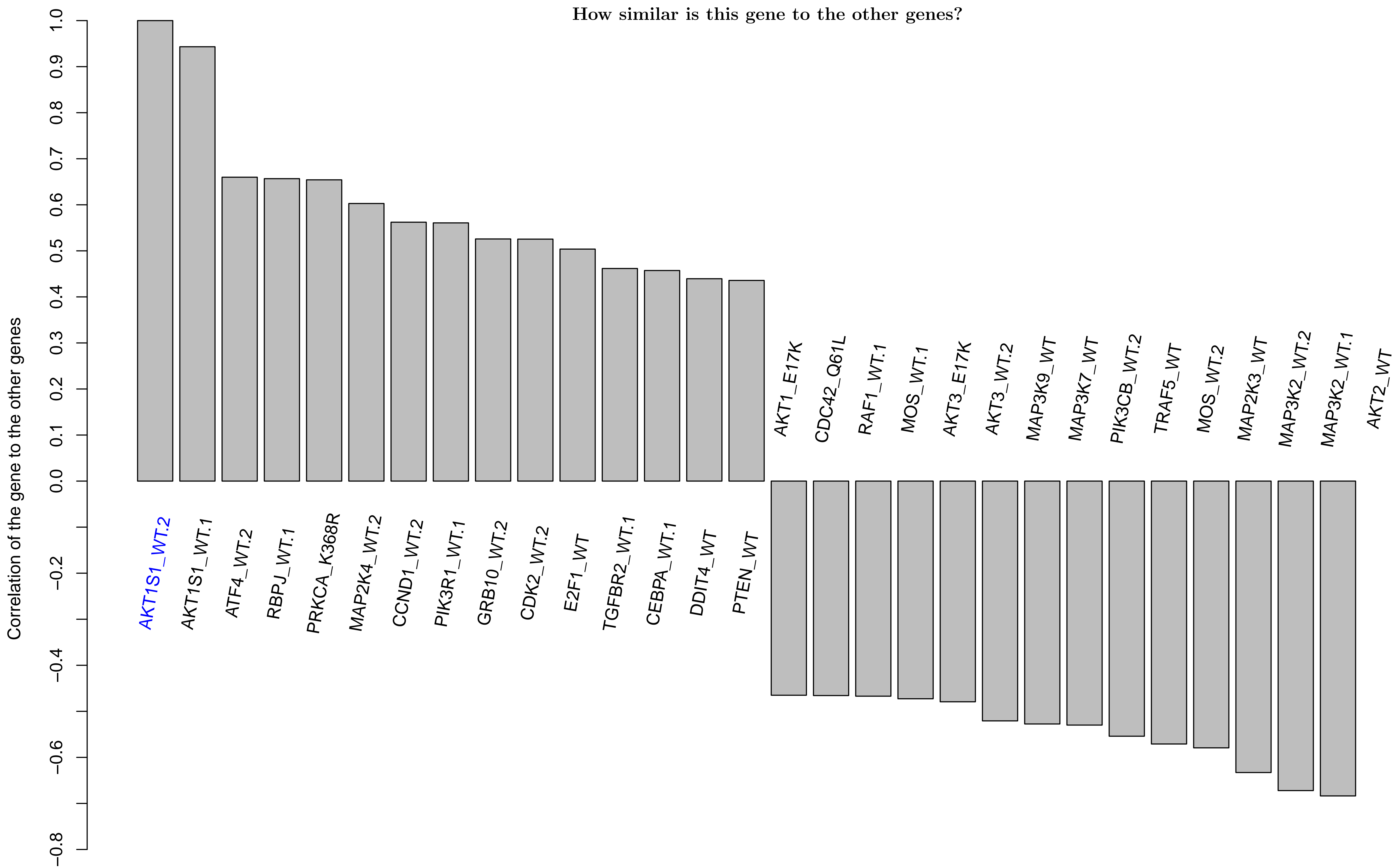
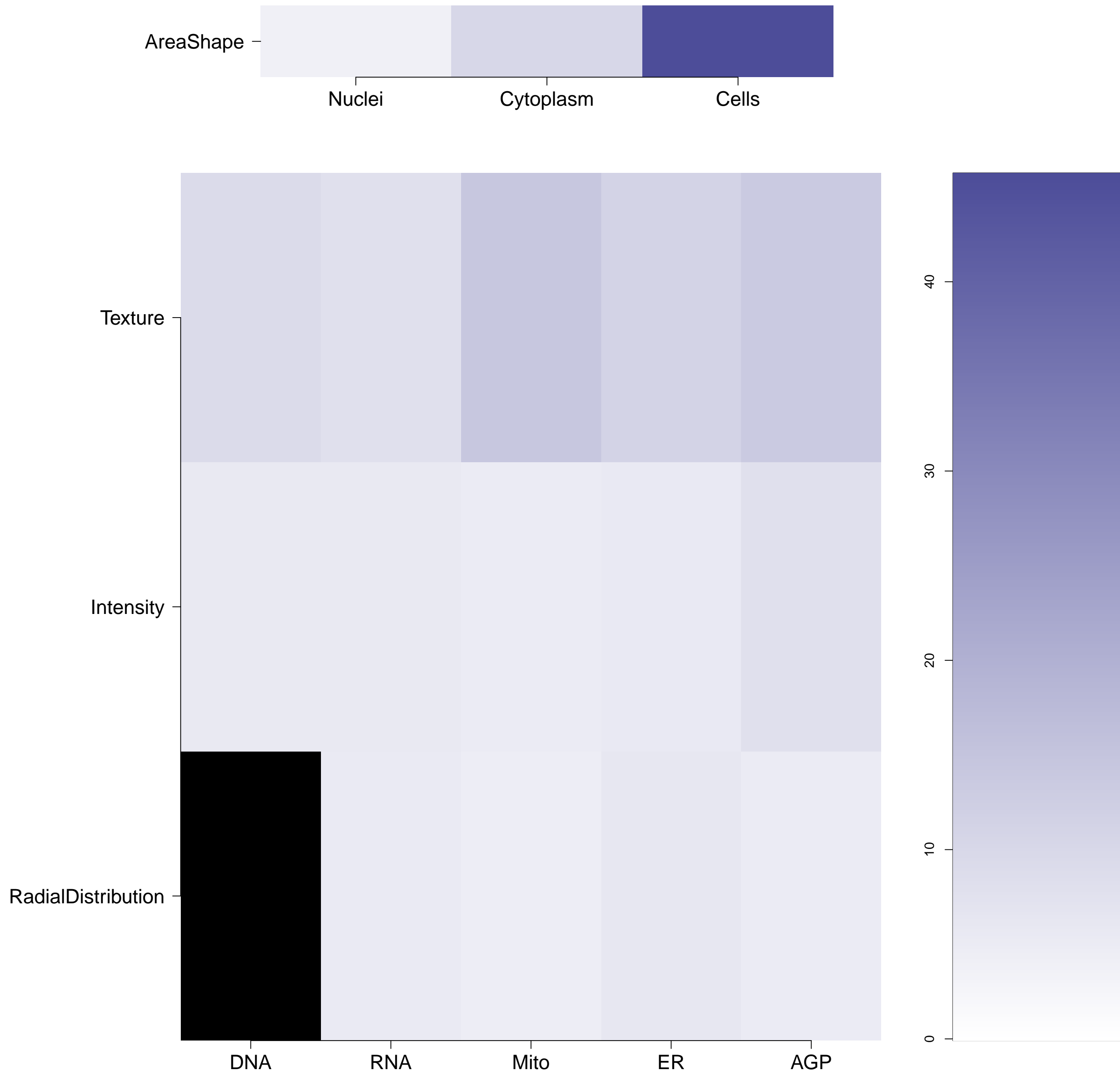


