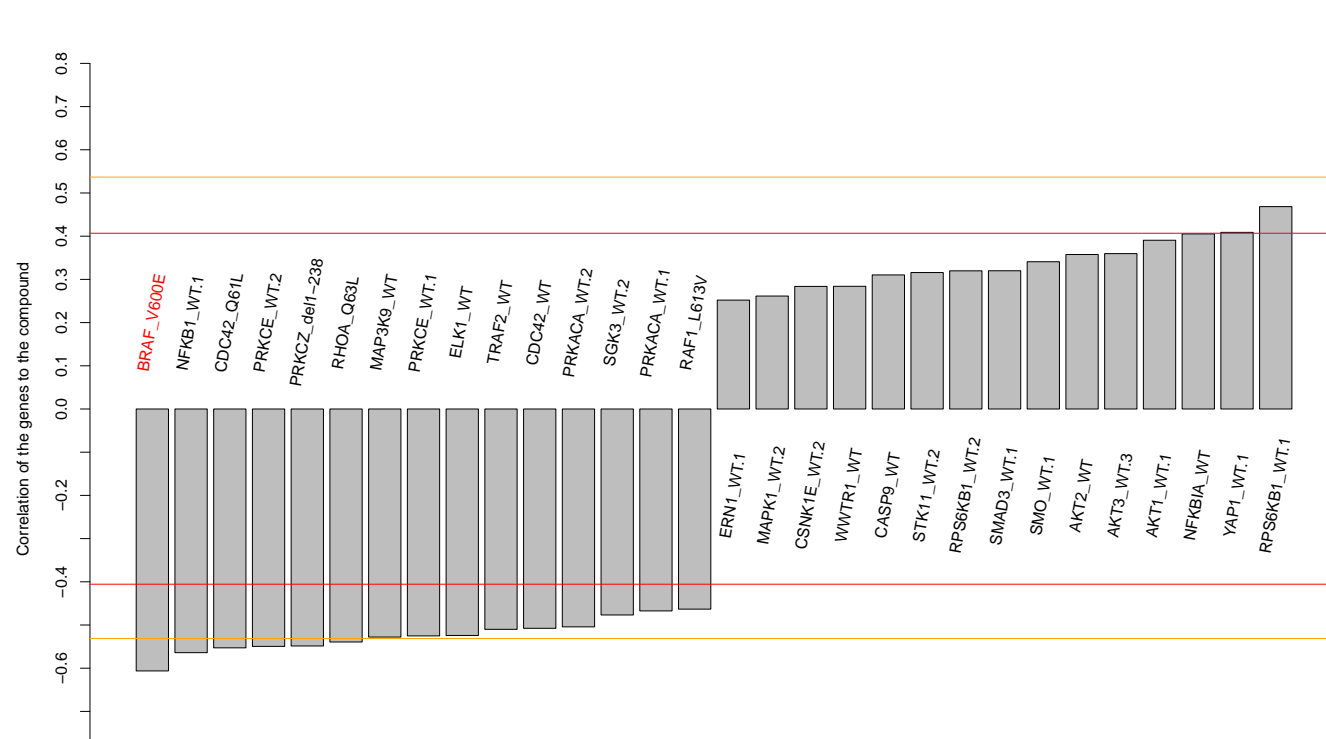
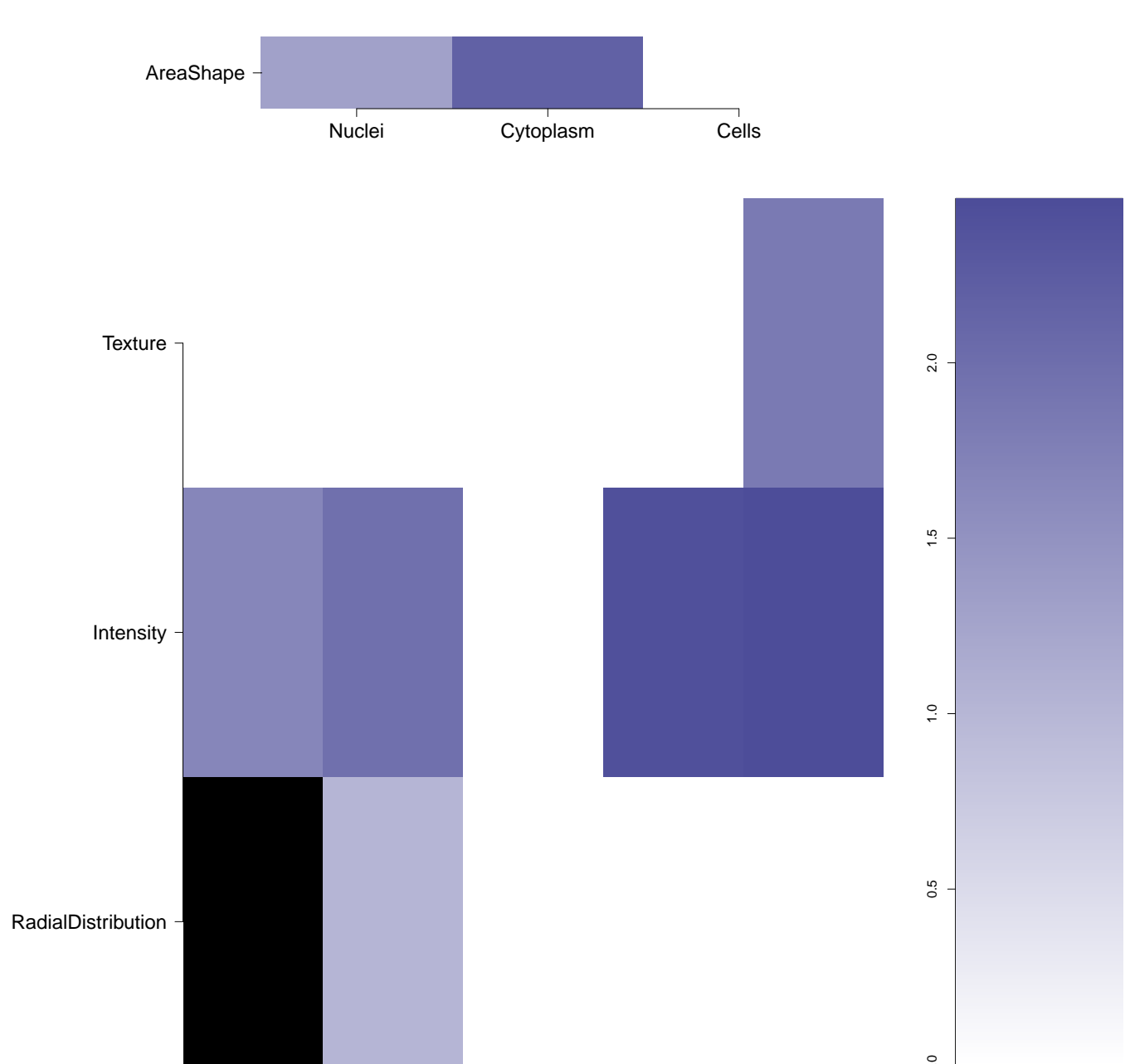



BRD-K88156935-001-01-8 PubChem CID : 44494858		0.66 (in 4 replicates)	0.68	0.697				Total number of assays tested in: 53.
BRD-K33341138-001-01-7 PubChem CID : 5460960		0.57 (in 4 replicates)	0.57	0.042				Total number of assays tested in: 28.
BRD-K95875837-001-01-3 PubChem CID : 54634049		0.55 (in 3 replicates)	0.55	0.697				Total number of assays tested in: 37.
BRD-K97368902-001-01-7 PubChem CID : 54632459		0.67 (in 4 replicates)	0.54	0.198				Total number of assays tested in: 38. Active in the following assays: <ul style="list-style-type: none"> <li>HIV entry: Env-mediated Cell Fusion Measured in Cell-Based System Using Plate Reader - 7013-01 Inhibitor.SinglePoint.HTS-Activity (AID 651610)</li> </ul>
BRD-A30356435-001-05-1 ASN 0551825 AC1MKX5A MLS000677963 HMS2627F11 SMR000285989 PubChem CID : 3211116		0.75 (in 4 replicates)	0.53	NA				Total number of assays tested in: 629. Active in the following assays: <ul style="list-style-type: none"> <li>Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)</li> <li>qHTS profiling assay for firefly luciferase inhibitor/activator using purified enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)</li> </ul>
BRD-K51493793-001-05-0 STK322925 ZINC00432838 AC1LHRIV MLS000107900 HMS1582A06 HMS2502H15 ZINC432838 SMR000103864 PubChem CID : 868034		0.69 (in 4 replicates)	0.52	NA				Total number of assays tested in: 752. Active in the following assays: <ul style="list-style-type: none"> <li>HIV-1 RT-RNase H MLCN HTS MH077605 (AID 565)</li> <li>qHTS Assay for Inhibitors of HADH2 (Hydroxacyl-Coenzyme A Dehydrogenase, Type II) (AID 886)</li> <li>qHTS Assay for Inhibitors of HPGD (15-Hydroxyprostaglandin Dehydrogenase) (AID 894)</li> <li>MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814)</li> <li>Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)</li> <li>A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315)</li> <li>A