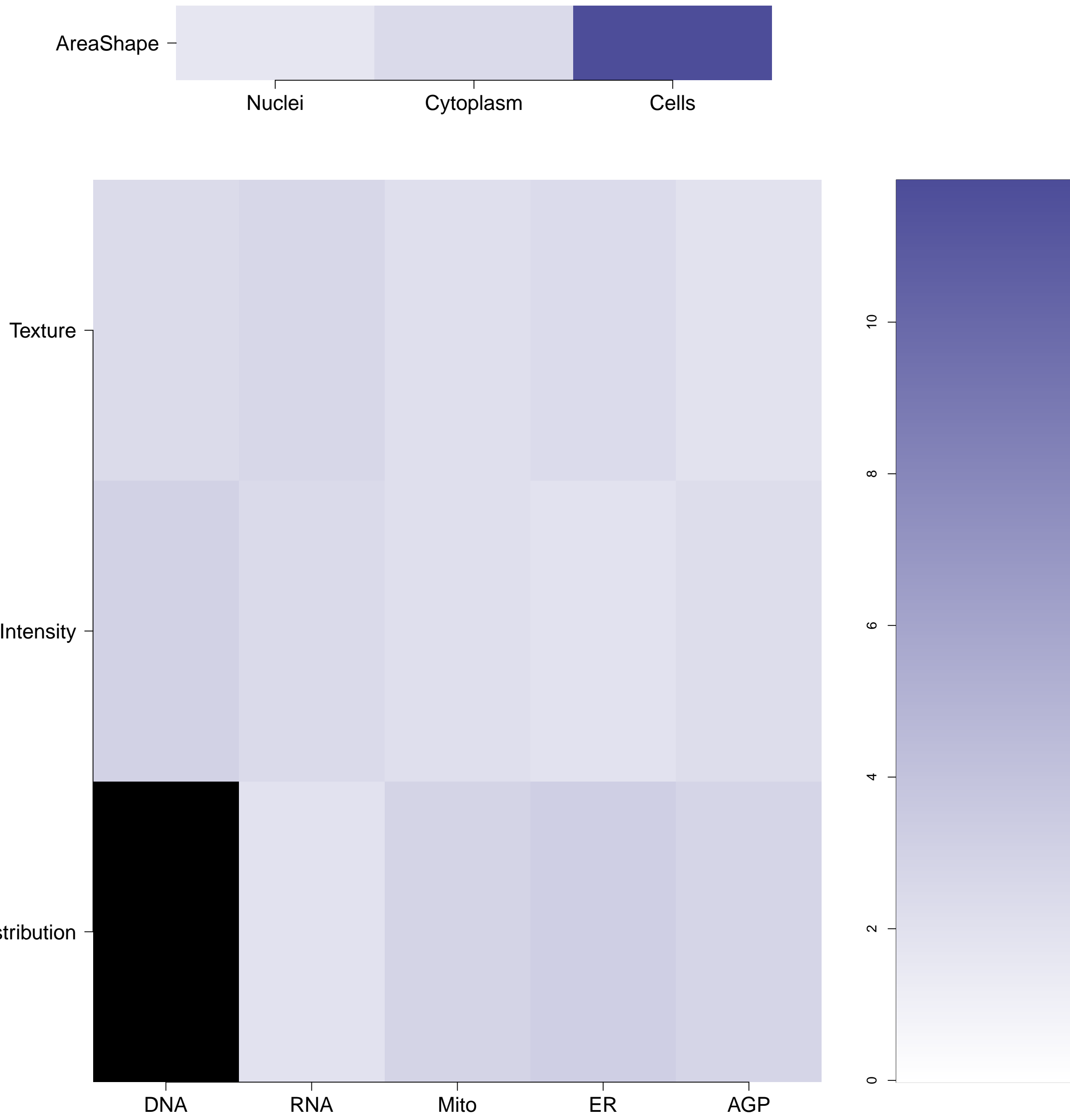
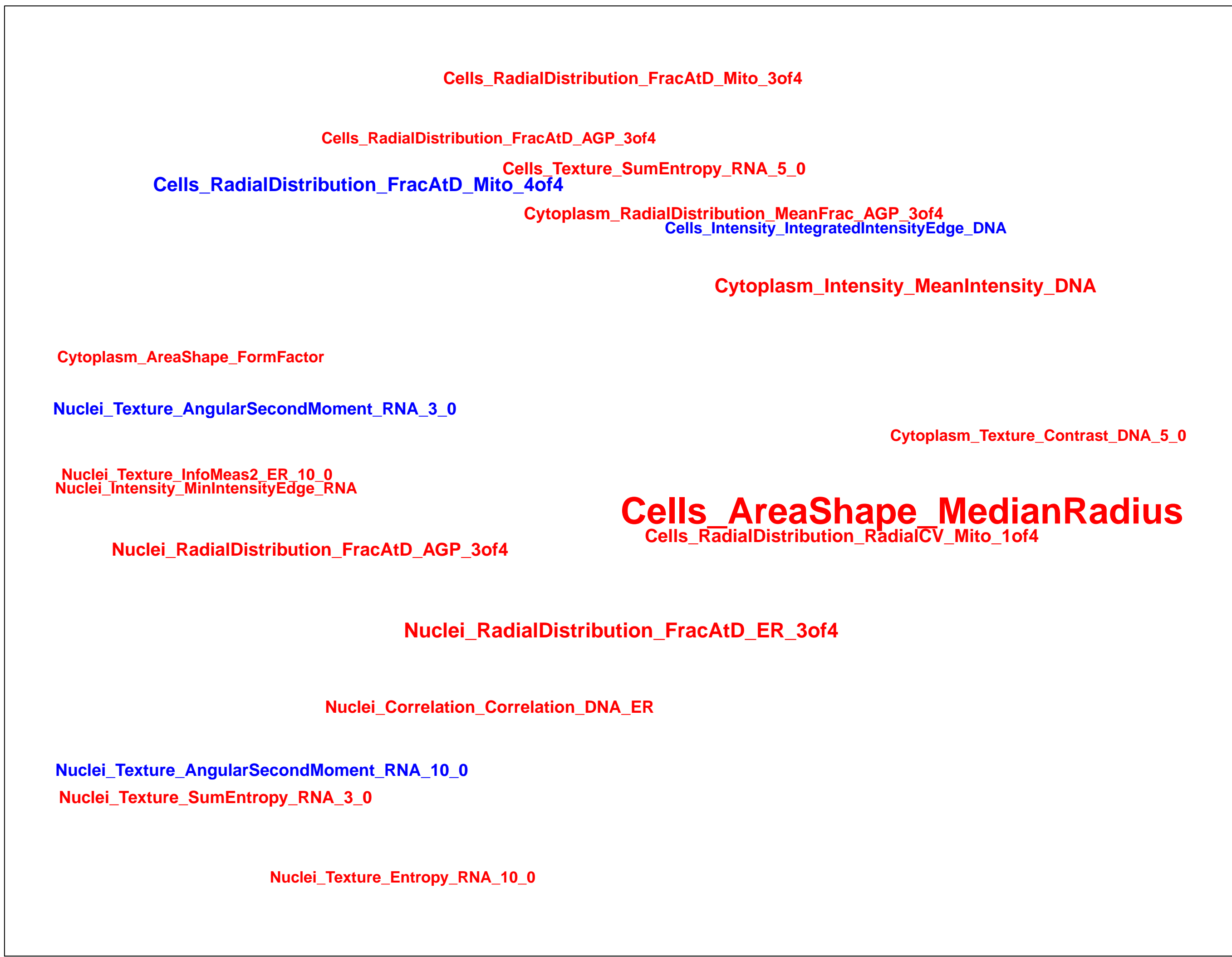


What groups of morphological features are distinguishing in the cluster relative to the untreated samples?
(maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

SGK3.WT.2 (41744)