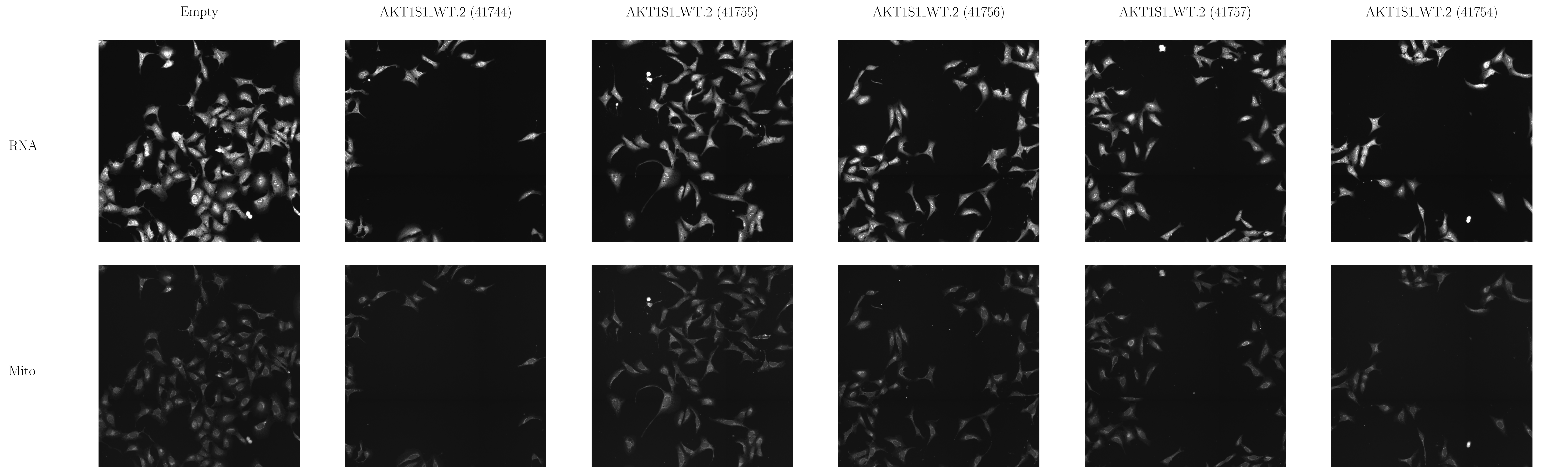
AKT1S1.WT.2 - in TOR



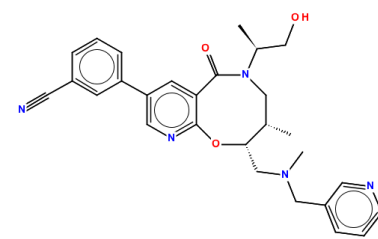
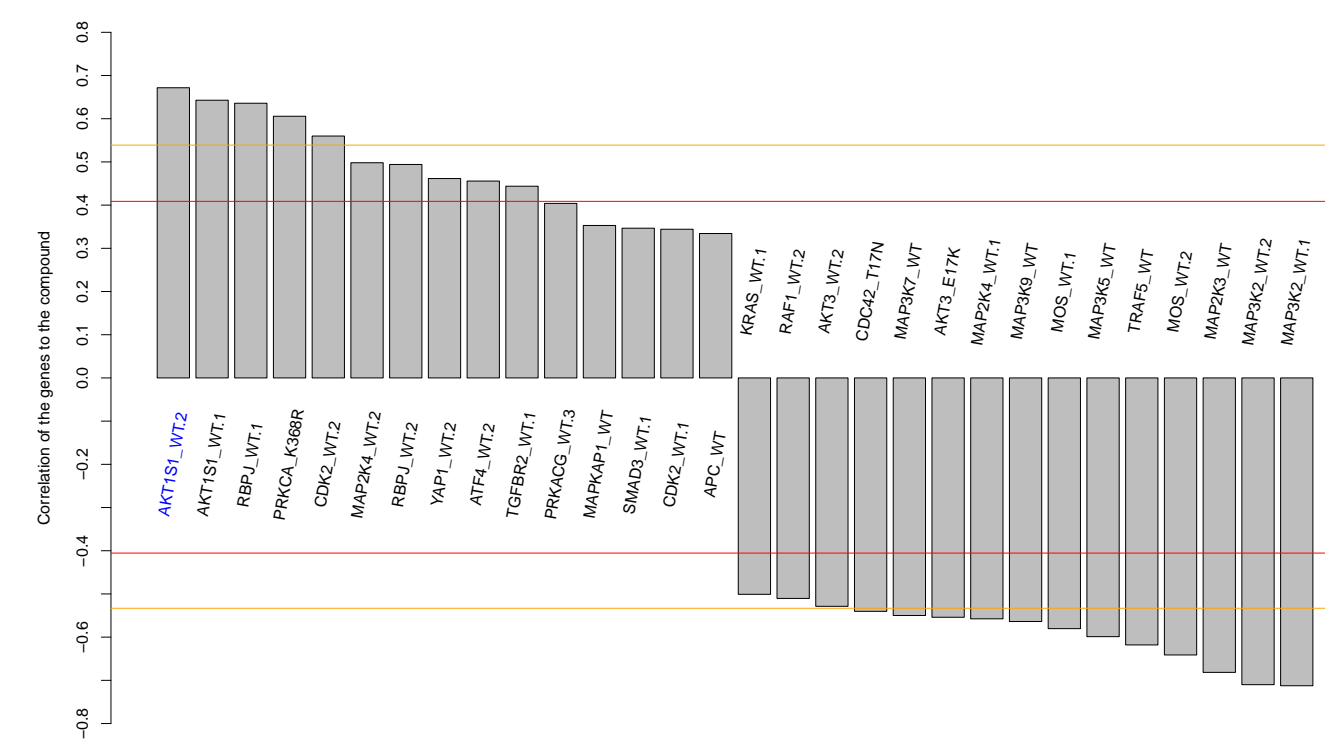
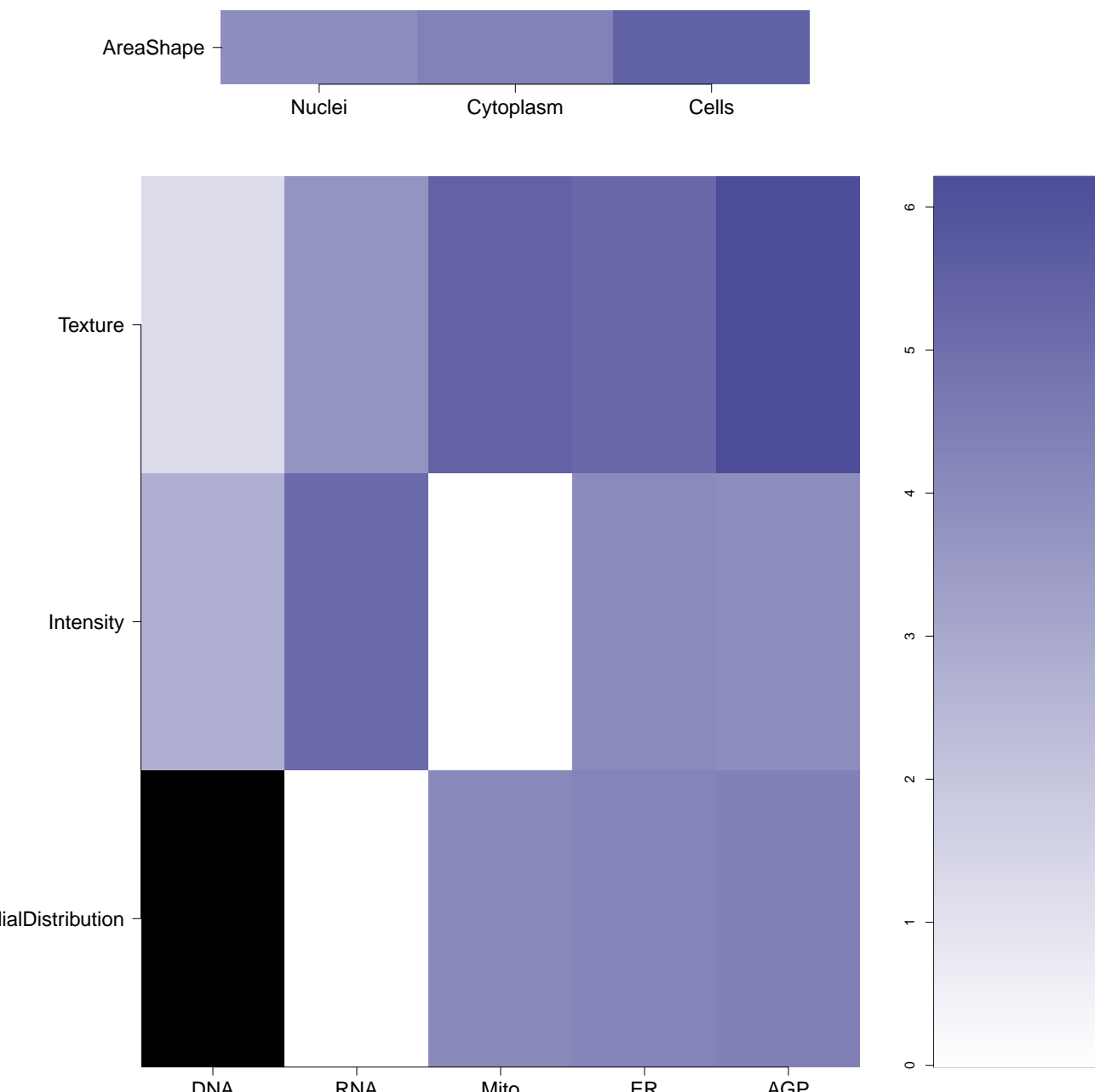
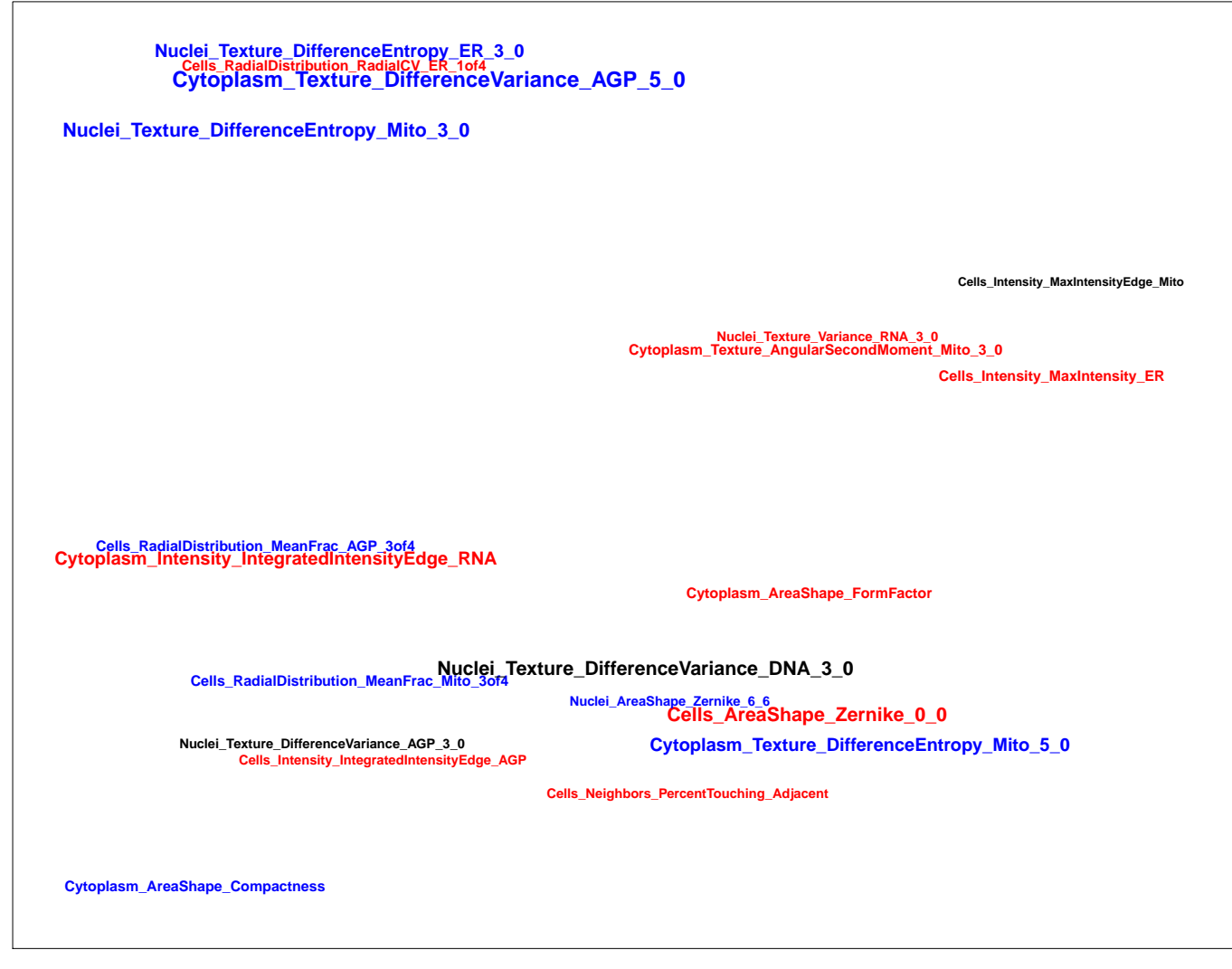
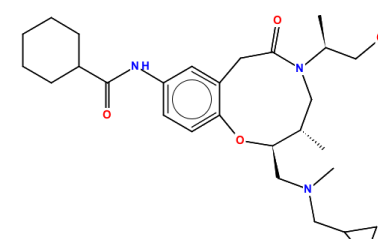
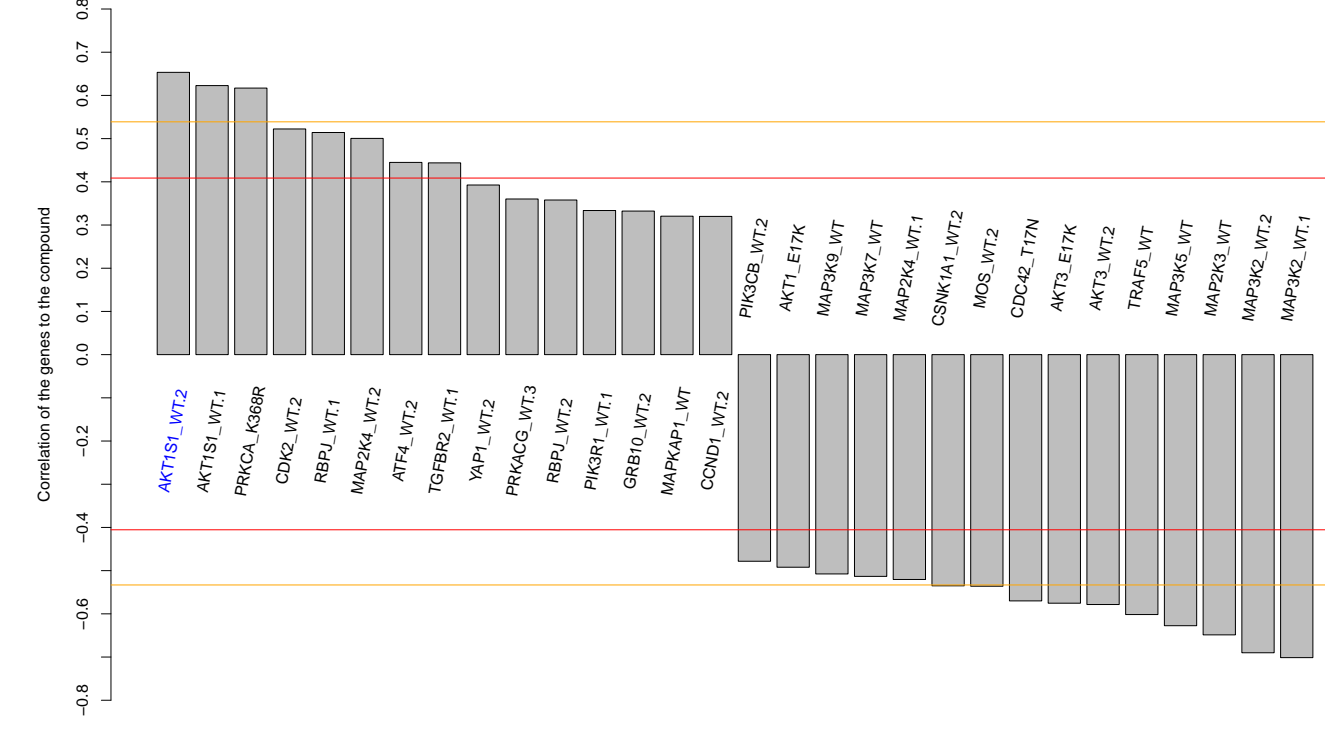
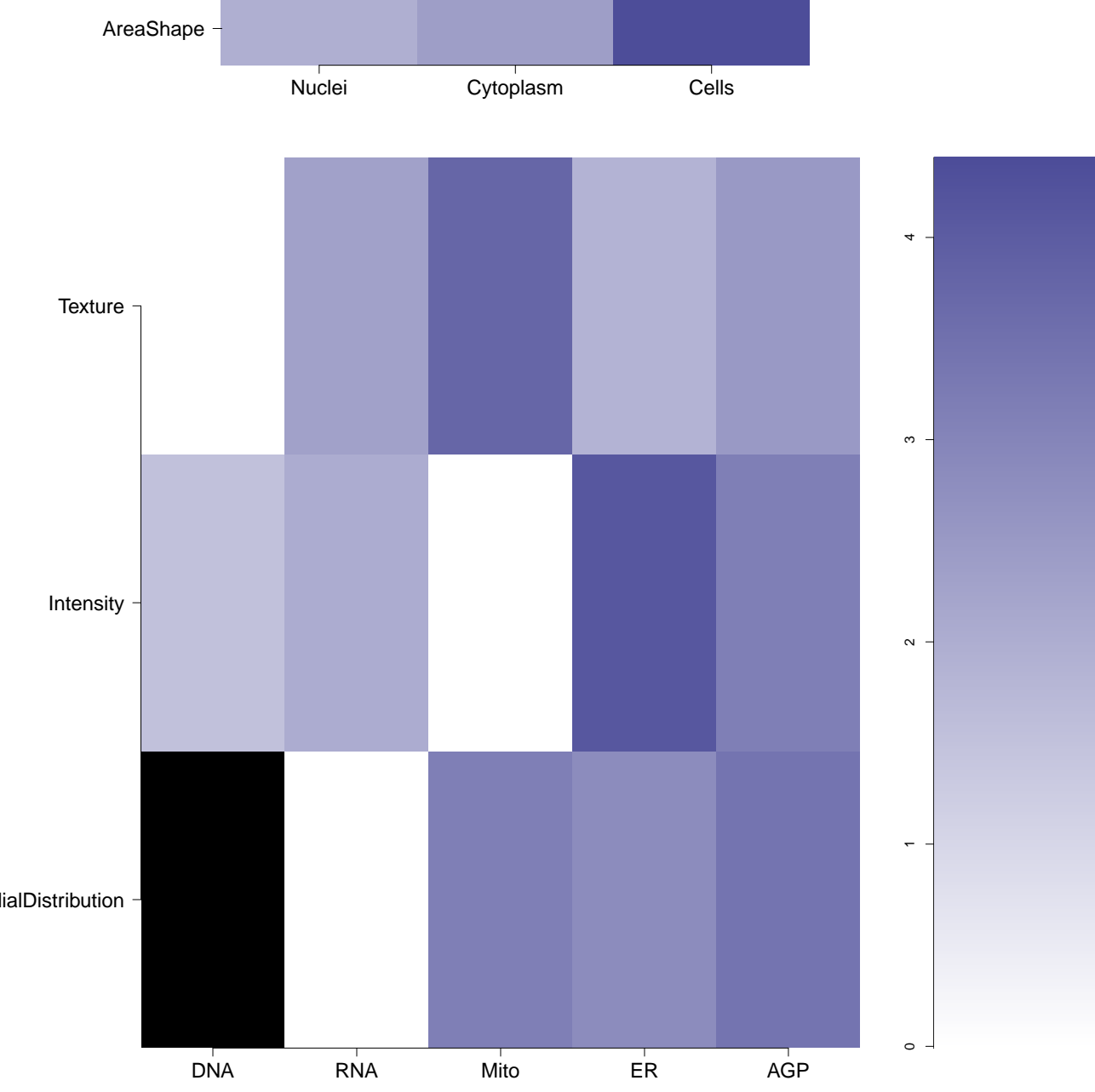