screen for compounds that inhibit the bacterial siderophore biosynthetic enzyme Mbl (AID 493033)</li> <li>qHTS profiling assay for firefly luciferase inhibitor/activator using purified enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)</li> <li>Primary biochemical fluorescence polarization-based high throughput screening assay to identify inhibitors of protein arginine methyltransferase 1 (PRMT1) (AID 652257)</li> <li>Fluorescence polarization-based biochemical high throughput confirmation assay to identify inhibitors of protein arginine methyltransferase 1 (PRMT1) (AID 687036)</li> <li>qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504)</li> </ul>



BRD-K24484078-001-05-9 T0519-1921 SMR000152402 MLS000565180 AC1M841D HMS2438D15 ZINC3361988 STL059721 ZINC03361988 PubChem CID : 2479525		0.69 (in 3 replicates)	0.51	NA				<ul style="list-style-type: none"><li>• Total number of assays tested in: 690. Active in the following assays:</li><li>• High Throughput Imaging Assay for Hepatic Lipid Droplet Formation (AID 1656)</li><li>• Single concentration confirmation of HCS identification of small molecules-that inhibit hepatic lipid droplet formation (AID 463183)</li><li>• Dose response confirmation of HCS identification of small molecules that inhibit hepatic lipid droplet formation. (AID 463191)</li><li>• Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of human platelet activating factor acetylhydrolase 2 (PAFAH2) (AID 492956)</li><li>• Fluorescence polarization-based biochemical high throughput confirmation assay for inhibitors of human platelet activating factor acetylhydrolase 2 (PAFAH2) (AID 493030)</li><li>• SAR Analysis for the identification of small molecules that inhibit hepatic lipid droplet formation using an image based screen. (AID 493092)</li><li>• TR-FRET-based biochemical primary high throughput screening assay to identify small molecules that bind to the HIV-1-gp120 