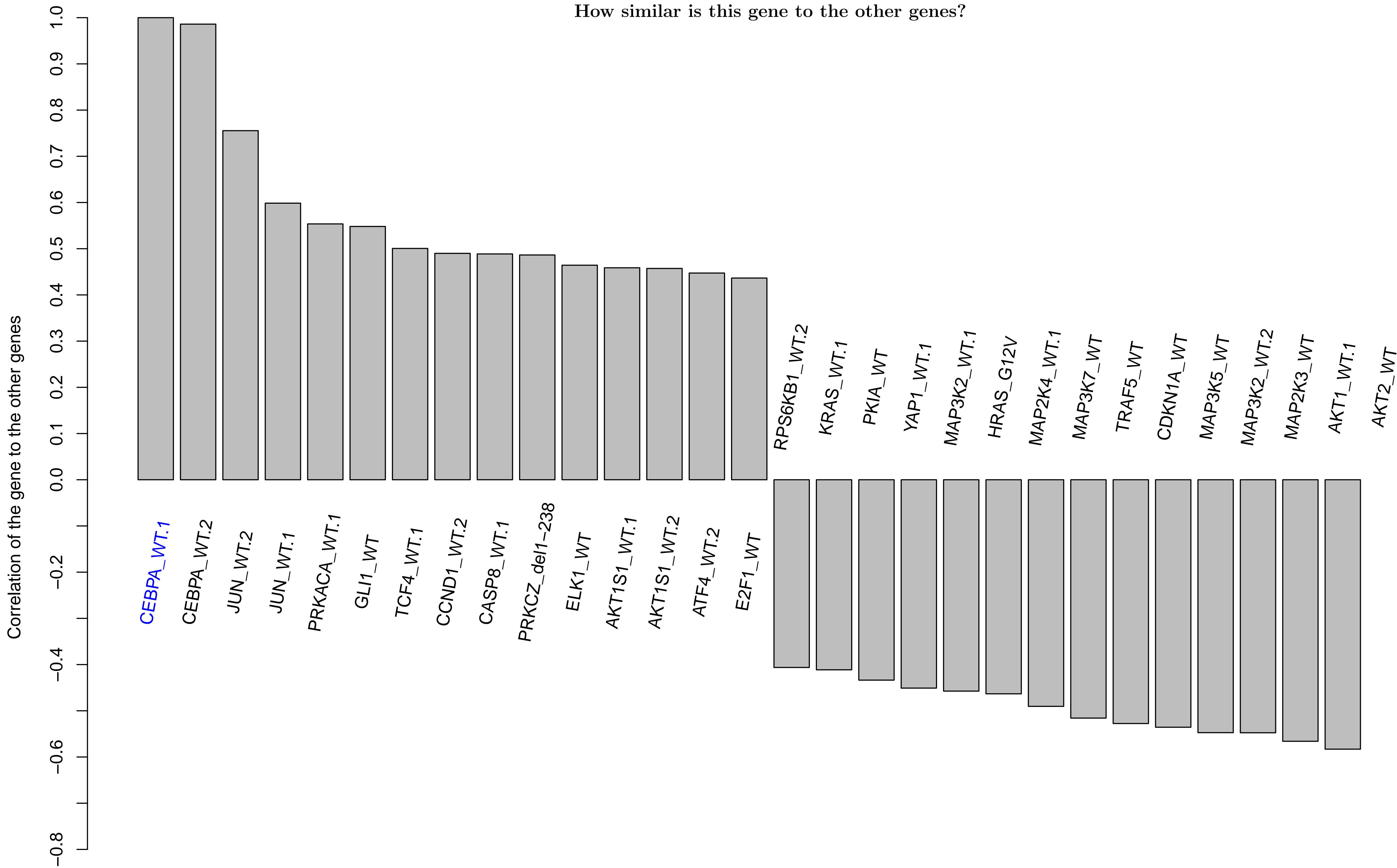
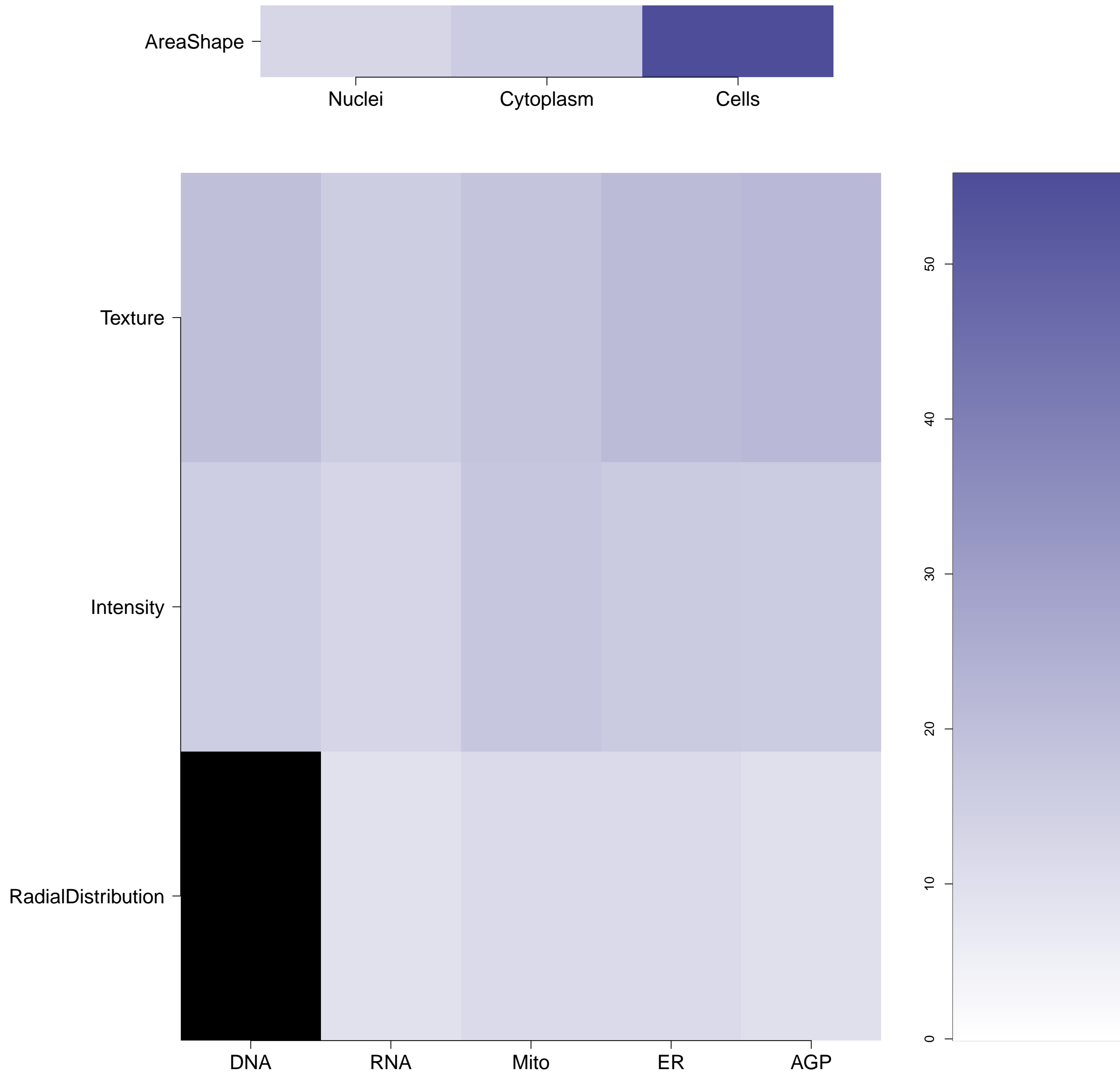


CEBPA.WT.1 - in Transcription Factors

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

CEBPA.WT.1 (41744)

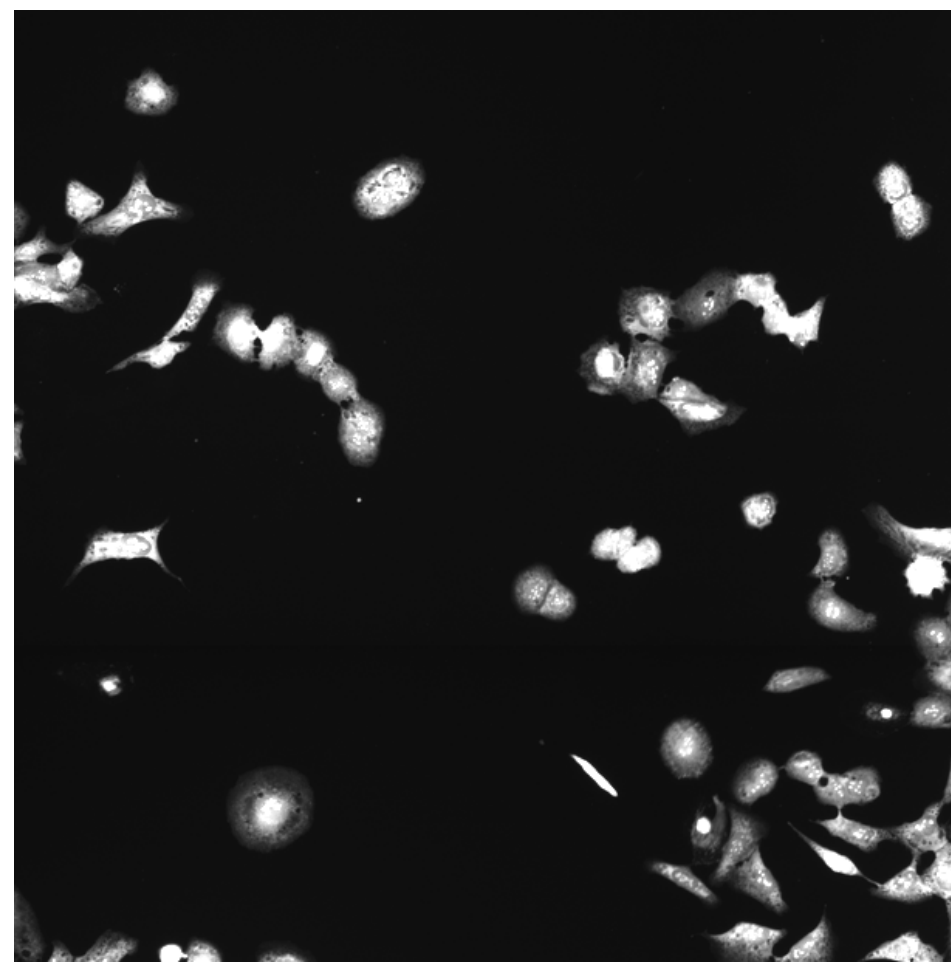
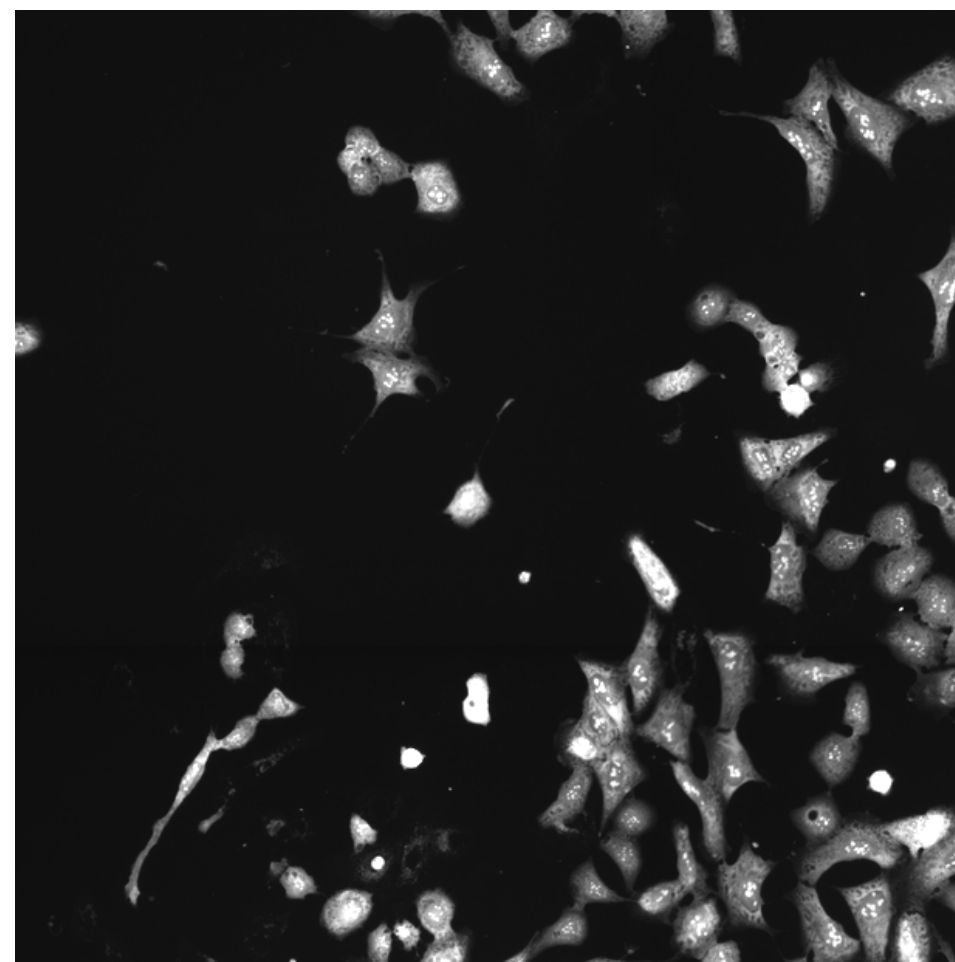
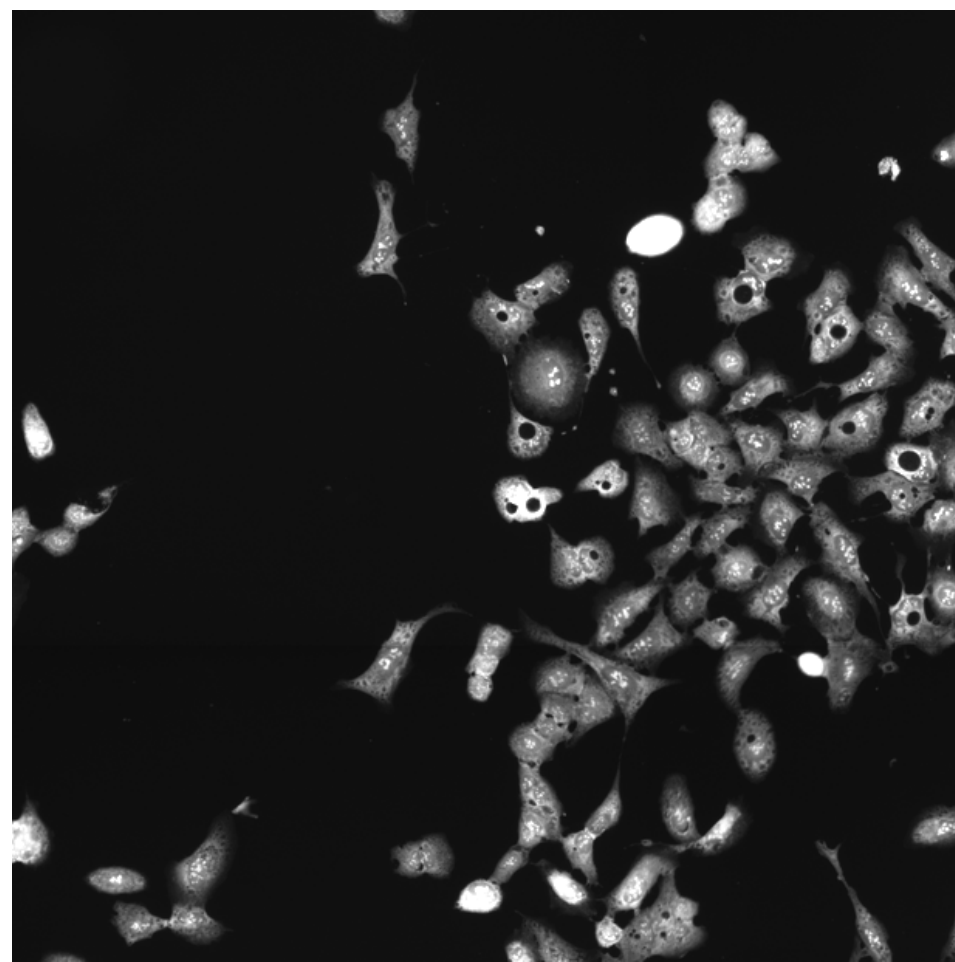
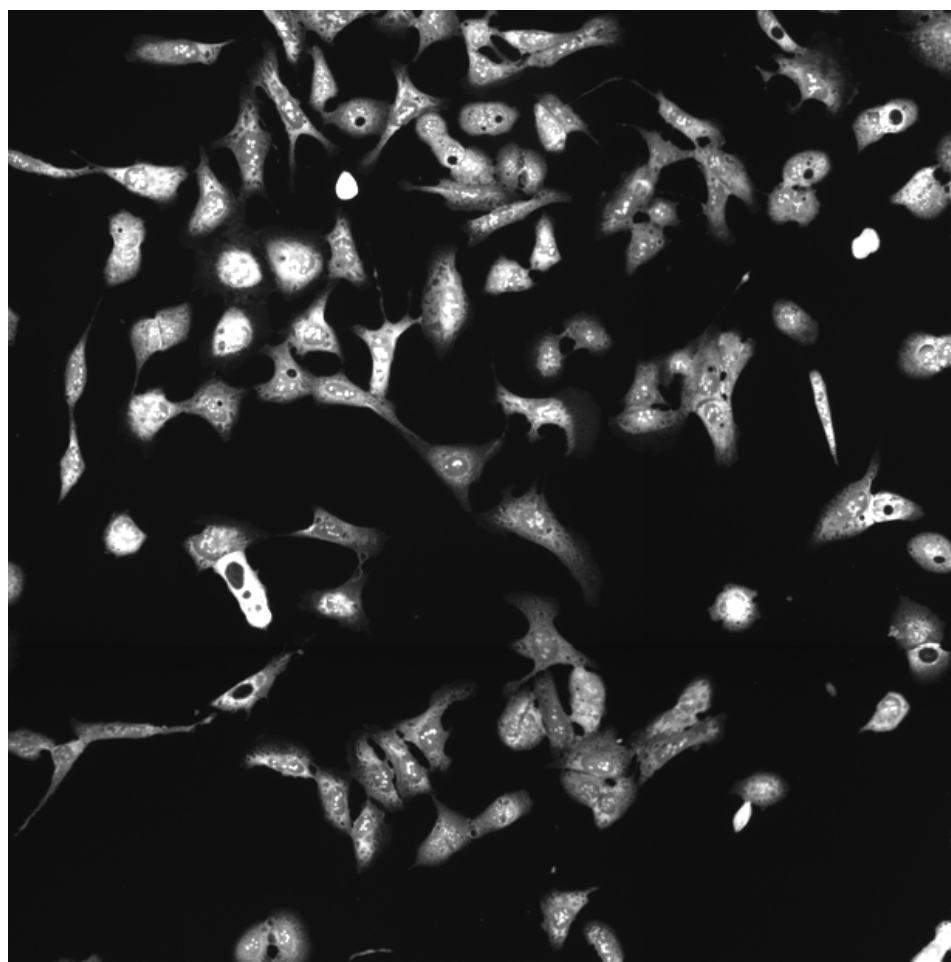
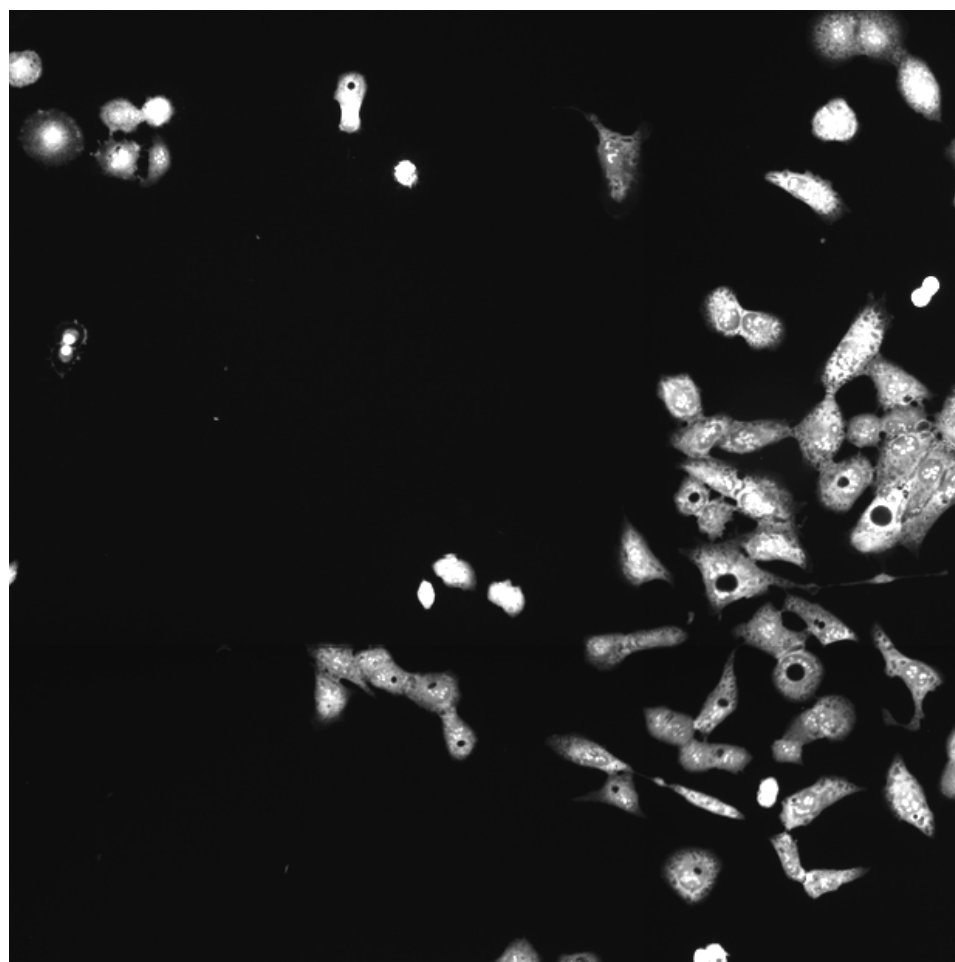
CEBPA.WT.1 (41755)