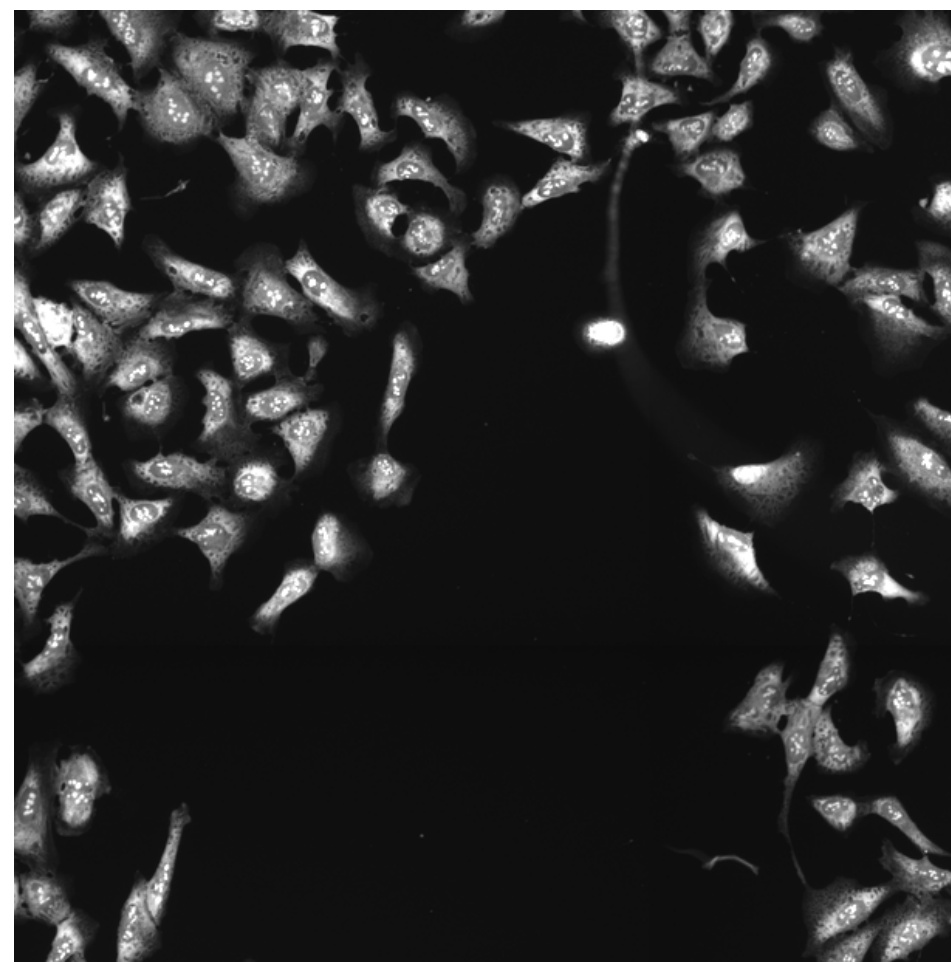
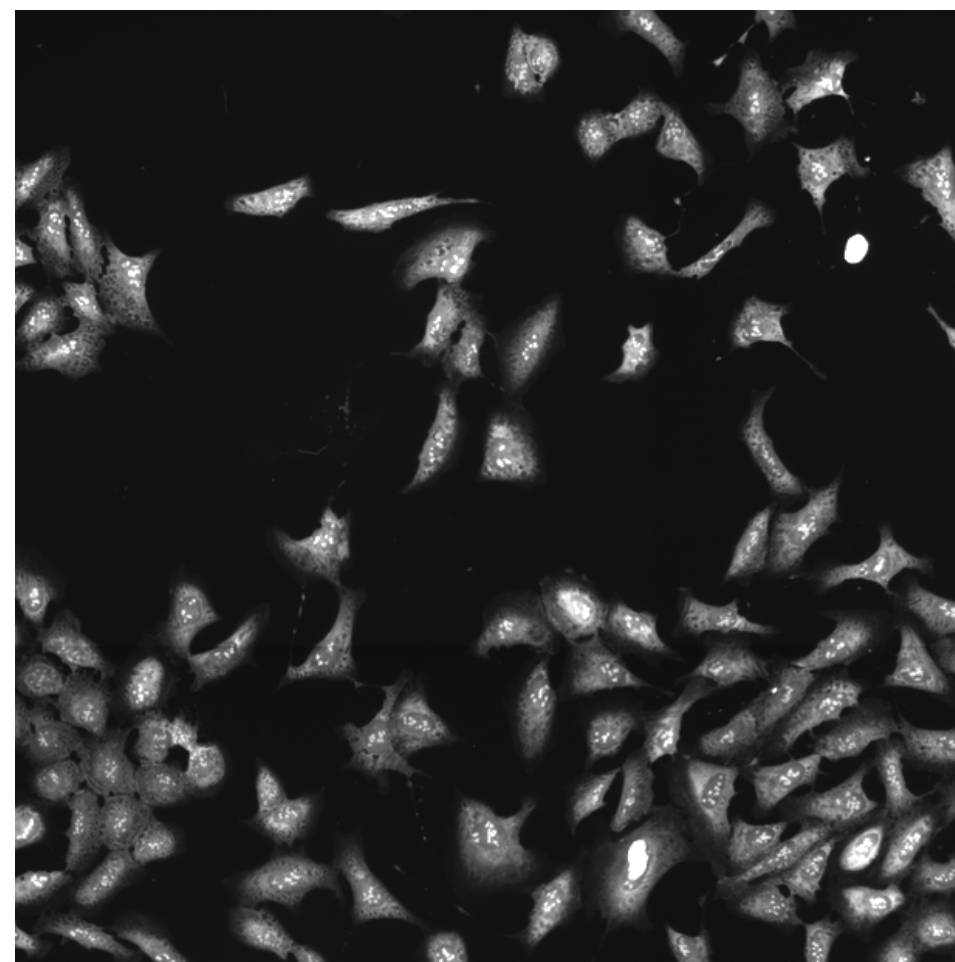
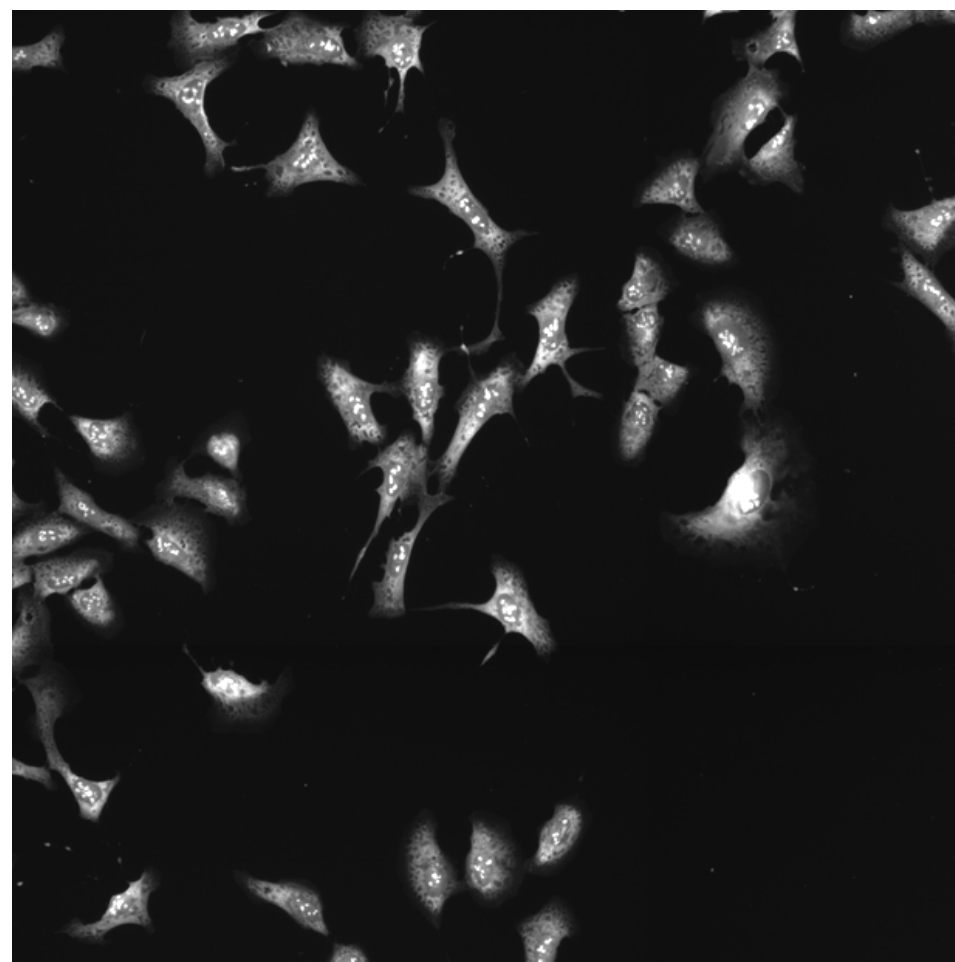
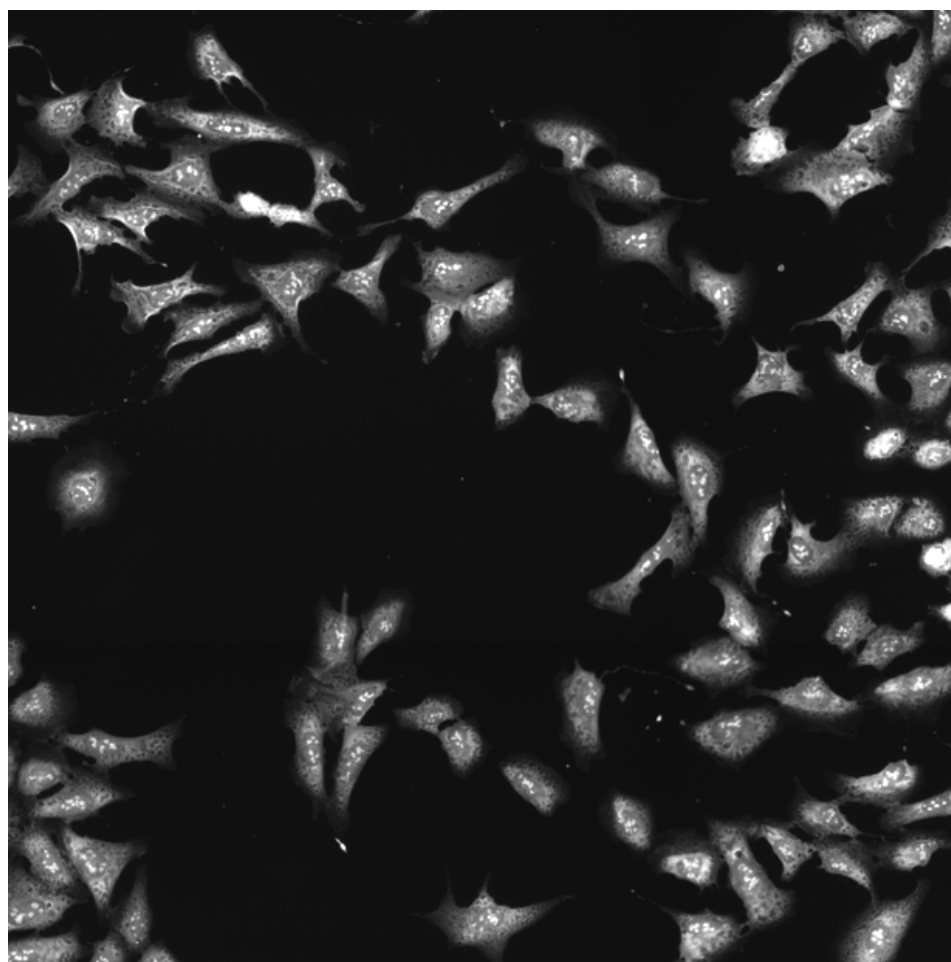
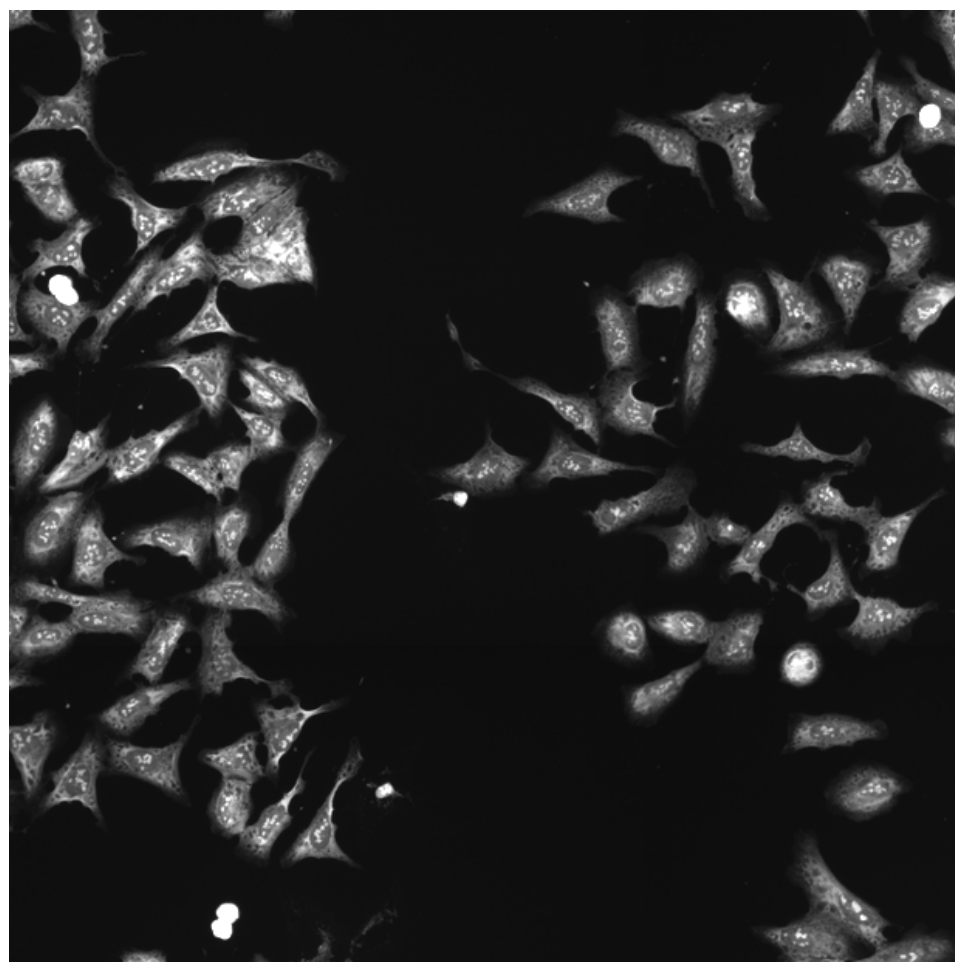
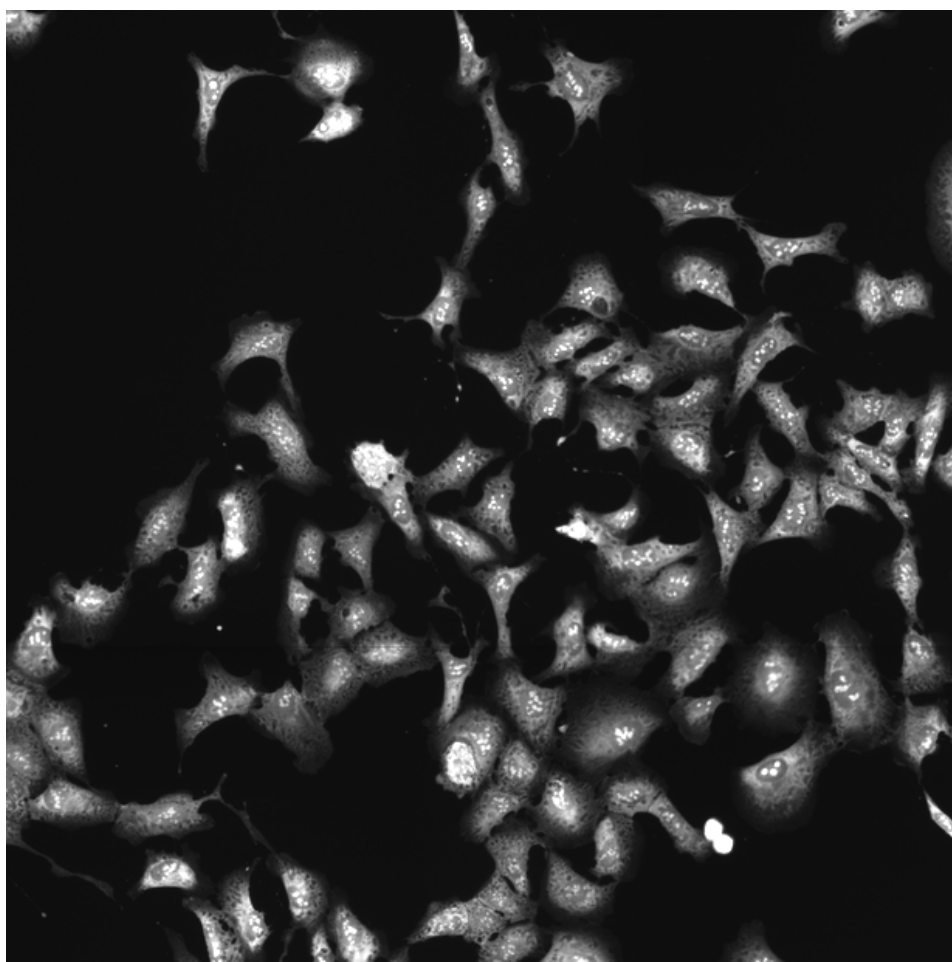
SGK3.WT.2 (41755)