binding antibody, PG9 (AID 624416)</li><li>• Counterscreen for discovery of small molecules that bind to the HIV-1-gp120 binding antibody, PG9- TR-FRET-based biochemical high throughput assay to identify small molecules that bind to the HIV envelope different from the PG9 binding site (AID 651604)</li><li>• 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)</li></ul>
BRD-K57408604-001-01-0 PubChem CID : 54648998		0.67 (in 2 replicates)	0.51	0.697				<ul style="list-style-type: none"><li>• Total number of assays tested in: 36.</li></ul>
BRD-K07339740-001-01-3 PubChem CID : 54657692		0.58 (in 4 replicates)	0.50	0.697				<ul style="list-style-type: none"><li>• Total number of assays tested in: 24. Active in the following assays:</li><li>• Inhibitors of Epstein-Barr LMP1 inducible NF-kappaB luciferase reporter Measured in Cell-Based System Using Plate Reader - 2122-06.Inhibitor.Dose.DryPowder.Activity.Set2 (AID 624361)</li><li>• Inhibitors of Epstein-Barr LMP1 inducible NF-kappaB luciferase reporter Measured in Cell-Based System Using Plate Reader - 2122-05.Inhibitor.Dose.DryPowder.Activity.Set2 (AID 624369)</li><li>• Inhibitors of Epstein-Barr LMP1 inducible NF-kappaB luciferase reporter Measured in Cell-Based System Using Plate Reader - 2122-01.Inhibitor.Dose.DryPowder.Activity.Set2 (AID 624376)</li><li>• HTS for PAX8 inhibitors using PAX8 luciferase reporter gene assay in RMG-1 cells Measured in Cell-Based System Using Plate Reader - 7054-01.Inhibitor.SinglePoint.HTS.Activity (AID 652154)</li></ul>
BRD-A79149747-001-04-8 F0153-0047 AC1MEZJ4 MLS000100564 HMS2249J05 STK099440 BAS 00612934 SMR000015429 ST013373 EU-0035638 T0500-3709 PubChem CID : 2863583		0.57 (in 4 replicates)	0.50	NA				<ul style="list-style-type: none"><li>• Total number of assays tested in: 731. Active in the following assays:</li><li>• CYP2C9 Assay (AID 777)</li><li>• CYP2C19 Assay (AID 778)</li><li>• qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030)</li><li>• qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)</li><li>• qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979)</li></ul>