CEBPA.WT.1 (41756)

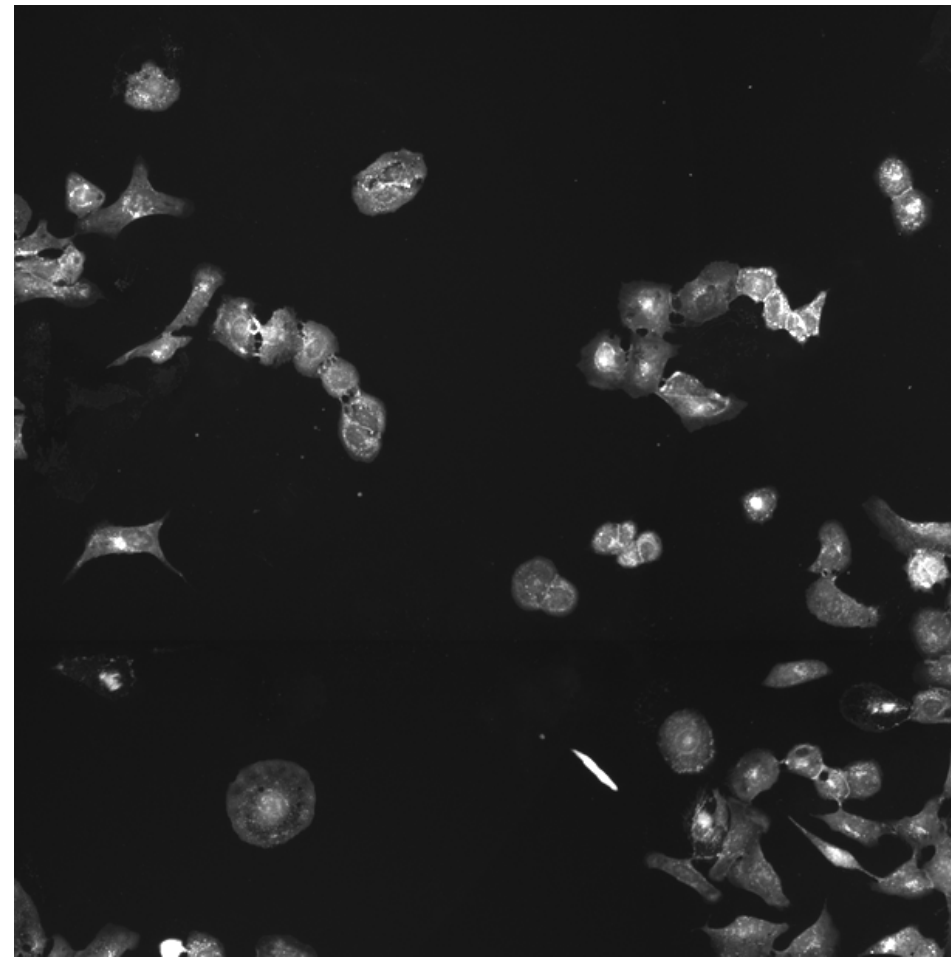
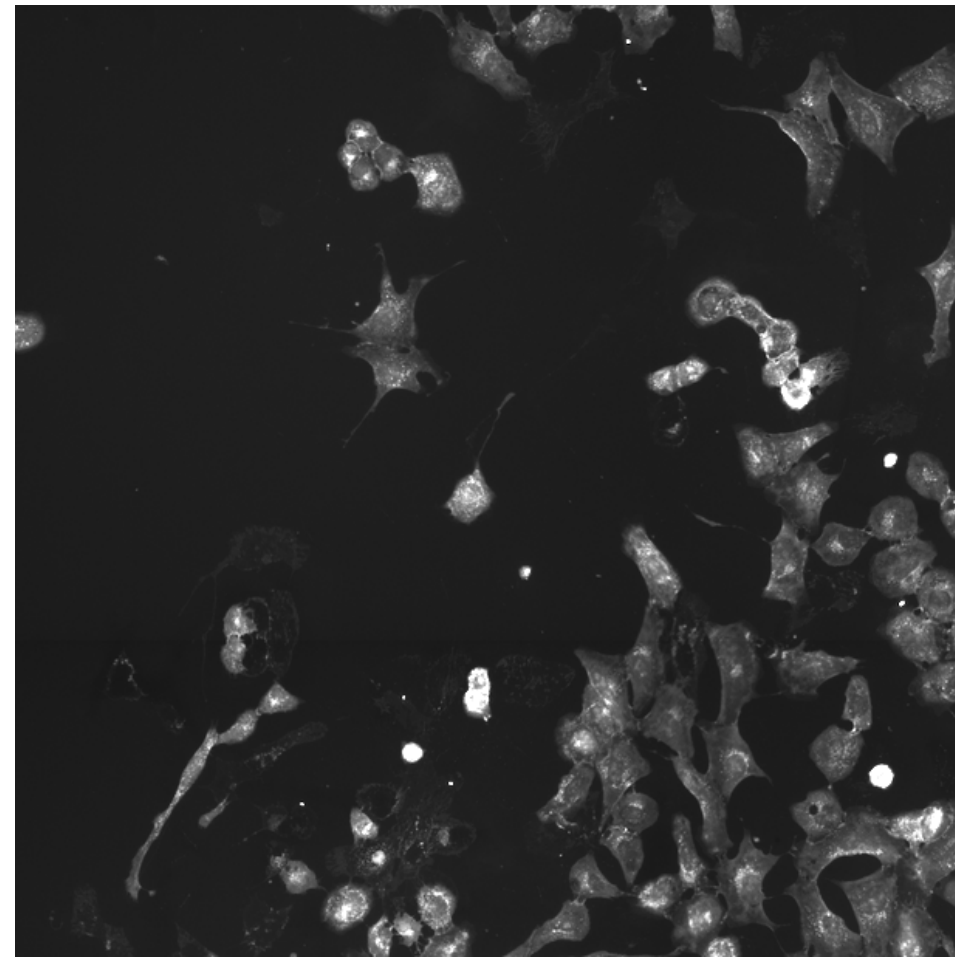
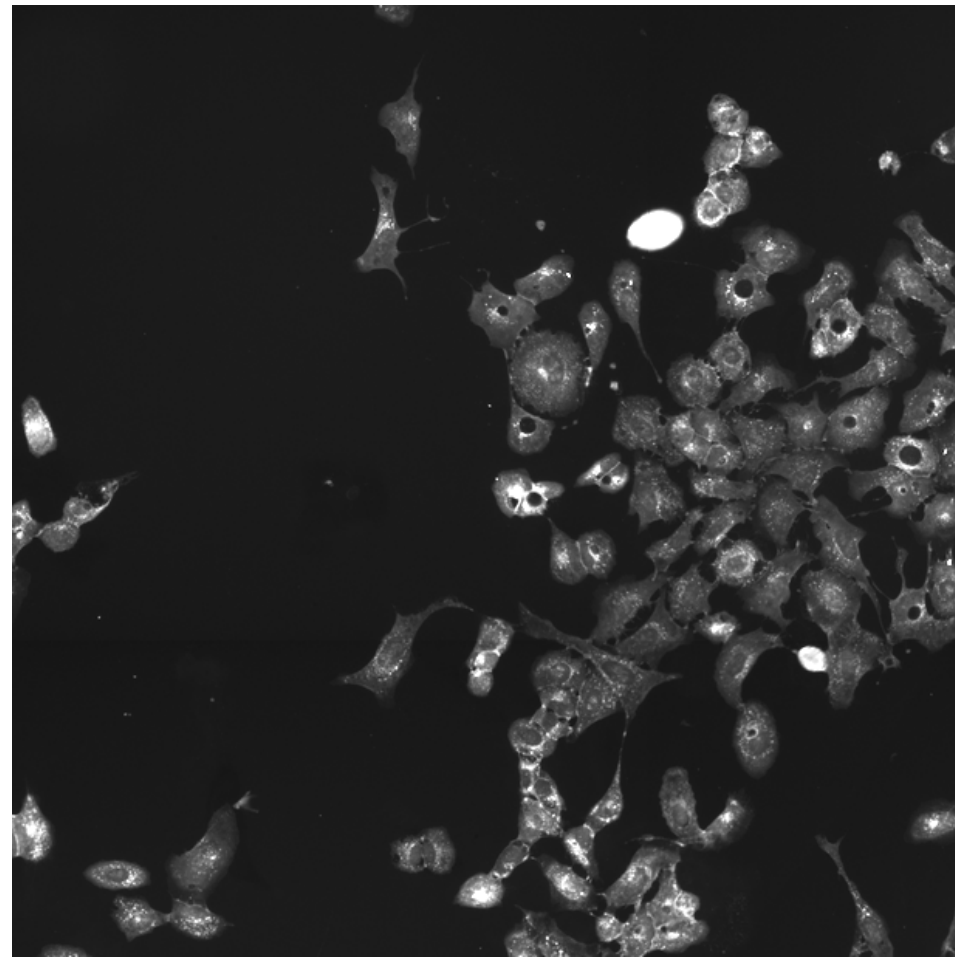
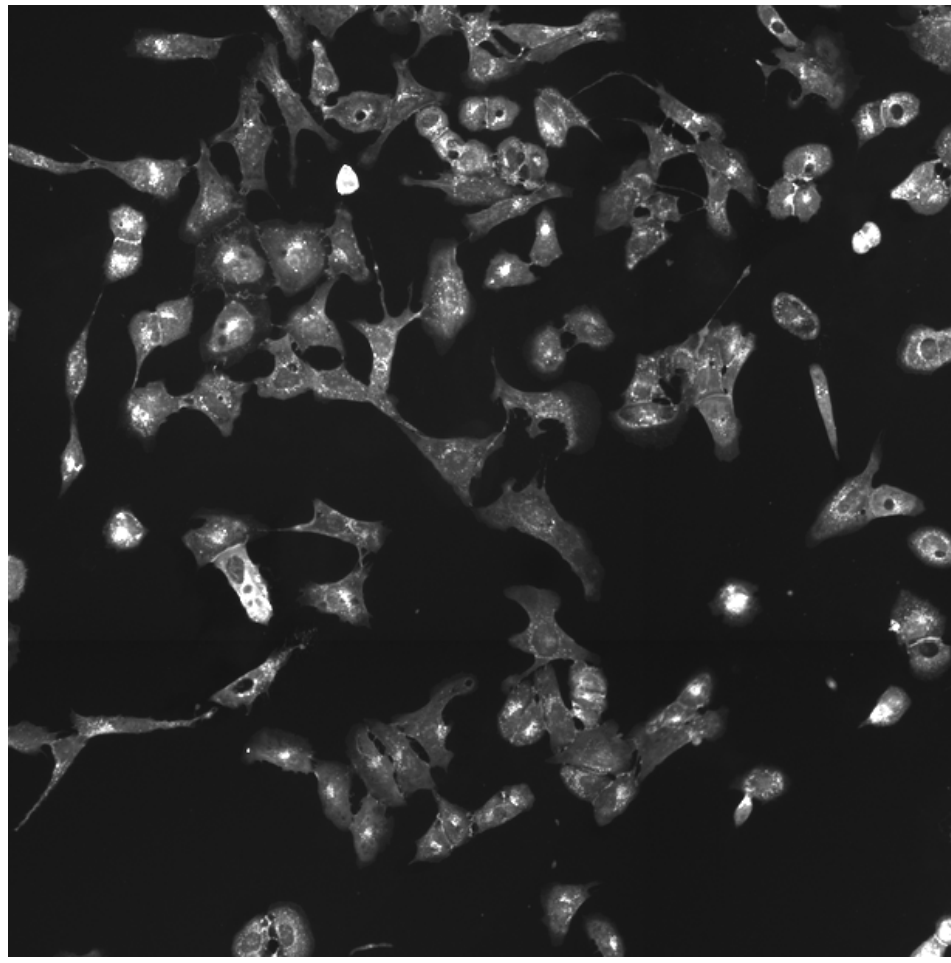
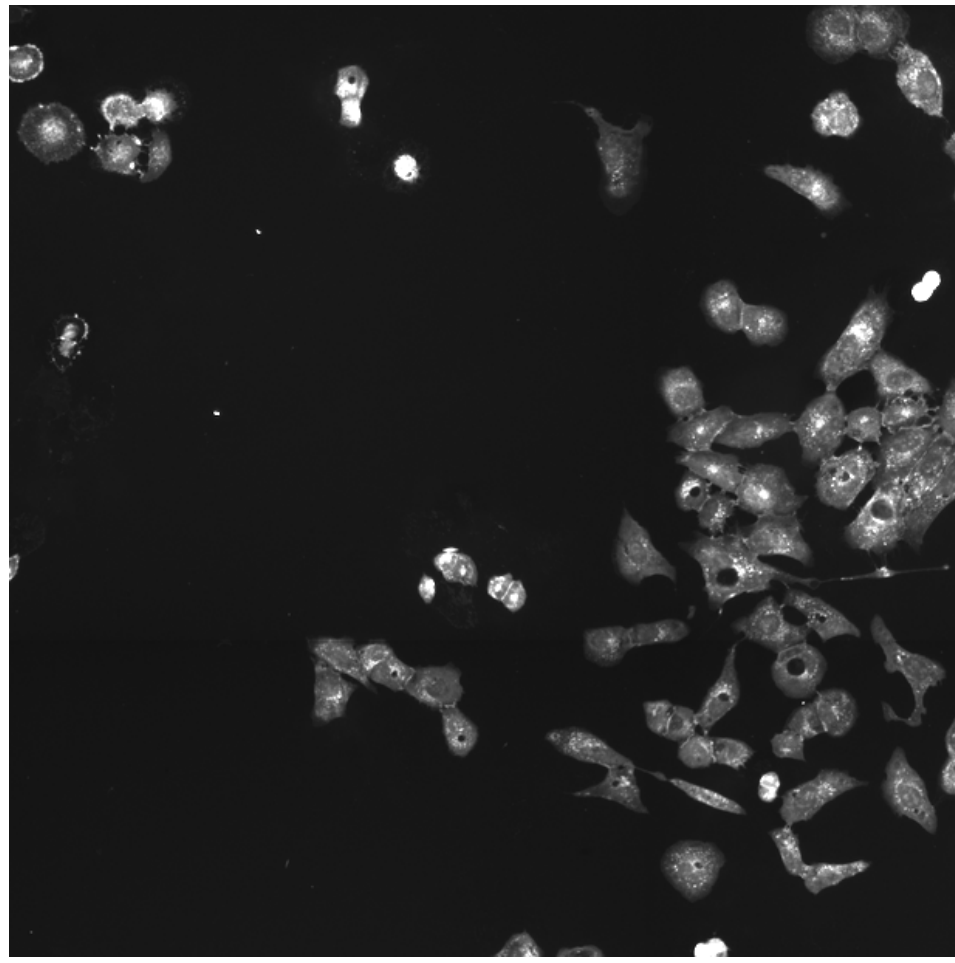
CEBPA.WT.1 (41757)

CEBPA.WT.1 (41754)