SGK3.WT.2 (41756)

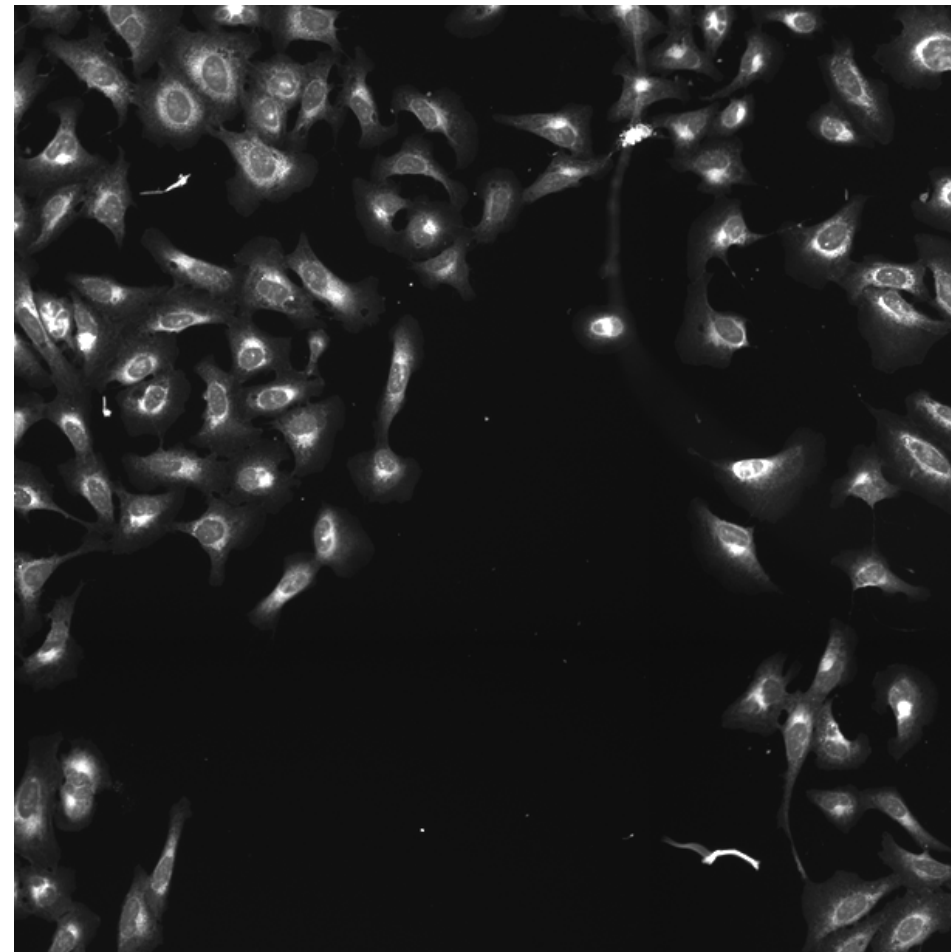
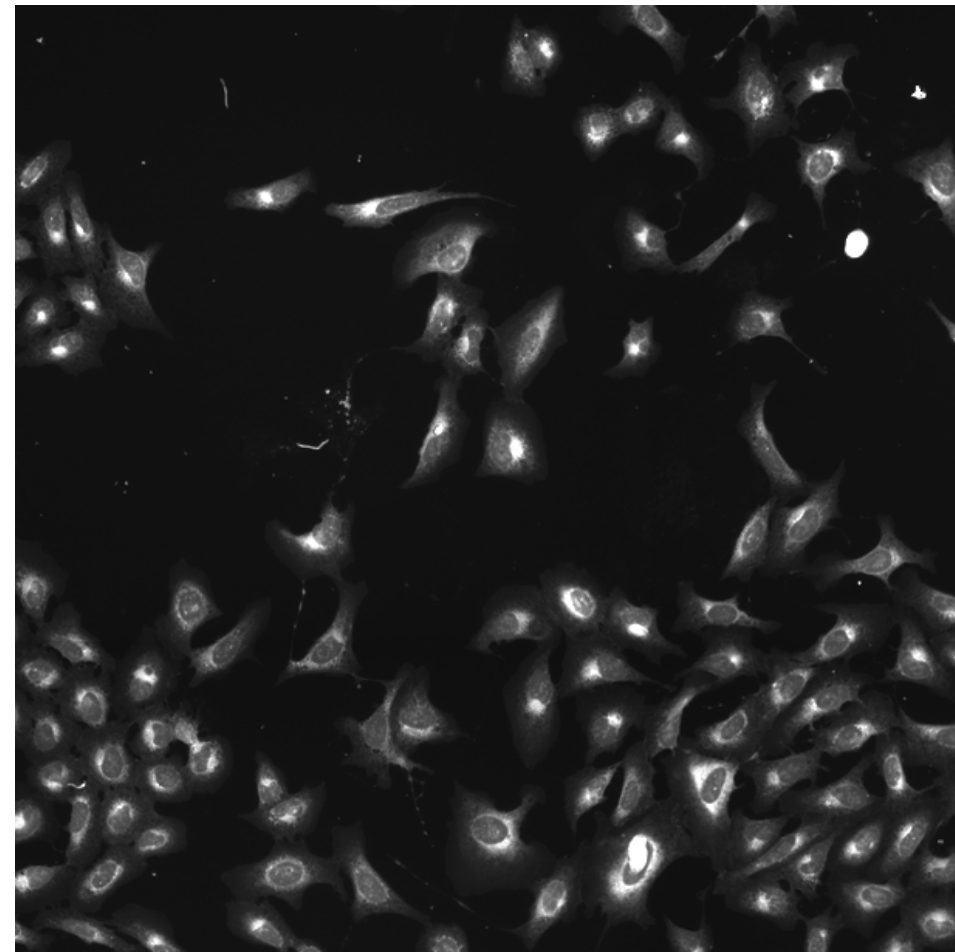
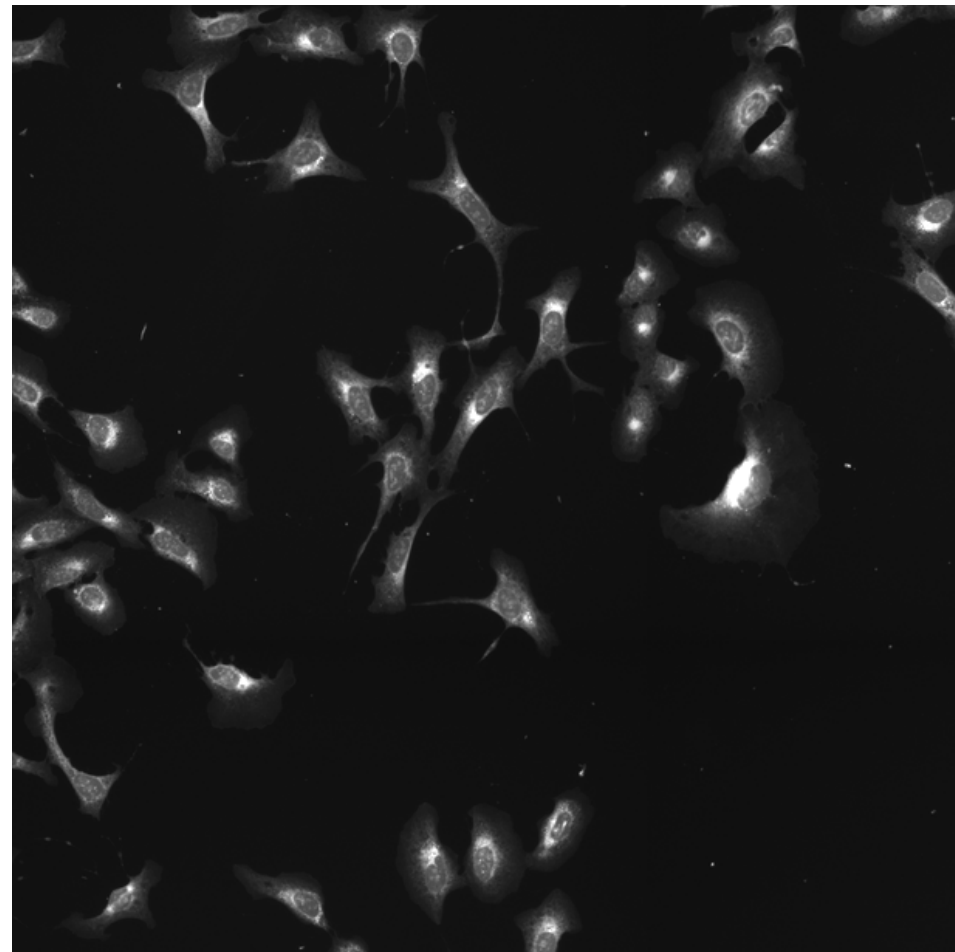
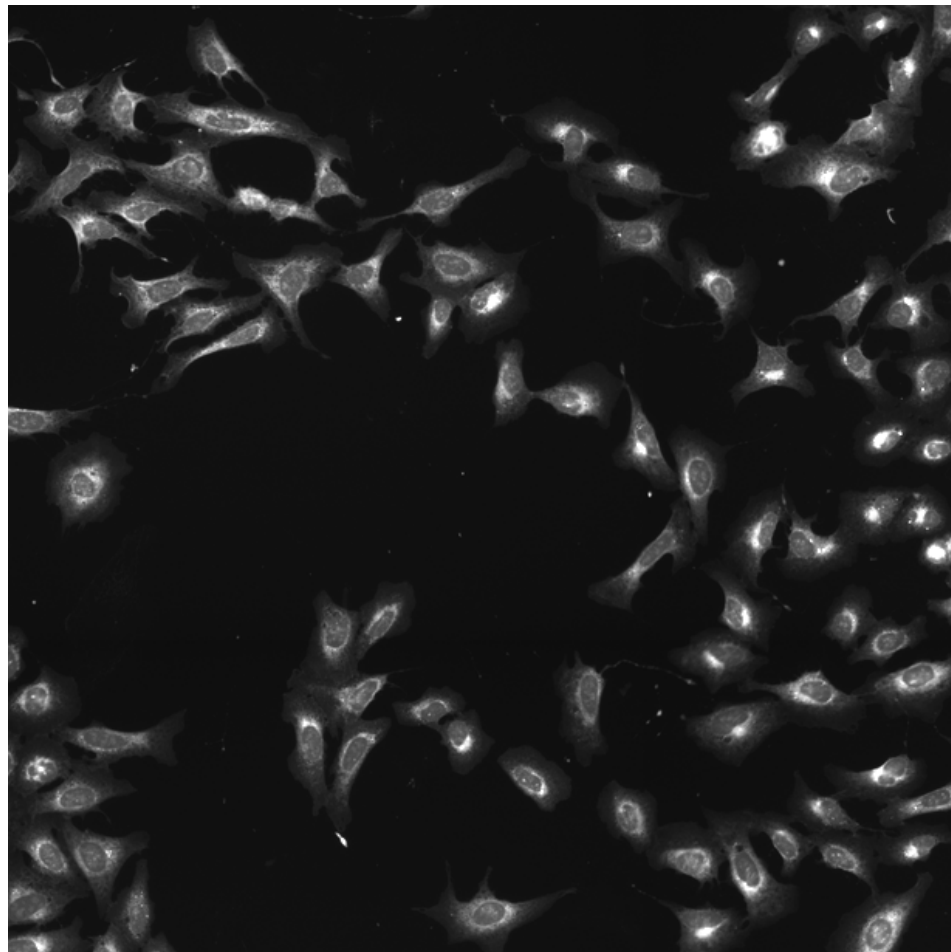
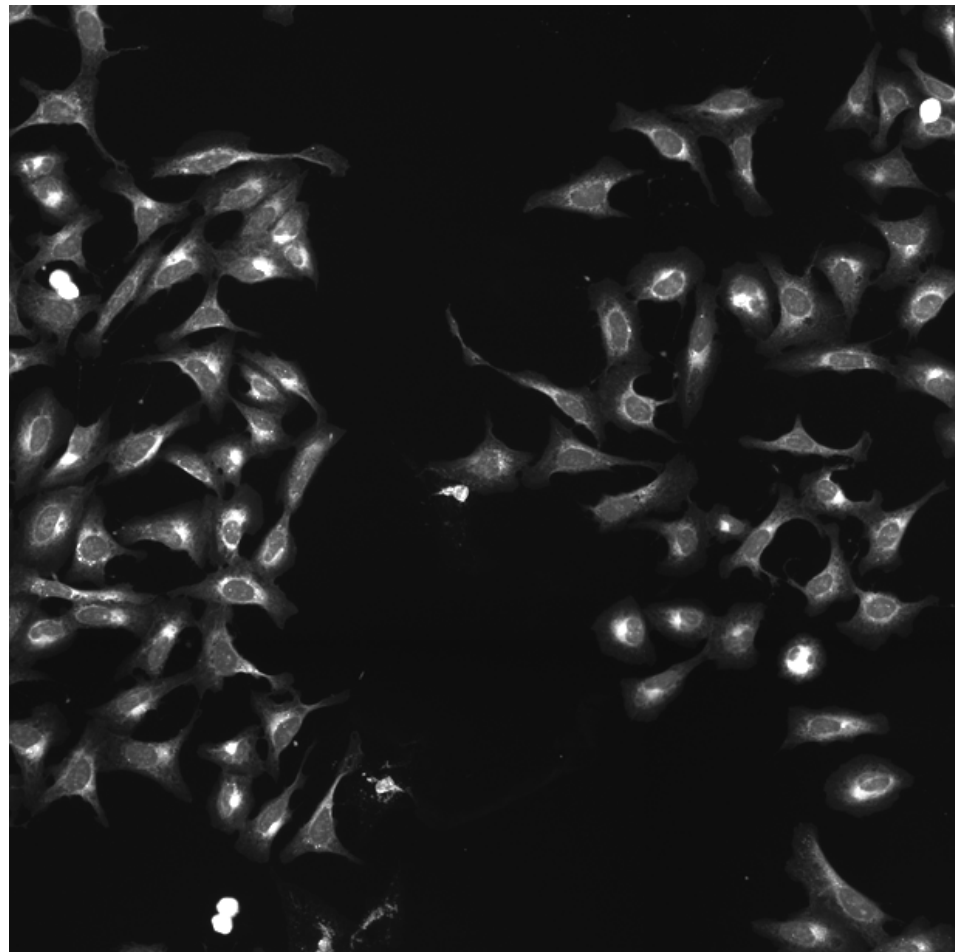
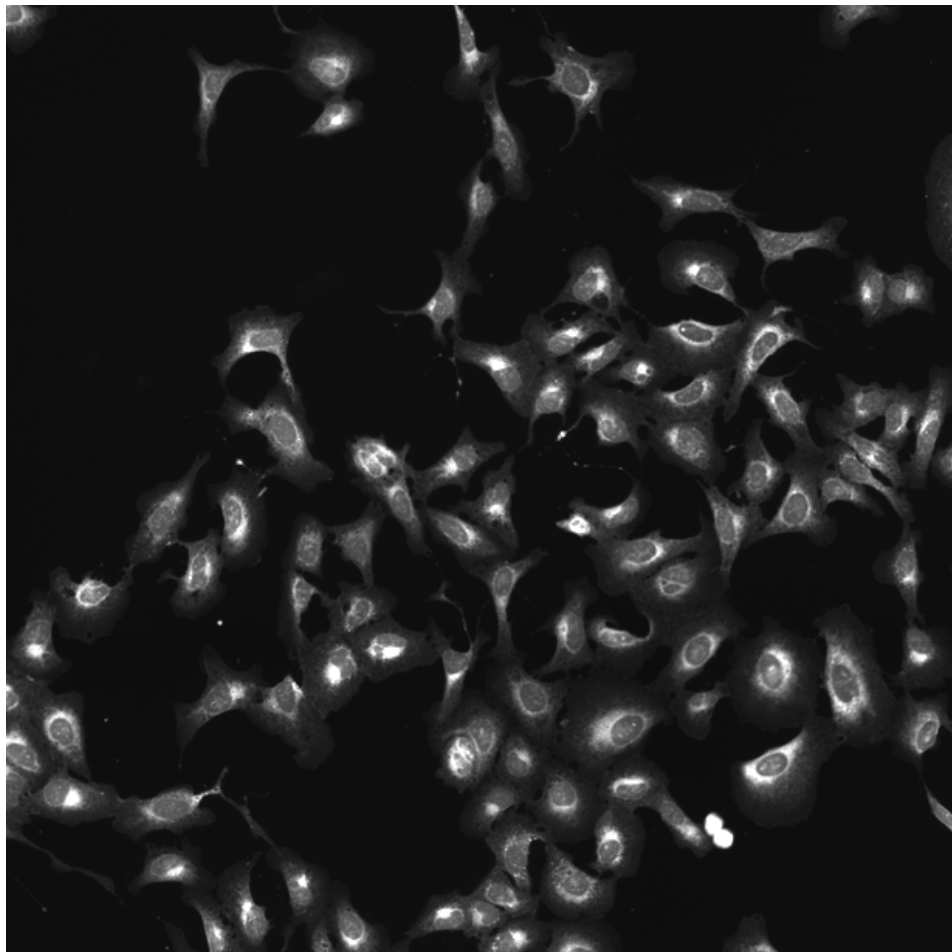
SGK3.WT.2 (41757)