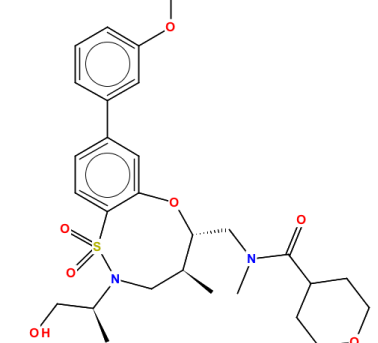
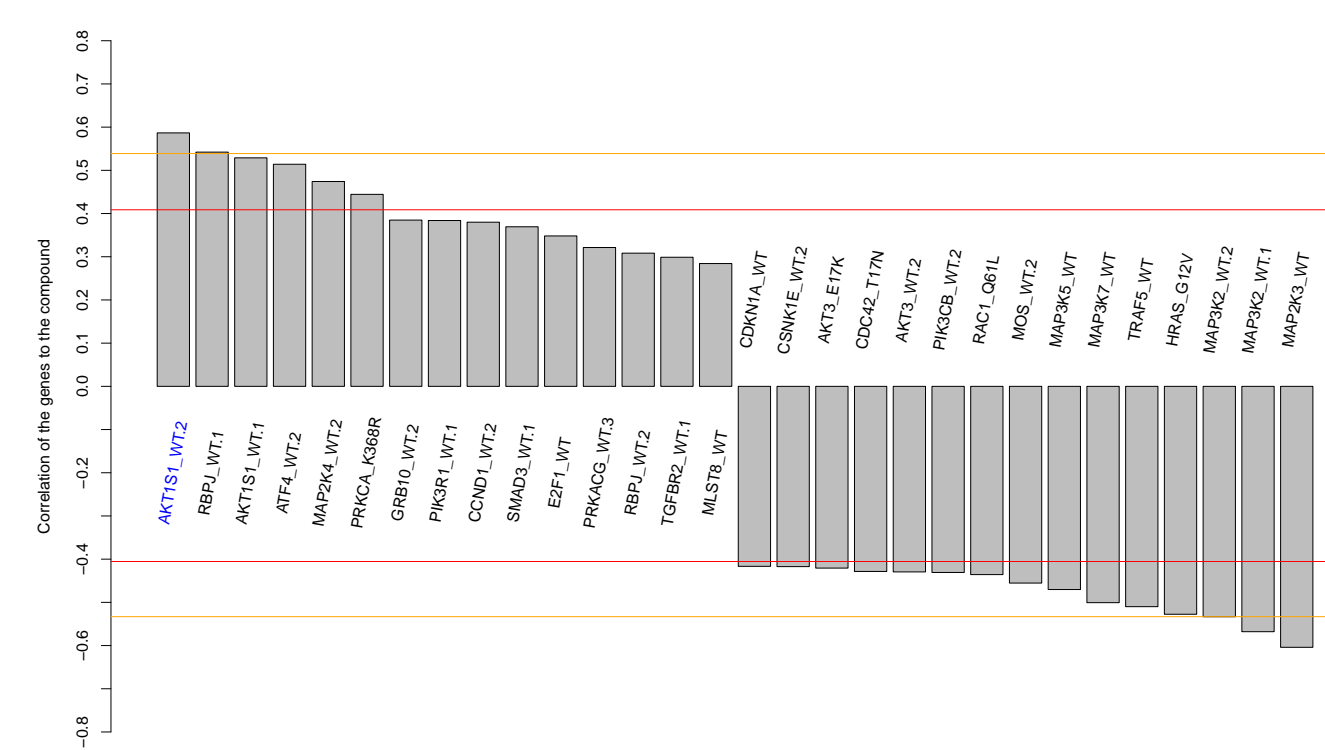
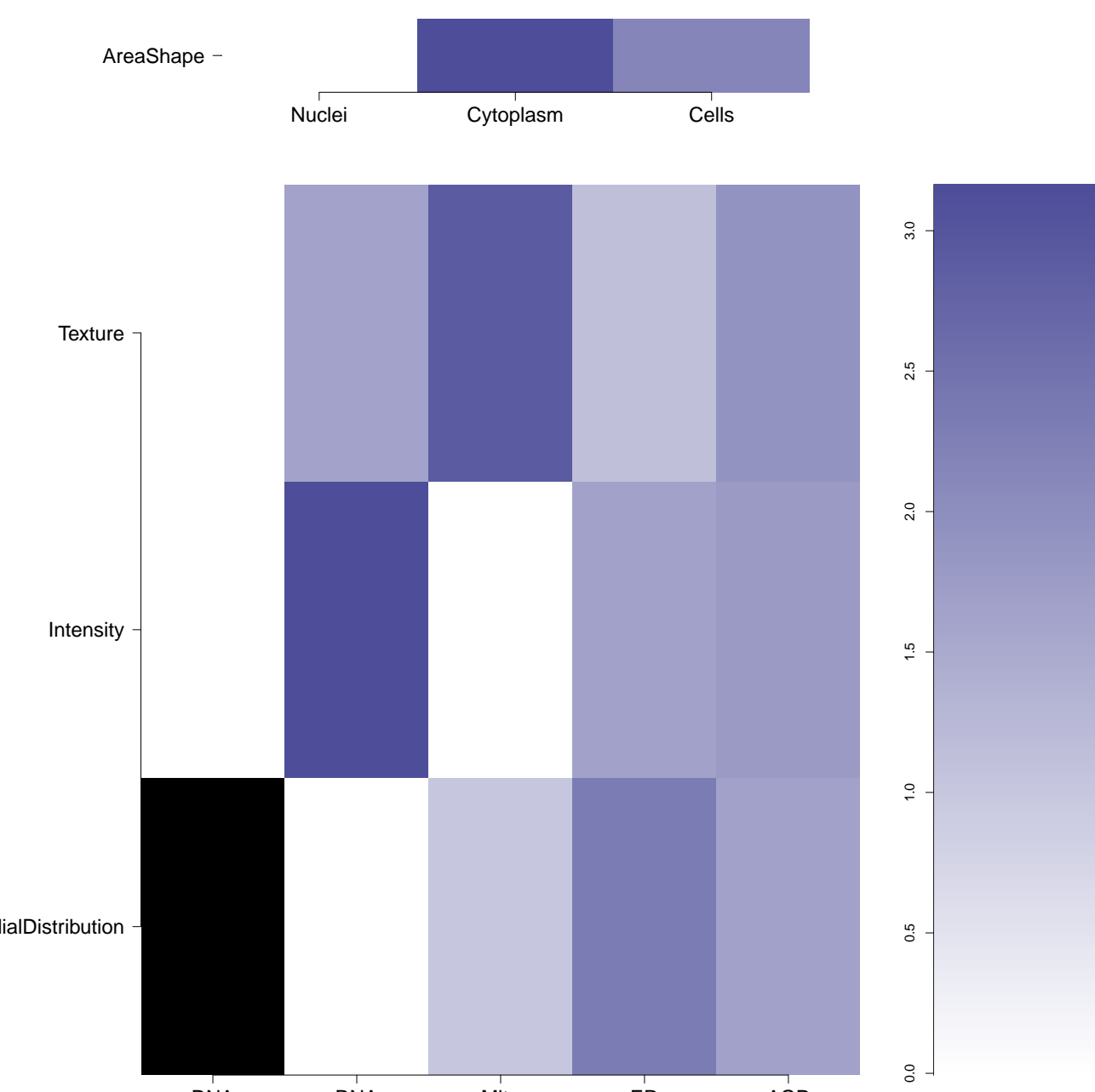
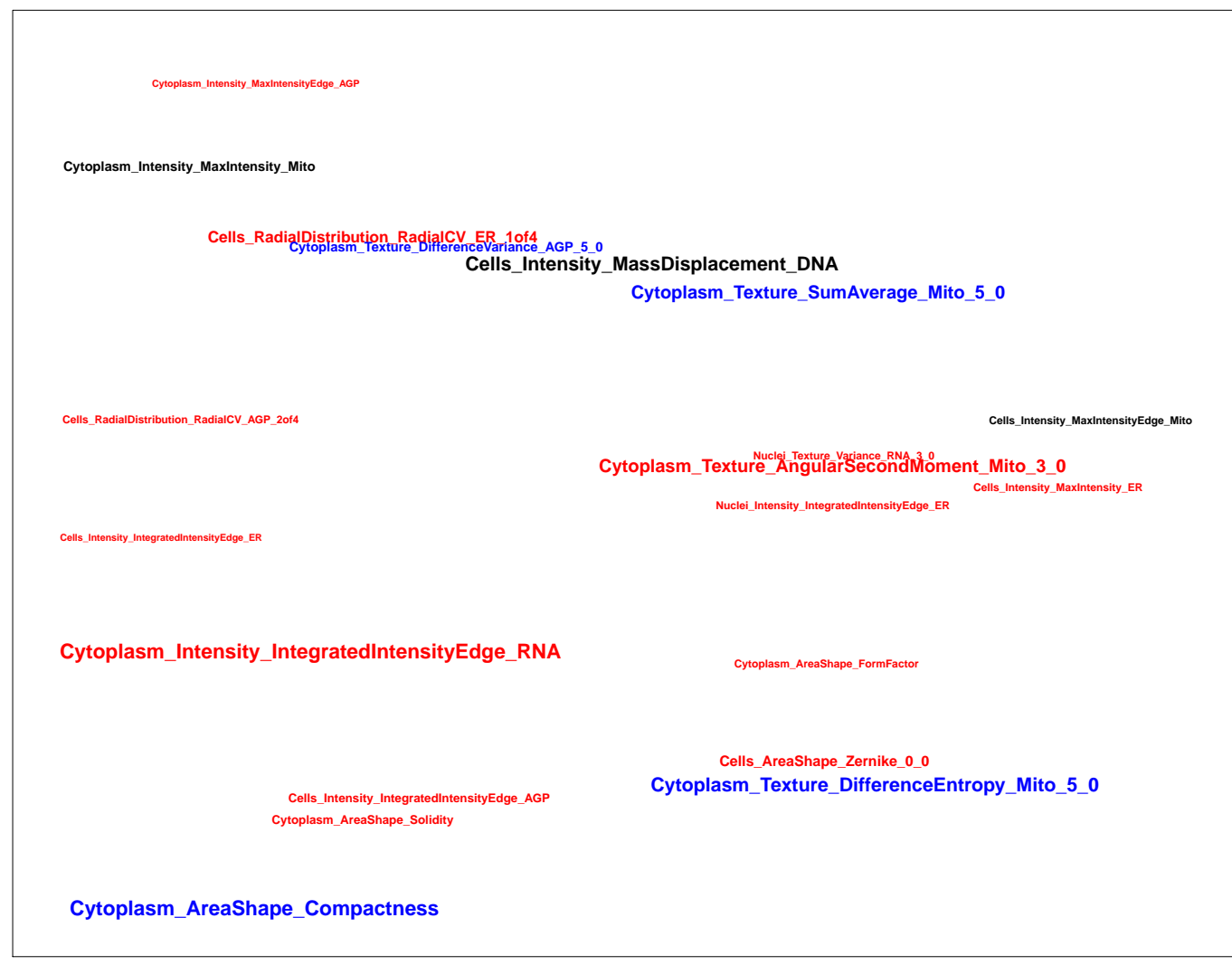
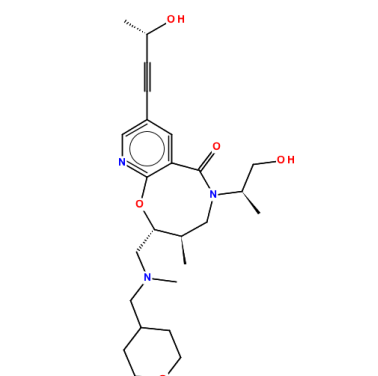
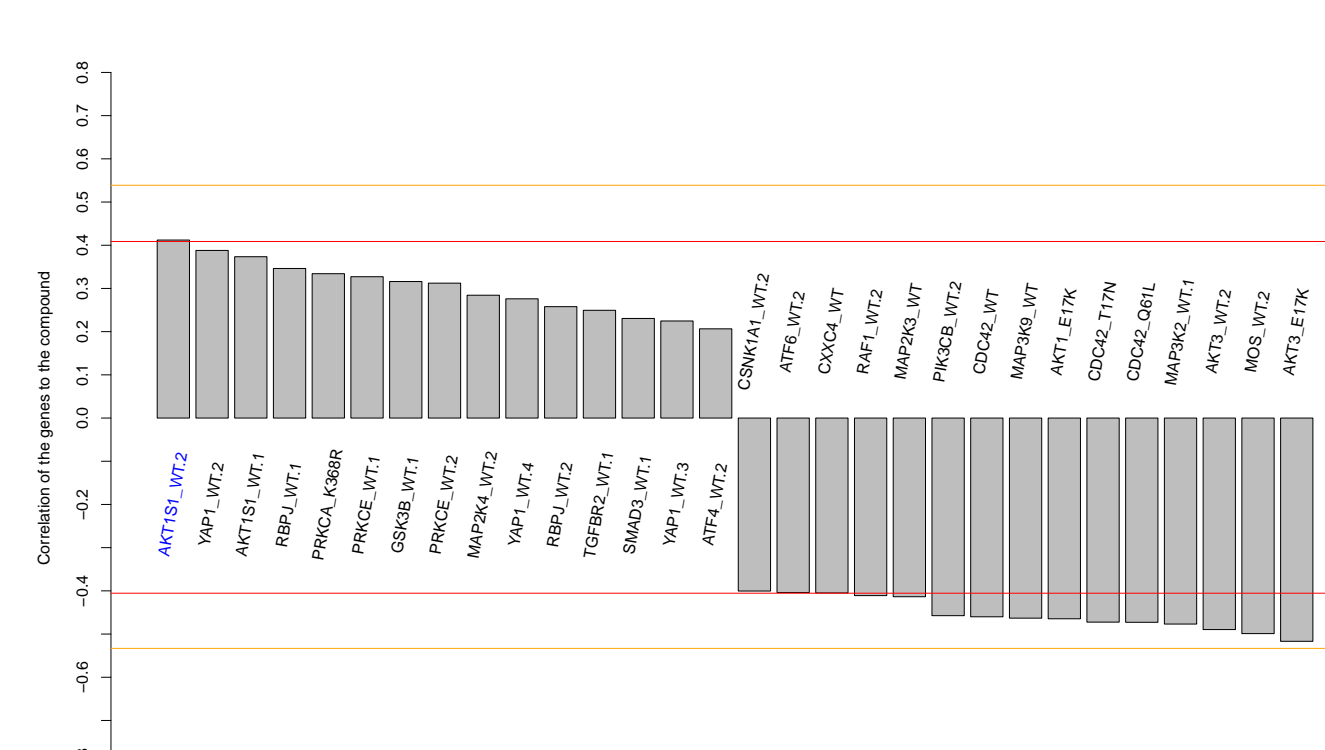
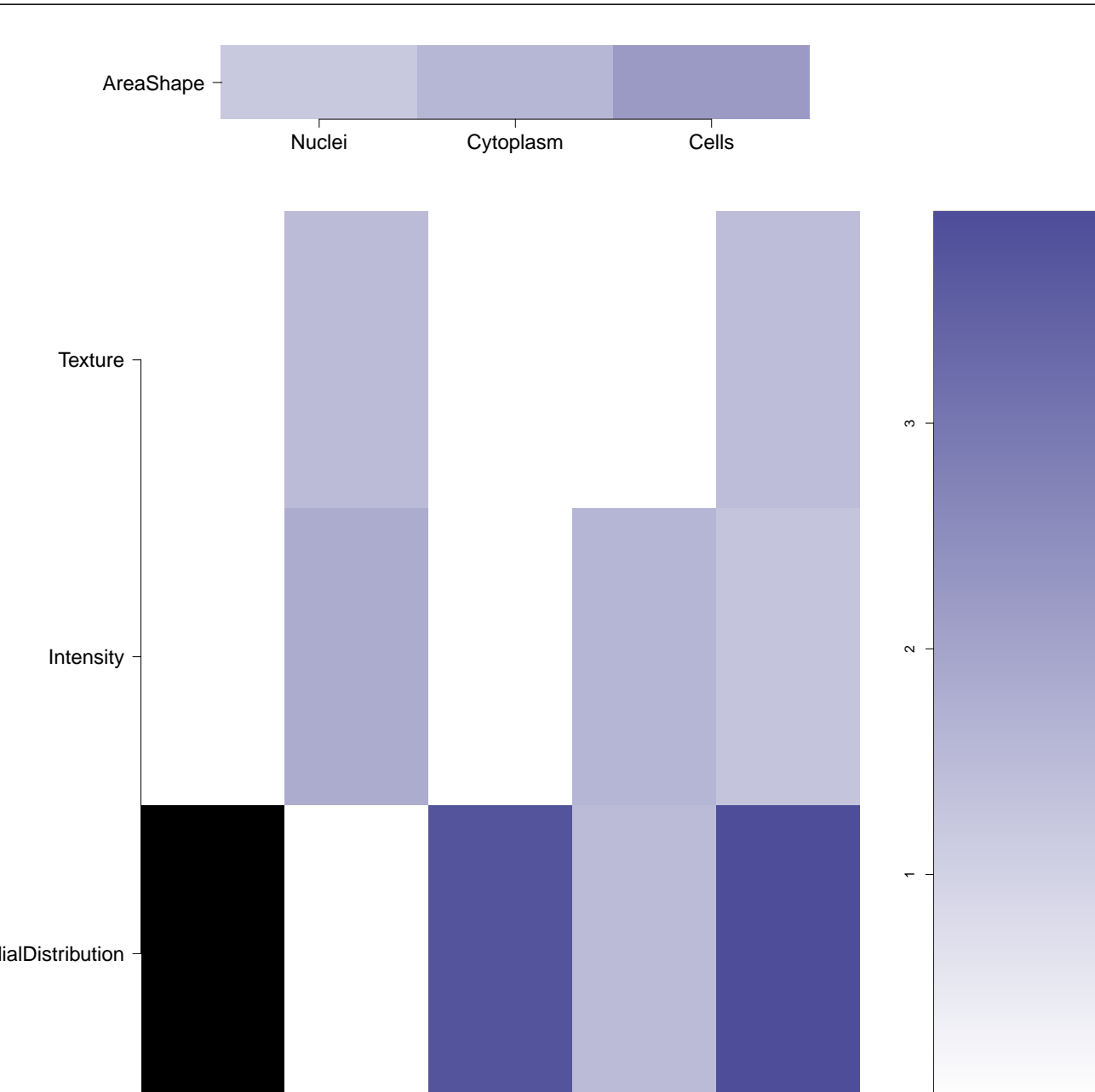
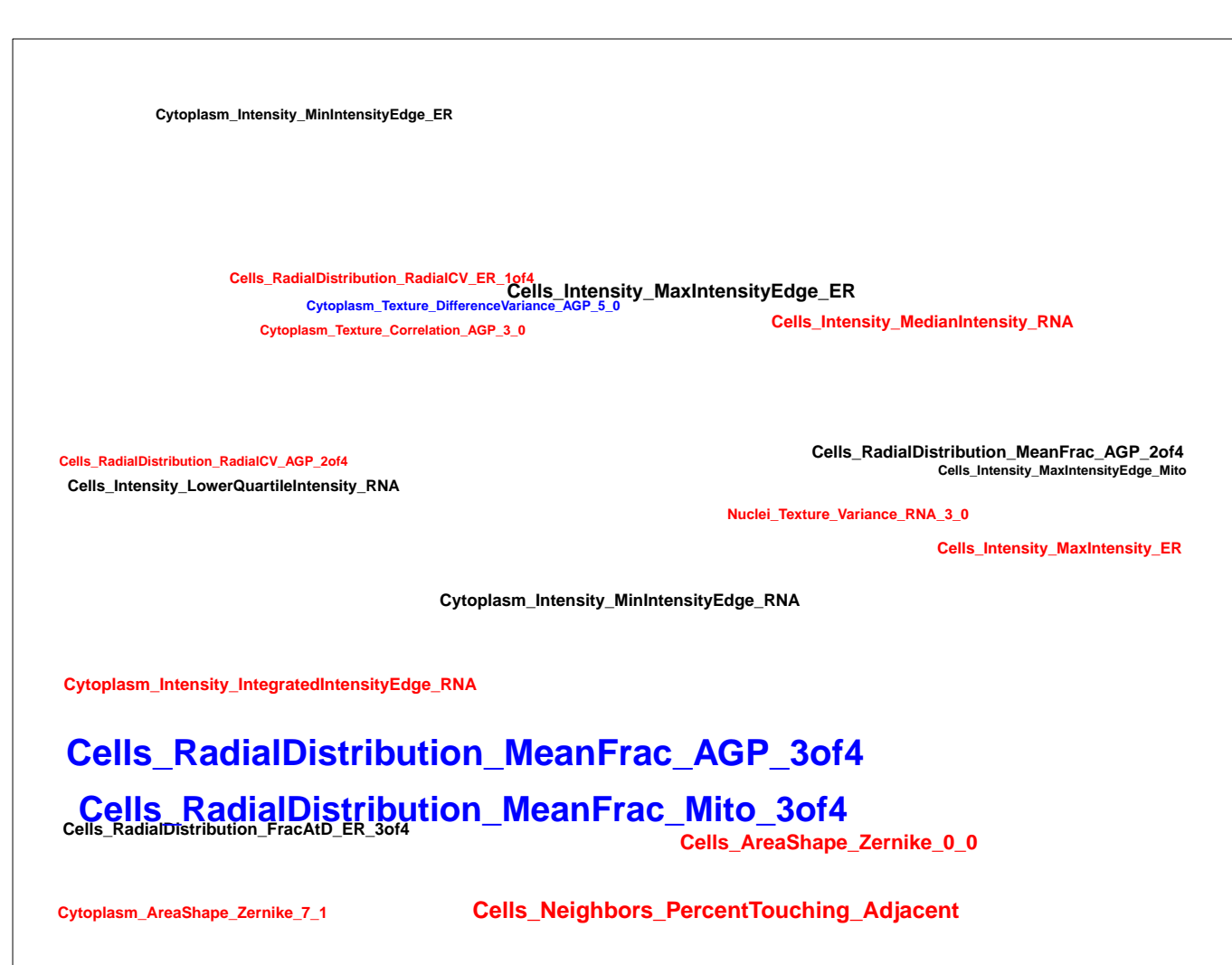
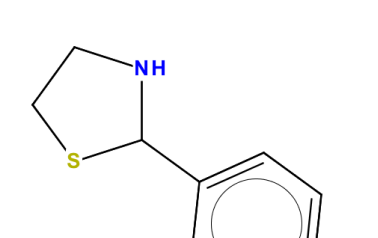
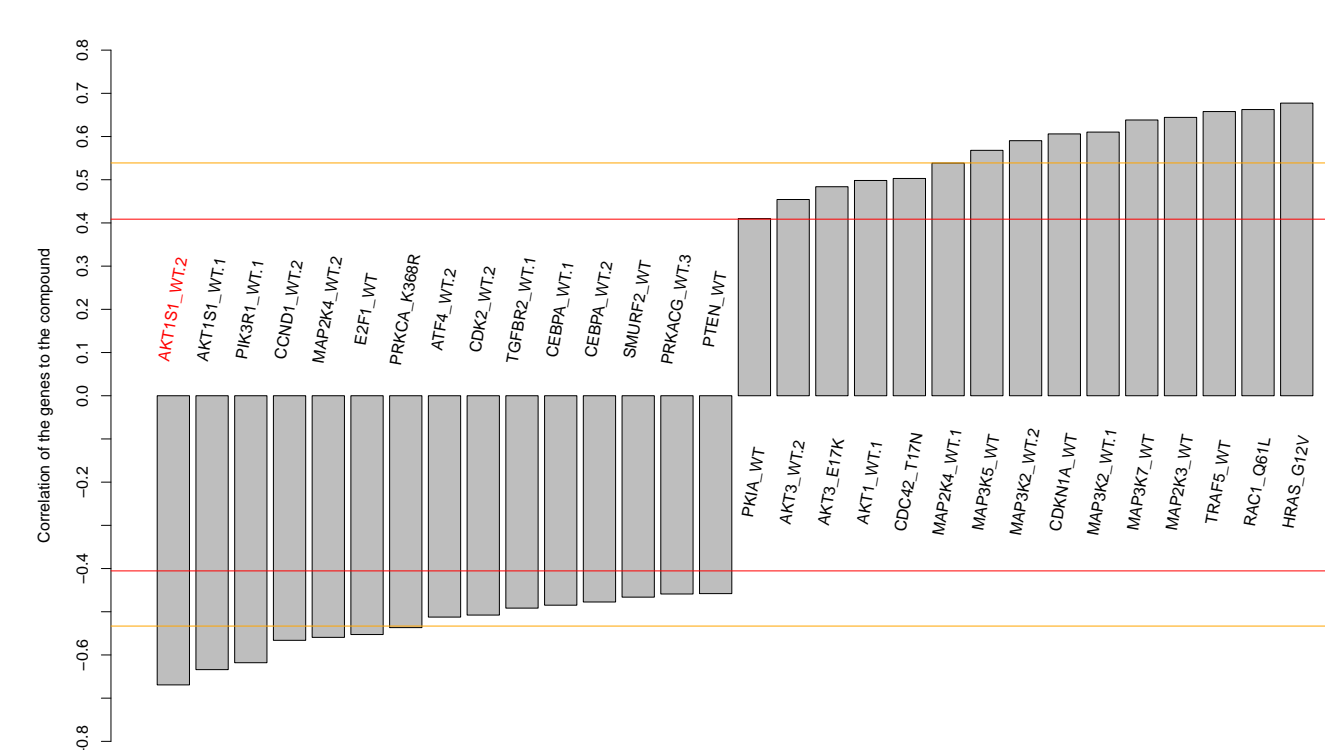