BRD-K59373532-001-05-2 T0504-1395 MLS001171537 ZINC5494430 SMR000591501 PubChem CID : 9613363		NA (in 1 replicates)	-0.67	NA				<ul style="list-style-type: none"><li>• Total number of assays tested in: 491. Active in the following assays:</li><li>• MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814)</li><li>• Aqueous Solubility from MLSMR Stock Solutions (AID 1996)</li><li>• Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of Protein Phosphatase Methyltransferase 1 (PME-1). (AID 2130)</li><li>• qHTS Assay for Modulators of miRNAs and/or Inhibitors of miR-21 (AID 2289)</li><li>• Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)</li><li>• A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315)</li><li>• HTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 8 (SEN8) (AID 2540)</li><li>• uHTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 6 (SEN6) (AID 2599)</li><li>• uHTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 7 (SEN7) (AID 434973)</li><li>• qHTS Assay for RelB Promoter Activators (AID 485297)</li><li>• qHTS Assay for NPC1 Promoter Activators (AID 485313)</li><li>• Single concentration confirmation of uHTS for inhibitors of Sentrin-specific protease 8 (SEN8) using a Luminescent assay (AID 488912)</li><li>• Single concentration confirmation of uHTS for inhibitors of Sentrin-specific protease 6 (SEN6) using a Luminescent assay (AID 488915)</li><li>• Single concentration confirmation of uHTS for inhibitors of Sentrin-specific protease 7 (SEN7) using a Luminescent assay (AID 488917)</li><li>• Single concentration confirmation of inhibitors of Sentrin-specific proteases (SENPs) using a Caspase-3 Selectivity assay (AID 488918)</li><li>• Single concentration confirmation of inhibitors of Sentrin-specific proteases (SENPs) using a Luminescent