RNA



AGP



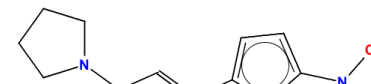
Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.52)	Correlation between compound 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-K91443444-001-01-9 PubChem CID : 44505159		0.74 (in 3 replicates)	0.62	0.104				Total number of assays tested in: 23.
BRD-K54166087-001-01-3 PubChem CID : 54646109		NA (in 1 replicates)	0.62	0.589				Total number of assays tested in: 41.
BRD-K54123736-001-01-9 PubChem CID : 49842957		0.69 (in 4 replicates)	0.62	0.139				Total number of assays tested in: 36.
BRD-K56591923-001-01-8 PubChem CID : 54639940		0.76 (in 4 replicates)	0.59	0.996				Total number of assays tested in: 36.
BRD-K30738885-001-01-2 PubChem CID : 54618807		0.74 (in 3 replicates)	0.58	0.202				Total number of assays tested in: 34.
BRD-K89567872-001-01-0 PubChem CID : 54646189		0.67 (in 3 replicates)	0.58	0.589				Total number of assays tested in: 37.
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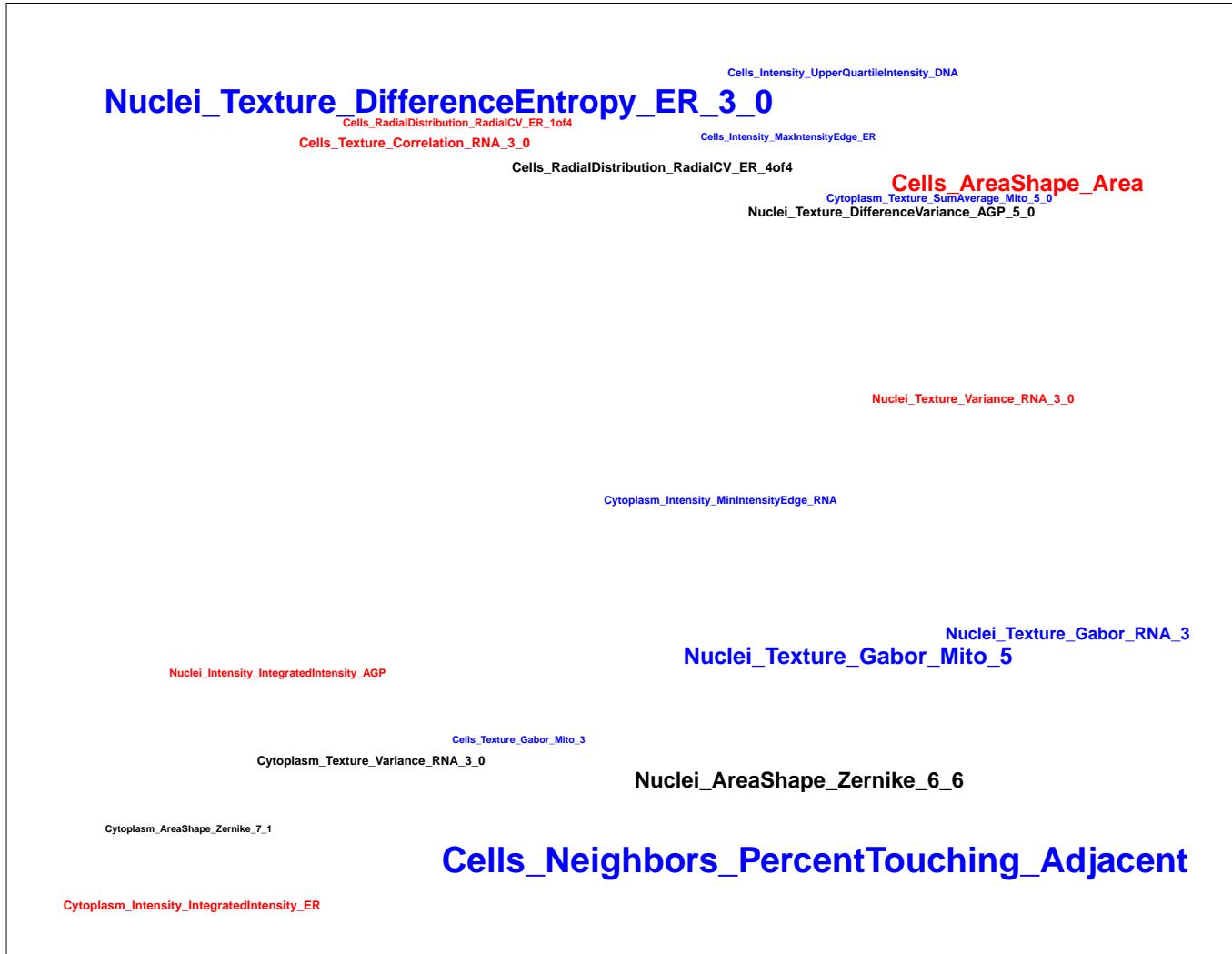
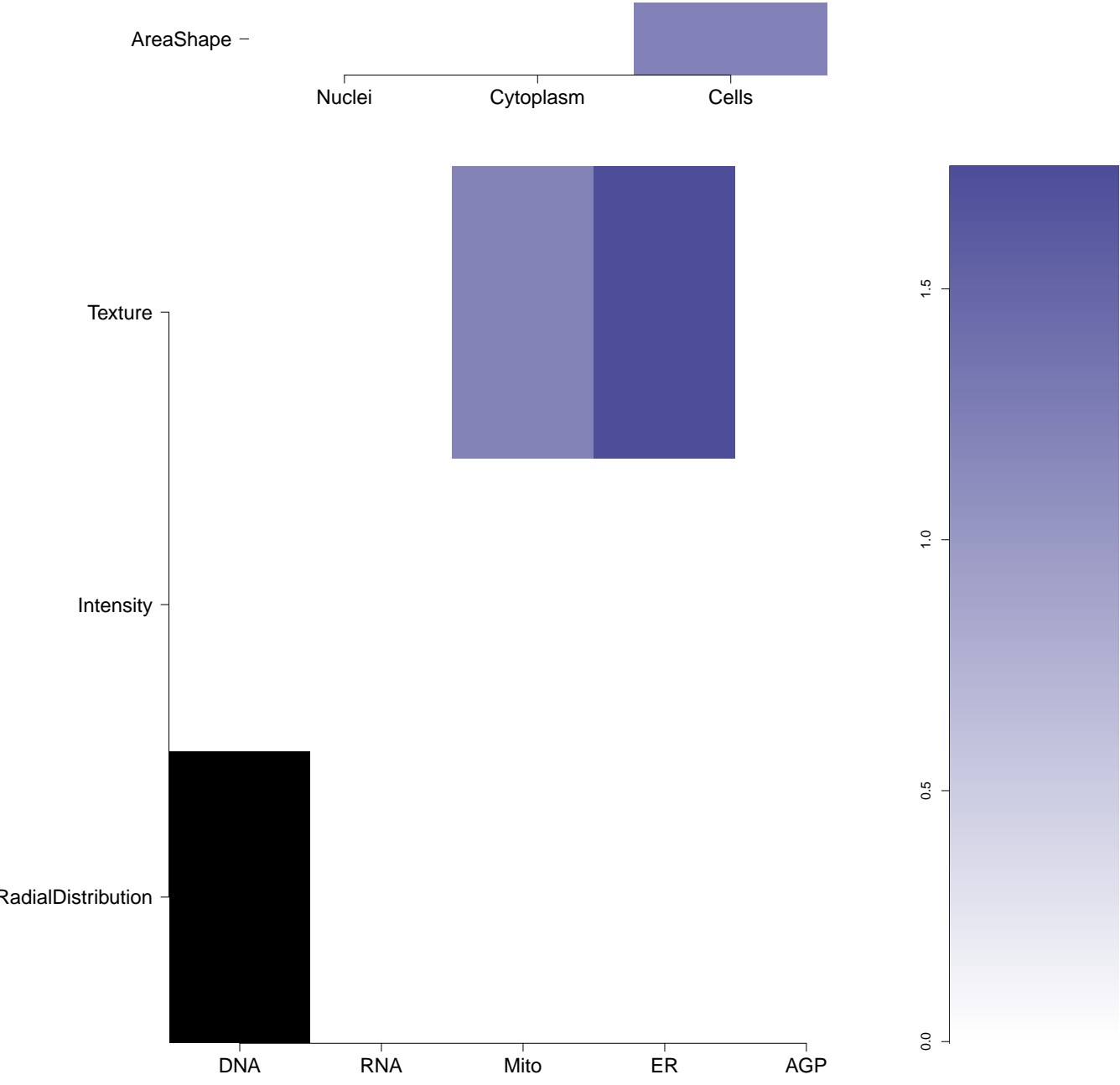
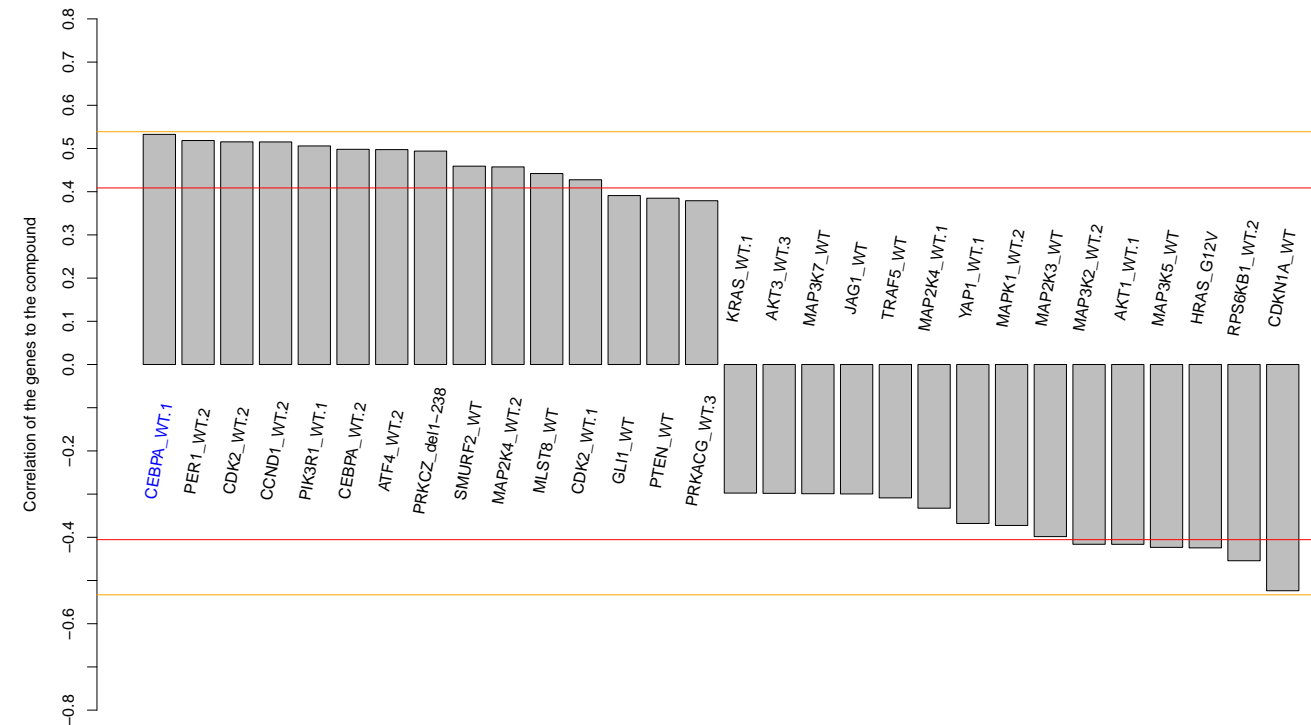
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0.71 (in 2 replicates)

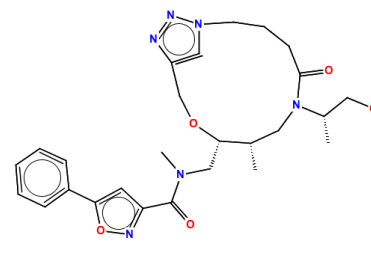
0.53

NA



- Total number of assays tested in: 633. Active in the following assays:
- Leishmania major promastigote HTS (AID 1063)
  - MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814)
  - Luminescence Cell-Based/Microorganism Primary HTS to Identify Inhibitors of T.Cruzi Replication (AID 1885)
  - Aqueous Solubility from MLSMR Stock Solutions (AID 1996)
  - Luminescence Cell-Based/Microorganism Dose Confirmation HTS to Identify Inhibitors of T.Cruzi Replication. (AID 2044)
  - VP16 counter-screen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546)
  - qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)
  - FRET-based cell-based primary high throughput screening assay to identify antagonists of the orexin 1 receptor (OX1R; HCRT1R) (AID 455270)
  - qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxiredoxins (AID 485364)
  - MTF Measured in Cell-Based System Using Plate Reader - 2084-01.Inhibitor.DoseNoFile.CherryPick.Activity.Set4 (AID 488899)
  - MTF Measured in Cell-Based System Using Plate Reader - 2084-01.Inhibitor.DoseNoFile.CherryPick.Activity.Set4 (AID 493073)
  - MTF Measured in Cell-Based System Using Plate Reader - 2084-01.Inhibitor.DoseNoFile.CherryPick.Activity.Set4 (AID 493102)
  - MTF Measured in Cell-Based System Using Plate Reader - 2084-01.Inhibitor.DoseNoFile.CherryPick.Activity.Set4 (AID 493177)
  - Nrf2 qHTS screen for inhibitors (AID 504444)
  - qHTS screen for small molecules that inhibit ELG1-dependent DNA repair in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504467)
  - Primary qHTS for delayed death inhibitors of the malarial parasite plasmodium, 48 hour incubation (AID 504832)
  - Primary qHTS for delayed death inhibitors of the malarial parasite plasmodium, 96 hour incubation (AID 504834)
  - Small Molecules that selectively kill Giardia lamblia: qHTS (AID 540267)
  - qHTS for Inhibitors of Cell Surface uPA Generation (AID 540303)
  - qHTS of small molecules that selectively kill Giardia lamblia: Hit Validation. (AID 588397)
  - Primary cell-based high-throughput screening for identification of compounds that antagonize MrgX1 receptor signaling (AID 588676)
  - qHTS for Inhibitors of TGF- $\beta$  (AID 588855)
  - qHTS for Inhibitors of TGF- $\beta$  Cytotox Counter-screen (AID 588856)
  - HTS to identify compounds that promote myeloid differentiation with MLPCN compound set (AID 624256)
  - A quantitative high throughput screen for small molecules that induce DNA re-replication in SW480 colon adenocarcinoma cells. (AID 624297)
  - 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 Stage-Specific Inhibitors of Vaccinia Orthopoxvirus: Venns Reporter Primary qHTS (AID 720580)

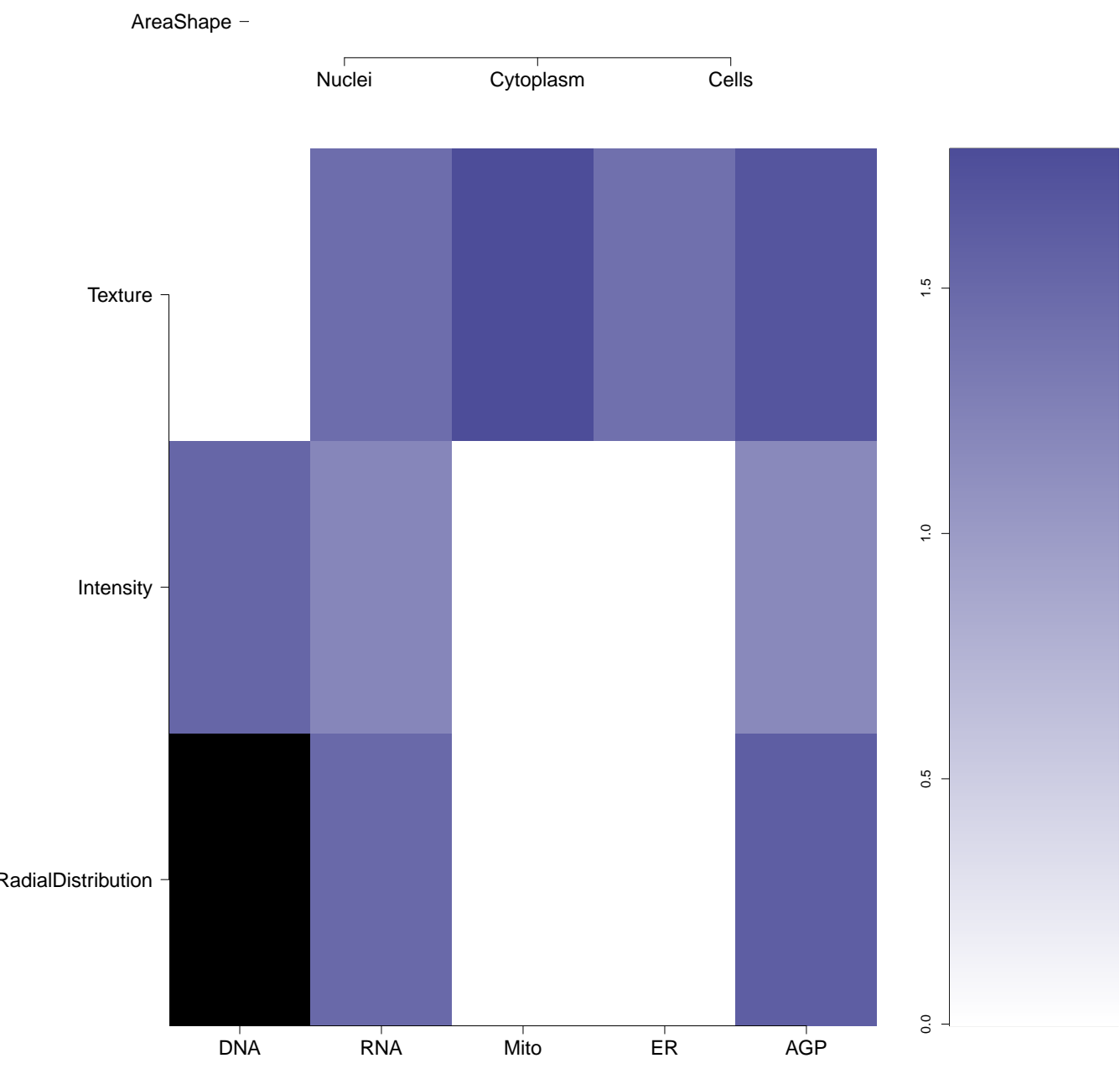
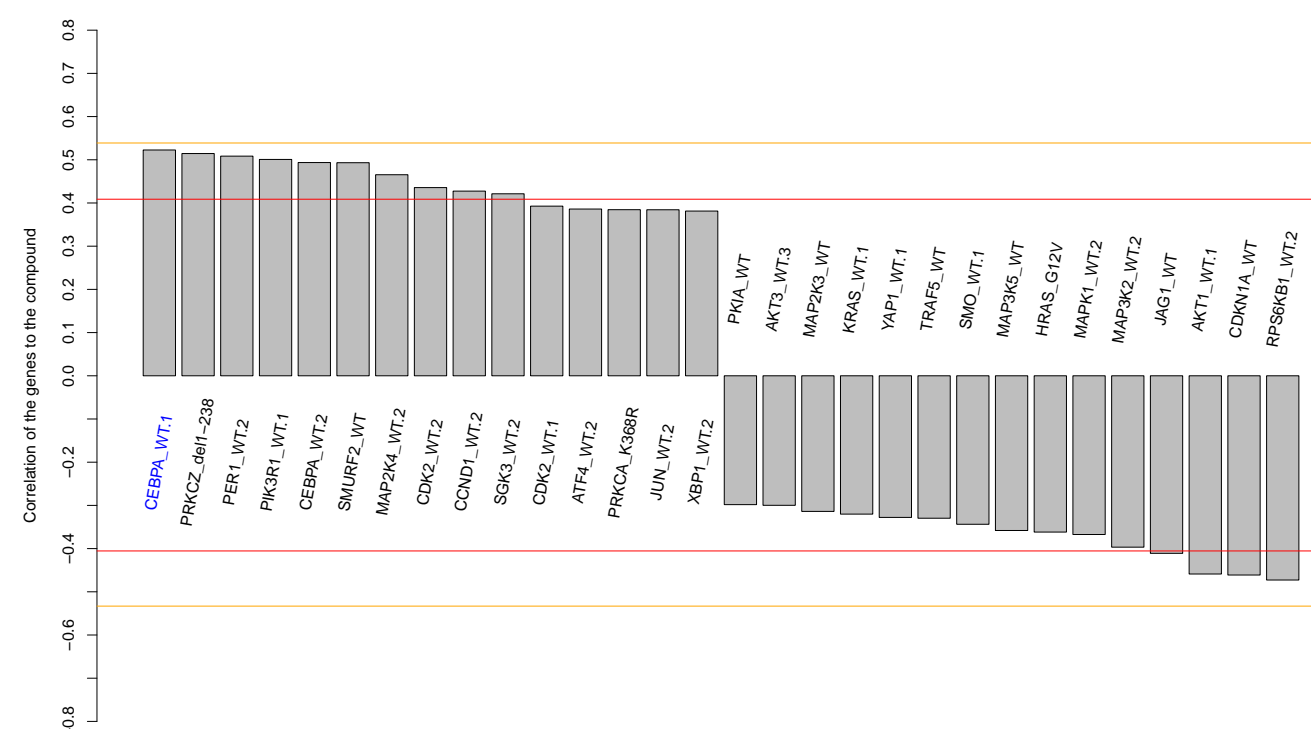
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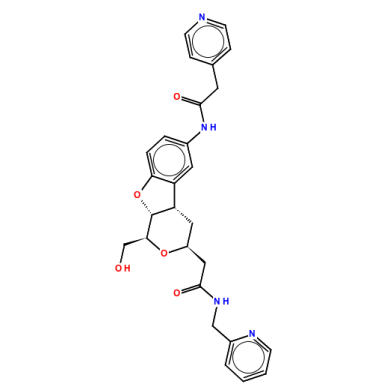
0.52

0.589



Total number of assays tested in: 35.