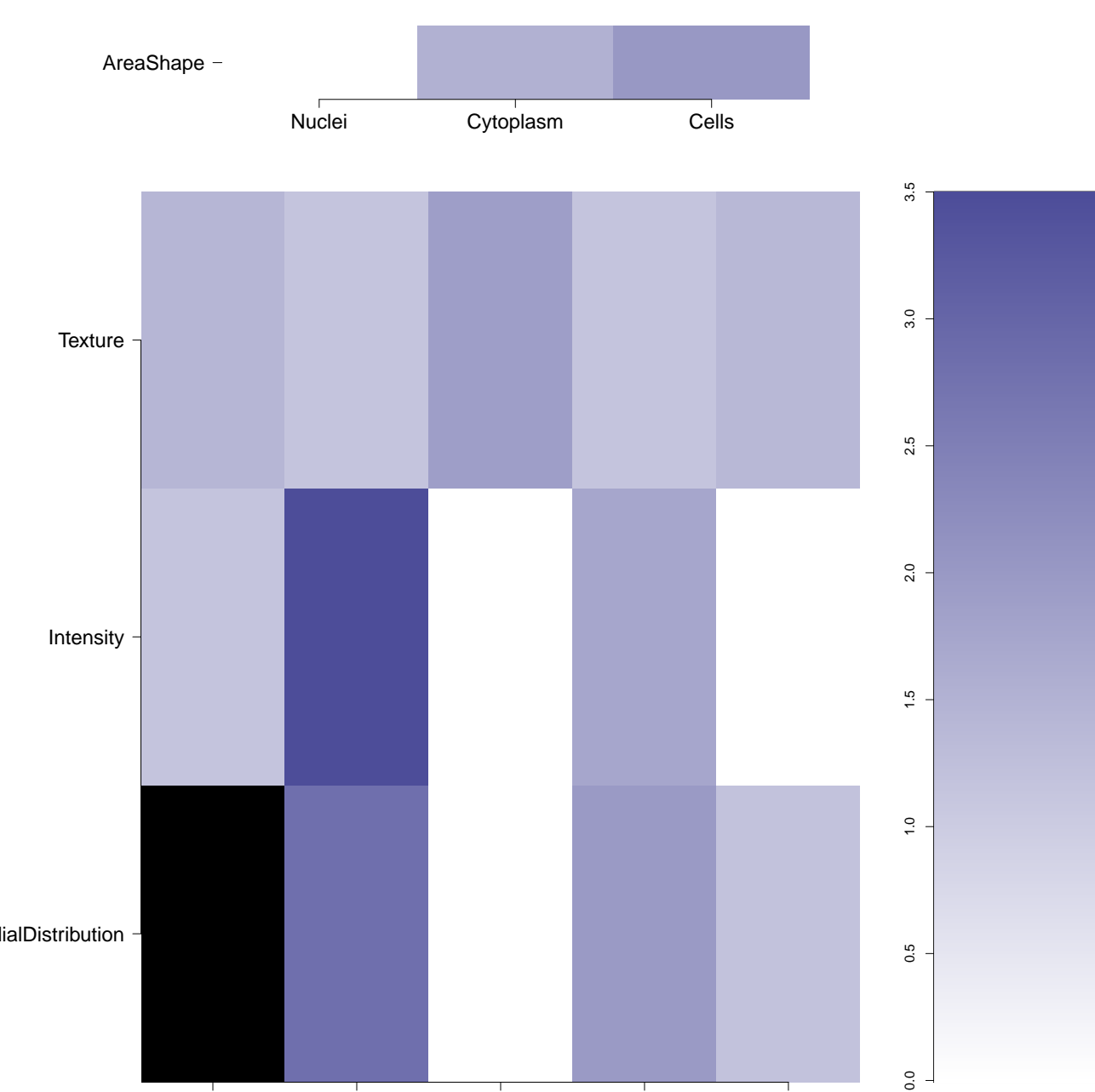
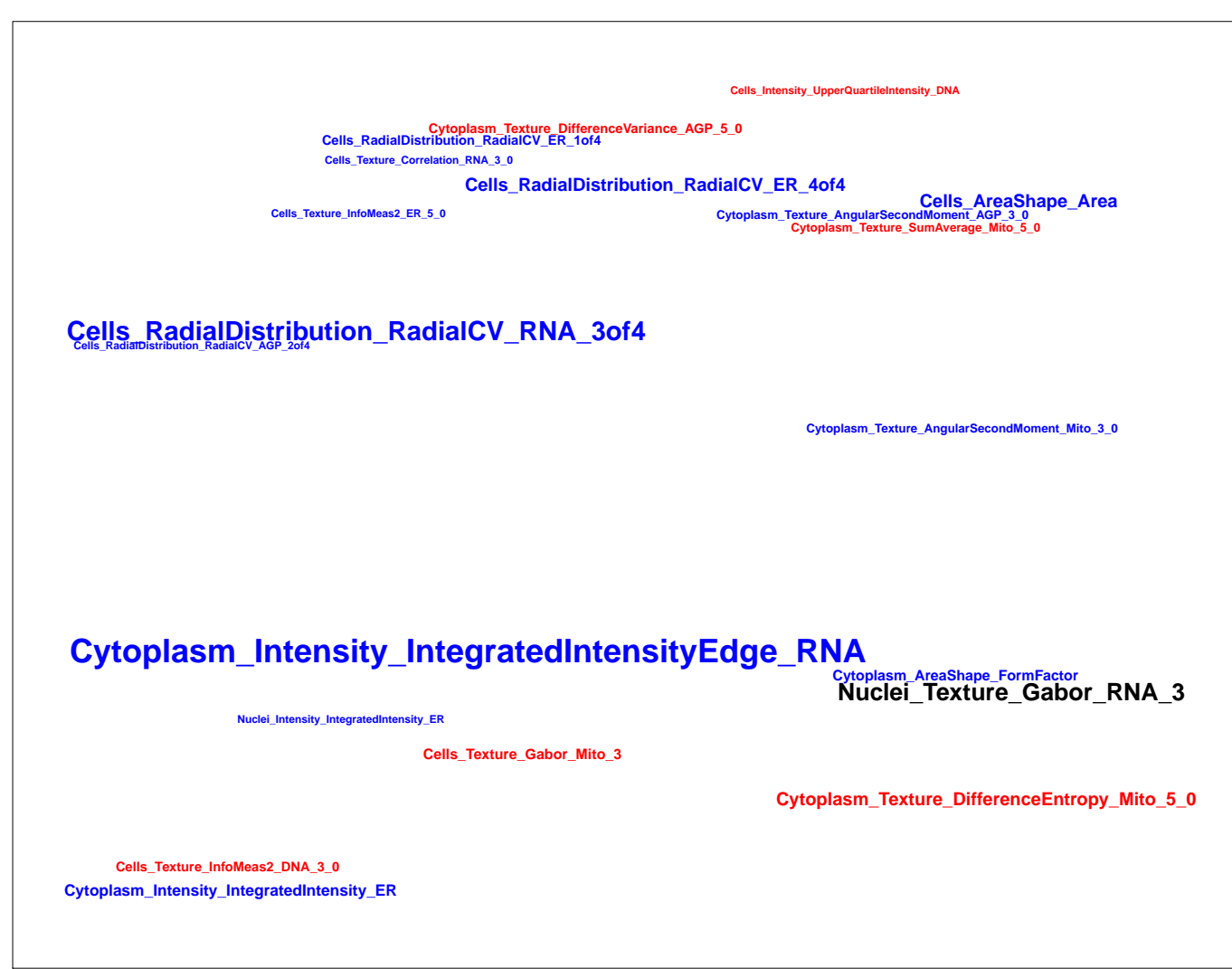
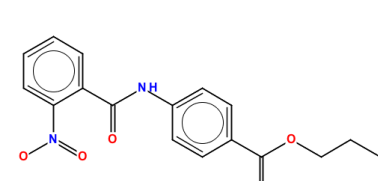
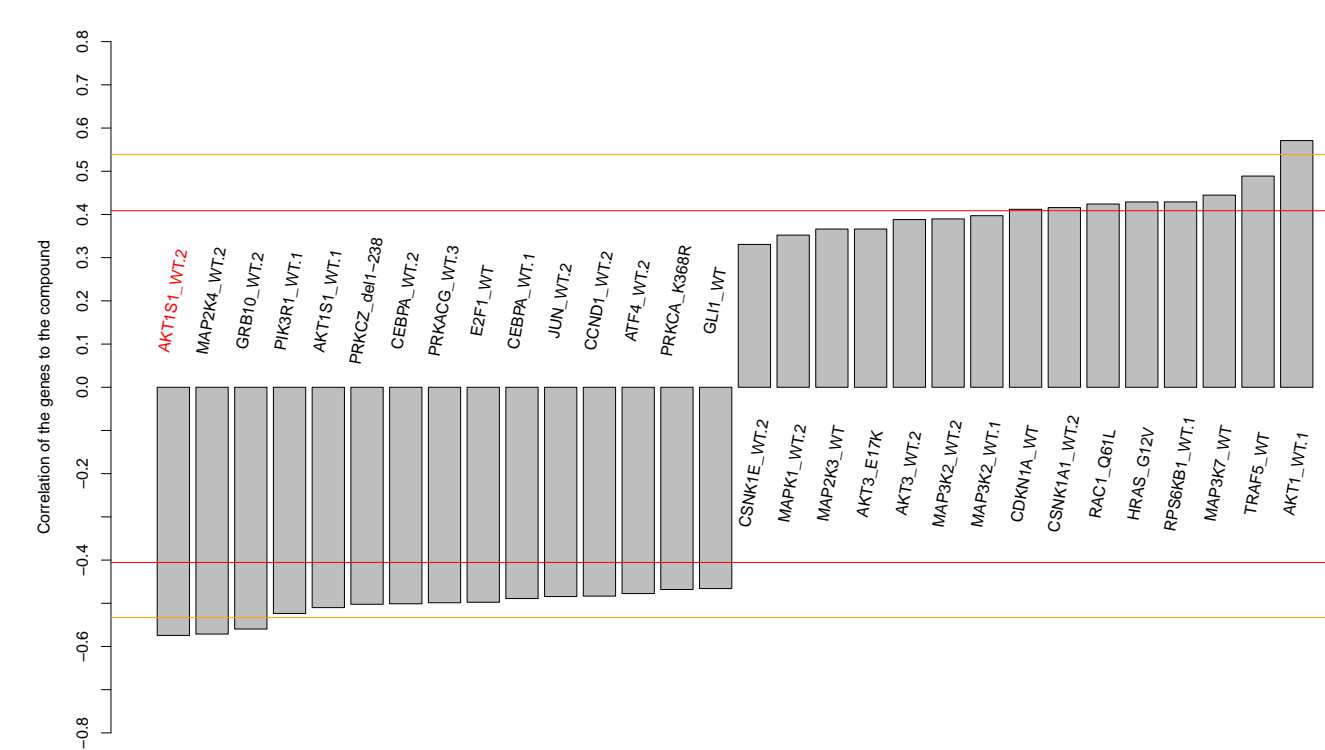
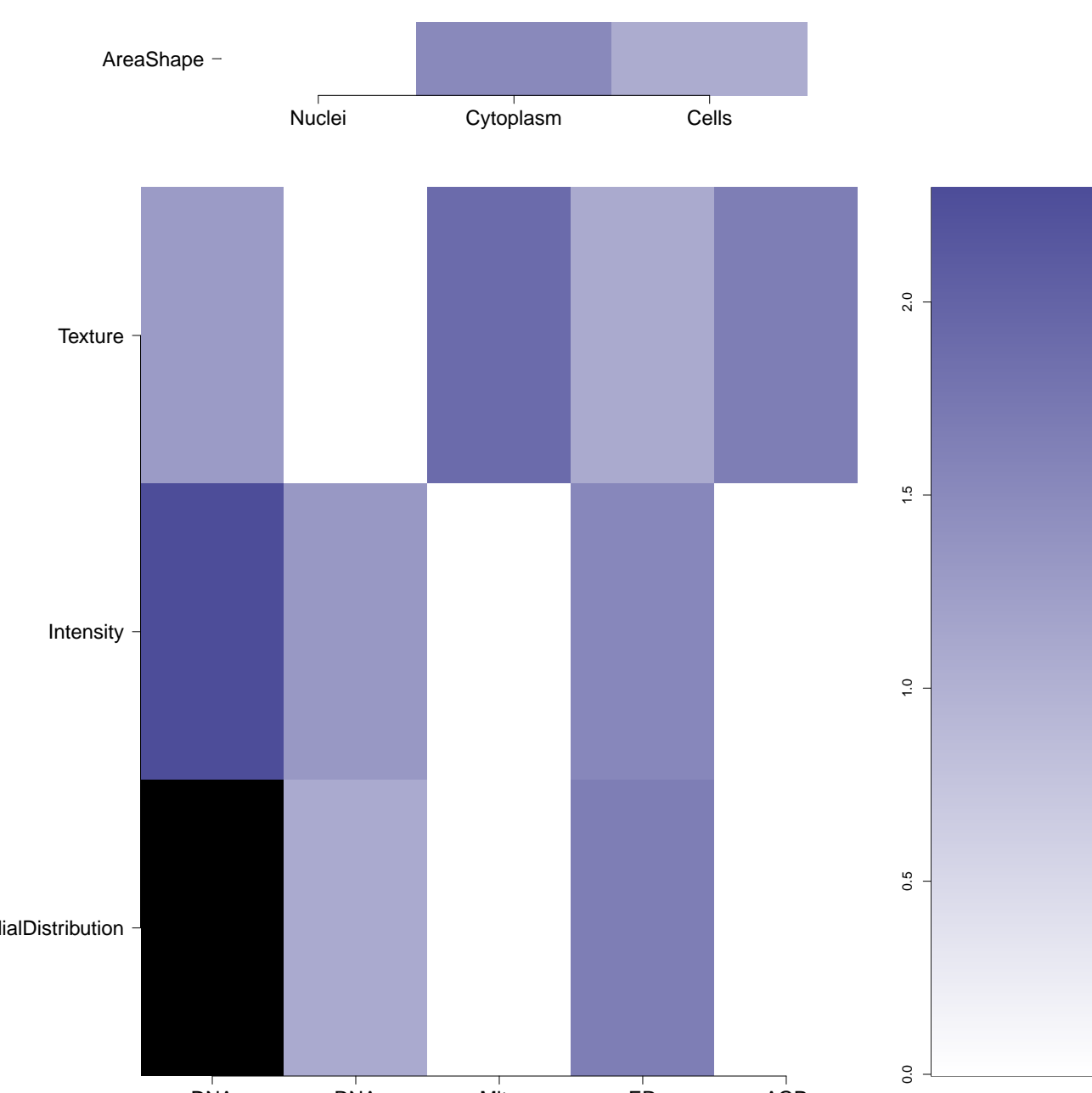
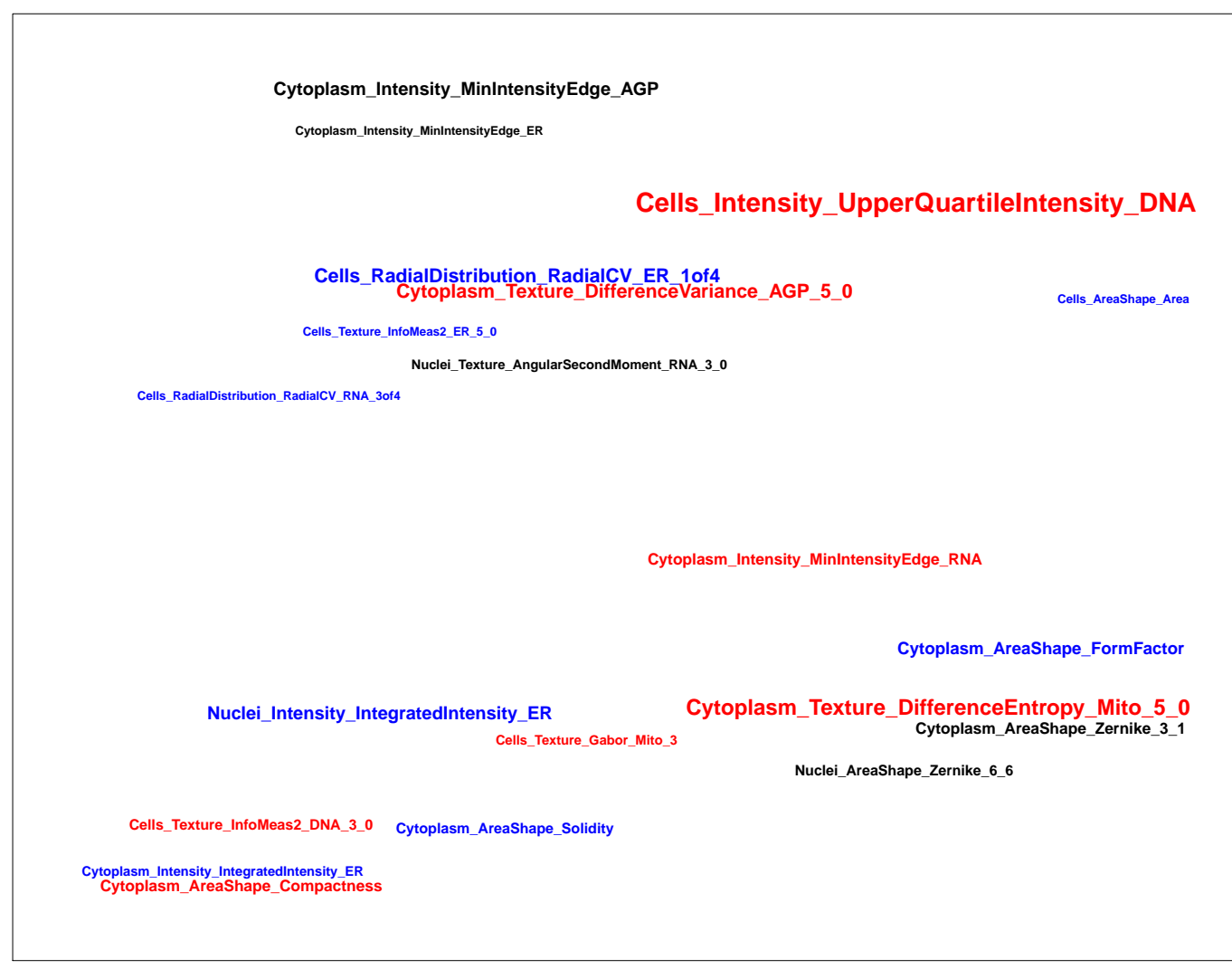
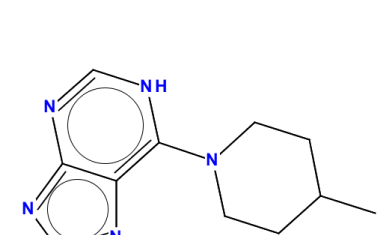
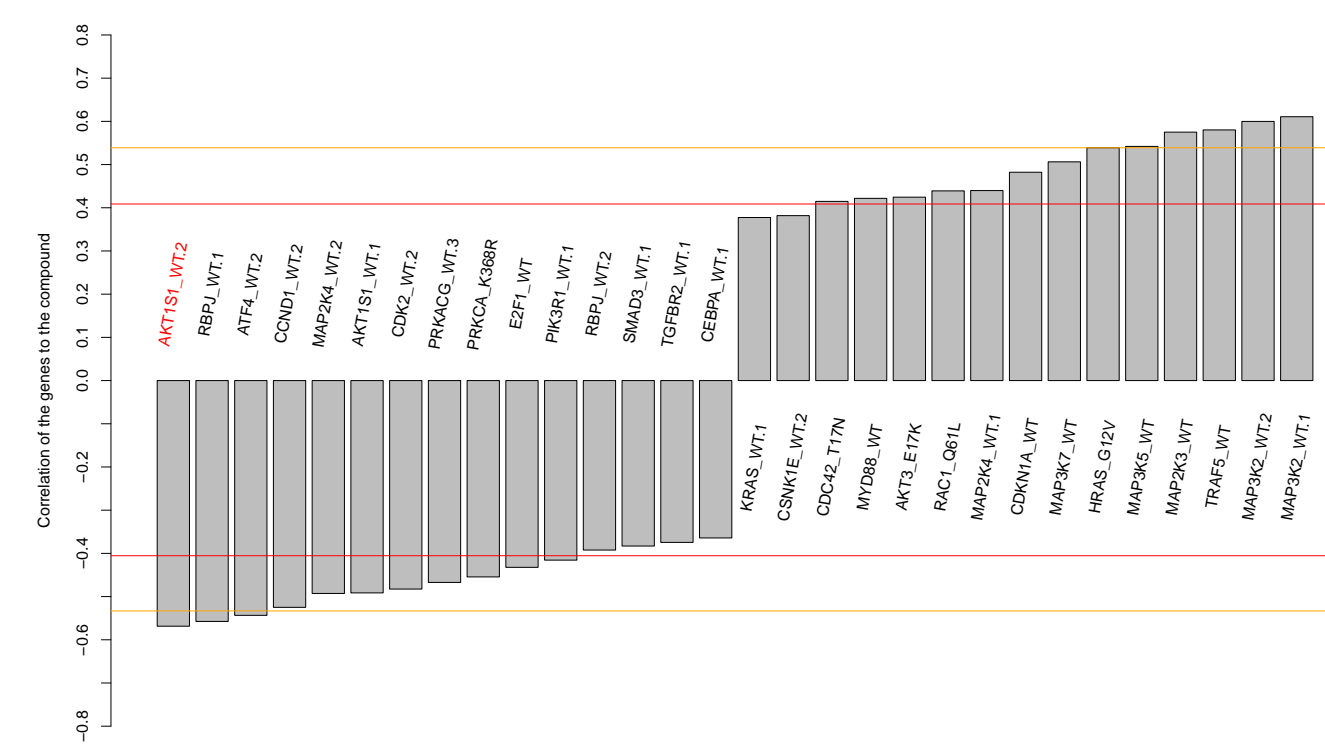
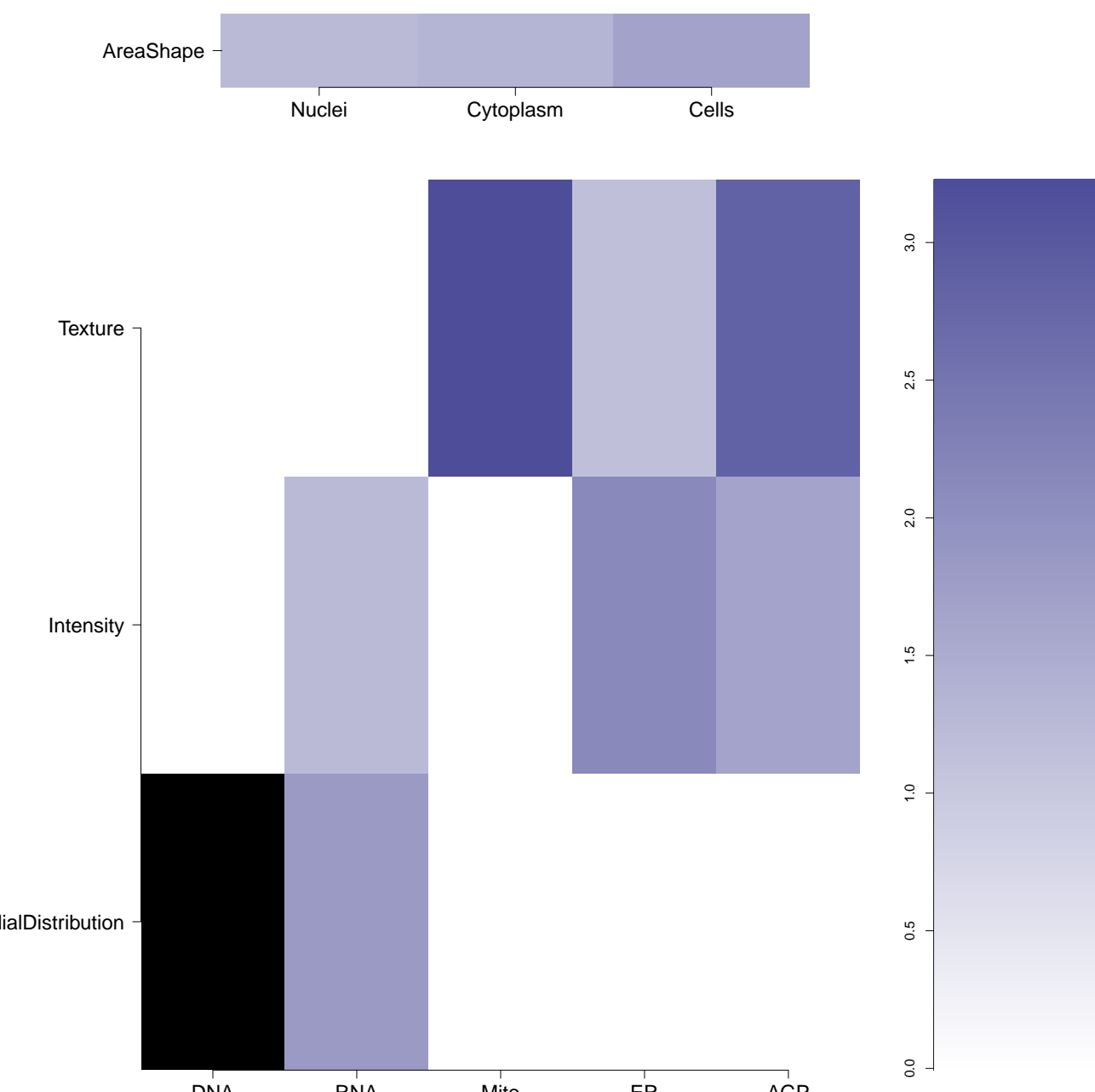