Interference Counterscreen assay (AID 488919)</li><li>• qHTS screen for small molecules that induce genotoxicity in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504466)</li><li>• qHTS profiling assay for firefly luciferase inhibitor/activator using purified enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)</li></ul>



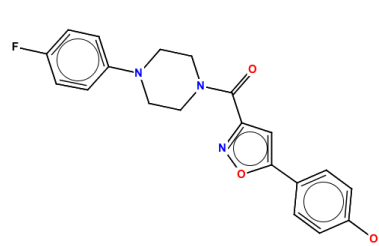
<p>BRD-A76985501-001-06-9</p> <p>AC1MWF4V</p> <p>MLS000589513</p> <p>HMS2548J24</p> <p>STK530431</p> <p>SMR000212888</p> <p>PubChem CID : 3723106</p>		<p>NA (in 1 replicates)</p>	<p>-0.63</p>	<p>NA</p>				<p>Total number of assays tested in: 647. Active in the following assays:</p> <ul style="list-style-type: none"> <li>High Throughput Screen to Identify Compounds that Suppress the Growth of Human Colon Tumor Cells Lacking Oncogenic Beta Catenin Expression (AID 818)</li> <li>High Throughput Screen to Identify Compounds that Suppress the Growth of Cells with a Deletion of the PTEN Tumor Suppressor (AID 827)</li> <li>Leishmania major promastigote HTS (AID 1063)</li> <li>qHTS for Inhibitors of Tau Fibril Formation, Thioflavin T Binding (AID 1460)</li> <li>uHTS luminescence assay for the identification of compounds that inhibit NOD1 (AID 1578)</li> <li>Fluorescence Cell-Free Homogenous Primary HTS to Identify Inhibitors of RecA Intein Splicing Activity (AID 2221)</li> <li>Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)</li> <li>A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315)</li> <li>qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)</li> <li>Fluorescence Cell-Free Homogeneous Counter Screen to Identify Inhibitors of GFP Chromophore Formation (AID 434968)</li> <li>Fluorescence Cell-Free Homogeneous Dose Retest to Identify Inhibitors of RecA Intein Splicing Activity (AID 435010)</li> <li>Fluorescence Cell-Free Homogeneous Secondary Screen to Identify Non-Covalent Inhibitors of RecA Intein Splicing Activity (AID 