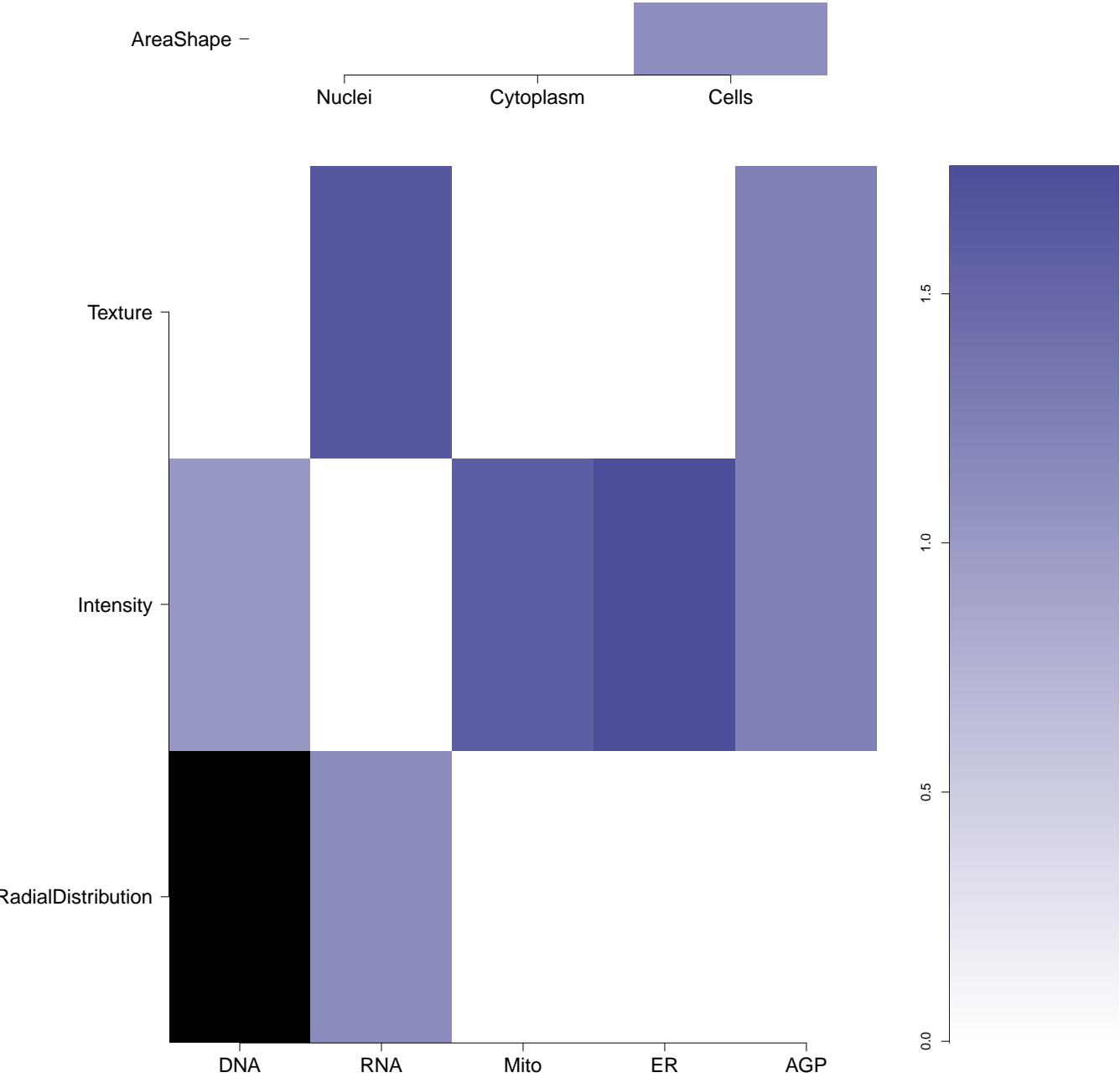
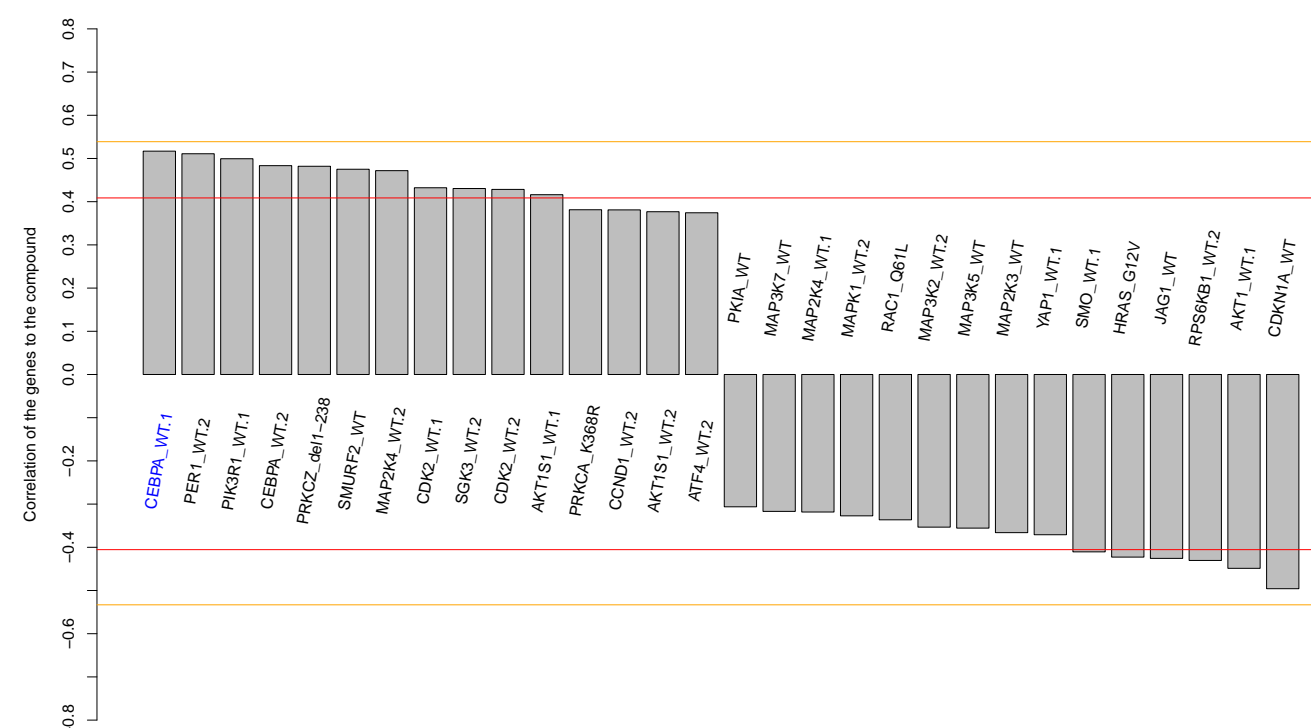
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0.72 (in 4 replicates)

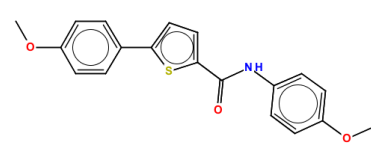
0.52

0.589



Total number of assays tested in: 37.

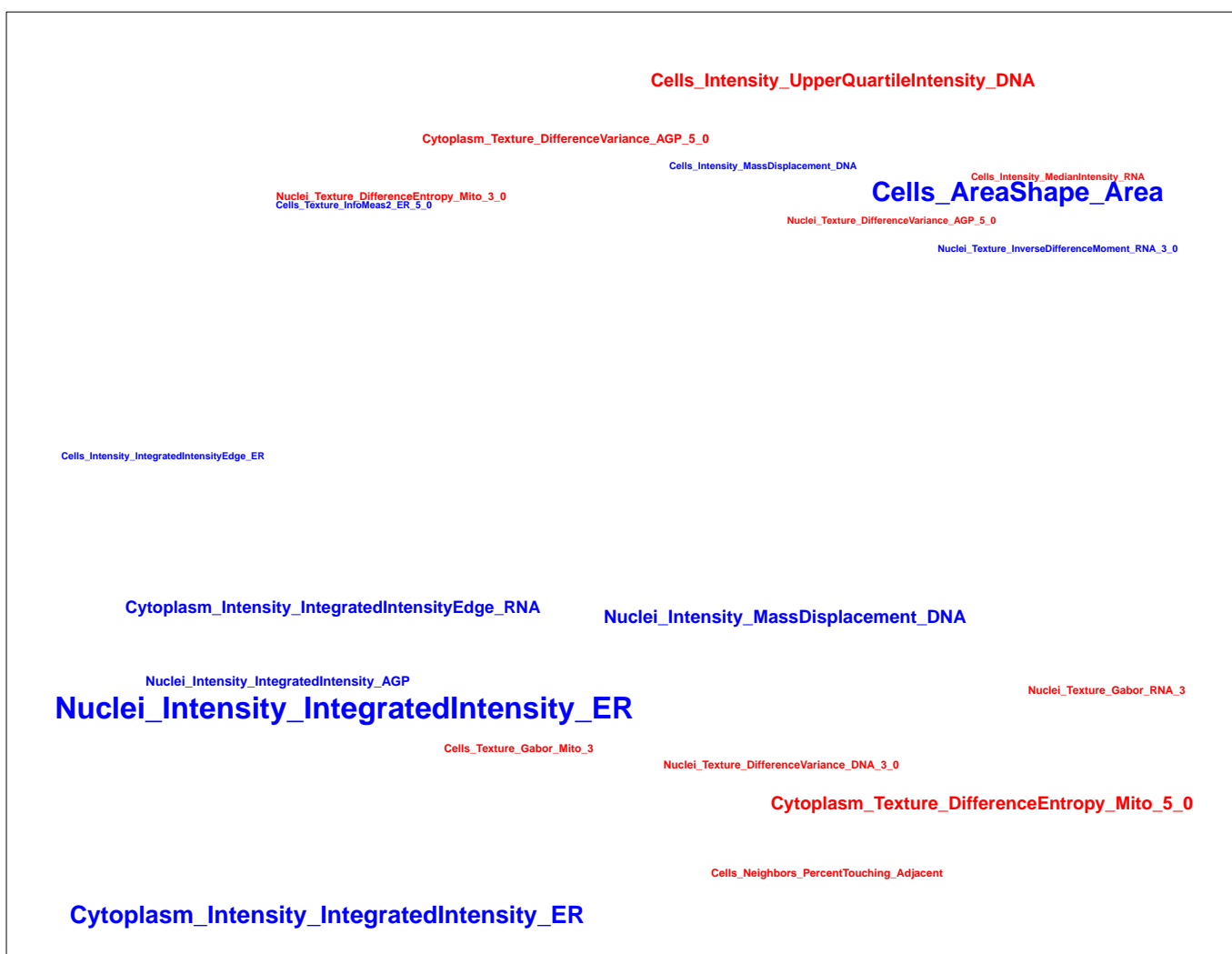
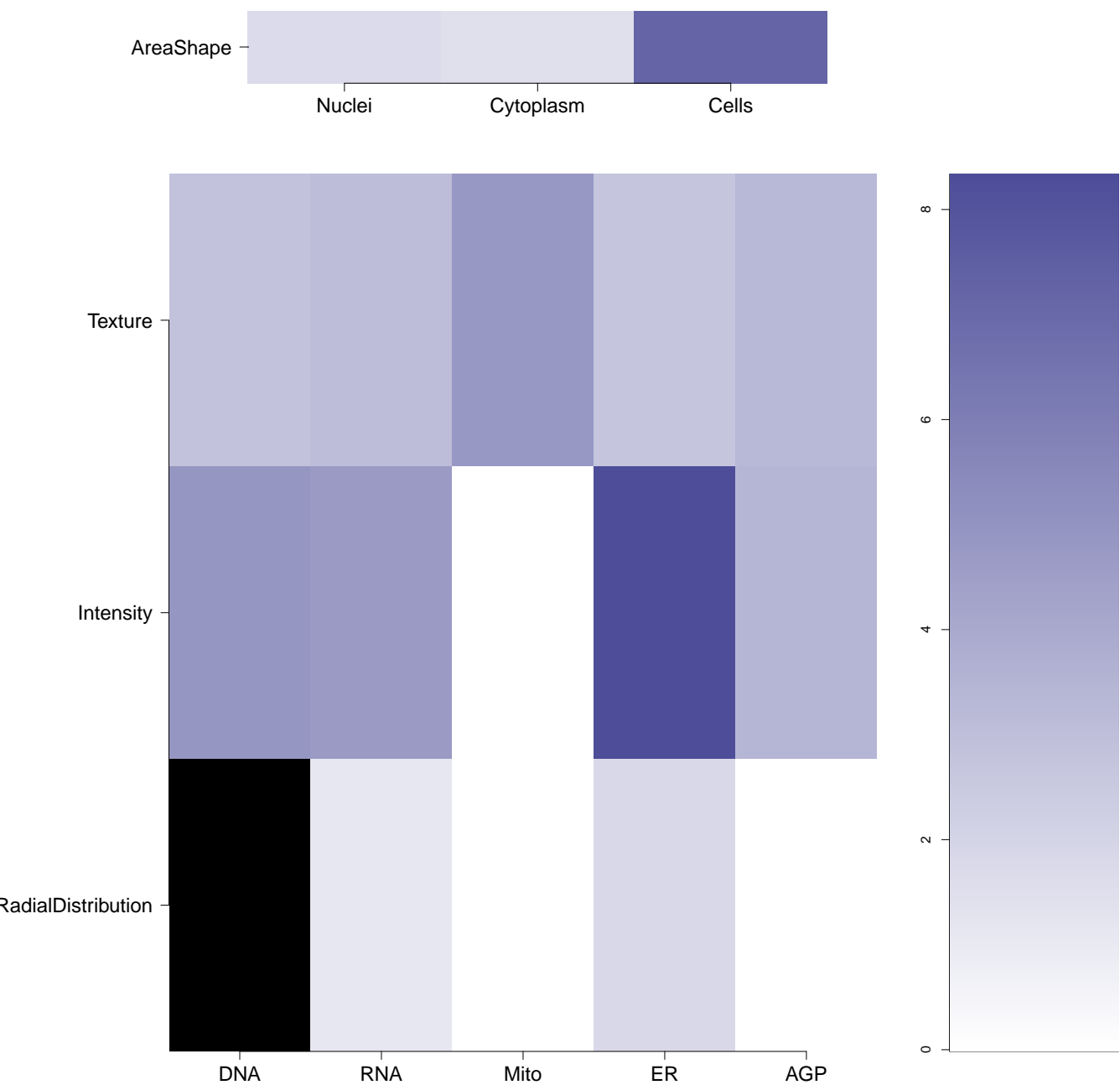
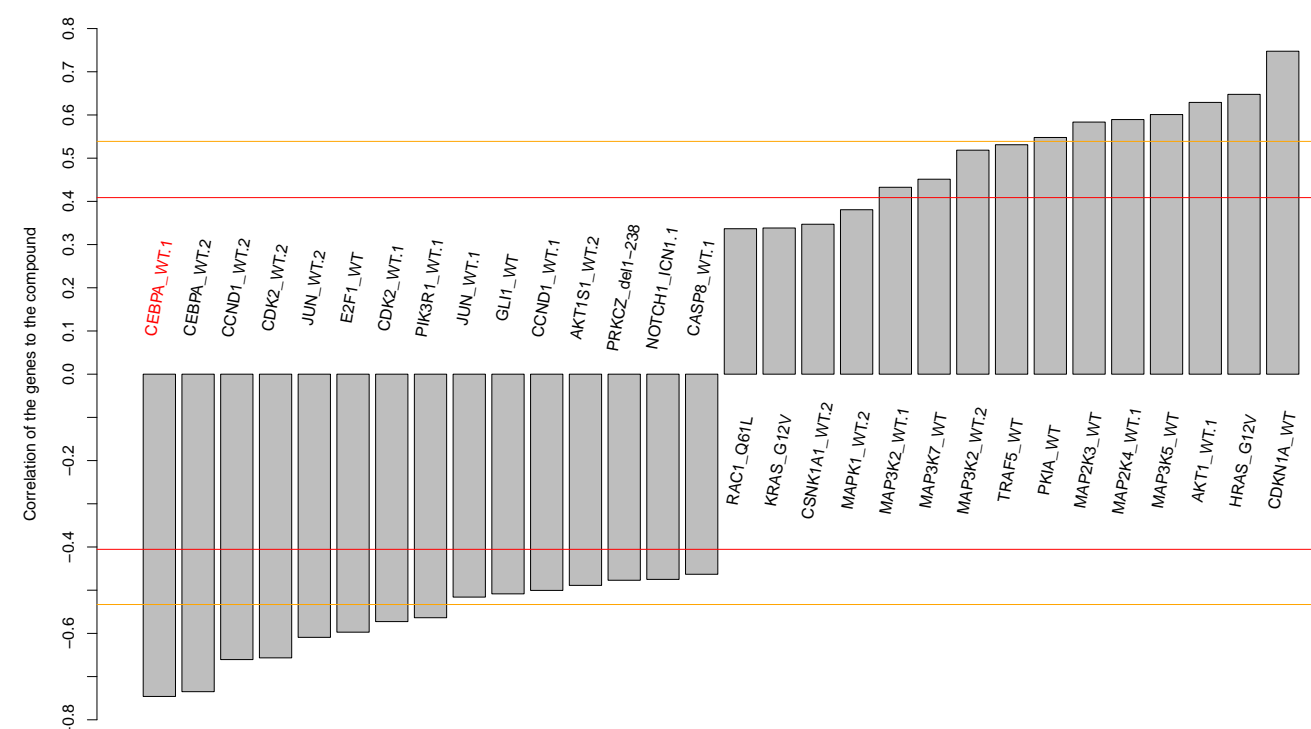
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NA (in 1 replicates)