What groups of morphological features are distinguishing in the cluster relative to the untreated samples?
(maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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



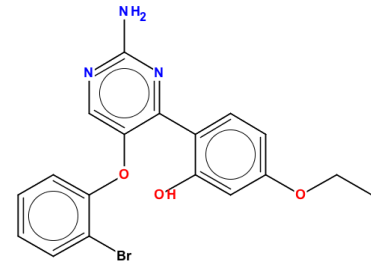
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.



Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.51)	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
--	--------------------	--	---------------------------------------	--	---	---	---	---

BRD-K48693155-001-01-2 PubChem CID : 54618096		0.87 (in 4 replicates)	0.67	NA				Total number of assays tested in: 37.
BRD-K67411319-001-01-8 PubChem CID : 44501932		0.86 (in 3 replicates)	0.65	0.069				Total number of assays tested in: 47.
BRD-K26421164-001-01-3 PubChem CID : 54618114		0.65 (in 4 replicates)	0.59	0.755				Total number of assays tested in: 35.
BRD-K27824357-001-01-4 PubChem CID : 54618409		0.71 (in 4 replicates)	0.41	0.755				Total number of assays tested in: 37.
BRD-A4148464-001-06-0 BRN 1211793 67086-81-1 F1912-0001 AC1MCJDX MLS000678441 CTK517353 HMS2721O10 HE088600 KB-92026 SMR000323916 KB-323361 LS-151122 PubChem CID : 2771064		NA (in 1 replicates)	-0.67	NA				Total number of assays tested in: 617. Active in the following assays: <ul style="list-style-type: none"> • qHTS identification of TNAP inhibitors in the absence of phosphate acceptor performed in luminescent assay (AID 1012) • Aqueous Solubility from MLSMR Stock Solutions (AID 1996) • Primary biochemical fluorescence polarization-based high throughput screening assay to identify inhibitors of protein arginine methyltransferase 1 (PRMT1) (AID 65257)
BRD-K47972240-001-05-9 ST50921582 BAS 00623732 MLS000709075 AC1M298U HMS2669J16 CCG-7158 ZINC2745420 STK414109 ZINC02745420 SMR000282942 KB-104881 EU-0036221 PubChem CID : 2164898		NA (in 1 replicates)	-0.57	NA				Total number of assays tested in: 632. Active in the following assays: <ul style="list-style-type: none"> • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • Primary cell-based screen for identification of compounds that inhibit the two-pore domain potassium channel KCNK9 (AID 488922) • Confirmatory screen for identification of compounds that inhibit the two-pore domain potassium channel KCNK9 (AID 492992) • Primary cell-based screen for identification of compounds that inhibit the two-pore domain potassium channel KCNK3 (AID 602410) • Confirmation assay for identification of compounds that inhibit the two-pore domain potassium channel KCNK3 [Primary Screening] (AID 651638) • 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-K42453497-001-05-5 SMR000126834 MLS000529835 STK617505 AC1LFNQ ChEMBL511499 BDBM41026 HMS2253C09 ZINC8623072 CCG-26899 ZINC08623072 EU-0022202 ST50032201 T6031538 PubChem CID : 756692		0.55 (in 4 replicates)	-0.57	0.245				Total number of assays tested in: 711. Active in the following assays: <ul style="list-style-type: none"> • Fluorescence polarization assay for PLK1 inhibitors (AID 619) • LYP Activators-an Autoimmunity Target - Primary screen (AID 697) • Primary biochemical high-throughput screening assay for inhibitors of Focal Adhesion Kinase (FAK) (AID 727) • Fluorescence polarization assay for PLK1 confirmation assay (AID 744) • Fluorescence Polarization assay for Plk1: IC50 Dose Response Assay (AID 785) • Confirmation biochemical assay for inhibitors of Focal Adhesion Kinase (FAK) (AID 794) • Dose-response biochemical assay for inhibitors of Focal Adhesion Kinase (FAK) (AID 810) • TR-FRET counterscreen for FAK inhibitors: dose-response biochemical high throughput screening assay to identify inhibitors of Prolin-rich tyrosine kinase 2 (Pyk2) (AID 1641) • Dyrk1 A HTS Measured in Biochemical System Using Plate Reader - 2124-01.Inhibitor.SinglePoint.HTS.Activity (AID 504441) • Luminescence-based cell-based primary high throughput screening assay to identify agonists of the mouse 5-hydroxytryptamine (serotonin) receptor 2A (HTR2A) (AID 62149)