SGK3.WT.2 (41754)

RNA

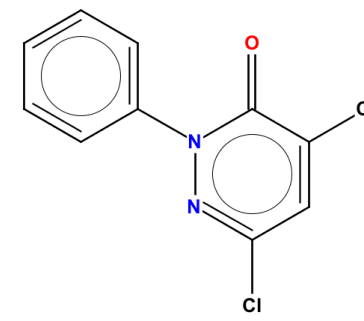


ER



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
--	--------------------	--	---------------------------------------	--	---	---	---	---

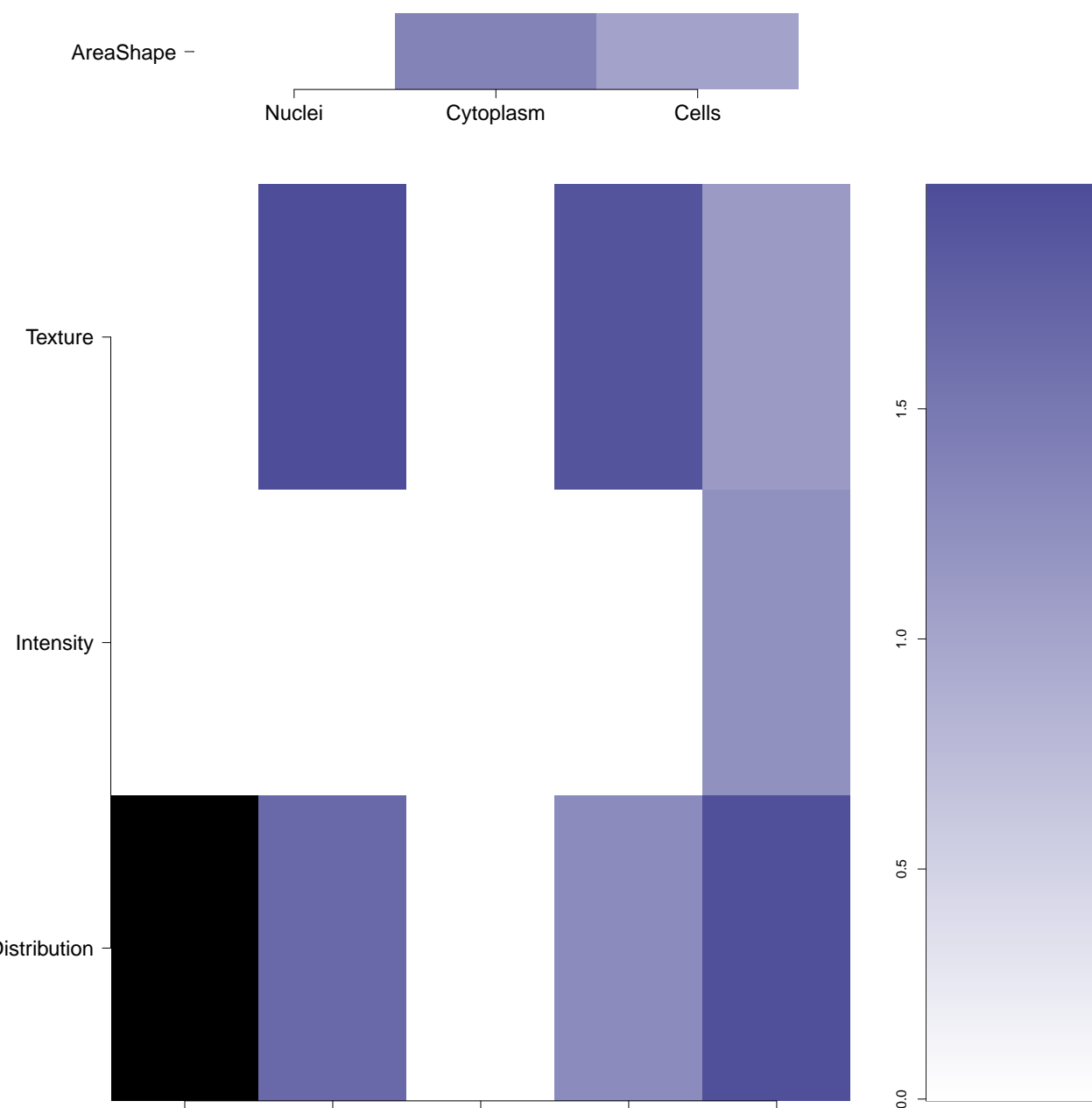
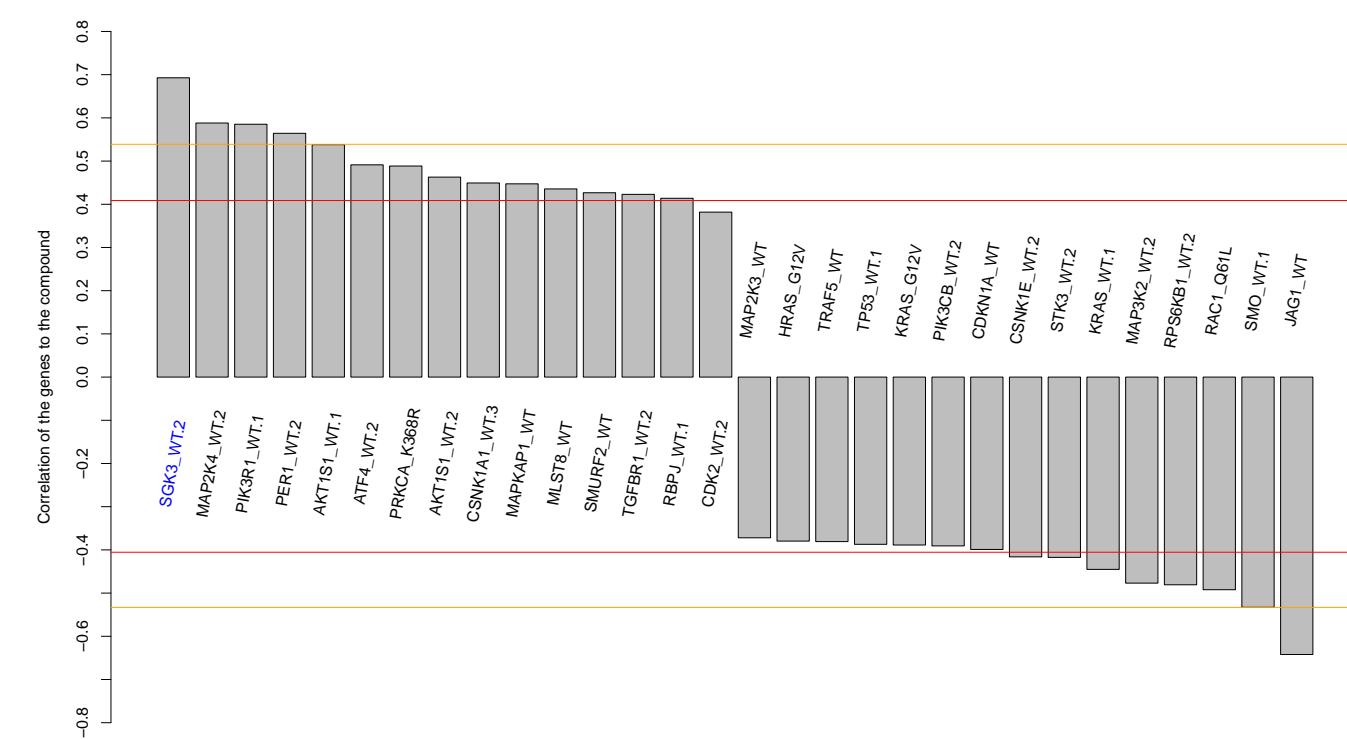
BRD-K61415887-001-06-6
MLS000702412
SMR000224826
ZINC00271948
ACILBONR
BDBM72363
HMS2527J06
ZINC271948
HE199368
LS-192575
PubChem CID : 561606



NA (in 1 replicates)