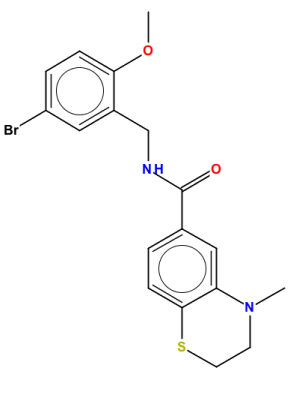
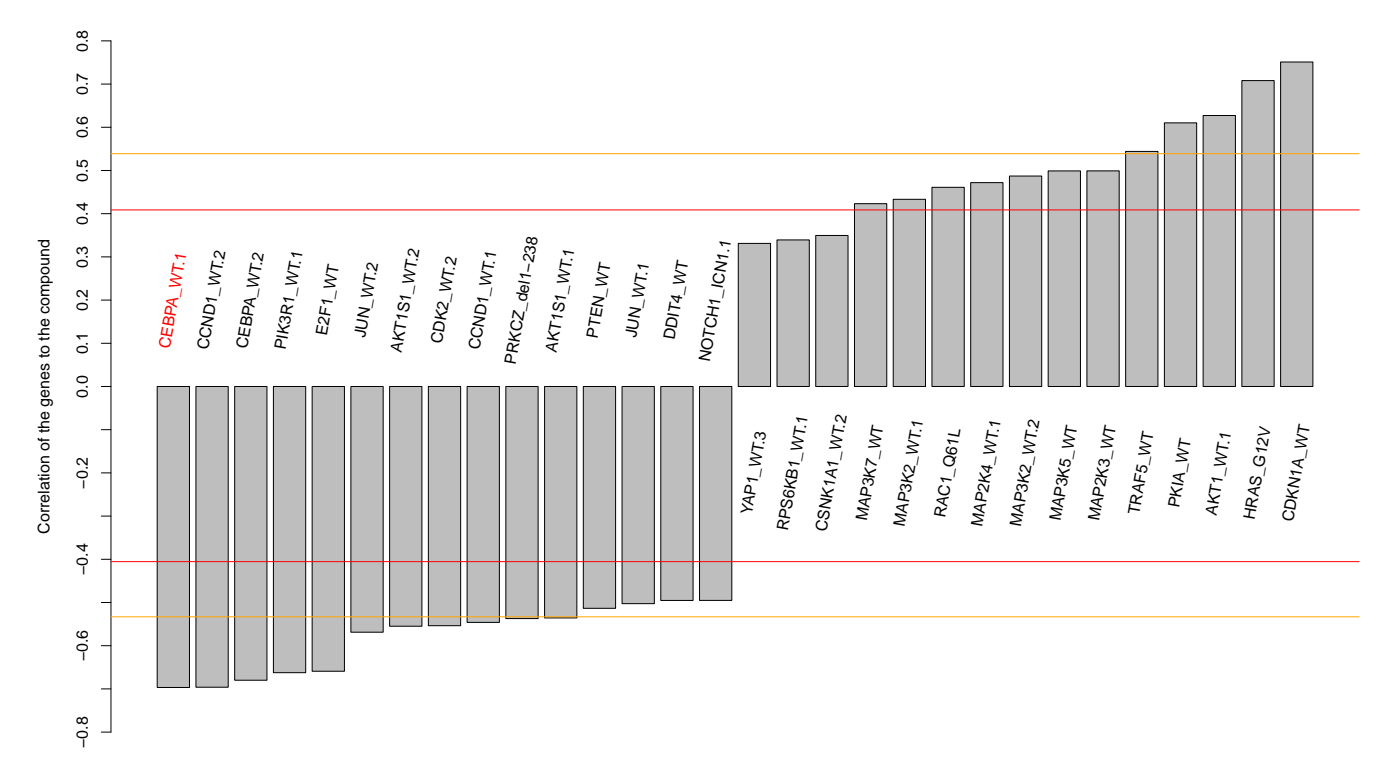
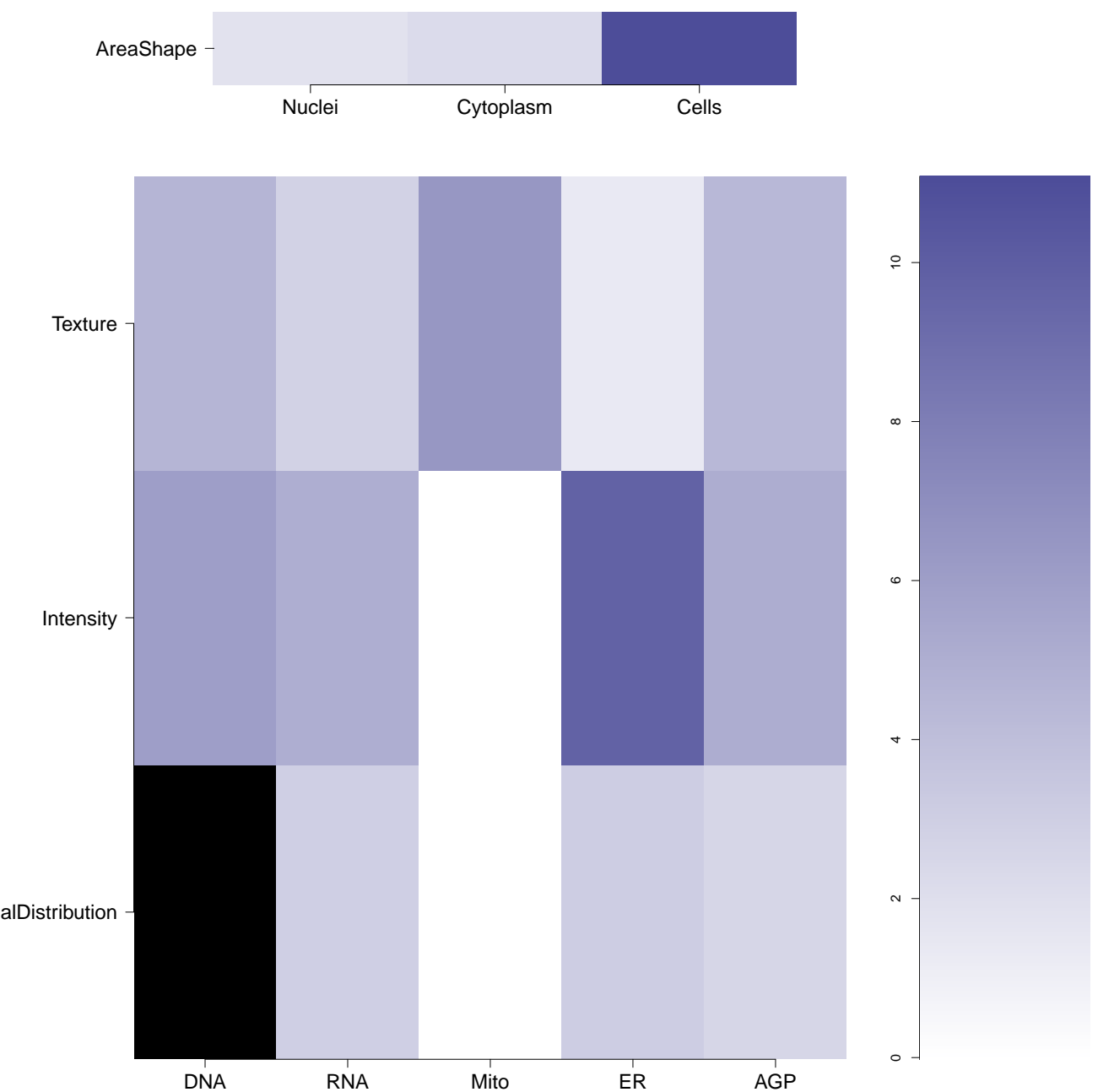
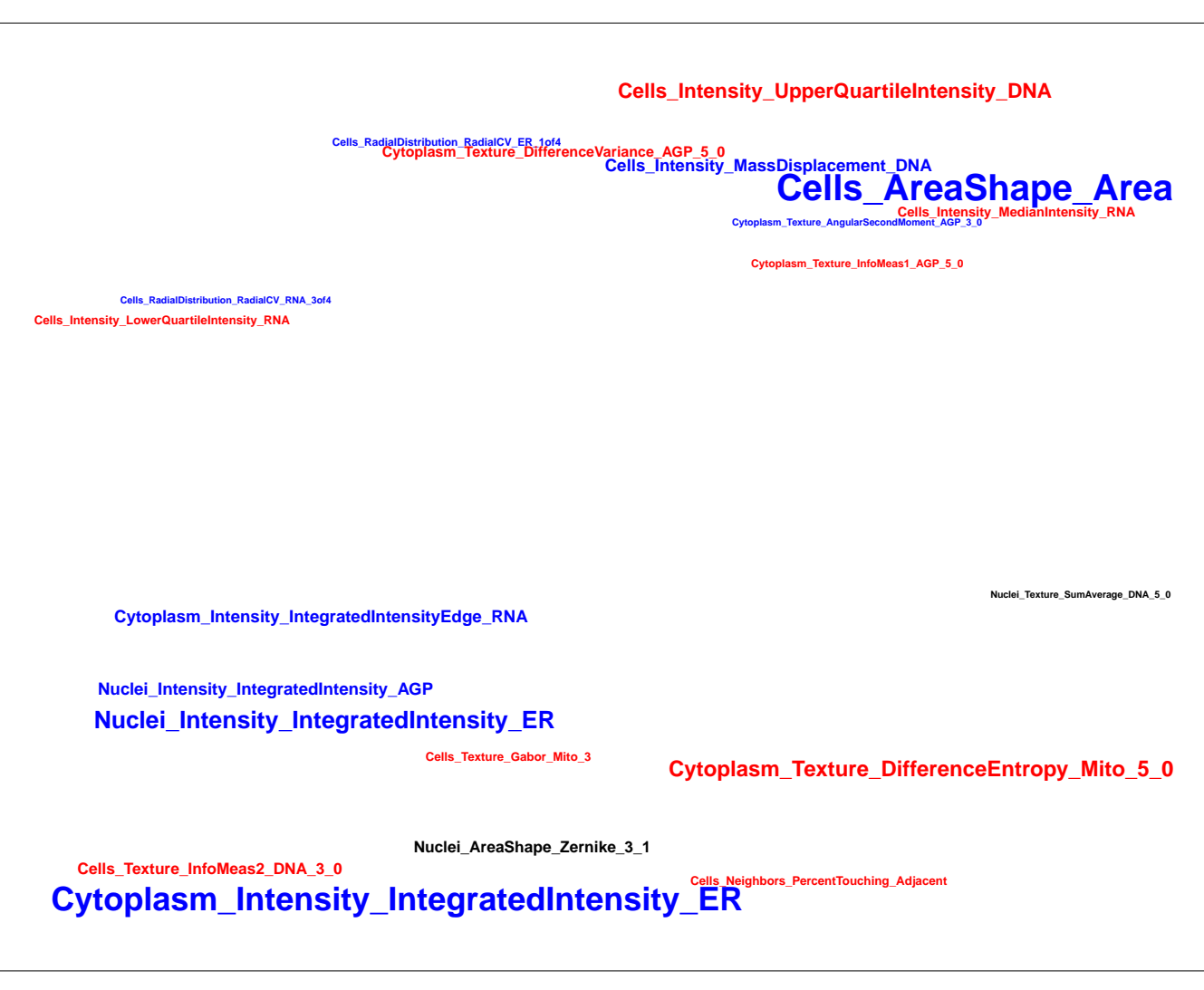
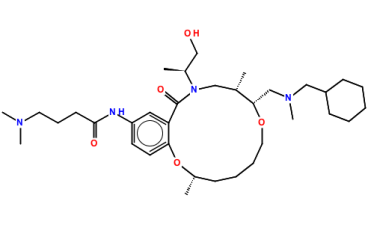
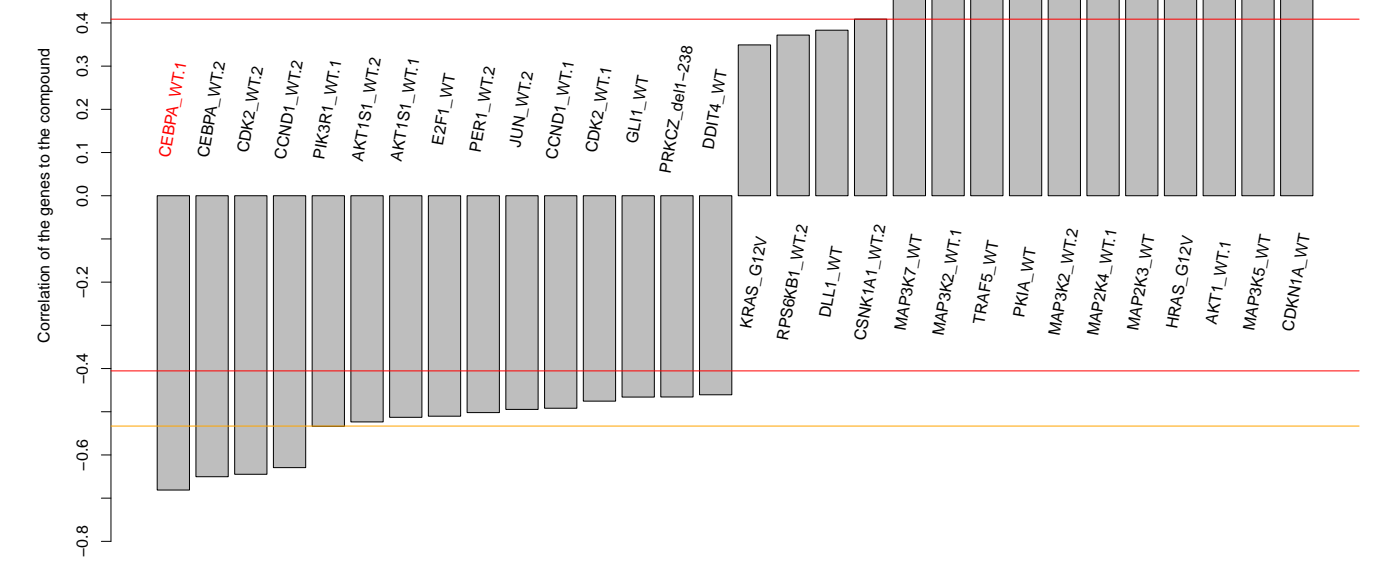
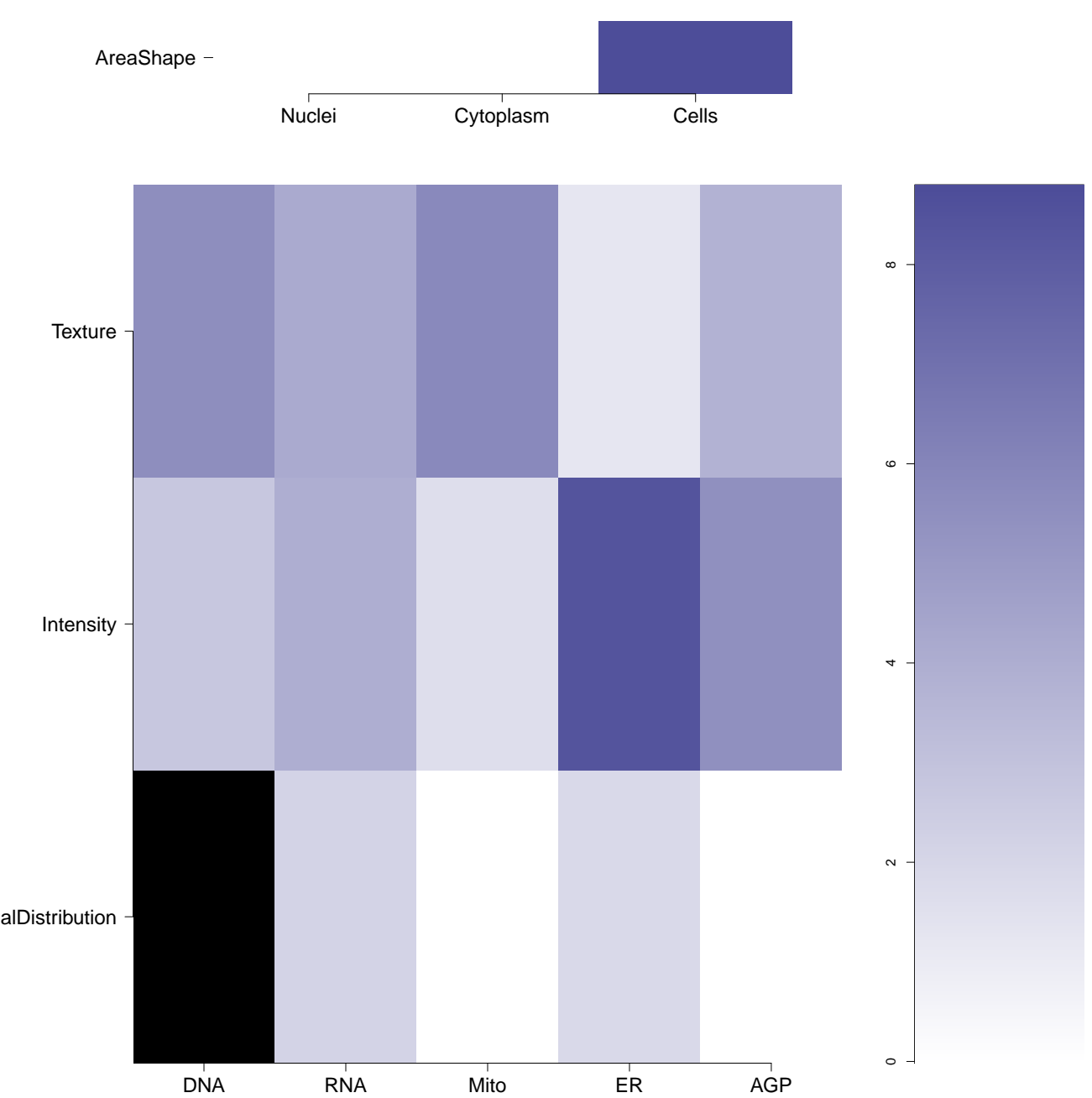