449750)</li> <li>uHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346)</li> <li>qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxiredoxins (AID 485364)</li> <li>Single concentration confirmation of uHTS for Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 489028)</li> <li>Single concentration confirmation of inhibitors of Mdm2/MdmX interaction using a Full-Length Luciferase Counterscreen assay (AID 504607)</li> <li>Single concentration confirmation of inhibitors of Mdm2/MdmX interaction using a Breal/Bard1 BILC Counterscreen assay. (AID 504668)</li> <li>HTS Assay for Peg3 Promoter Inhibitors (AID 588405)</li> <li>qHTS Assay for Inhibitors of Mammalian Selenoprotein Thioredoxin Reductase 1 (TrxR1): qHTS (AID 588453)</li> <li>Vero 76 Cytotoxicity Assay for VEEV Compounds (AID 588719)</li> <li>uHTS identification of cystic fibrosis induced NFkB Inhibitors in a fluorescence assay (AID 588850)</li> <li>qHTS for Inhibitors of TGF-b (AID 588855)</li> <li>uHTS determination of small molecule cytotoxicity in a fluorescence assay to identify cystic fibrosis induced NFkB Inhibitors (AID 602141)</li> <li>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)</li> <li>uHTS Identification of HIF-2a Inhibitors in a luminescence assay (AID 624352)</li> <li>Single concentration confirmation of HIF-2a Inhibitors in a HIF-1a counterscreen in human MAPKCa2 Cells luciferase reporter assay (AID 651589)</li> <li>Absorbance-based biochemical primary high throughput screening assay to identify inhibitors of Methionine sulfoxide reductase A (MsrA) (AID 651718)</li> <li>qHTS of TDP-43 Inhibitors (AID 652104)</li> <li>qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)</li> <li>qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979)</li> <li>qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279)</li> <li>High Throughput Screening for Foot and Mouth Disease Virus Antivirals (AID 1159524)</li> </ul>