0.69

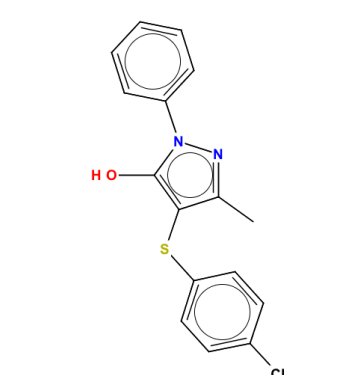
NA



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

- High Throughput Screen to Identify Compounds that Suppress the Growth of Human Colon Tumor Cells Lacking Oncogenic Beta Catenin Expression (AID 818)
- High Throughput Screen to Identify Compounds that Suppress the Growth of Cells with the Defect of the PTEN Tumor Suppressor (AID 827)
- qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030)
- Leishmania major promastigote Growth Inhibition Assay (AID 1063)
- HCS to Identify Inhibitors of Dynein Mediated Cargo Transport on Microtubules. (AID 1381)
- qHTS Multiplex Assay to Identify Dual Action Proteins in a Cell Model of Huntington: Aggregate Formation (GFP) (AID 1688)
- qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)
- Luminescence Cell-Based Dose Retest to Identify Potentators of Heat Shock Factor 1 (HSF1). (AID 435004)
- HCS to Identify Inhibitors of Dynein Mediated Cargo Transport on Microtubules: Confirmation Assay (AID 46316)
- Concentration-Response Confirmation Assays for HCS to Identify Inhibitors of Dynein Mediated Cargo Transport on Microtubules (AID 461336)
- HTS-Luminescent assay for inhibitors of ALR by detection of hydrogen peroxide production Measured in Biochemical System Using Plate Reader. Cell-Based SinglePoint HTS Assay (AID 485317)
- qHTS screen for small molecules that inhibit ELG1-dependent DNA repair in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504167)
- Confirmation screen for delayed death inhibitors of the malarial parasite plasmod, 96 hour incubation (AID 504818)
- Confirmation screen for delayed death inhibitors of the malarial parasite plasmod, 48 hour incubation (AID 504850)
- qHTS for inhibitors of binding or entry into cells for Marburg Viruses (AID 540276)
- qHTS Assay for Inhibitors of Mammalian Peroxisome Thioloxidin Reductase 1 (TrxR1). HTS (AID 584835)
- qHTS for Inhibitors of TGF- β : Cytotox Cytoscreen (AID 588586)
- A Quantitative high throughput screen for small molecules that induce DNA re-replication in MCF-7 human breast cells (AID 612296)
- qHTS for Inhibitors of ATXN expression (AID 651635)
- Luminescence Cell-Based Primary HTS to identify inhibitors of the oncogenetp EWS/Fl transcriptional activity Measured in Cell-Based System Using Plate Reader - 701-014.Inhibitor.SinglePoint HTS Activity (AID 651661)
- qHTS of TDP-43 Inhibitors (AID 652104)
- qHTS for PAX8 inhibitors using PAX8 luciferase reporter gene assay in RMG-1 cells Measured in Cell-Based System Using Plate Reader - 7054-014.Inhibitor.SinglePoint HTS Activity (AID 652154)
- Luminescence Cell-Based Primary HTS to identify inhibitors of the oncoprotein EWS/Fl transcriptional activity Measured in Cell-Based System Using Plate Reader - 701-014.Inhibitor.Dose.ChipperryPick Activity (AID 686920)
- 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)
- Luminescence cell-based Retest at Dose assay to determine EWS/Fl dependent TC7A mammalian cell cytotoxicity Measured in Cell-Based System Using Plate Reader - 701-014.Inhibitor.Dose.ChipperryPick Activity (AID 726707)
- Luminescence cell-based Retest at Dose assay to determine EWS/Fl dependent A673 mammalian cell cytotoxicity Measured in Cell-Based System Using Plate Reader - 701-043.Inhibitor.Dose.ChipperryPick Activity (AID 726767)
- HEK293 Cytotoxicity Assay Measured in Cell-Based System Using Plate Reader - 7071-019.Inhibitor.Dose.ChipperryPick Assay Set3 (AID 726858)
- qHTS for Inhibitors of Inflammation Signaling: IL-1beta Alpha/ISA Primary Screen (AID 743279)
- High Throughput Screening for Foot and Mouth Disease Virus Antisera (AID 1159524)

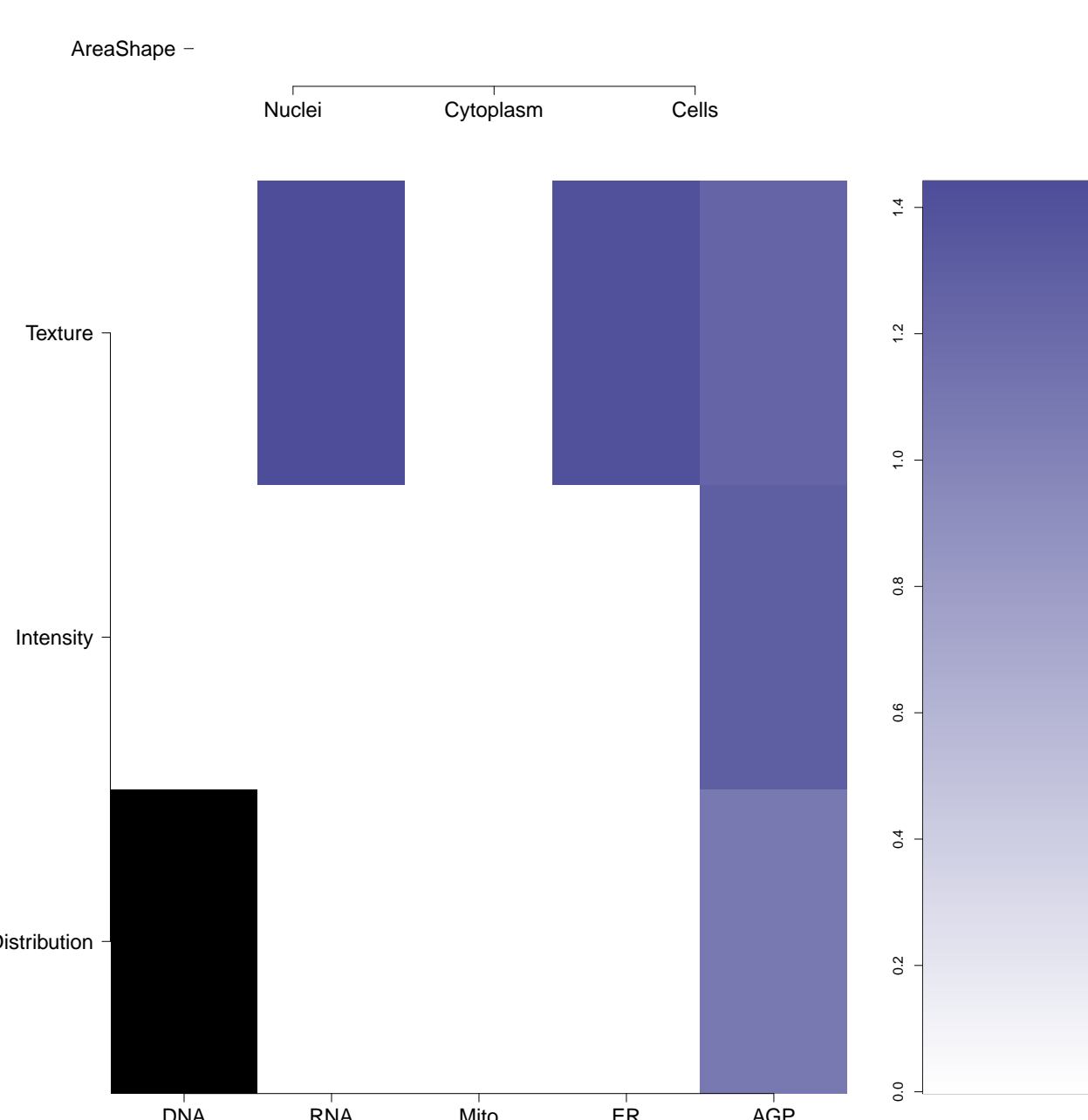
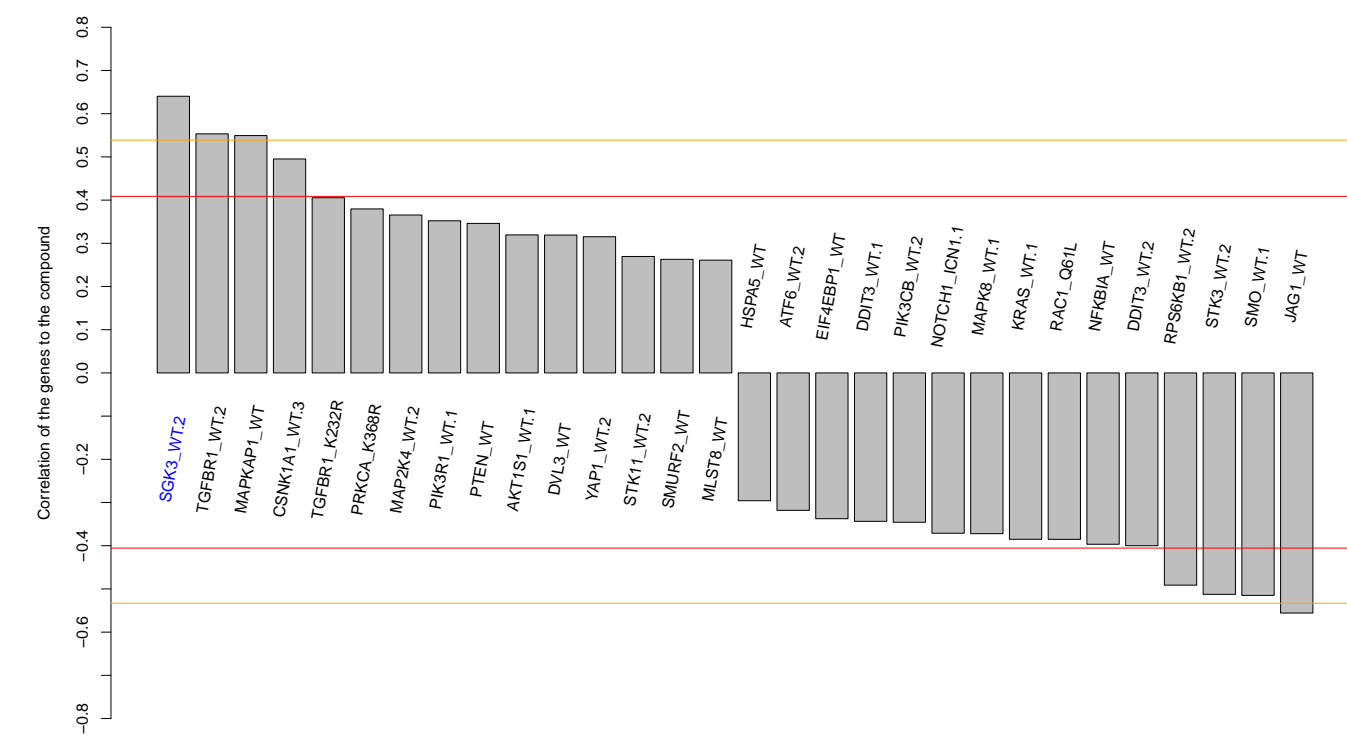
BRD-K05950645-001-07-2
MLS000536739
SMR000155669
ACILGWR5
BDBM48497
HMS1485K04
HMS2379O21
IDI1_022358
F1386-0259
T0500-8534
PubChem CID : 828338



NA (in 1 replicates)

0.64

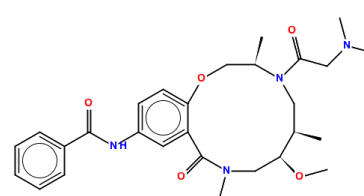
NA



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

- HTS for Estrogen Receptor-beta Coactivator Binding Inhibitors (AID 633)
- Screening for Modulators of Post-Golgi Transport, Control Strain (AID 738)
- CYP2C9 Assay (AID 777)
- CYP2C19 Assay (AID 778)
- Inhibitors of Phasmodium falciparum M17-Family Leucine Aminopeptidase (M17PLA) (AID 1619)
- Fluorescence Cell-Free Homogeneous Primary HTS to Identify Inhibitors of RecA Protein Splicing Activity (AID 2221)
- Fluorescence Cell-Free Homogeneous Counter Screen to Identify Inhibitors of GFP Chromophore Formation (AID 43968)
- Fluorescence Cell-Free Homogeneous Dose Retest to Identify Inhibitors of RecA-Protein Splicing Activity (AID 435010)
- Fluorescence Cell-Free Homogeneous Secondary Screen to Identify Inhibitors of DnaB-Protein Splicing Activity (AID 449749)
- Fluorescence Cell-Free Homogeneous Secondary Screen to Identify Non-Covalent Inhibitors of RecA-Protein Splicing Activity (AID 449750)