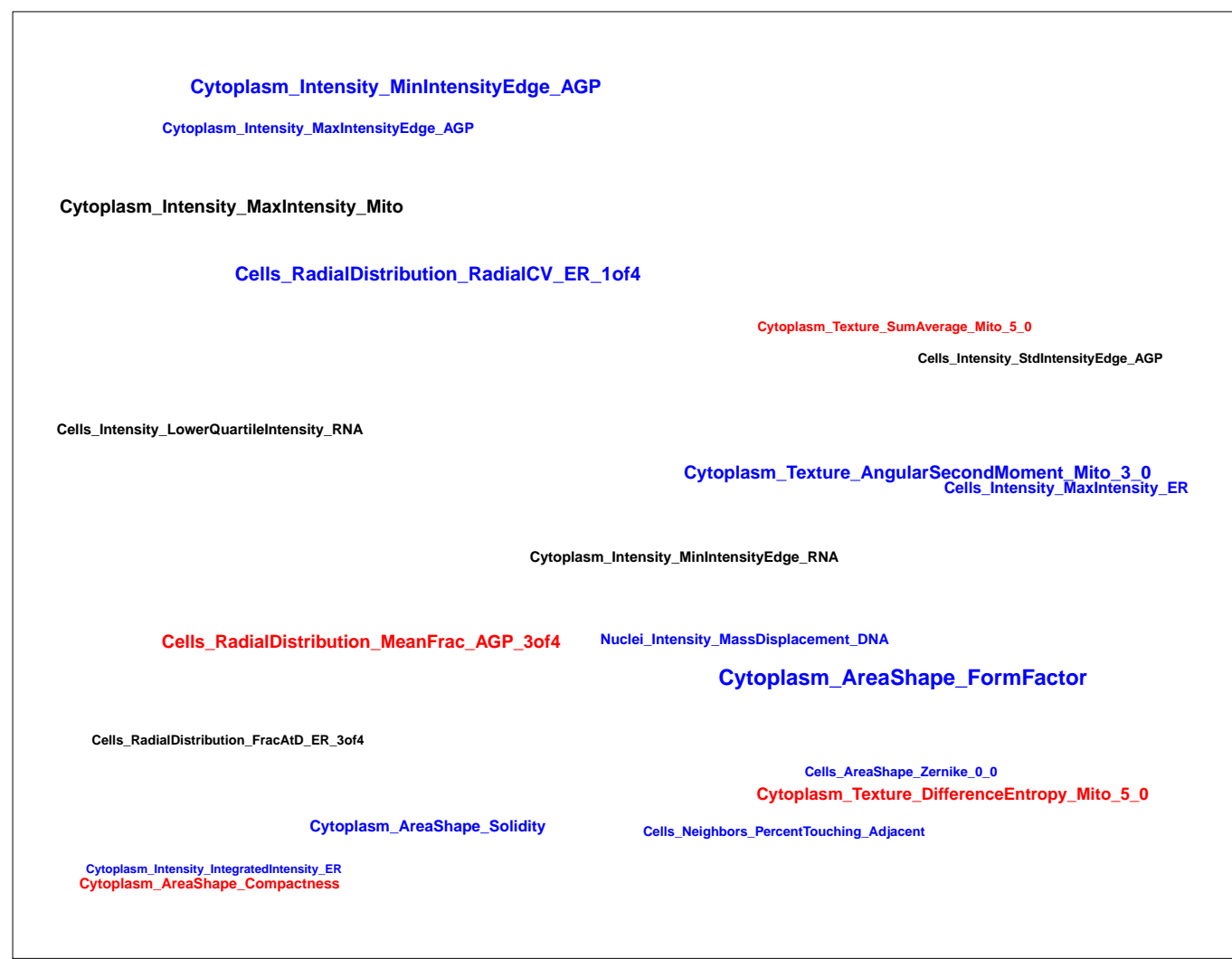
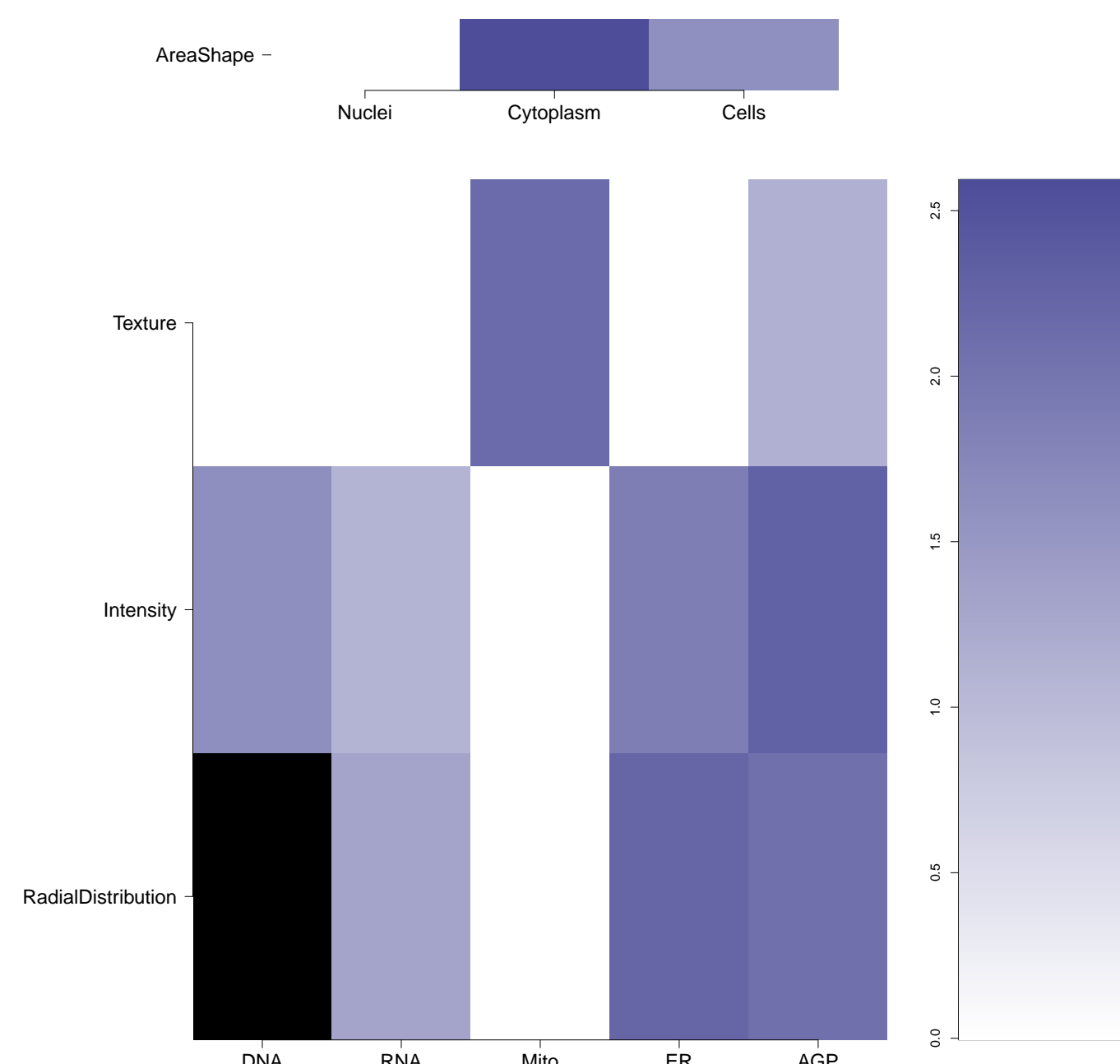
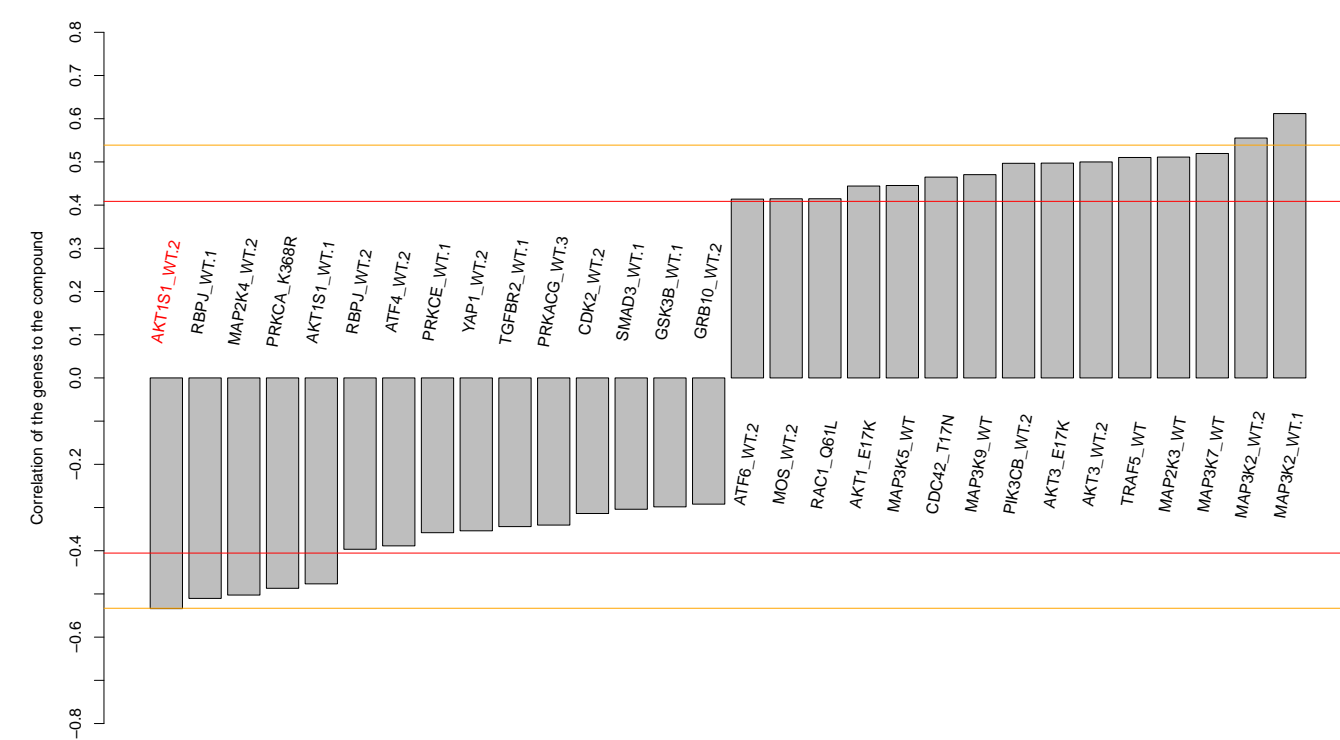
BRD-K12132610-001-05-3
AC1NZGFJ
MLS000552085
HMS2158K11
STK850382
SMR000145810
ST50475406
PubChem CID : 5907754



0.52 (in 4 replicates)

-0.53

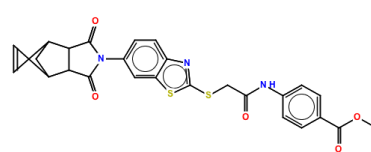
0.245



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

- Screening for Modulators of Post-Golgi Transport (Control Strain (AID 738))
- Chemical Genetic Screen to Identify Inhibitors of Mitochondrial Fusion - Primary Screen (AID 1362)
- HTS for small molecule inhibitors of CHOP - regulate the unfolded protein response to ER stress (AID 2732)
- Primary qHTS for delayed death phenotypes in the malarial parasite plasmod, 96 hour incubation (AID 504834)
- HTS to Find Inhibitors of Pathogenic Pempplg Antibodies (AID 588358)
- qHTS for Inhibitors of TGF- β Cytotoxic CounterScreen (AID 588856)
- qHTS for induction of synthetic lethality in *Escherichia coli* producing 3HC; qHTS for the H₂O₂ 1080-10182 cell line (AID 686071)
- qHTS-based biochemical primary high throughput screening assay to identify exoskeletal inhibitors of ADAM10 (AID 720582)

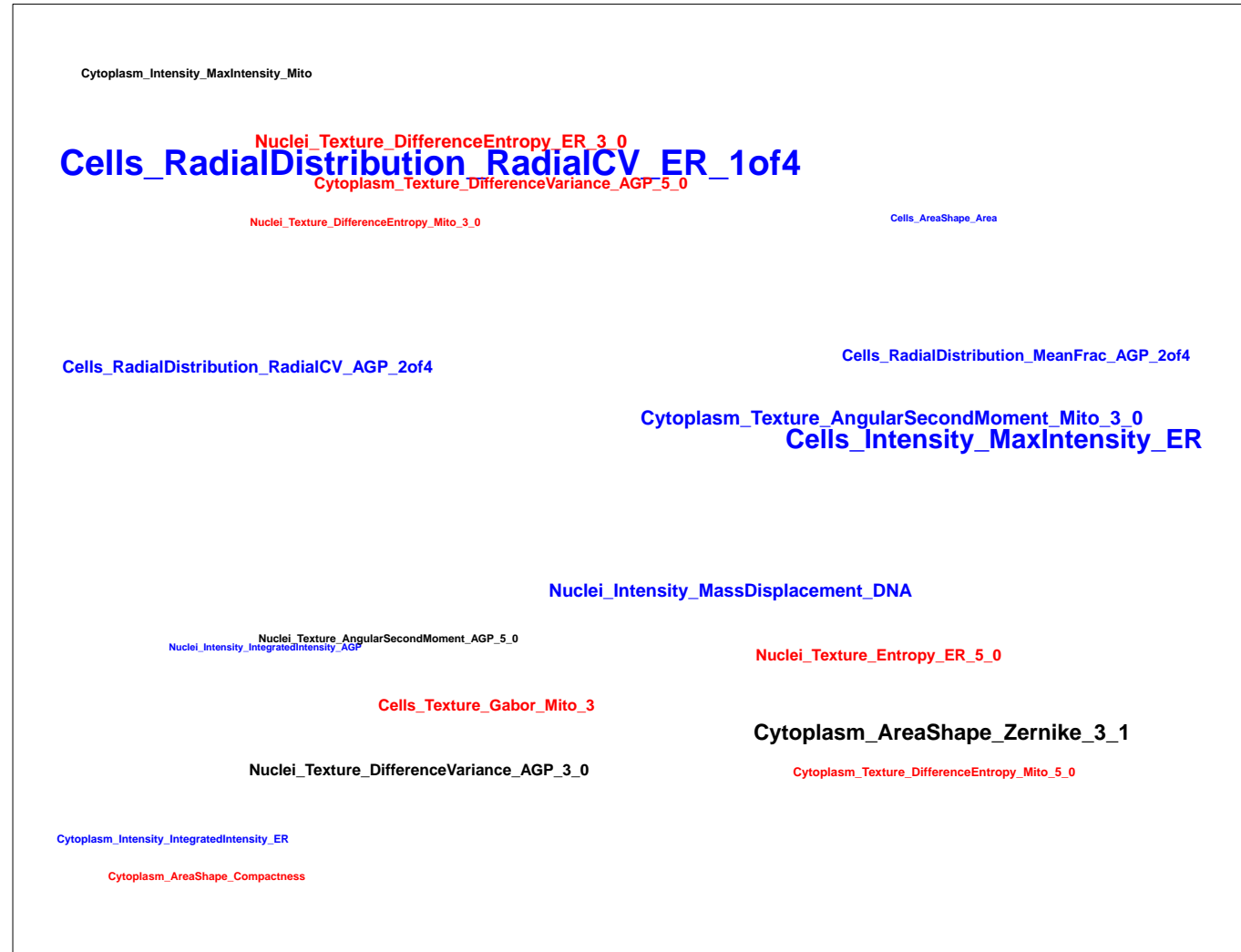
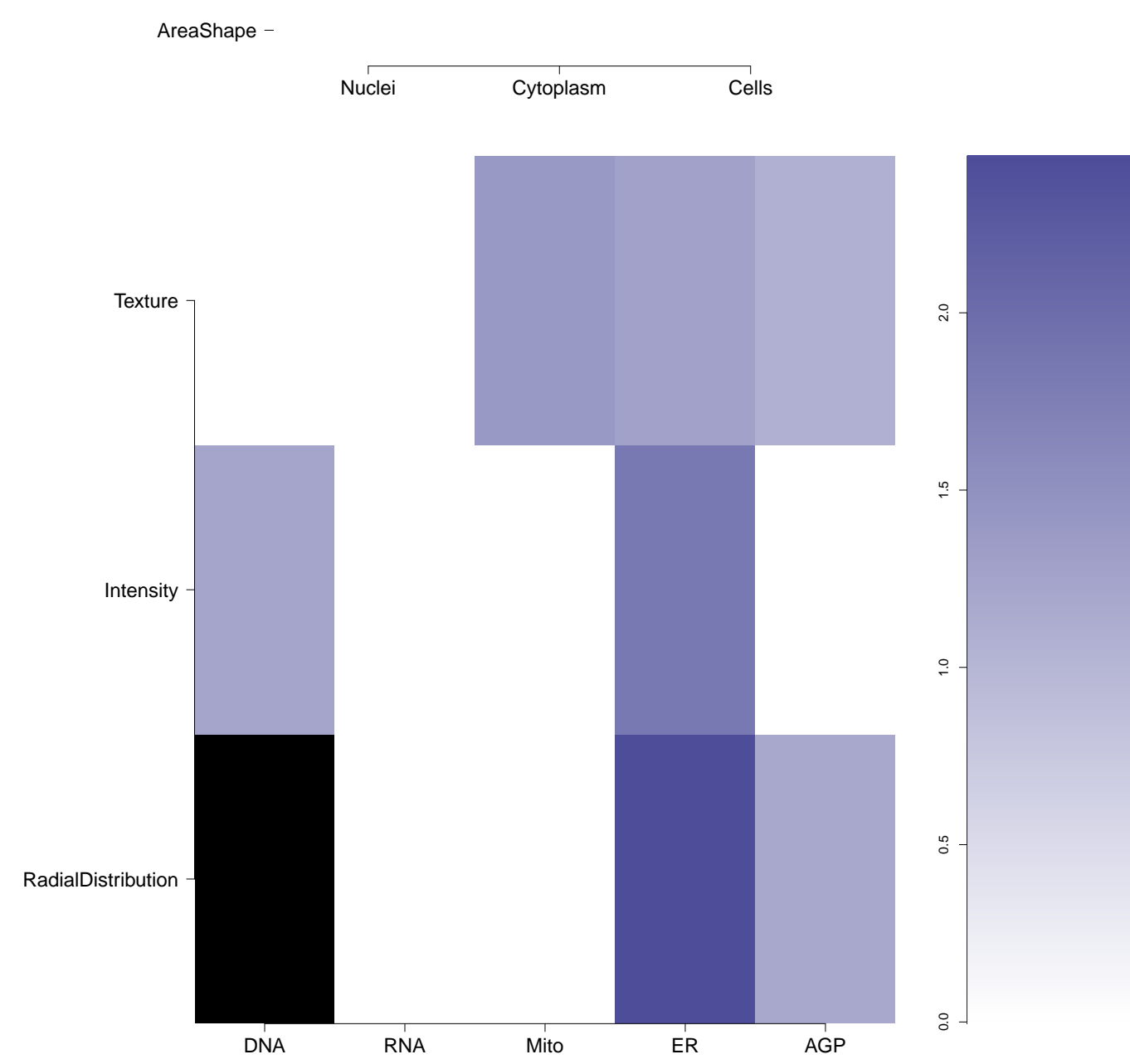
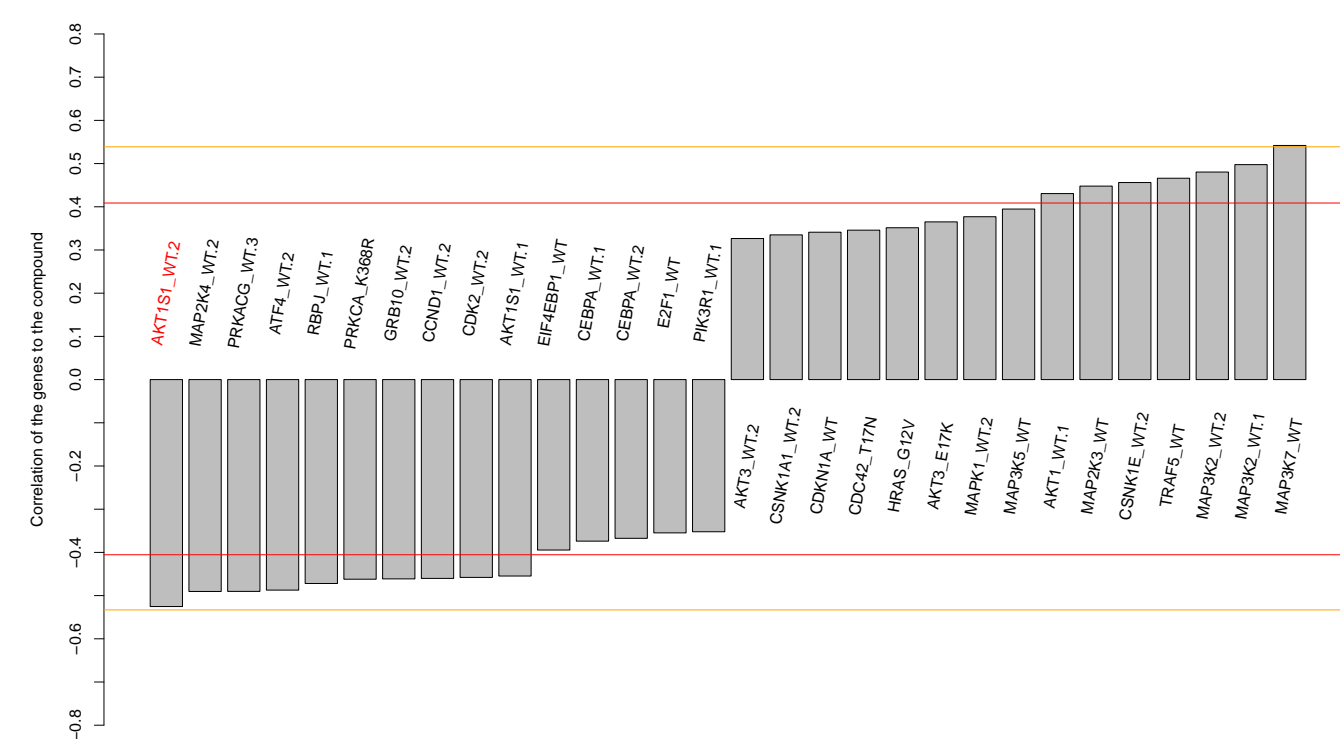
BRD-A44438286-001-05-1
SMR000217585
MLS000590608
AC1NELBY
MLS003902485
BDBM79542
HMS2571114
STL333705
PubChem CID : 4594054