<p>BRD-K04190958-001-05-1</p> <p>MLS000582256</p> <p>STK201550</p> <p>SMR000200794</p> <p>AC1NX0RQ</p> <p>BDBM53783</p> <p>ZINC4739815</p> <p>PubChem CID : 5740612</p>		<p>NA (in 1 replicates)</p>	<p>-0.61</p>	<p>NA</p>				<p>Total number of assays tested in: 682. Active in the following assays:</p> <ul style="list-style-type: none"> <li>HTS to identify specific small molecule inhibitors of Ras and Ras-related GTPases specifically Ras wildtype (AID 759)</li> <li>HTS to identify specific small molecule inhibitors of Ras and Ras-related GTPases specifically Rab2 wildtype (AID 760)</li> <li>HTS to identify specific small molecule inhibitors of Ras and Ras-related GTPases specifically Cdc42 wildtype (AID 761)</li> <li>qHTS Assay for Inhibitors of 15-lLO-2 (15-human lipoxigenase 2) (AID 881)</li> <li>uHTS identification of compounds inhibiting the binding between the RUXN1 Tru1 domain and CBPb-SMMHC via a fluorescence resonance energy transfer (FRET) assay. (AID 1434)</li> <li>Inhibitors of Plasmodium falciparum M1- Family Alanyl Aminopeptidase (M1AAP) (AID 1445)</li> <li>QFRET-based counterscreen for PFM18AAP inhibitors: biochemical high throughput screening assay to identify inhibitors of the Cathepsin L proteinase (CTSL1). (AID 1906)</li> <li>384-well Z-Lyte format Hck-Nef inhibitor HTS run at the PMLSC (AID 463187)</li> <li>384-well Z-Lyte format Hck-Nef inhibitor HTS: Confirmation Assays (AID 463188)</li> <li>qHTS for Inhibitors of Polymerase Eta (AID 588591)</li> <li>Luminescence-based cell-based primary high throughput screening assay to identify agonists of the mouse 5-hydroxytryptamine (serotonin) receptor 2A (HTR2A) (AID 624469)</li> <li>Counterscreen for agonists of the mouse 5-hydroxytryptamine (serotonin) receptor 2A (HTR2A): Luminescence-based cell-based high throughput screening assay to identify agonists of the mu 1 opioid receptor (OPRM1) (AID 624380)</li> <li>Fluorescence-based biochemical primary high throughput screening assay to identify molecules that bind r(CAG) RNA repeats (AID 651821)</li> <li>MLPCN SfrT-5 Measured in Biochemical System Using Imaging 7044-01 Inhibitor SinglePoint HTS Activity Set5 (AID 652115)</li> <li>qHTS for Inhibitors of Polymerase Eta: Confirmatory Assay for Cherry-picked Compounds (AID 720502)</li> </ul>