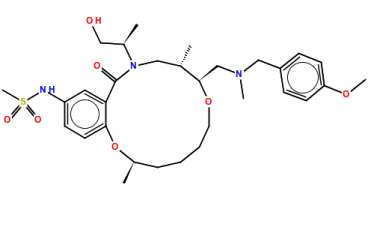
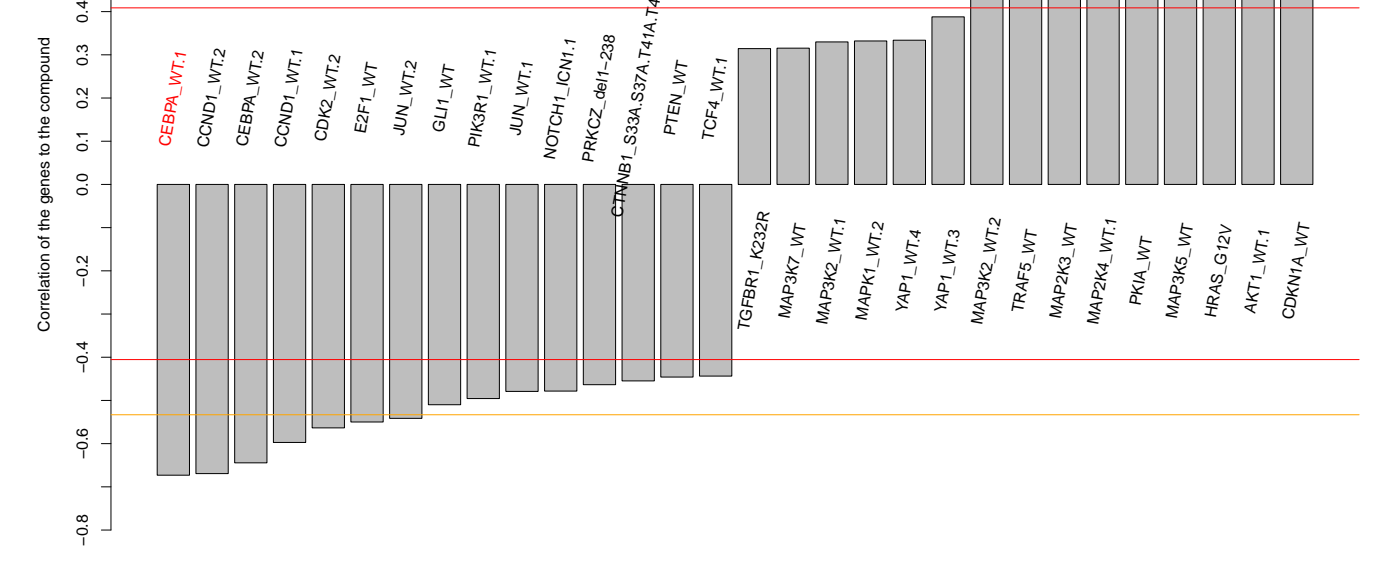
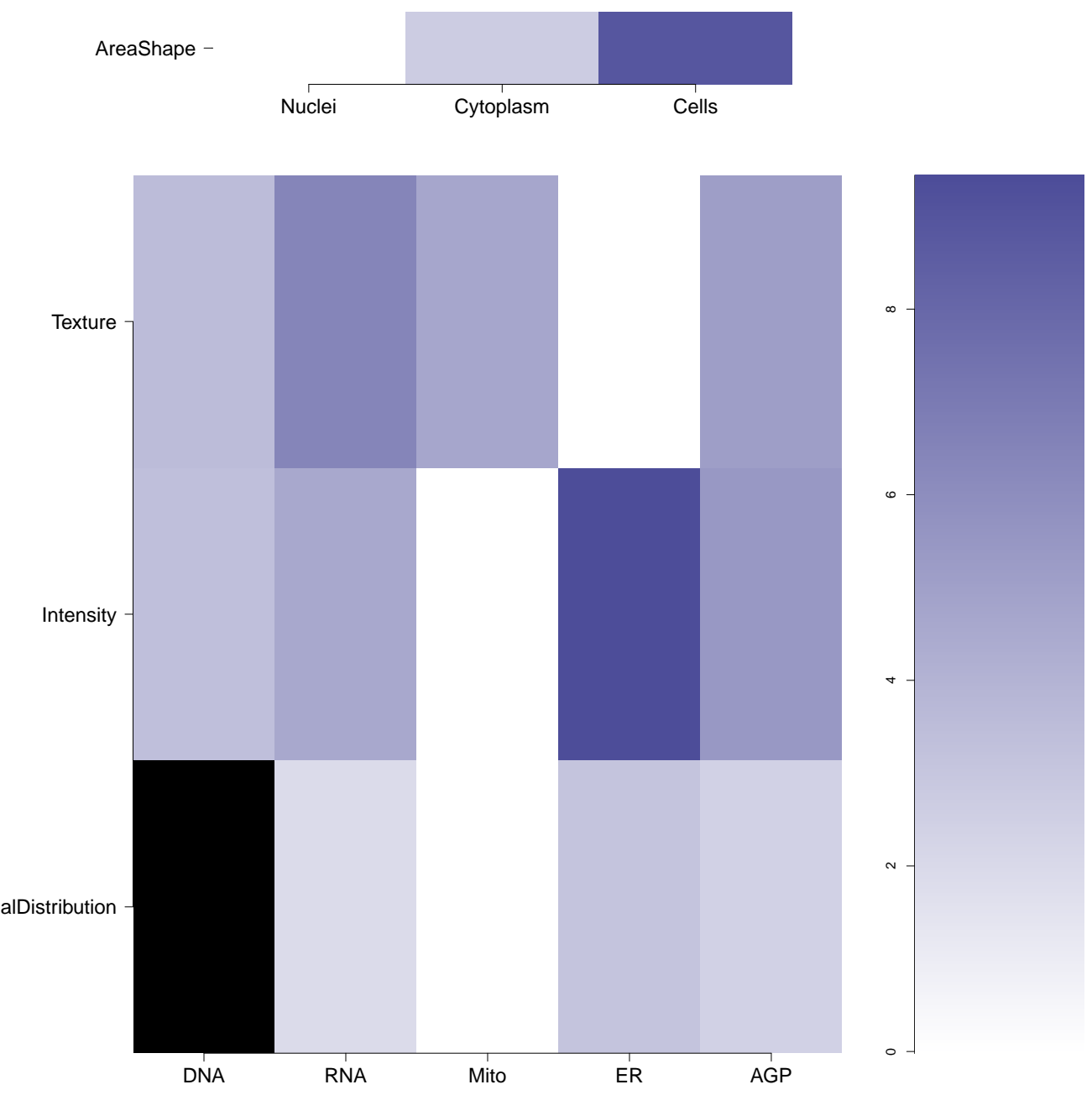
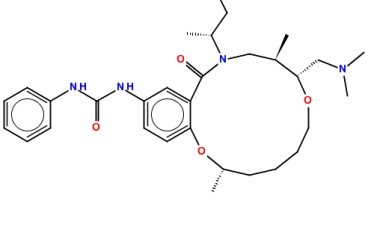
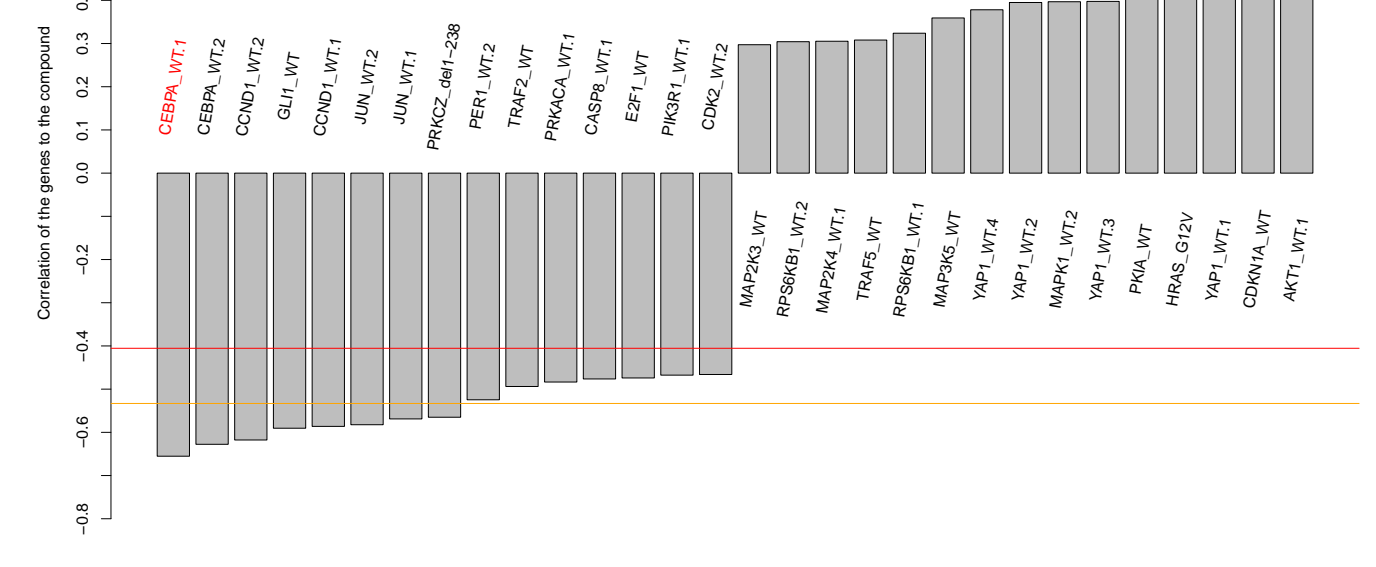
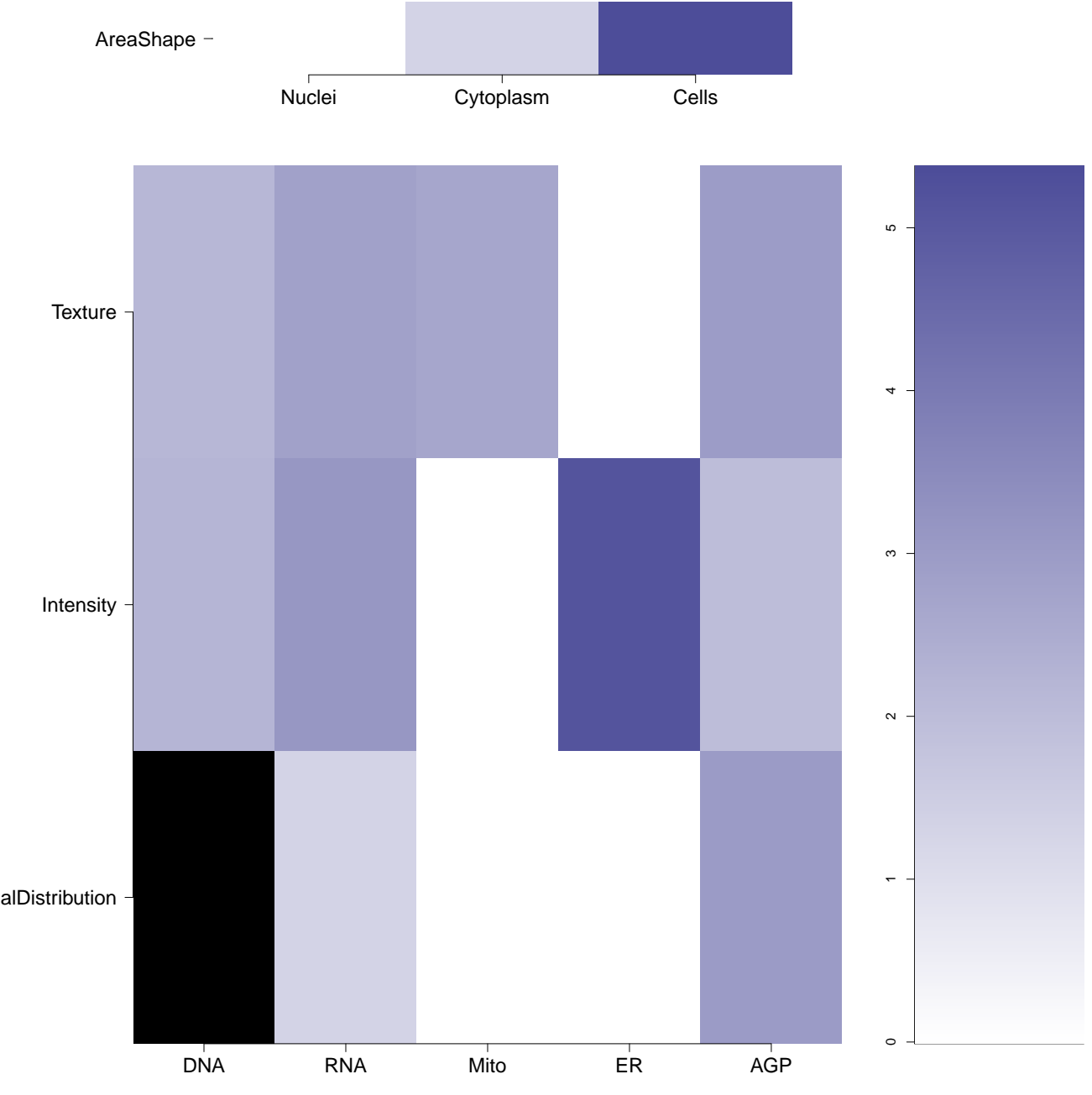
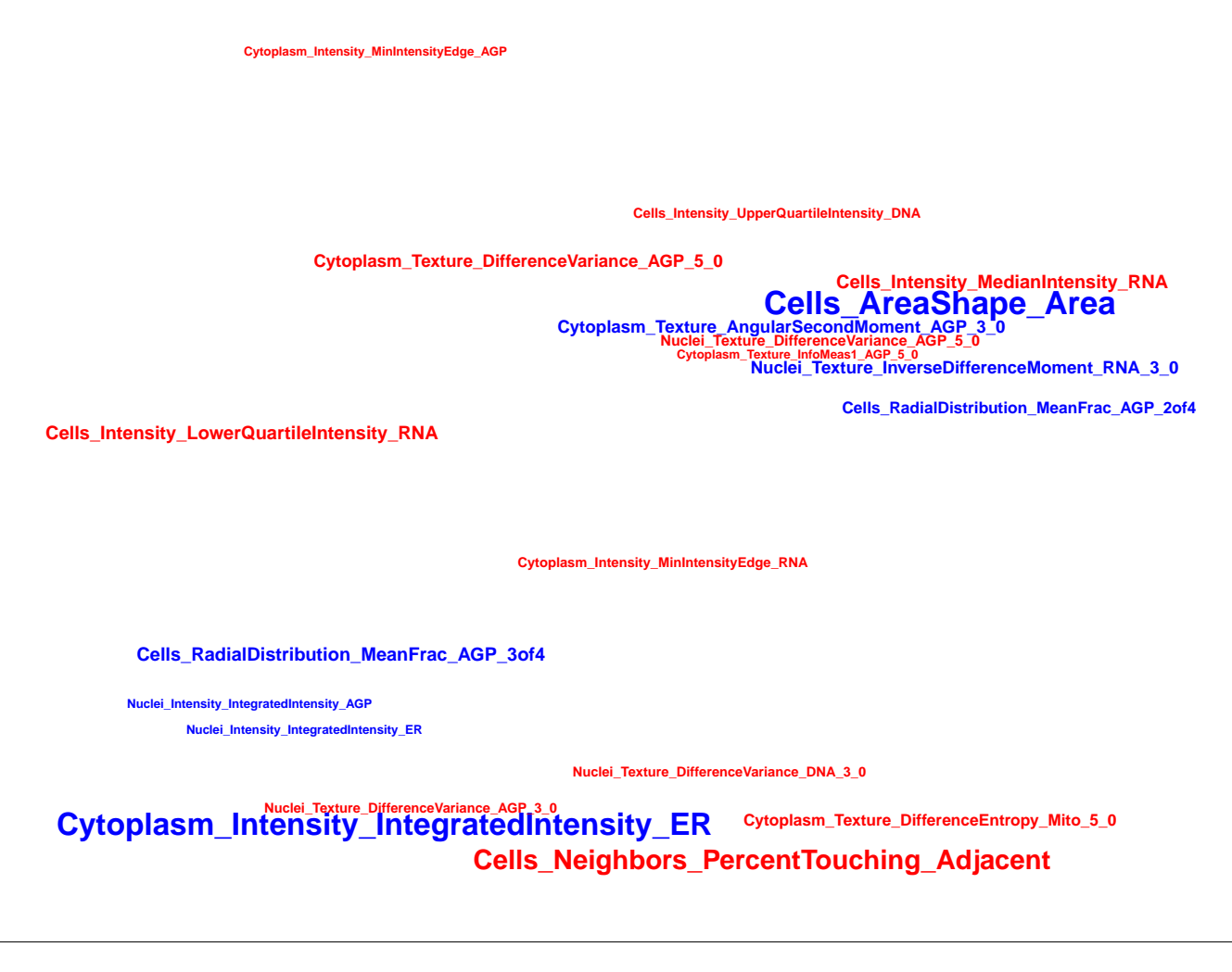
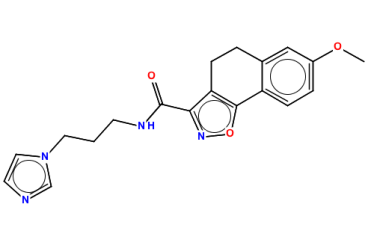
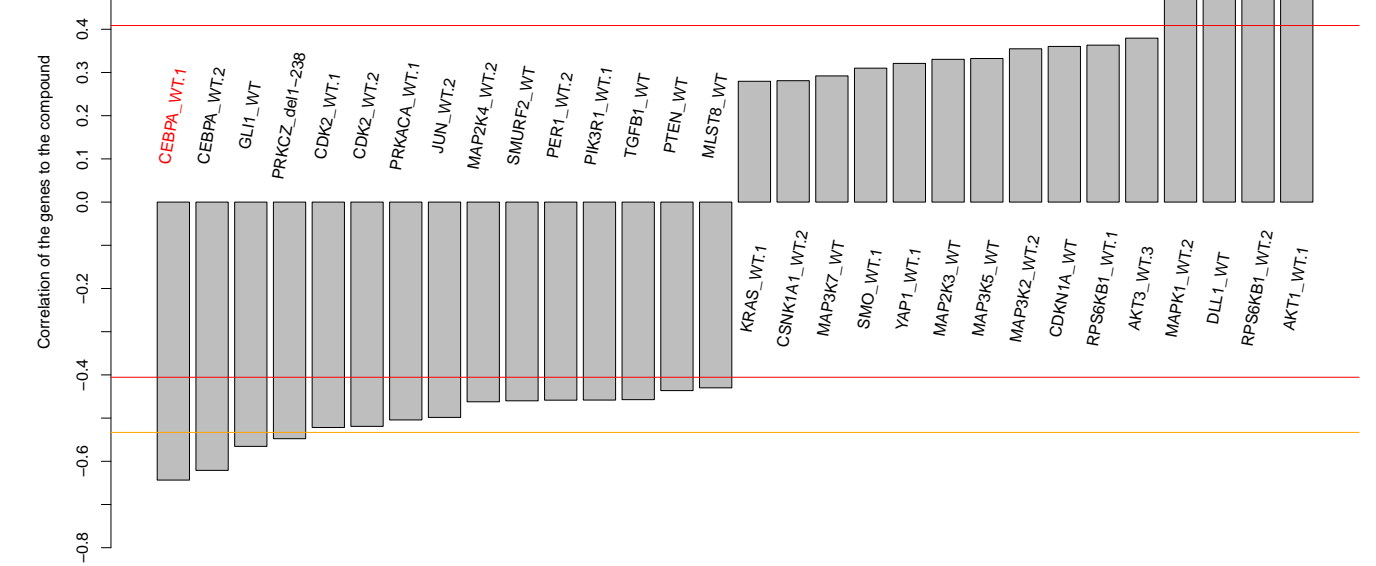
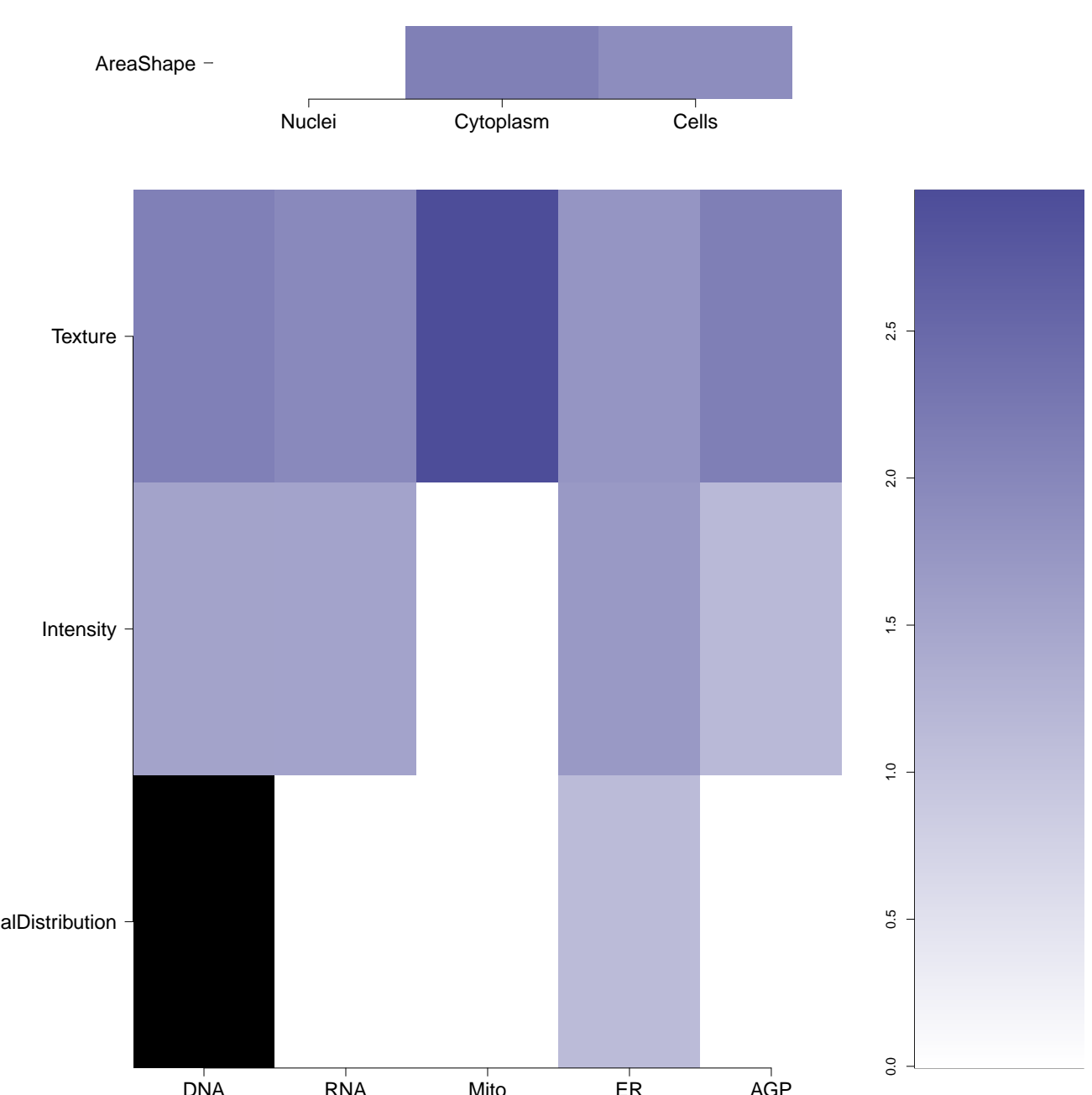