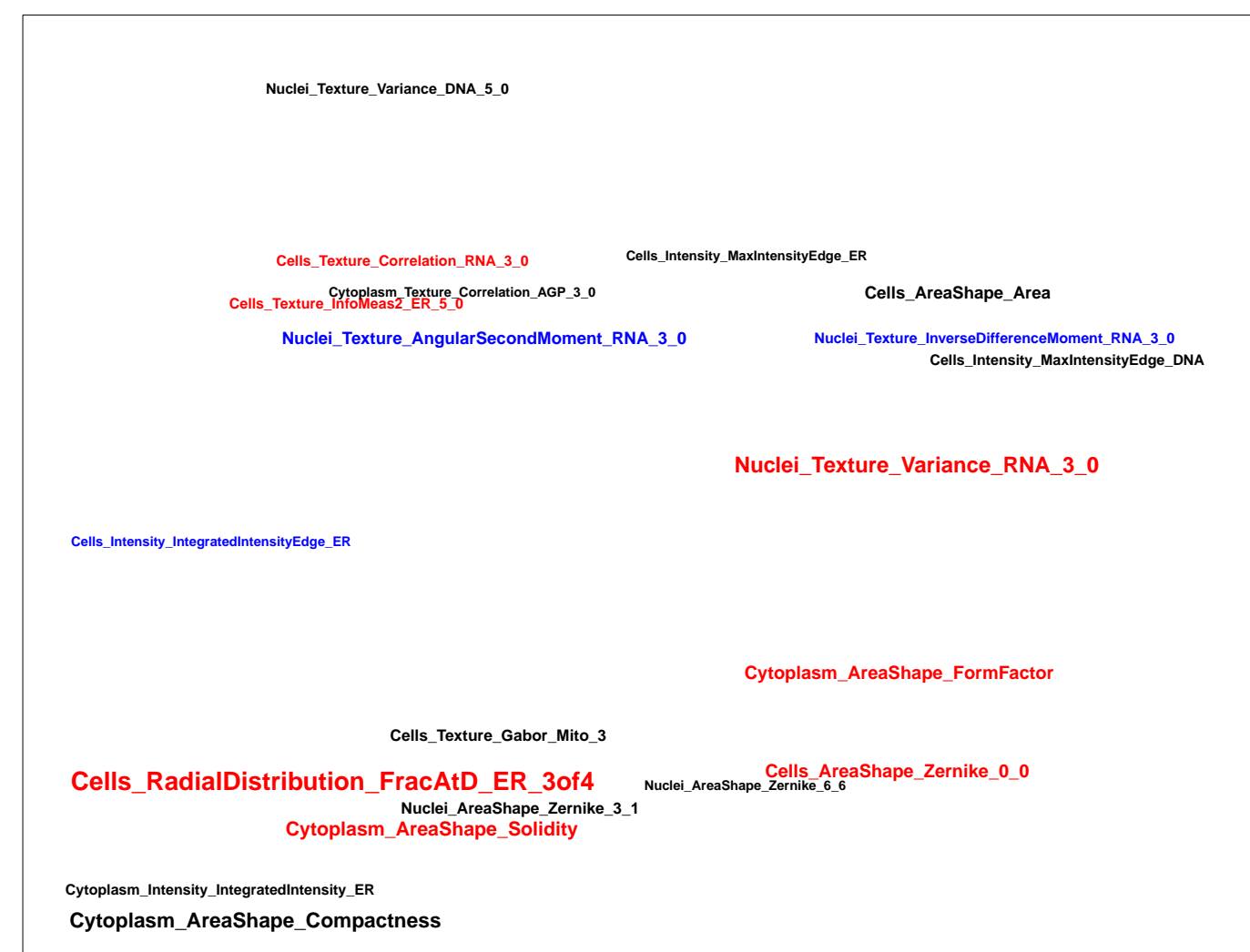
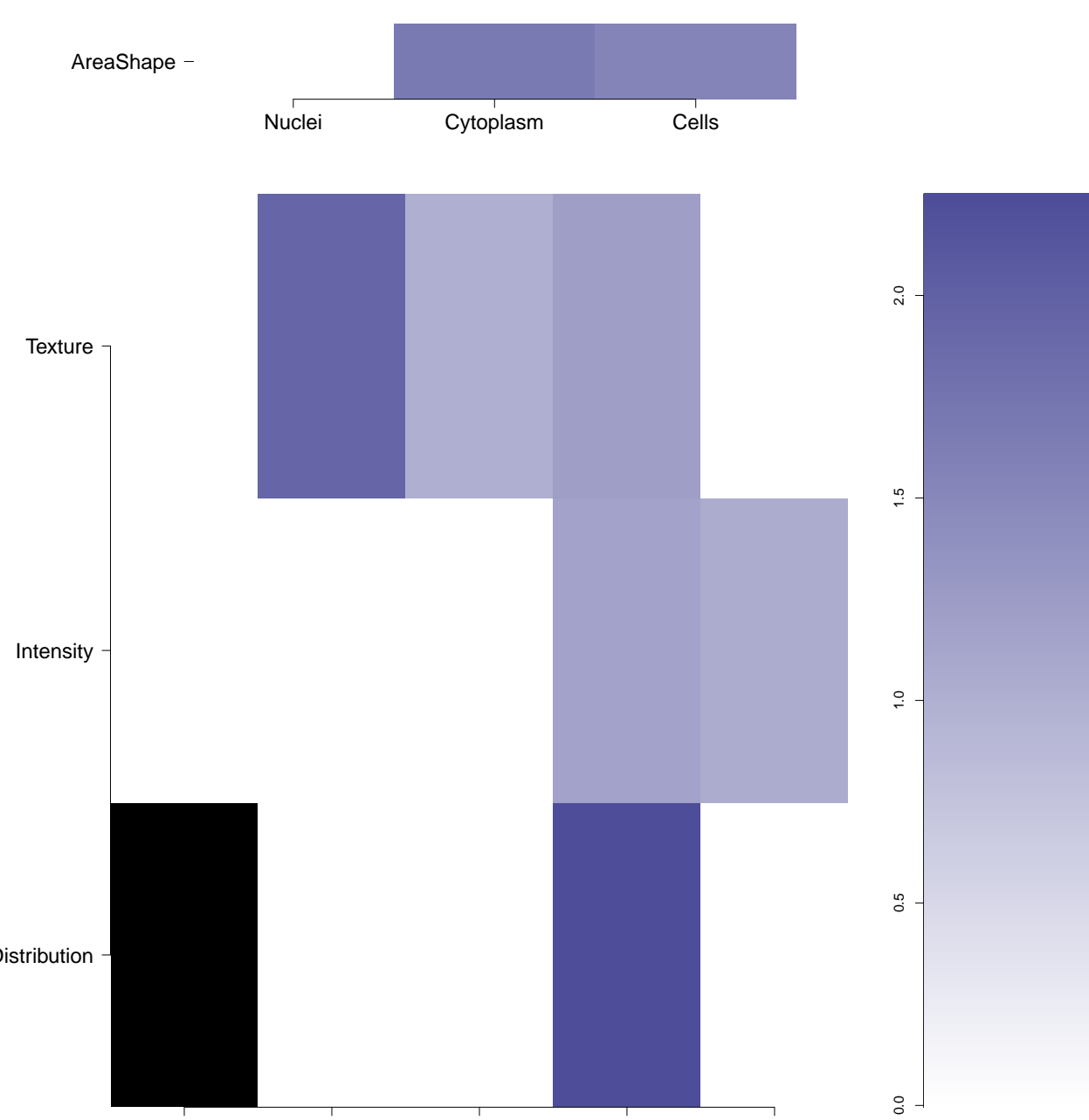
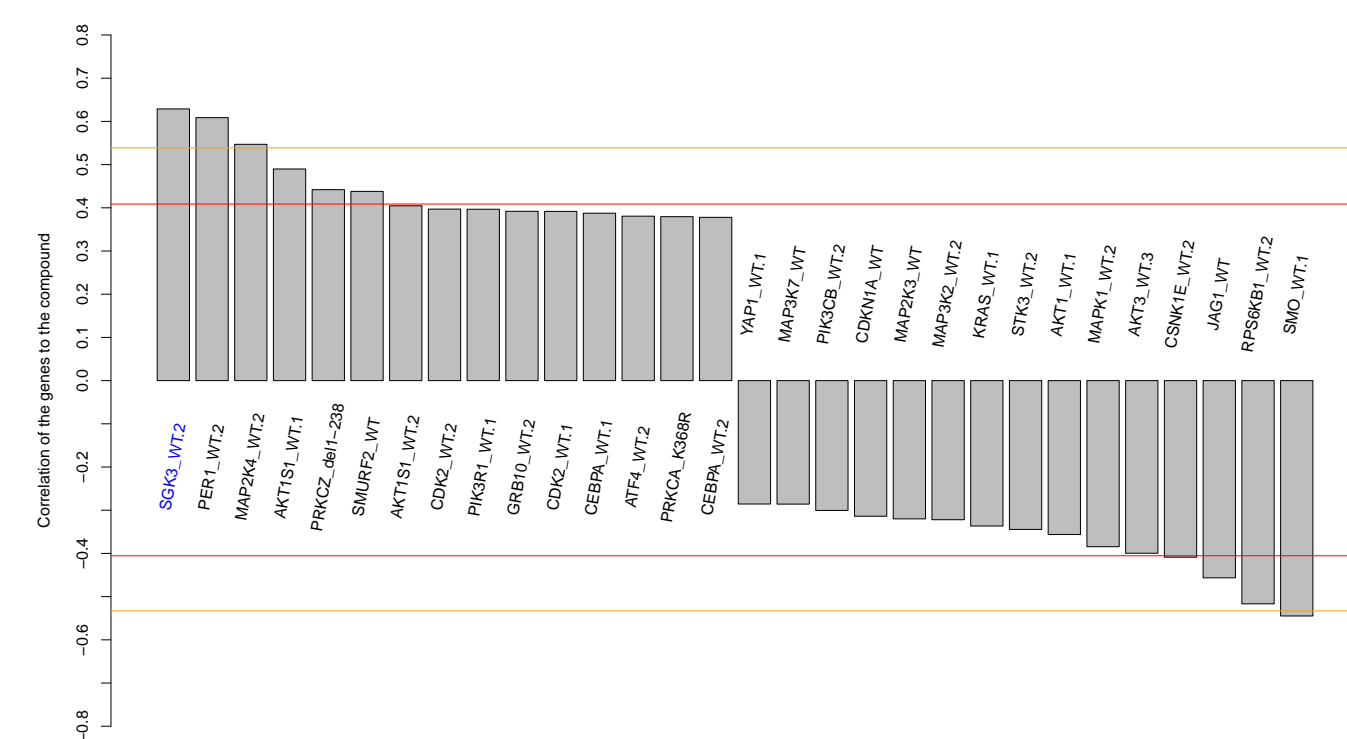
BRD-K90460185-001-01-7
PubChem CID : 54634100



0.74 (in 3 replicates)

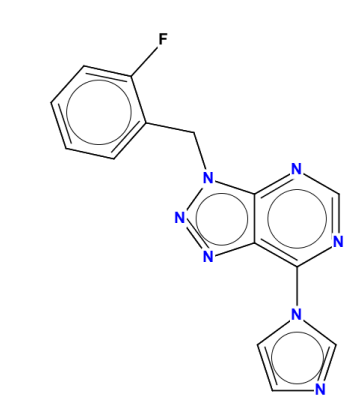
0.63

0.562



Total number of assays tested in: 36.