0.51 (in 4 replicates)

-0.53

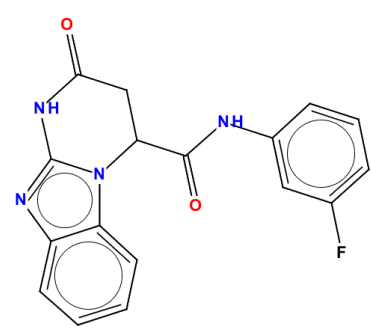
0.245



Panel A Total number of assays tested in: 667. Active in the following assays:

- HTS luminescence assay for the identification of compounds that inhibit NOD1 (AID 1575)
- Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 231)
- A Cell Based Secondary Assay To Explore Cytotoxicity of Compounds that Inhibit Mycobacterium Tuberculosis (AID 435019)
- High Throughput Screening Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in 7H9 Media (AID 449762)
- A High Throughput Confirmatory Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in the absence of Glycerol (AID 449764)
- HTS for identification of Inhibitors of Mdm2/MdmX interaction in human cells (AID 448536)
- MITF Measured in Cell-Based System Using Plate Reader - 208
- 0L Inhibitor Single-Point HTS Activity (AID 488899)
- Image-Based HTS for Selective Agonists for NTR1 (AID 493036)
- 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)
- Single concentration confirmation of Image-Based HTS for Selective Agonists for NTR1 (AID 505350)
- Primary qHTS for delayed death inhibitors in human embryonic plastid, 96 hour incubation (AID 504834)
- qHTS profiling assay for freely luciferase inhibitor/activator using purified enzyme and concentrations of substrates (counterscreen for miR-21 project) (AID 588342)
- HTS Assay for Peg3 Promoter Inhibitors (AID 588405)
- Primary cell-based high-throughput screening for identification of compounds that antagonize Mrgr1 receptor signaling (AID 588676)
- Fluorescence-based cell-based primary high-throughput screening assay to identify antagonists of the human M1 muscarinic receptor (CHRM1) (AID 588852)
- Re-confirmation screening for identification of compounds that antagonize Mrgr1 receptor signaling (AID 60040)
- Fluorescence-based cell-based primary high-throughput screening assay to identify antagonists of the human trace amine associated receptor 1 (TAAR1) (AID 624466)
- Flow Cytometric HTS Screening for Inhibitors of Lytic Granule Exocytosis with MILPC Compound Library (AID 651702)
- Counterscreen for antagonists of the human trace amine associated receptor 1 (hTAAR1) Fluorescence-based cell-based high throughput screening assay to identify nonselective G_q agonists (AID 651702)
- Fluorescence-based cell-based primary high-throughput confirmation assay to identify antagonists of the human trace amine associated receptor 1 (TAAR1) (AID 651785)
- qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820)
- Counterscreen for antagonists of the human trace amine associated receptor 1 (hTAAR1) Fluorescence-based cell-based high throughput screening assay to identify nonselective G_q agonists (AID 651953)
- Flow Cytometric HTS Screening for Inhibitors of Lytic Granule Exocytosis with compounds from Chorus Field (AID 652054)
- Luminescence-based cell-based primary high-throughput screening assay to identify inhibitors of COUP-TFII (NRE2F2) (AID 686944)
- qHTS for Inhibitors of human tyrosyl-DN phosphodiesterase 1 (TDP1): qHTS in cells absence of CPT (AID 686978)
- qHTS for Inhibitors of human tyrosyl-DN phosphodiesterase 1 (TDP1): qHTS in cells presence of CPT (AID 686979)
- qHTS for Stage-Specific Inhibitors of Vaccinia Orthopoxvirus: Venus Report Primary qHTS (AID 720580)
- qFREET-based biochemical primary high-throughput screening assay to identify exosialin inhibitors of ADAM10. (AID 720582)
- Bursicon-induced LGR2 mediated cAMP production in LGR-2/CREB::Luciferase-expressing HEK293 cells Inhibition (AID 729647)
- Bursicon-induced LGR2 mediated cAMP production in LGR-2/CREB::Luciferase co-transfected HEK293 cells Inhibition Measured in Cell-Based System Using Plate Reader - 701
- 0L Antagonist Dose-CherryPick Activity-Set (AID 733613)
- LGR2 Counterscreening with MCarb Measured in Cell-Based System Using Plate Reader - 701
- 0L Antagonist Dose-CherryPick Activity-Set (AID 734444)
- High Throughput Screening for Foot and Mouth Disease Virus Antivirals (AID 115950)

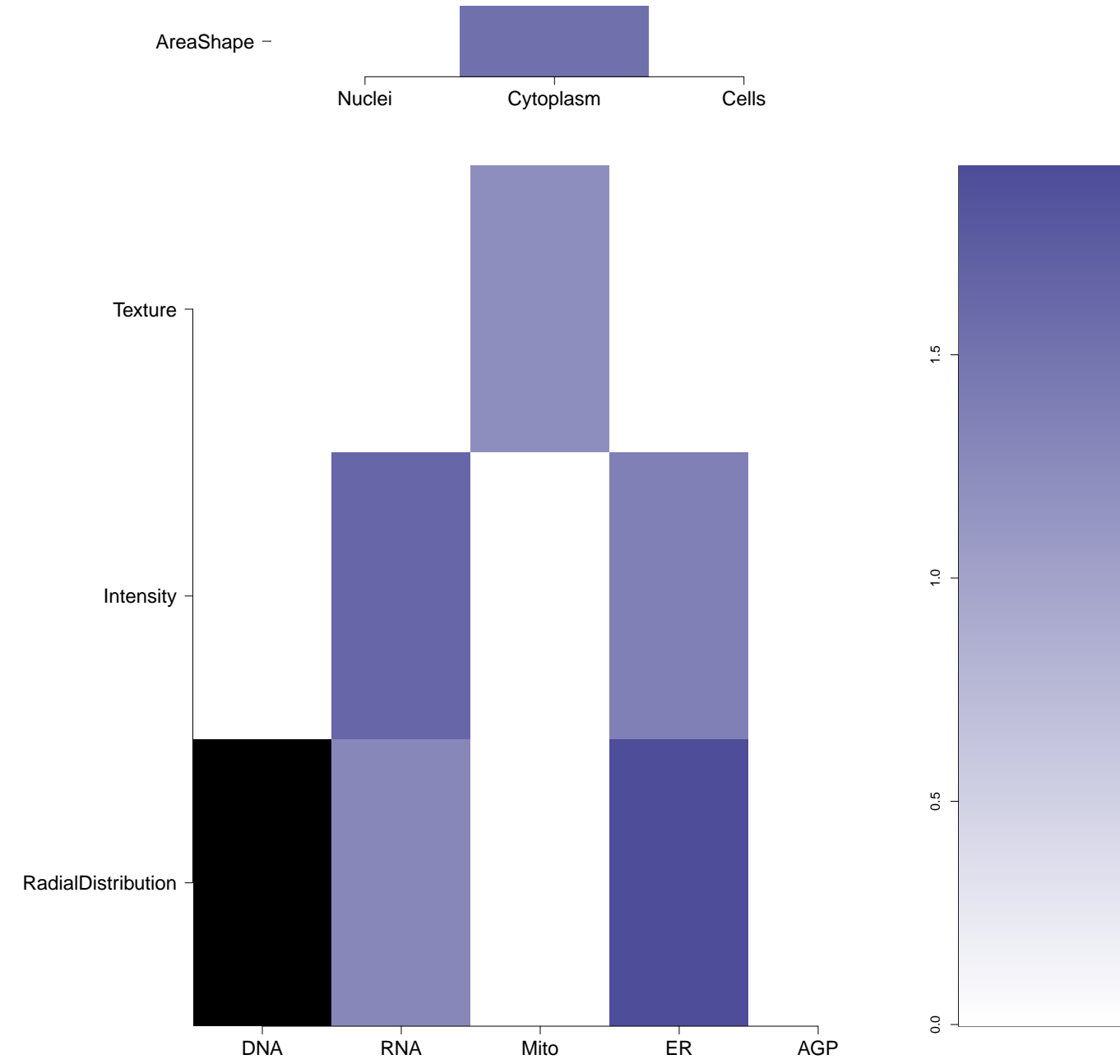
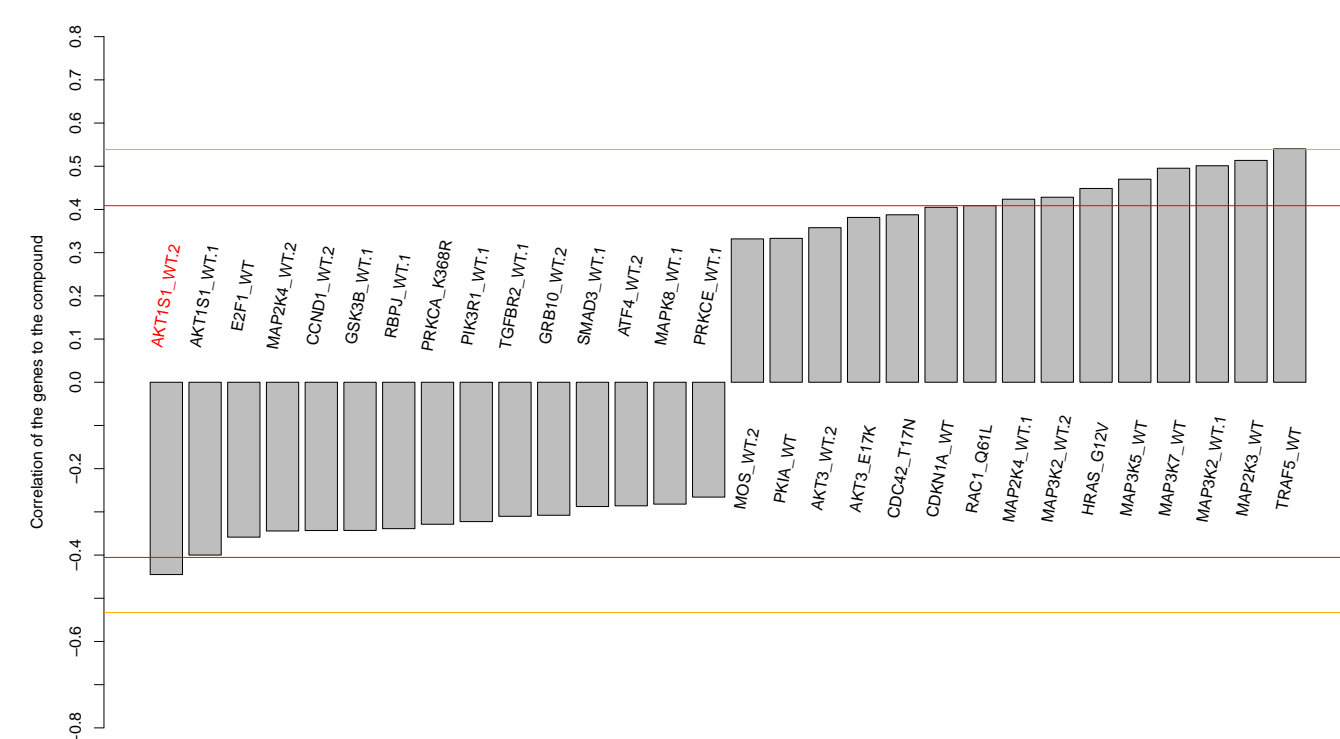
BRD-A59677526-001-05-6
BAS 11133255
AC1N1Y8BA
MLS000718751
HMS1619N08
HMS2759B23
STK210566
STK937244
CCG-122289
SMR000291019
ST063907
PubChem CID : 5769936



0.51 (in 3 replicates)

-0.45

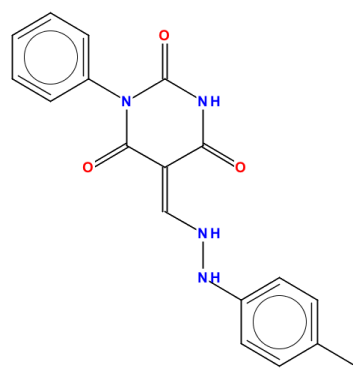
NA



Total number of assays tested in: 573. Active in the following assays:

- uHTS luminescence assay for the identification of chemical inhibitors of B-cell specific antigen receptor-induced NF- κ B activation (A1435022)