-0.75

NA



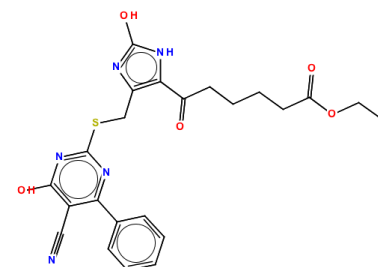
- Total number of assays tested in: 630. Active in the following assays:
- qHTS Assay for Enhancers of SMN2 Splice Variant Expression (AID 1458)
  - A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315)
  - Luminescence-based cell-based primary high throughput screening assay to identify biased ligands of the melanocortin 4 receptor (MC4R): agonists of MC4R (AID 540308)
  - HTS to Find Inhibitors of Pathogenic Pampigus Antibodies (AID 588358)
  - Small Molecule Inhibitors of FGF22-Mediated Excitatory Synaptogenesis and Epilepsy Measured in Biochemical System Using RT-PCR - 7012-01.Inhibitor.SinglePoint.HTS.Activity (AID 651658)



BRD-K20777727-001-06-3 MLS001110838 HMS2237124 HMS3368L02 ZINC6750882 SMR000624653 PubChem CID : 20886483		NA (in 1 replicates)	-0.70	NA				<p>Total number of assays tested in: 497. Active in the following assays:</p> <ul style="list-style-type: none"><li>• MLPCN Platelet Activation -Dense Granule Release (AID 1663)</li><li>• Primary cell-based high-throughput screening assay for identification of compounds that inhibit KCNQ2 potassium channels (AID 2156)</li><li>• Luminescence-based, primary cell-based high throughput screening assay to identify activators of the Aryl Hydrocarbon Receptor (AHR) (AID 2796)</li><li>• FRET-based cell-based primary high throughput screening assay to identify antagonists of the orexin 1 receptor (OX1R; HCRTR1) (AID 485270)</li><li>• Fluorescence-based biochemical primary high throughput screening assay to identify inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 588726)</li><li>• Primary cell-based screen for identification of compounds that inhibit the two-pore domain potassium channel KCNK3 (AID 602410)</li><li>• Fluorescence-based biochemical high throughput confirmation assay for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 651616)</li><li>• Confirmation assay for identification of compounds that inhibit the two-pore domain potassium channel KCNK3 [Primary Screening] (AID 651638)</li><li>• Counterscreen for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis: Fluorescence-based biochemical high throughput Glycerophosphate Dehydrogenase-Triosephosphate Isomerase (GDH-TPI) assay to identify assay artifacts (AID 652141)</li><li>• qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979)</li><li>• TRFRET-based cell-based primary high throughput screening assay to identify inhibitors of cell surface Prion Protein (PRPC) (AID 720596)</li><li>• TRFRET-based cell-based high throughput confirmation assay to identify inhibitors of cell surface Prion Protein (PRPC) (AID 743200)</li></ul>
BRD-K97638135-001-01-2 PubChem CID : 54614959		0.86 (in 4 replicates)	-0.68	0.825				<p>Total number of assays tested in: 19. Active in the following assays:</p> <ul style="list-style-type: none"><li>• Plasmodium falciparum Dd2 Sybr green parasite growth Measured in Cell-Based and Microorganisms Combination System Using Plate Reader (AID 1159554)</li></ul>
BRD-K71496240-001-01-7 MLS003128726 SMR001833172 PubChem CID : 46903682		0.89 (in 4 replicates)	-0.67	0.411				<p>Total number of assays tested in: 213.</p>
BRD-K52500055-001-01-3 PubChem CID : 44483979		0.78 (in 4 replicates)	-0.66	0.153				<p>Total number of assays tested in: 45.</p>
BRD-K861110370-001-05-0 SMR000023662 MLS000087439 AC1MMHPI BDBM41398 HMS2445N11 ZINC2466020 CCG-27572 PubChem CID : 3238932		NA (in 1 replicates)	-0.64	NA				<p>Total number of assays tested in: 777. Active in the following assays:</p> <ul style="list-style-type: none"><li>• Cathepsin G (AID 581)</li><li>• Human H69AR Lung Tumor Cell Growth Inhibition Assay - 86K Screen (AID 598)</li><li>• CYP2C9 Assay (AID 777)</li><li>• CYP2C19 Assay (AID 778)</li><li>• Cathepsin G dose-response confirmation (AID 832)</li><li>• Leishmania major promastigote HTS (AID 1063)</li><li>• RNA aptamer-based HTS for inhibitors of GRK2 (AID 488847)</li><li>• qHTS Assay for Inhibitors of Mammalian Seleniumprotein Thioredoxin Reductase 1 (TrxR1): qHTS (AID 588453)</li><li>• Counterscreen of compound fluorescence effects on High-throughput multiplex microsphere screening for inhibitors of toxin protease (AID 624483)</li><li>• MLPCN PGC1a Modulators Measured in Cell-Based System Using Plate Reader - 2139-01 Activator Dose.CherryPick.Activity.Set6 (AID 720513)</li></ul>



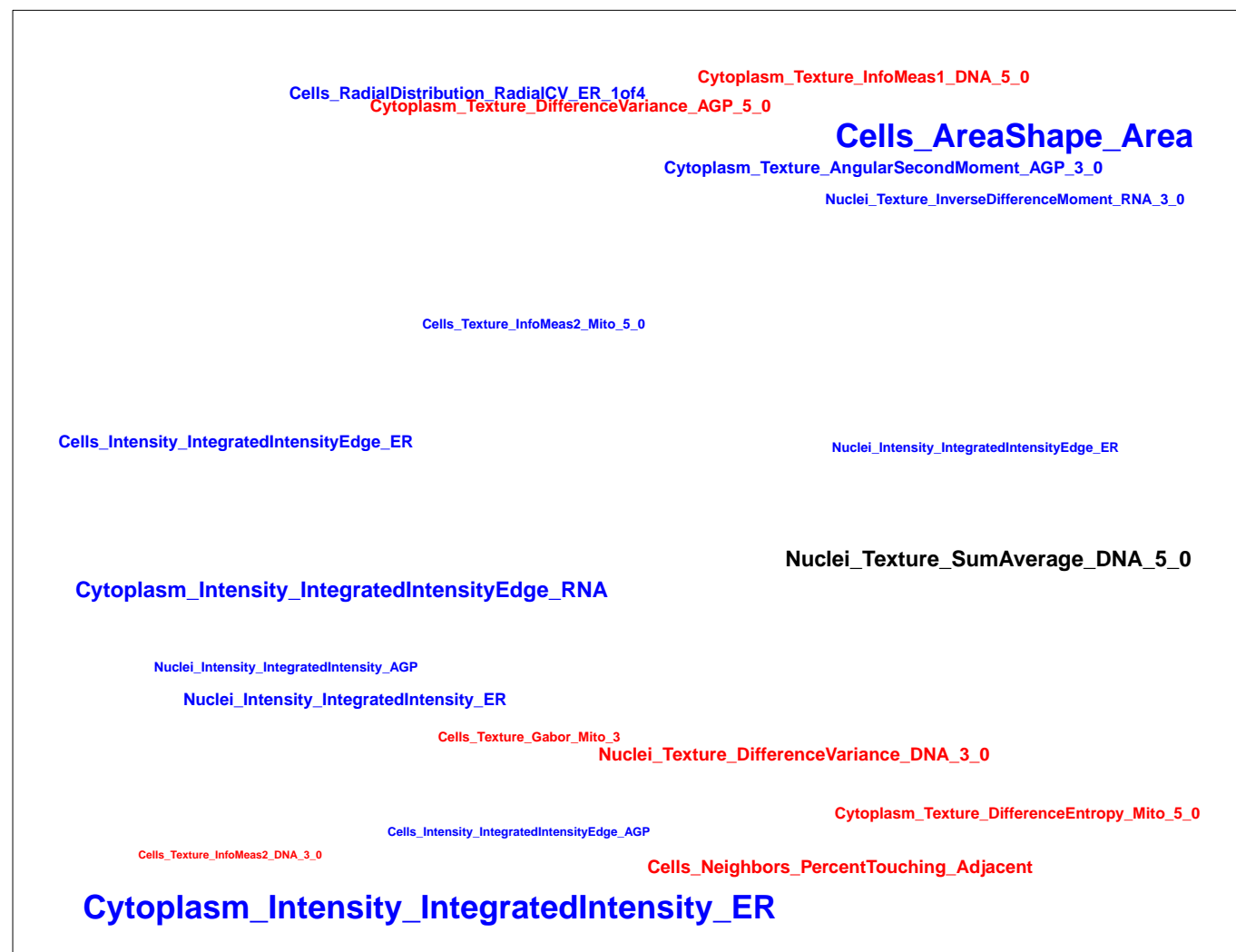
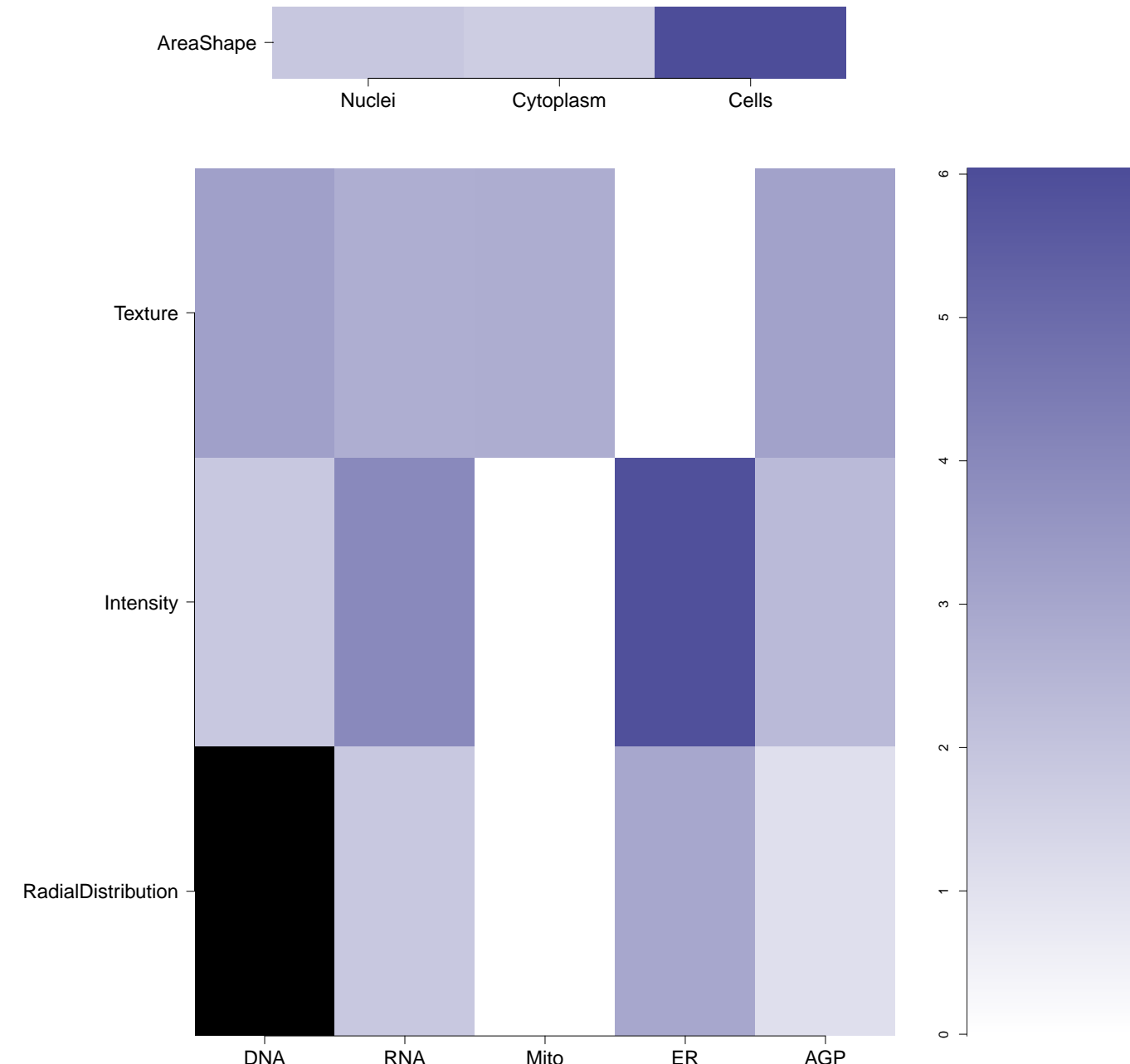
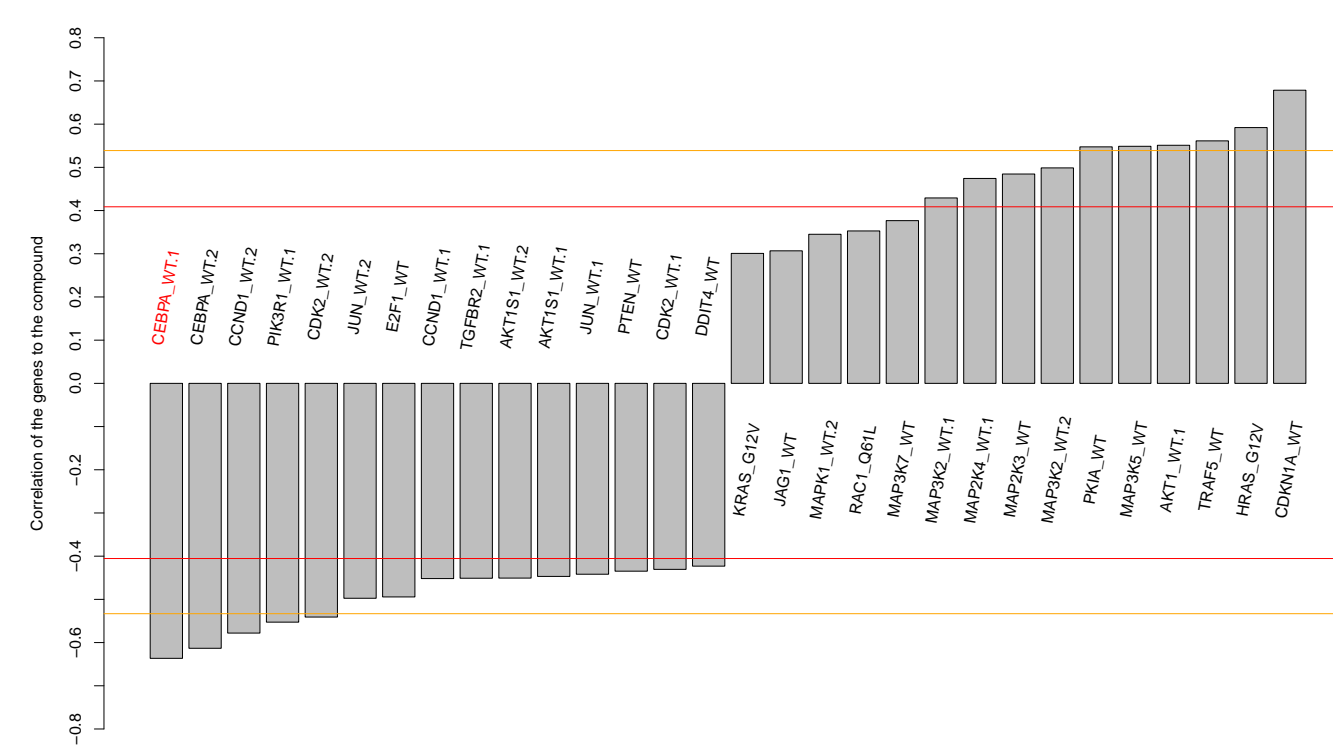
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0.79 (in 4 replicates)

-0.64

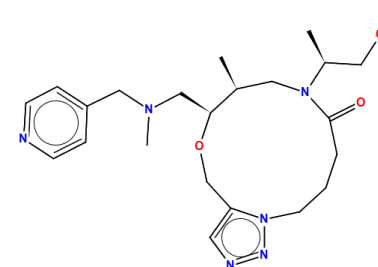
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Total number of assays tested in: 786. Active in the following assays:

- CYP2C9 Assay (AID 777)
- Identification of Molecular Probes that Activate MRP1 (AID 799)
- gHTS Assay for Inhibitors of HADH2 (Hydroxyacyl-Coenzyme A Dehydrogenase, Type II) (AID 886)
- gHTS Assay for Inhibitors of HPGCD (15-Hydroxyprostaglandin Dehydrogenase) (AID 894)
- gHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030)
- Inhibitors of Plasmodium falciparum M1-Family Atanyl Aminopeptidase (M1AAP) (AID 1445)
- gHTS Assay for Inhibitors and Activators of Human  $\alpha$ -Glucosidase Cleavage of Glycogen (AID 2100)
- gHTS Assay for Inhibitors of MBNL1-poly(CUG) RNA binding (AID 2675)
- gHTS Assay for Inhibitors of BAZF8 (AID 504333)
- gHTS identification of microRNA-mediated mRNA decadenylation inhibitors by fluorescence polarization assay (AID 588489)
- TRFRET-based biochemical primary high throughput screening assay to identify inhibitors of the interaction of the Ras and Rab interactor 1 protein (Rin1) and the c-abl oncogene 1, non-receptor tyrosine kinase (Abl) (AID 588664)
- TRFRET-based biochemical high throughput confirmation assay for inhibitors of the interaction of the Ras and Rab interactor 1 protein (Rin1) and the c-abl oncogene 1, non-receptor tyrosine kinase (Abl) (AID 602124)
- TRFRET-based biochemical high throughput dose response assay for inhibitors of the interaction of the Ras and Rab interactor 1 protein (Rin1) and the c-abl oncogene 1, non-receptor tyrosine kinase (Abl) (AID 602181)
- Fluorescence-based biochemical primary high throughput screening assay to identify molecules that bind r(CAG) RNA repeats (AID 653821)
- TRFRET-based biochemical primary high throughput screening assay to identify inhibitors of HIV-1 integrase/p75 DNA Integration (AID 743269)
- gHTS for Inhibitors of Influenza Signaling: IL-1beta AlphaLISA Primary Screen (AID 743279)

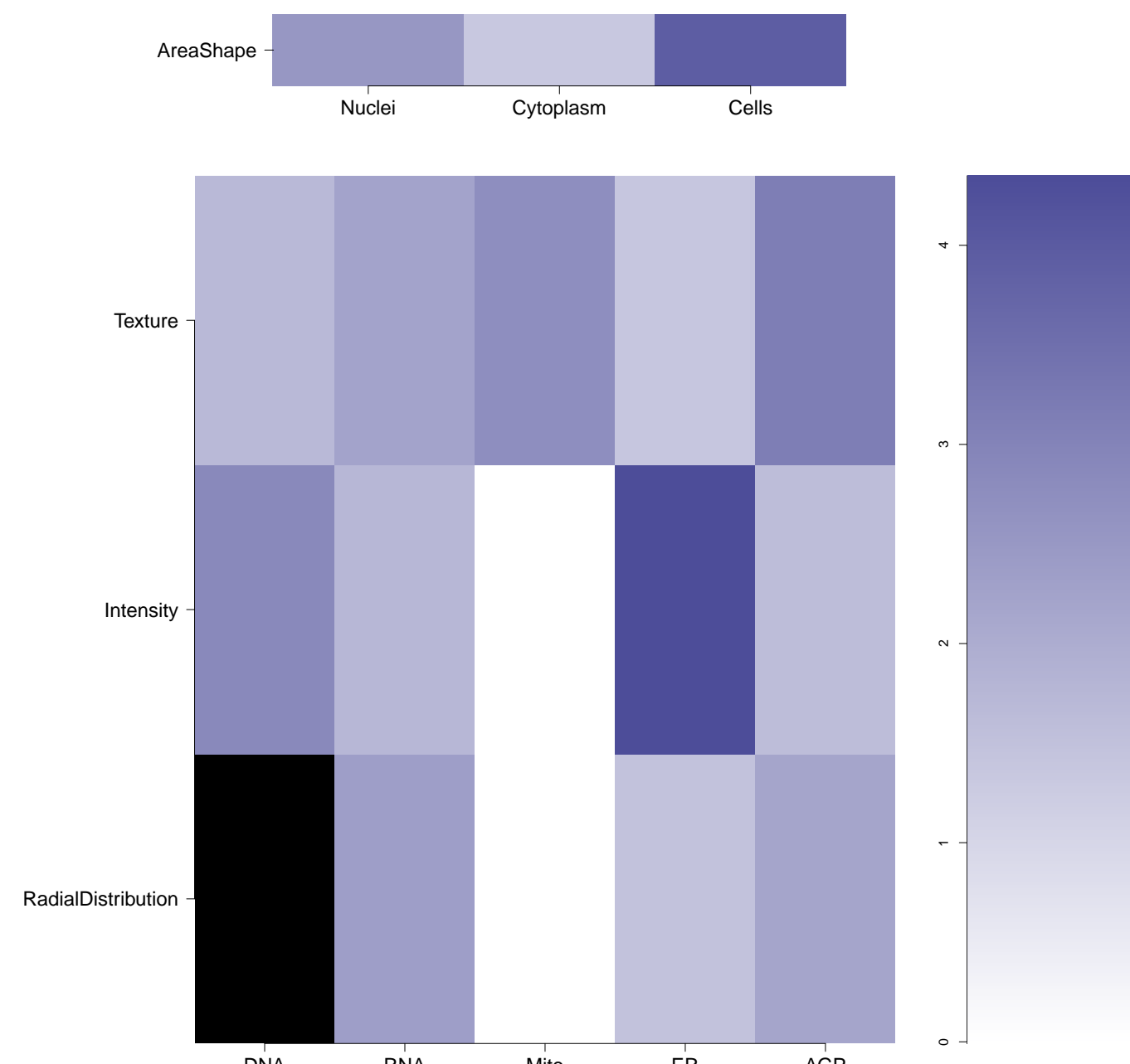
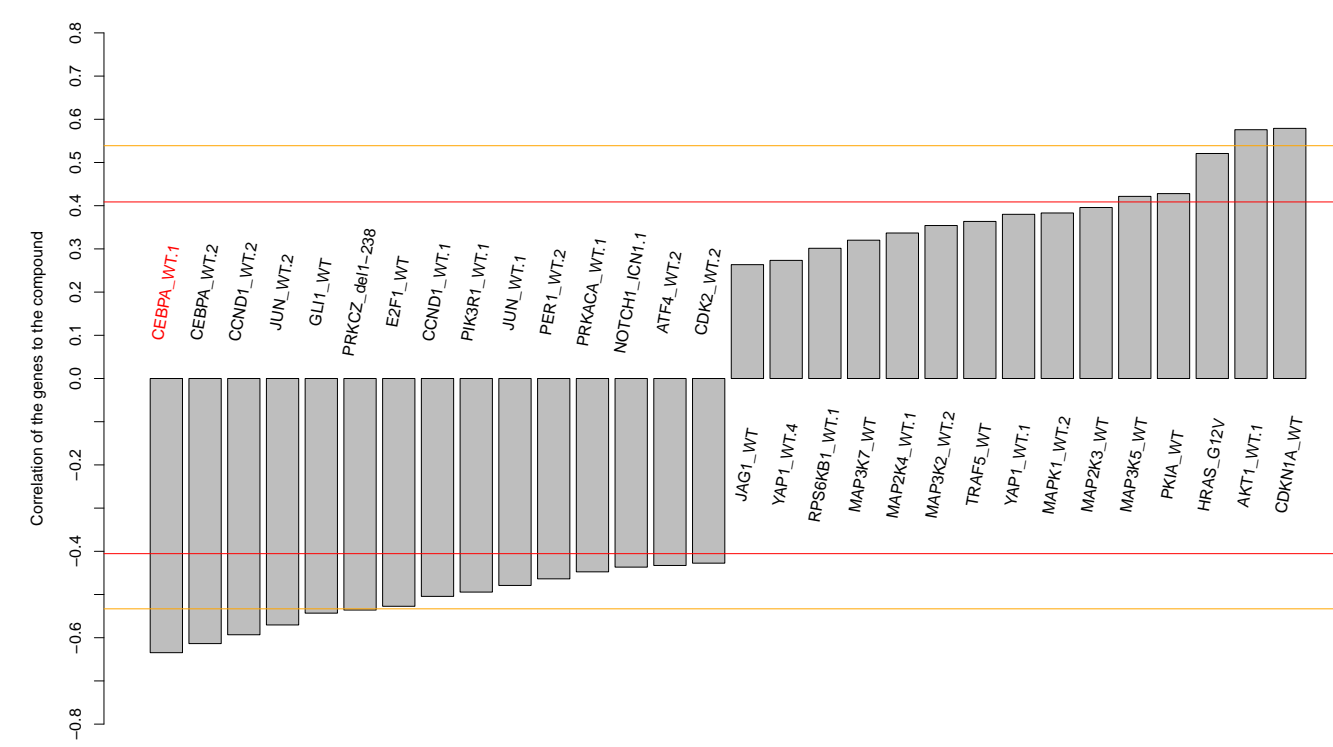
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PubChem CID : 44495439



0.78 (in 3 replicates)

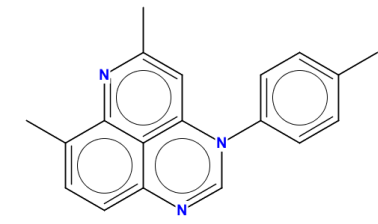
-0.63

0.411



Total number of assays tested in: 33.

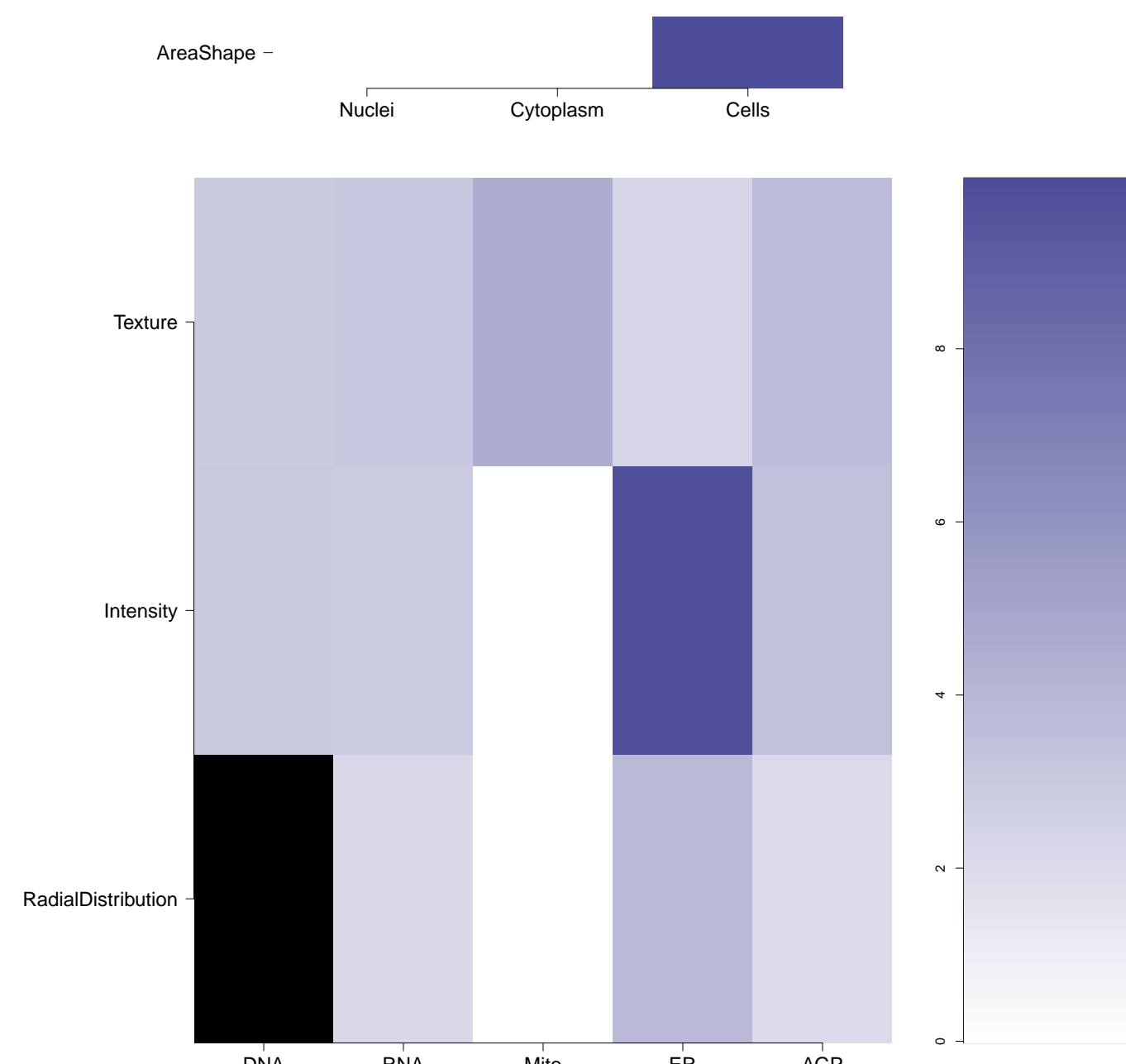
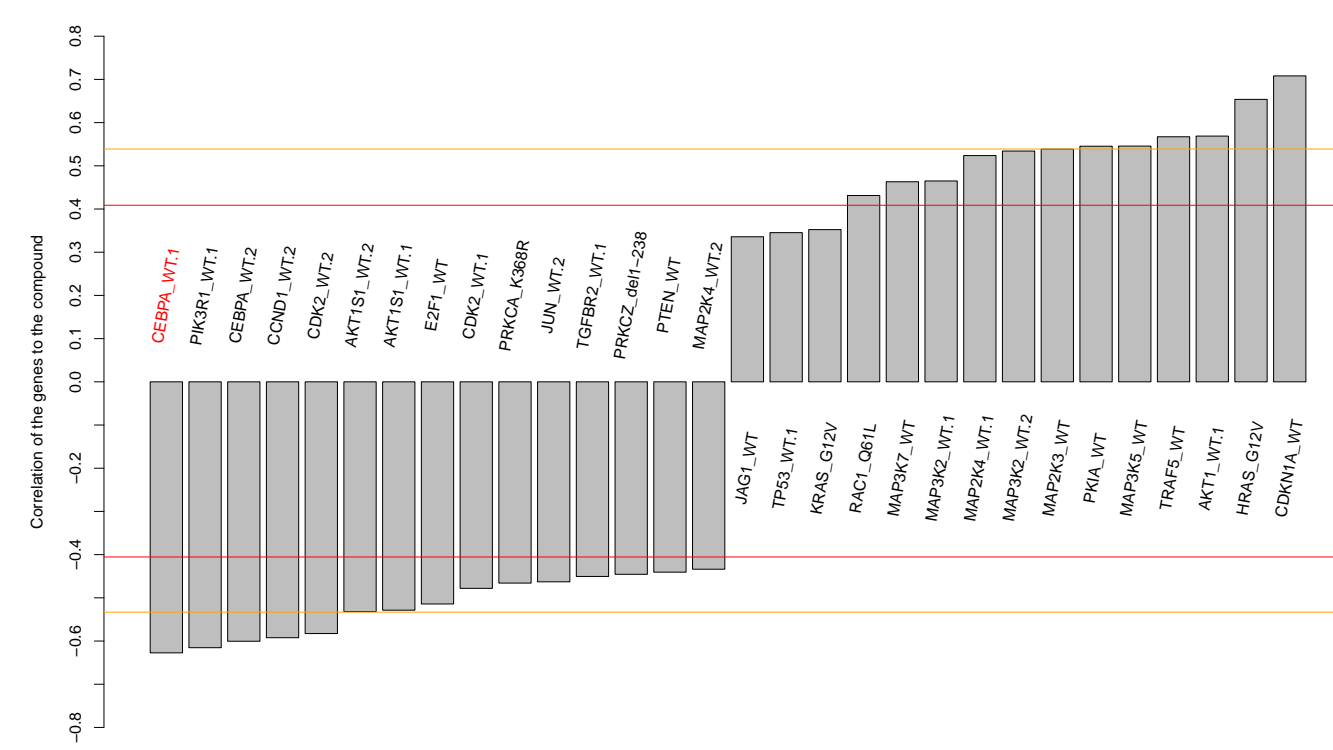
BRD-K52453518-001-06-5  
SMR000187149  
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MLS000577766  
HMS2300B24  
ZINC353520  
ZINC00353520  
PubChem CID : 830655



0.77 (in 4 replicates)

-0.63

NA



Total number of assays tested in: 677. Active in the following assays:

- CYP2C9 Assay (AID 777)
- CYP2C19 Assay (AID 778)
- Primary screen for compounds that inhibit insulin promoter activity in TRM-16 cells (AID 1273)
- $\alpha$ HTS identification of compounds inhibiting the binding between the RUNX1 Runt domain and CBF $\beta$ -SMHC via a fluorescence resonance energy transfer (FRET) assay. (AID 1434)
- $\alpha$ HTS identification of compounds inhibiting the binding between the RUNX1 Runt domain and CBF $\beta$  via a fluorescence resonance energy transfer (FRET) assay. (AID 1496)
- Primary biochemical high throughput screening - to identify inhibitors of VIM-2 metallo-beta-lactamase (AID 1527)
- Fluorescence Cell-Free Homogeneous Primary HTS to identify inhibitors of the RanGTP-Importin-beta complex (AID 2216)
- High throughput screening of inhibitors of transient receptor potential cation channel C6 (TRPC6) (AID 2533)
- Counter screen for compounds that modulate transient receptor potential cation channel C6 (TRPC6) (AID 488924)
- Second counter screen for compounds that modulate transient receptor potential cation channel C6 (TRPC6) (AID 488926)
- Specificity screen against TRPC4 for compounds that modulate transient receptor potential cation channel C6 (TRPC6) (AID 488927)
- Second specificity screen against TRPC4 for compounds that modulate transient receptor potential cation channel C6 (TRPC6) (AID 488928)
- Confirmatory screen for identification of compounds that inhibit transient receptor potential cation channel C6 (TRPC6) (AID 488900)
- Assay for HTS of G $\beta$ /Go-linked GPCRs on mGluR5: Primary Screening (AID 488969)
- Dyrk1A: HTS Measured in Biochemical System Using Plate Reader - 2124-01.Inhibitor.SinglePoint HTS Activity (AID 50444)
- Primary qHTS for delayed dose inhibitors of the model parasitic platid, 48 hour incubation (AID 504832)
- MLPCN Dyrk1A Kinase Measured in Biochemical System Using Plate Reader - 2124-01.Inhibitor.Dose.CherryPick.Activity (AID 588445)
- Primary cell-based high-throughput screening for identification of compounds that activate MrgX1 receptor signaling (AID 588627)
- Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of Escherichia coli (E.coli) ATP-dependent protease La (LanA) (AID 602123)
- Reconfirmation screening for identification of compounds that activate MrgX1 receptor signaling (AID 602412)
- Development of Subtype-specific Activators of the GIRK family of Potassium Channels (nGluR/nGIRK Counterscreens) (AID 623808)
- Activators of the GIRK family of Potassium Channels (GIRK2/2,Confirmatory) (AID 623911)
- $\alpha$ HTS Assay for Activators of CbpP (AID 651965)
- Fluorescence Intensity-based primary biochemical high throughput screening assay to identify activators of kallikrein-7 (K7) zymogen (AID 652039)
- $\alpha$ HTS for Inhibitors of Inflammation Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279)



-0.63

NA