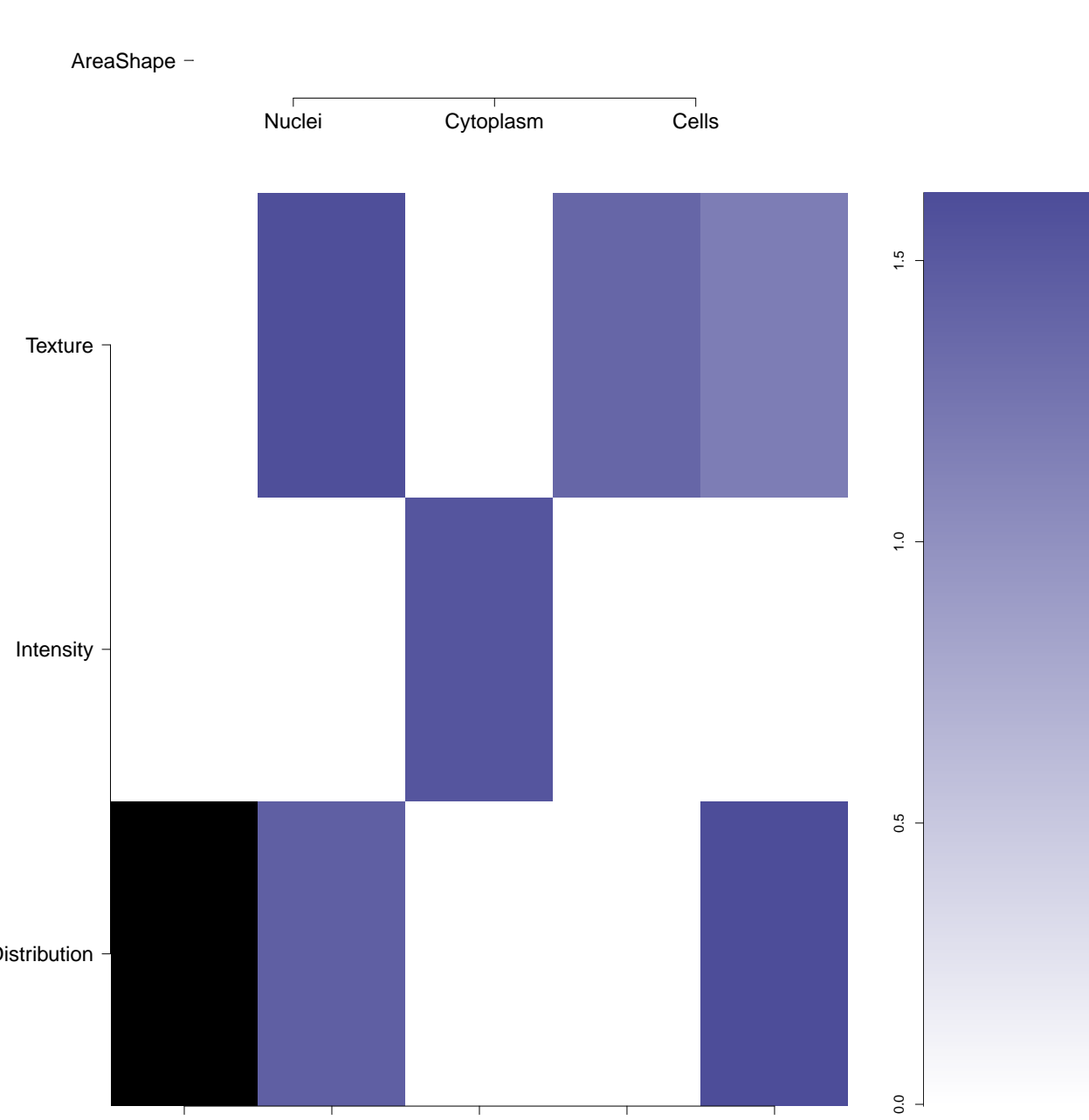
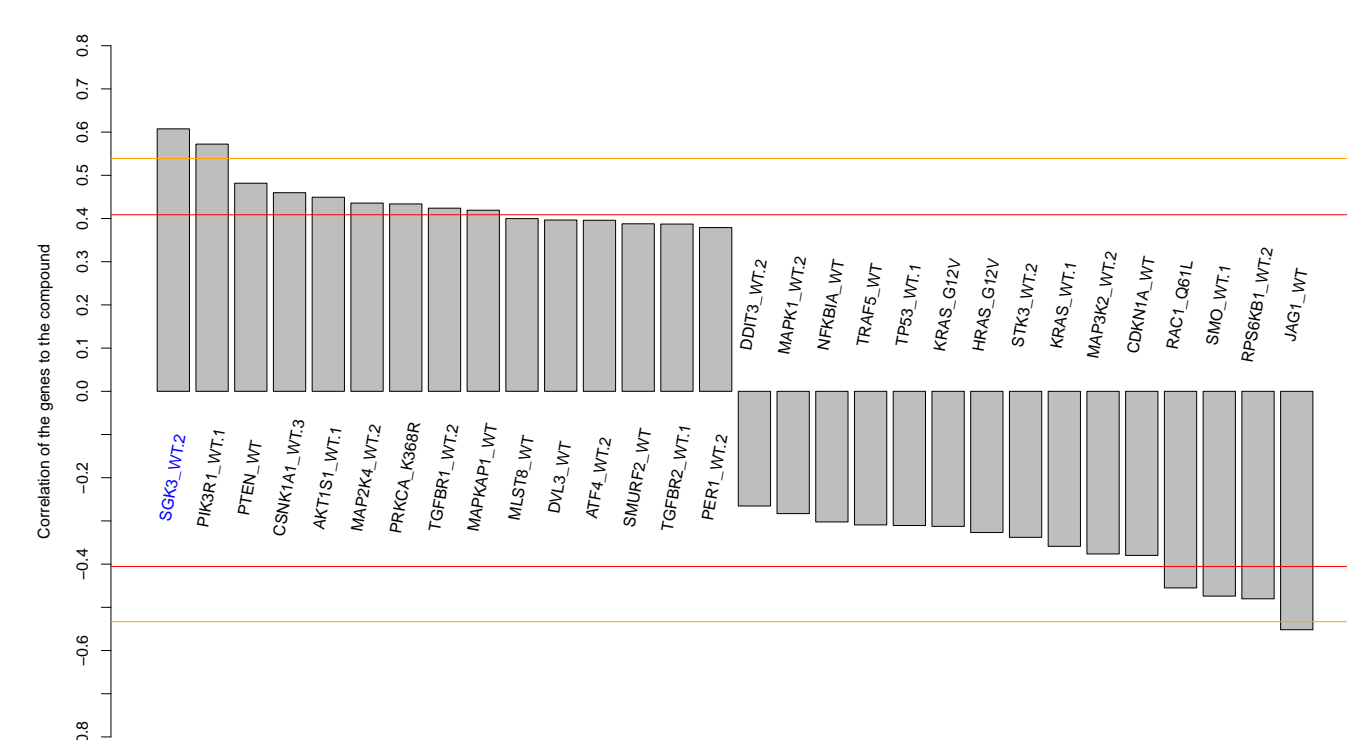
BRD-K34029905-001-05-9
SMR000000619
MLS000075639
AC1L DAT0
BDBM37870
HMS2312J13
ZINC1349156
ZINC01349156
ASN 09122461
PubChem CID : 645145



NA (in 1 replicates)

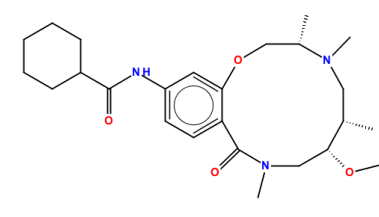
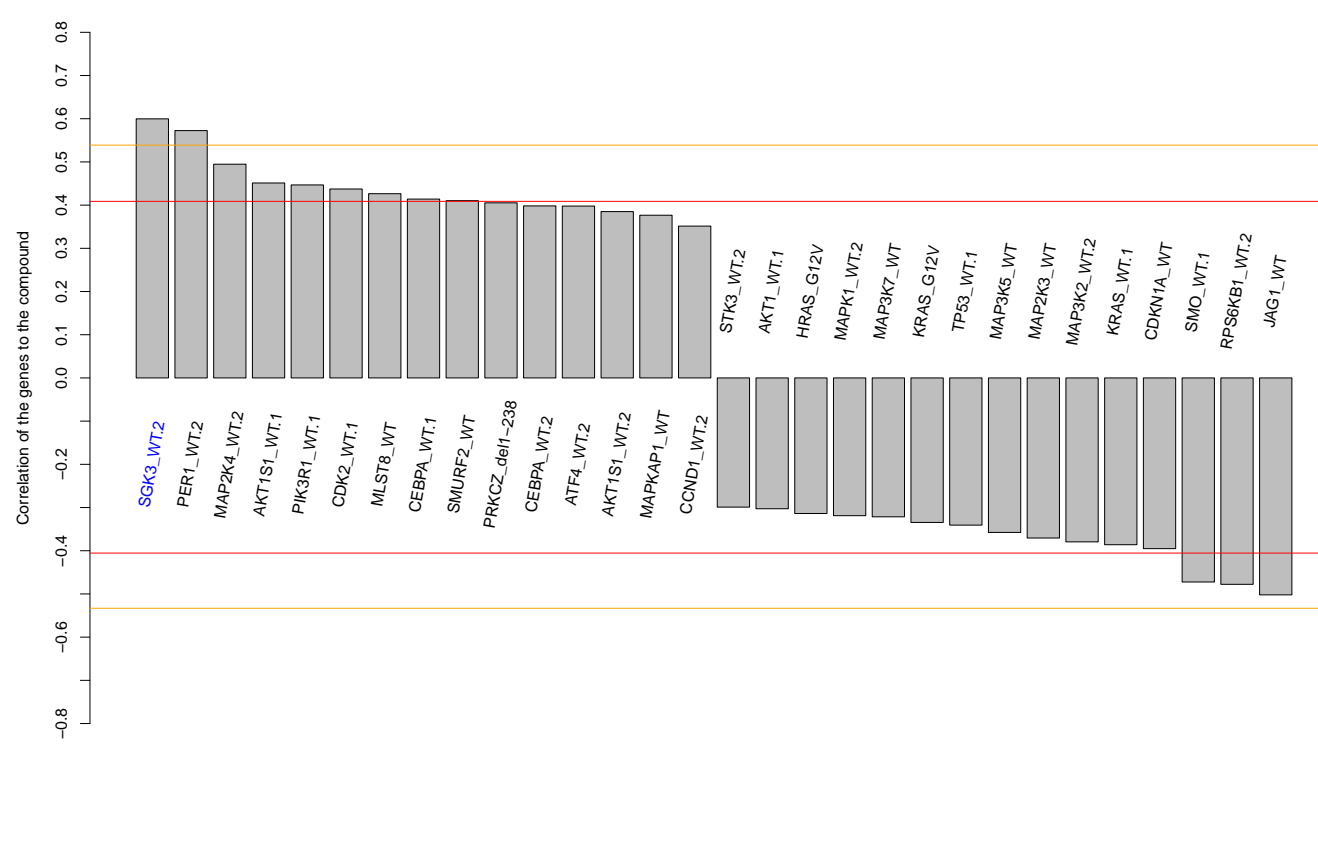
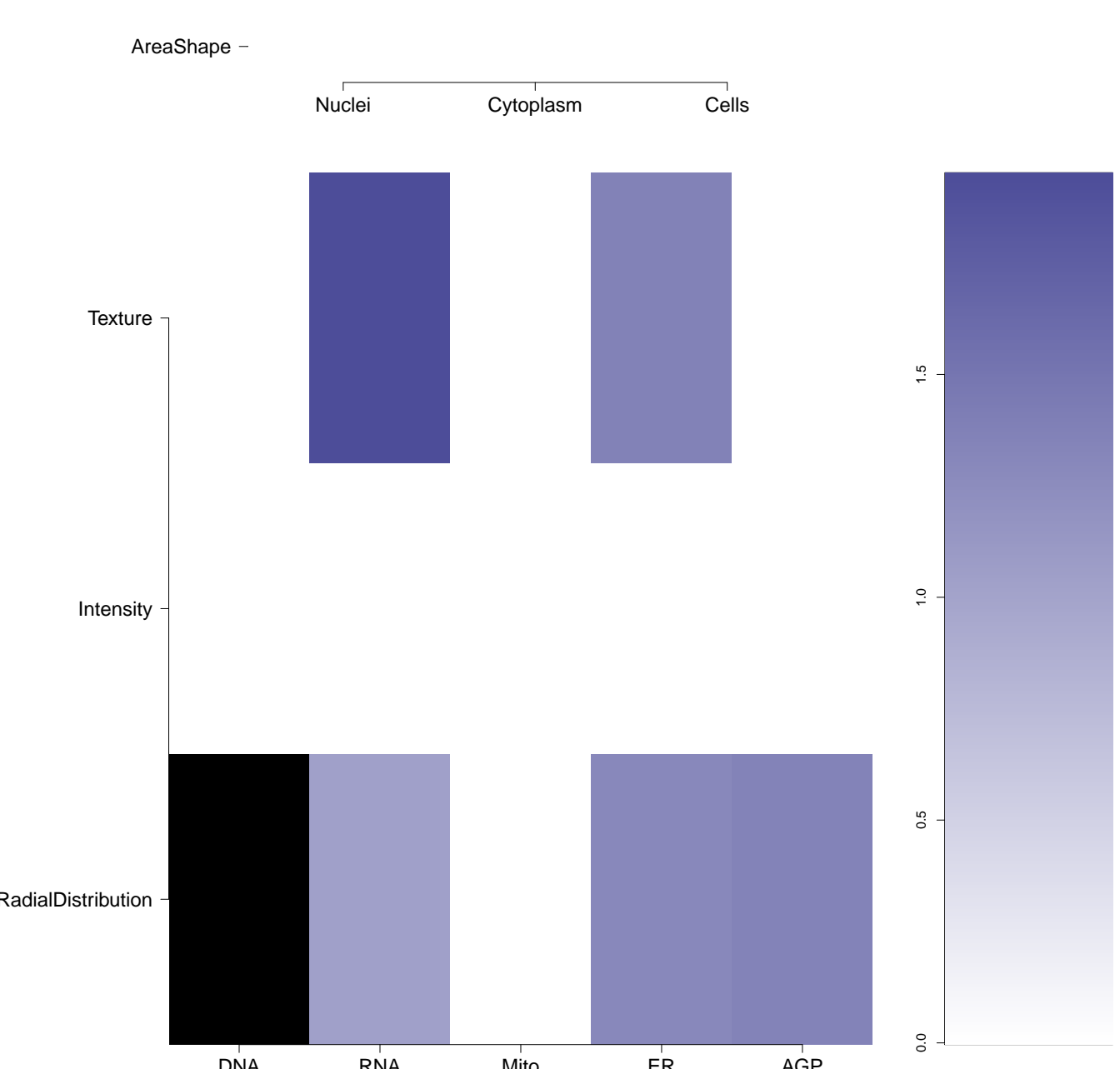