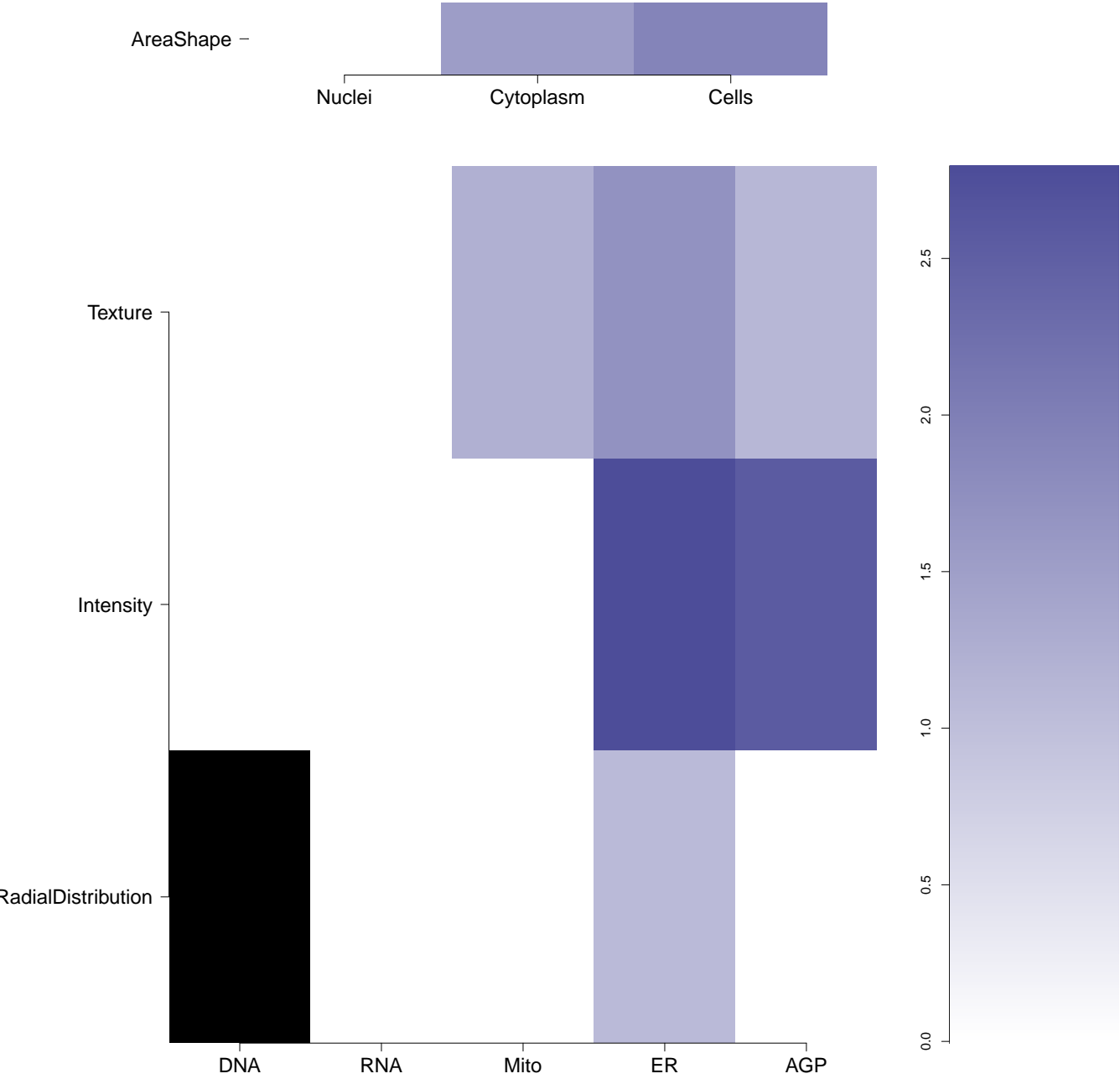
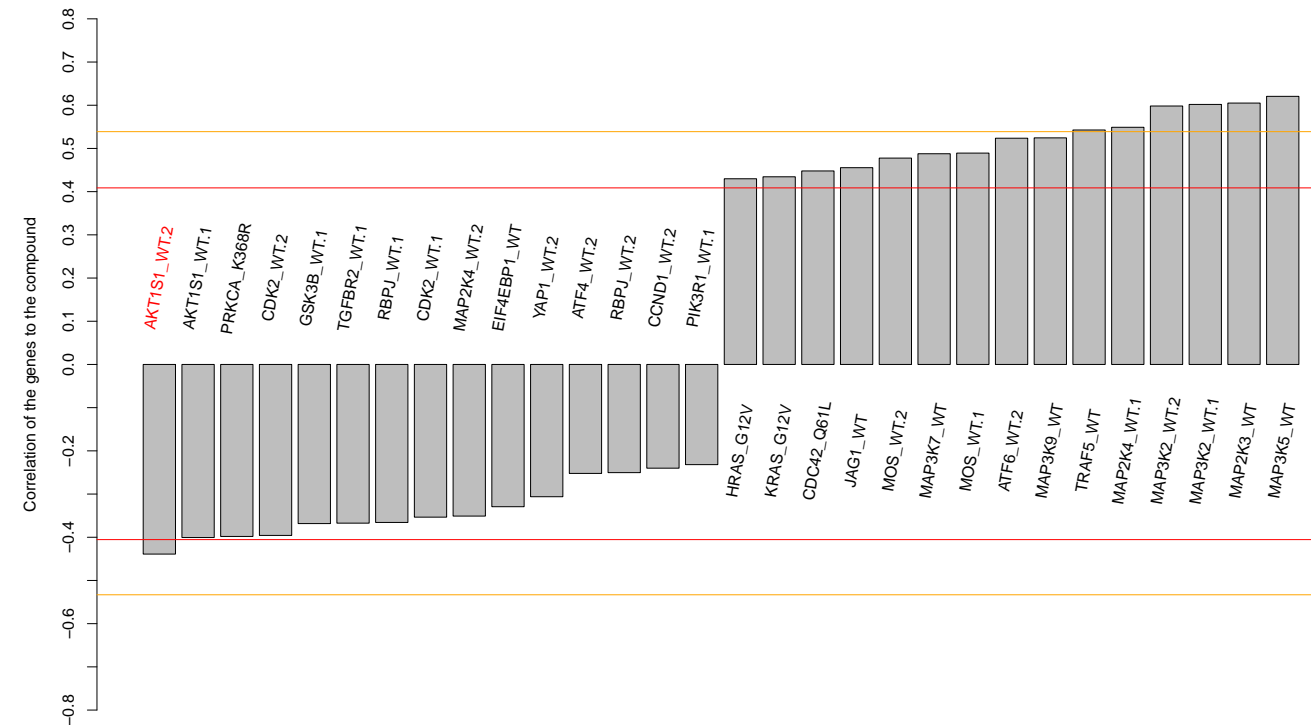
BRD-K40164621-001-06-7
AC1O4AX7
MLS000622103
HMS1645F16
HMS2709P10
ZINC3913397
SMR000311030
PubChem CID : 6383755



0.58 (in 4 replicates)

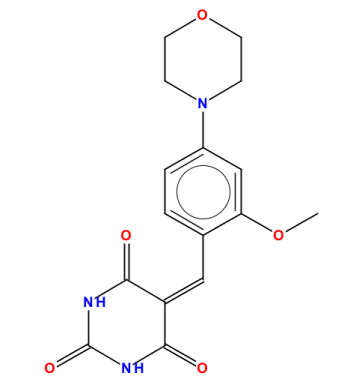
-0.44

NA



- Total number of assays tested in: 648. Active in the following assays:
- qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030)
 - Leishmania major promastigote HTS (AID 1063)
 - HTS identification of compounds activating phosphomannose isomerase (PMI) via a fluorescence intensity assay using a near-saturating concentration of mannose 6-phosphat (AID 1216)
 - qHTS for Inhibitors of Tau Fibril Formation, Thioflavin T Binding (AID 1460)
 - Luminescence-based primary biochemical high throughput screening assay to identify inhibitors of the Heat Shock Protein 90 (HSP90) (AID 1780)
 - Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)
 - Luminescence Cell-Based Primary HTS to Identify Inhibitors of Cancer Stem Cells (AID 2717)
 - Luminescence Cell-Based Dose Retest to Confirm Inhibitors of Cancer Stem Cells (AID 449748)
 - Dose Response HTS Screen to Identify Cytotoxic Compounds of HMLE.sh.eGFP (AID 463074)
 - qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxisomeoxins (AID 485364)
 - qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)
 - Luminescence-based cell-based primary high throughput screening assay to identify inverse agonists of heterodimerization of the mu 1 (OPRM1) and delta 1 (OPRD1) opioid receptors (AID 504357)
 - qHTS screen for small molecules that inhibit ELG1-dependent DNA repair in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504467)
 - C. difficile toxins: HTS for inhibitors of TolB glycohydrolase activity Measured in Biochemical System Using Plate Reader - 7074-01.Inhibitor.SinglePoint.HTS.Activity (AID 652162)
 - qHTS for induction of synthetic lethality in tumor cells producing 2HG: qHTS for the HT-1080-1DH1KD cell line (AID 686971)
 - C. difficile toxins: HTS for inhibitors of TolB glycohydrolase activity Measured in Biochemical System Using Plate Reader - 7074-01.Inhibitor.Dose.CherryPick.Activity (AID 720512)
 - C. difficile toxins: Counterscreen in absence of substrate UDPG Measured in Biochemical System Using Plate Reader - 7074-02.Inhibitor.Dose.CherryPick.Activity (AID 720650)

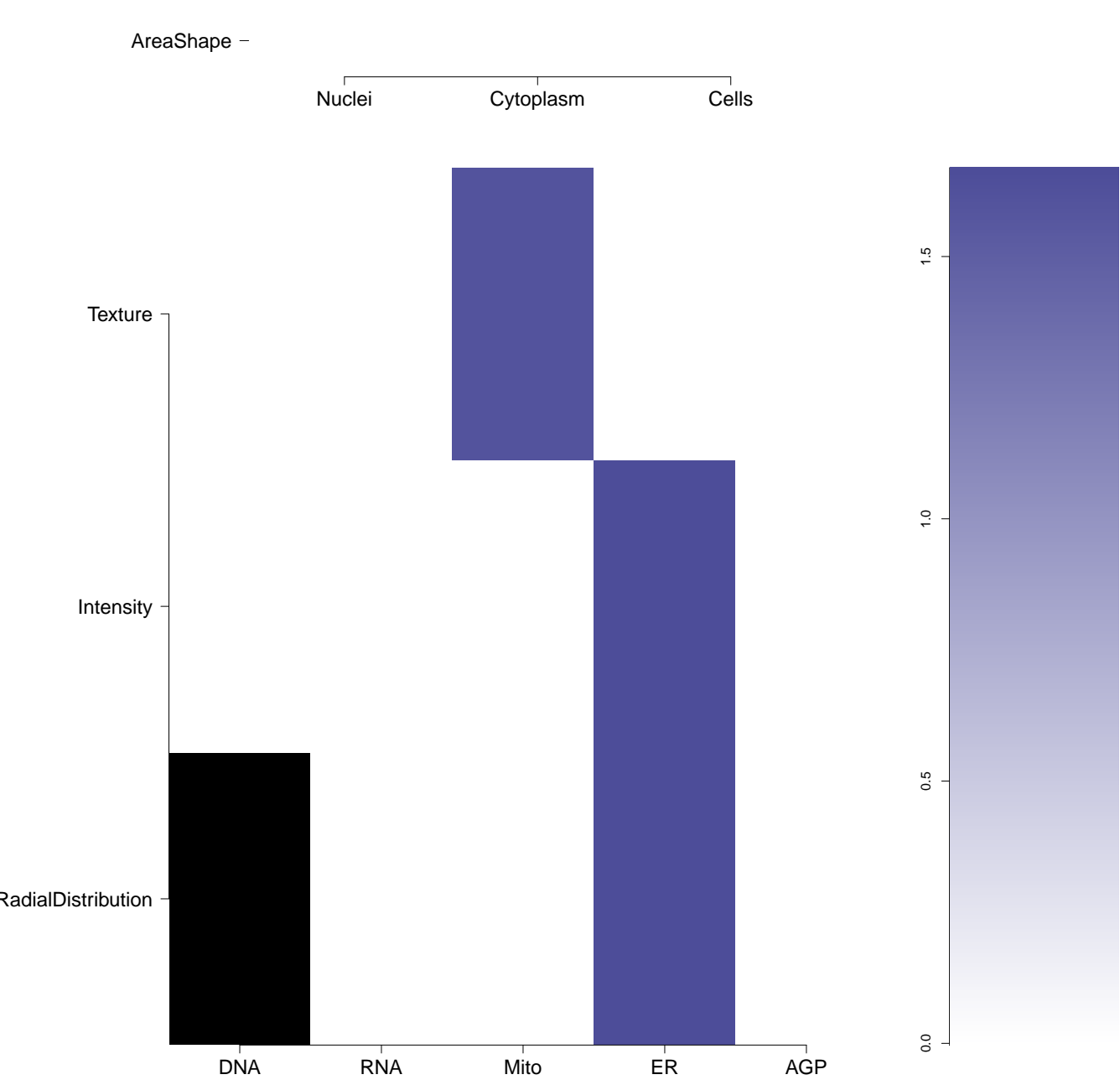
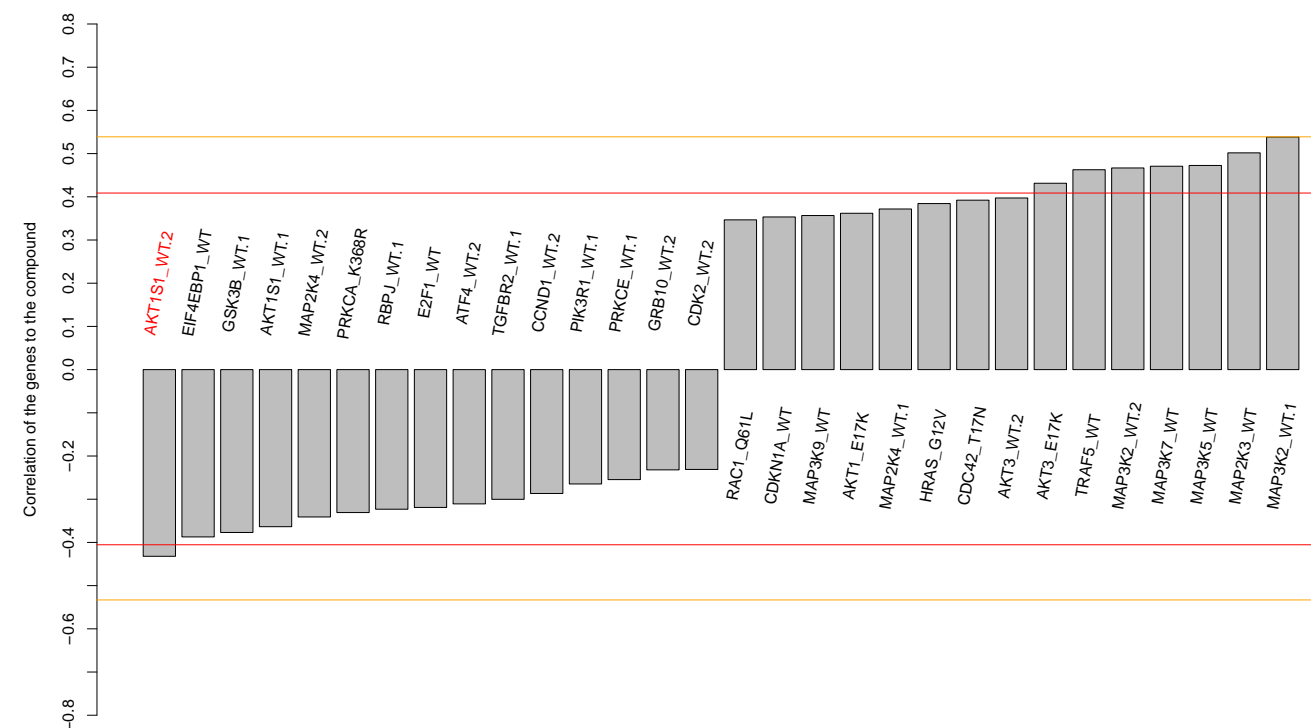
BRD-K54658376-001-05-0
MLS000575341
AC1M4YTA
Ambcb6884374
ZINC2994573
STL370139
SMR000196575
PubChem CID : 2291919



0.53 (in 4 replicates)

-0.43

NA



- Total number of assays tested in: 644. Active in the following assays:
- qHTS Assay for Inhibitors of HPGD (15-Hydroxyprostaglandin Dehydrogenase) (AID 894)
 - Multiplexed high-throughput screen for small molecule regulators of Bcl-2 family protein interactions, specifically Bim-Mcl-1 (AID 1009)
 - qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030)
 - Total Fluorescence Counterscreen for Inhibitors of the Interaction of Thyroid Hormone Receptor and Steroid Receptor Coregulator 2 (AID 1479)
 - qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490)
 - qHTS fluorescence polarization assay for the identification of translation initiation inhibitors (eIF4H) (AID 2012)
 - qHTS fluorescence polarization assay for the identification of translation initiation inhibitors (PABP) (AID 2014)
 - qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)