<p>BRD-K11468724-001-01-4</p> <p>PubChem CID : 54646064</p>		<p>NA (in 1 replicates)</p>	<p>-0.61</p>	<p>0.089</p>				<p>Total number of assays tested in: 38.</p>







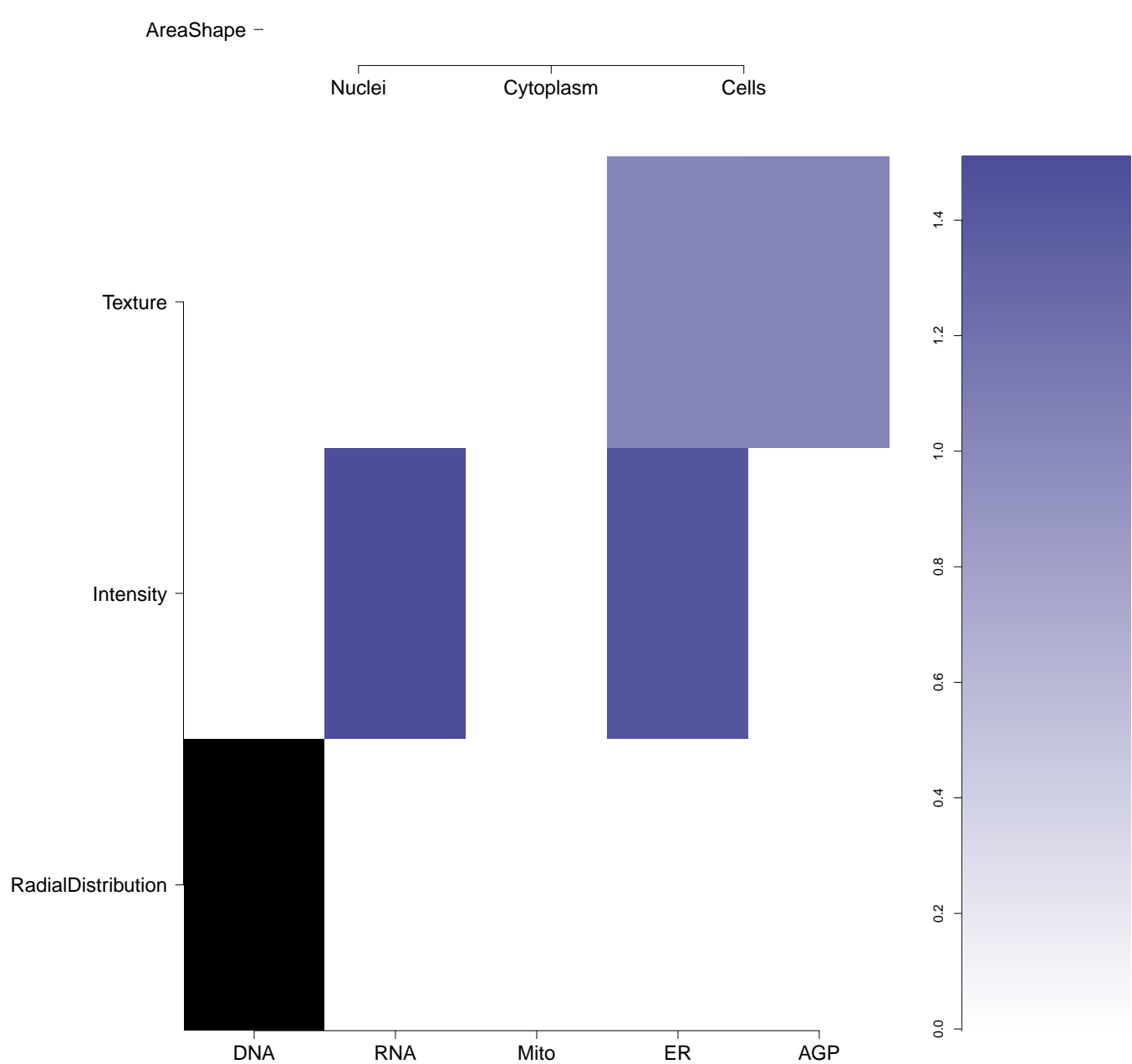
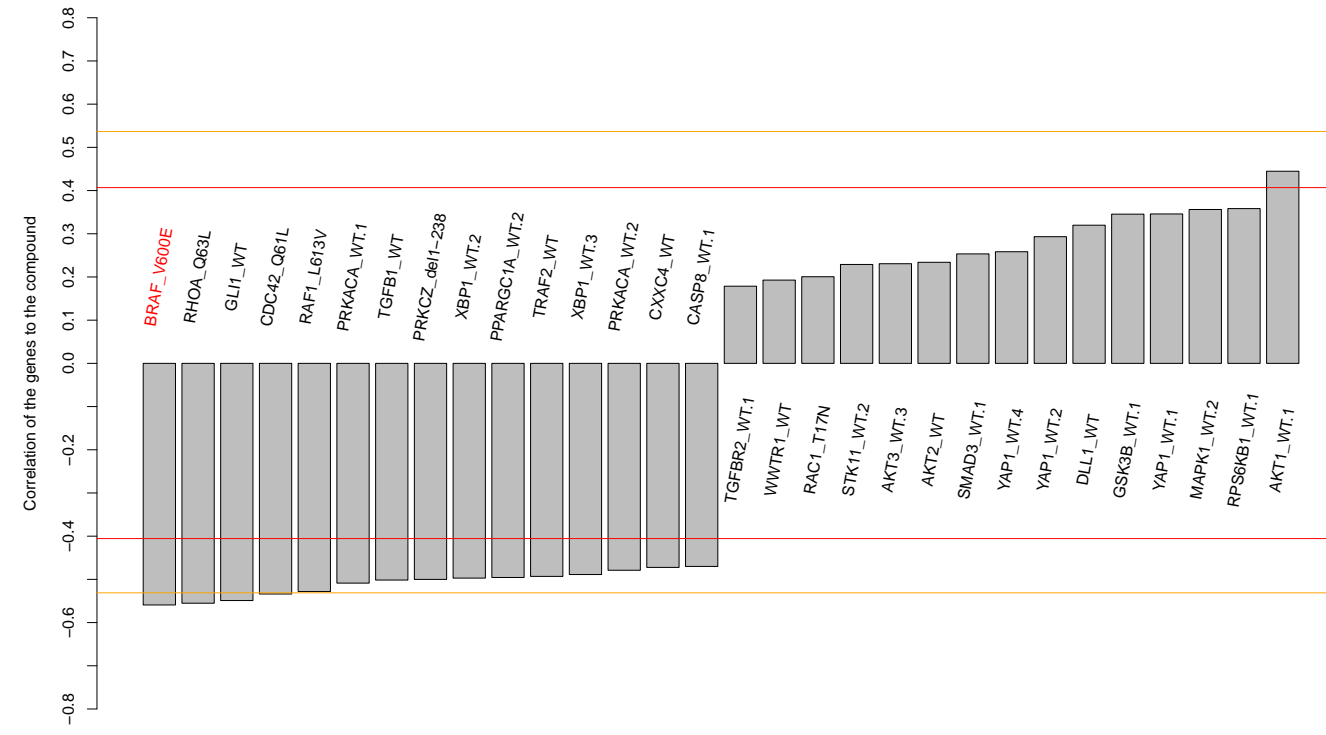
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NA (in 1 replicates)

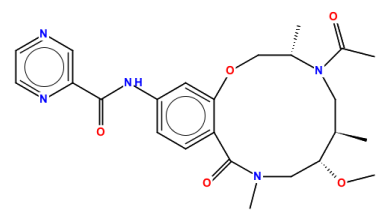
-0.56

NA



- Total number of assays tested in: 495. Active in the following assays:
- Luminescence Cell-Based Primary HTS to Identify Inhibitors of Cancer Stem Cells (AID 2717)
  - nHTS identification of small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 463190)
  - nHTS identification of small molecule inhibitors of tim10 yeast via a luminescent assay (AID 463195)
  - nHTS identification of small molecule inhibitors of tim23-1 yeast via a luminescent assay (AID 463212)
  - Single concentration confirmation of small molecule inhibitors of tim10 yeast via a luminescent assay (AID 463215)
  - Single concentration confirmation of small molecule inhibitors of tim23-1 yeast via a luminescent assay (AID 463218)
  - 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)
  - Luminescence-based cell-based primary high throughput screening assay to identify biased ligands of the melanocortin 4 receptor (MC4R): agonists of MC4R (AID 540308)
  - qHTS of TDP-43 Inhibitors (AID 652104)
  - qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686079)

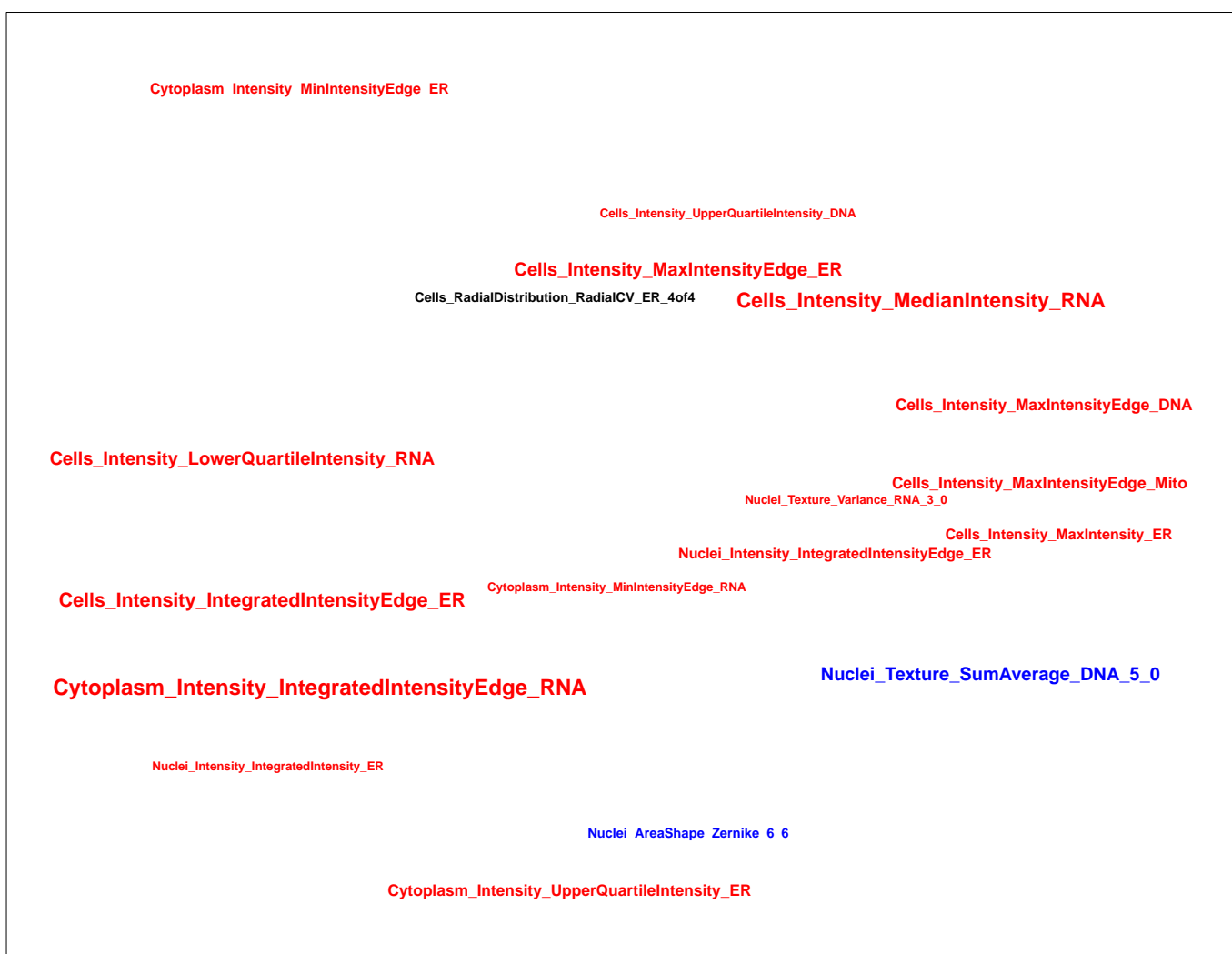
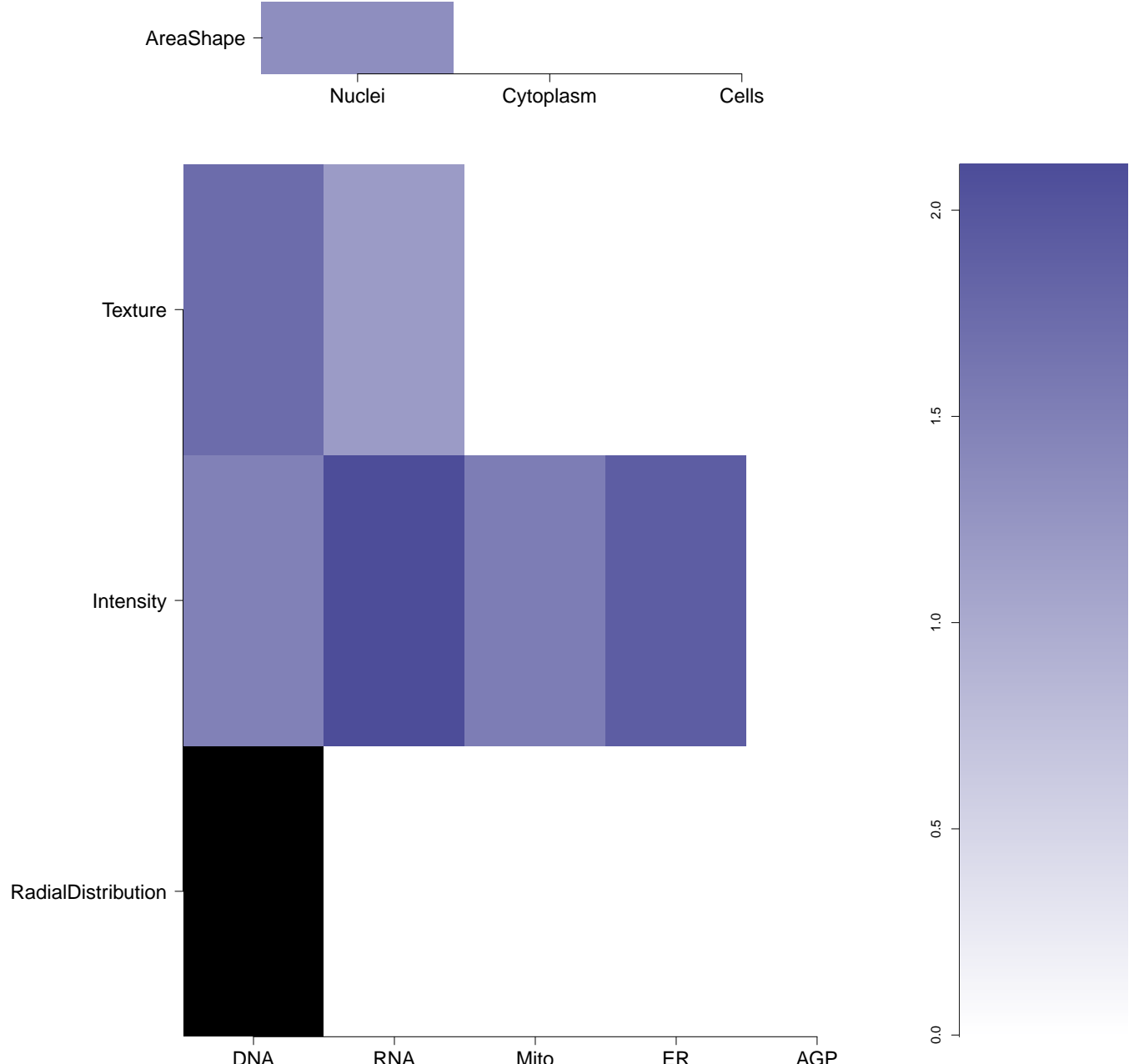
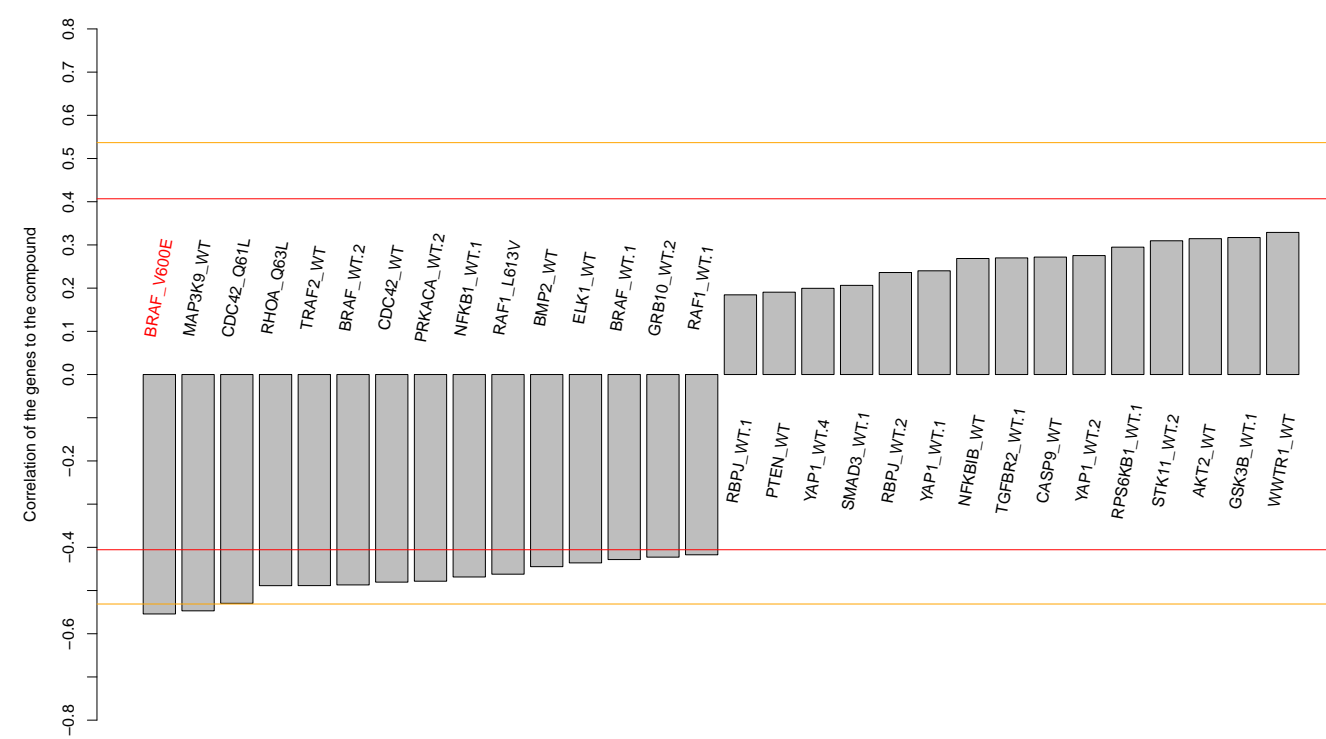
BRD-K30655307-001-01-8  
PubChem CID : 54633980



0.55 (in 3 replicates)

-0.55

0.861



Total number of assays tested in: 36.