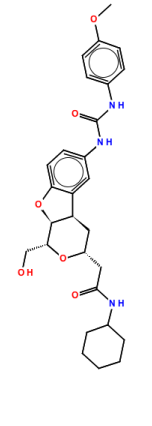
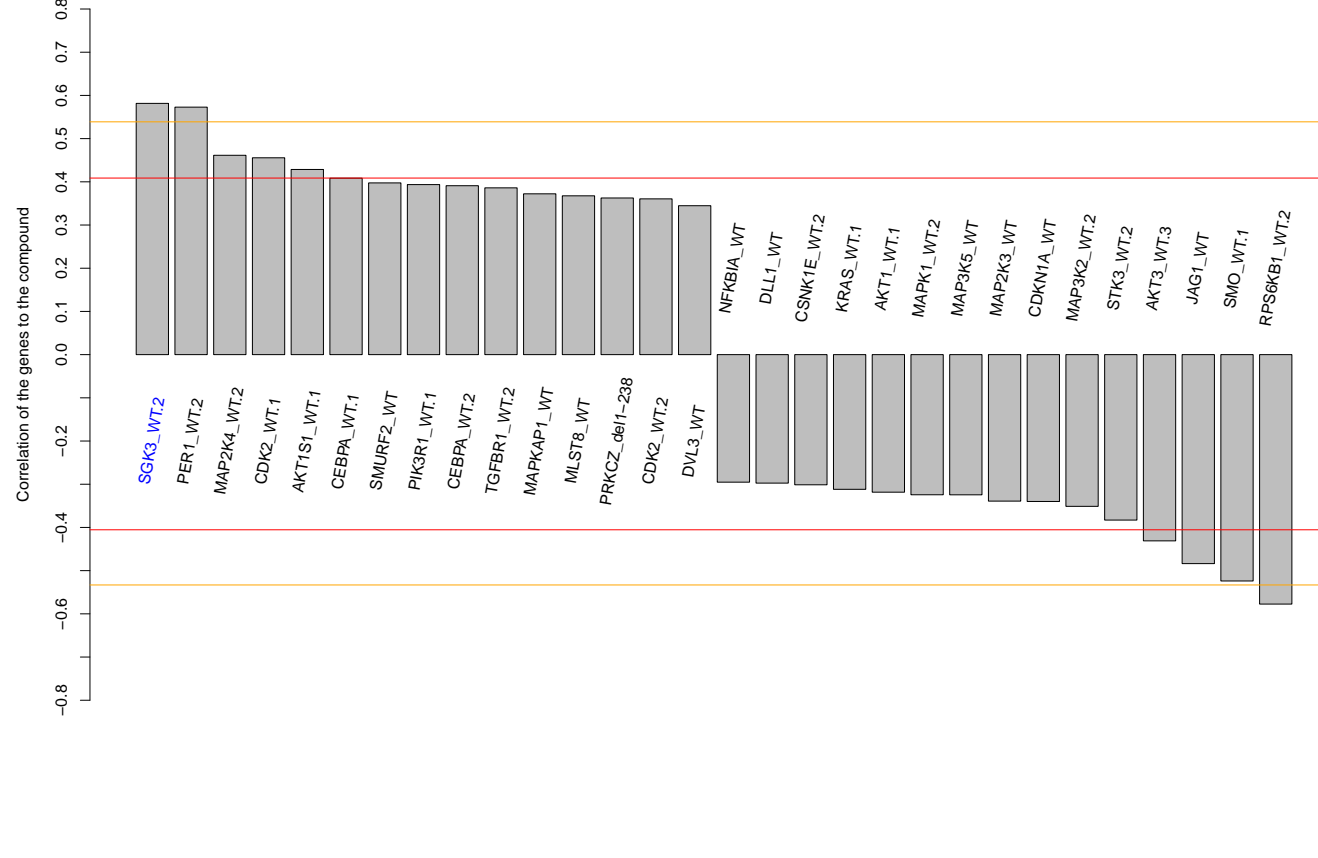
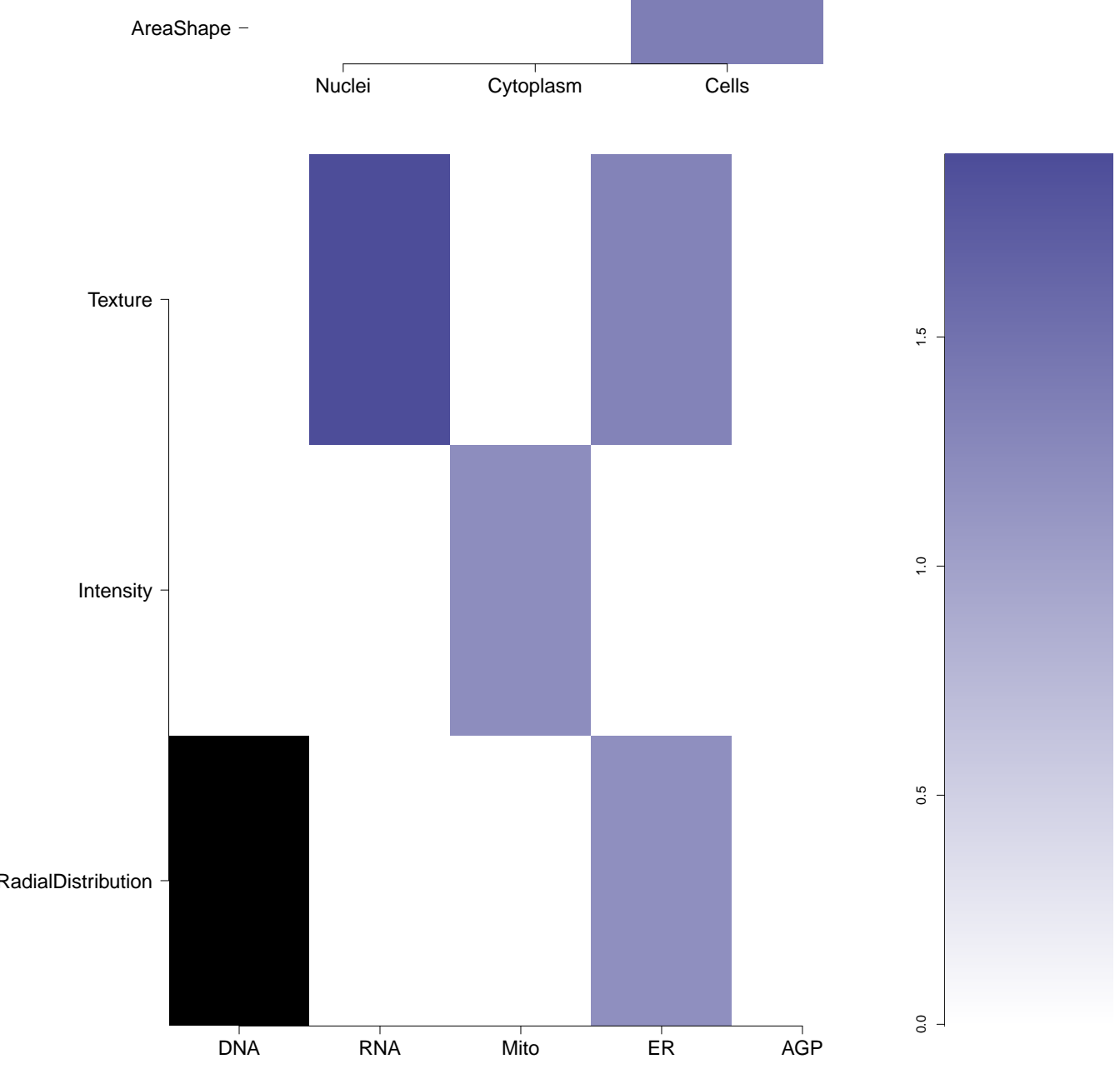
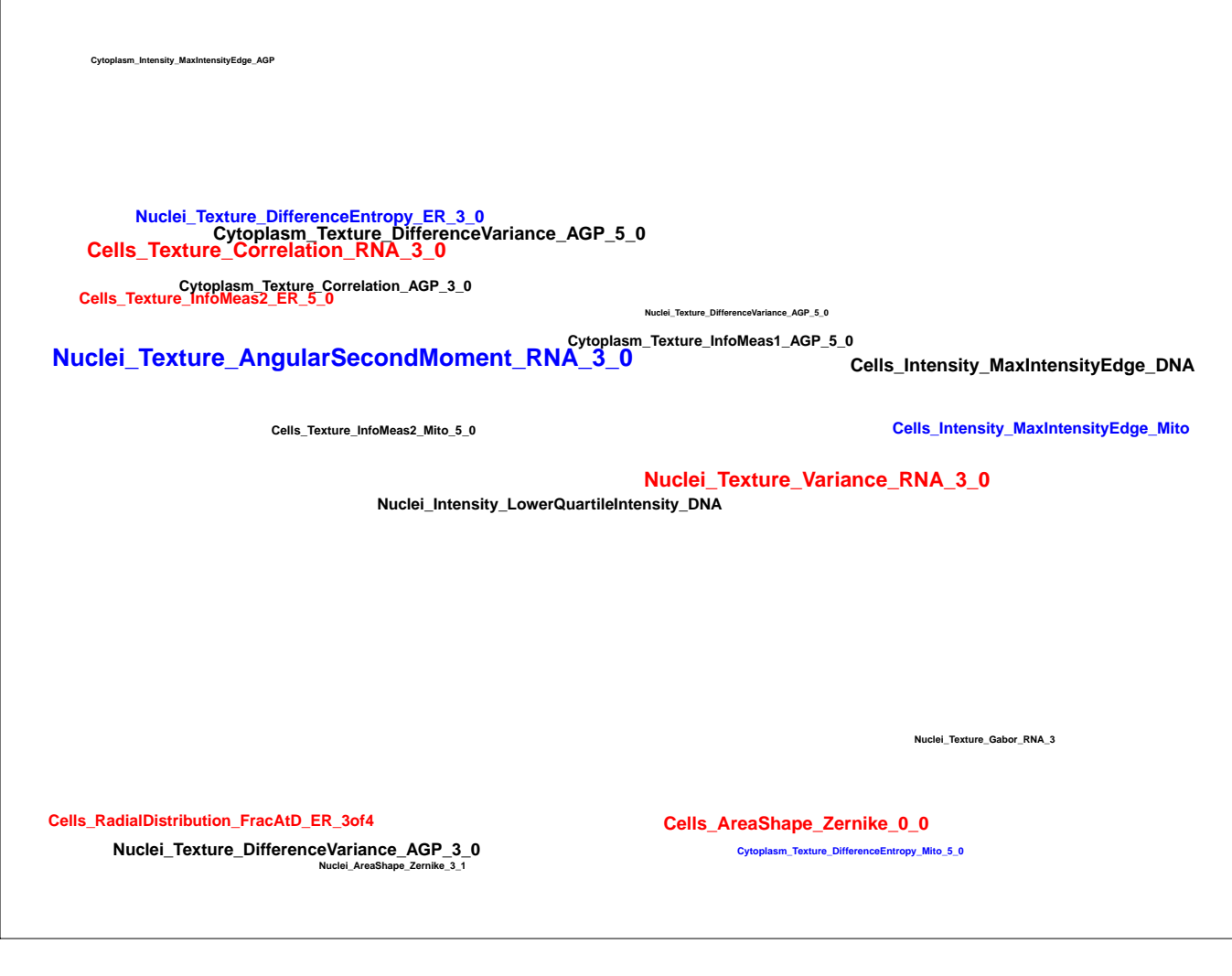
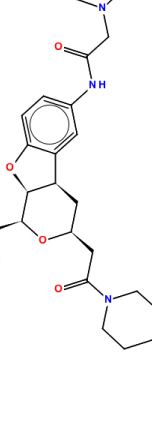
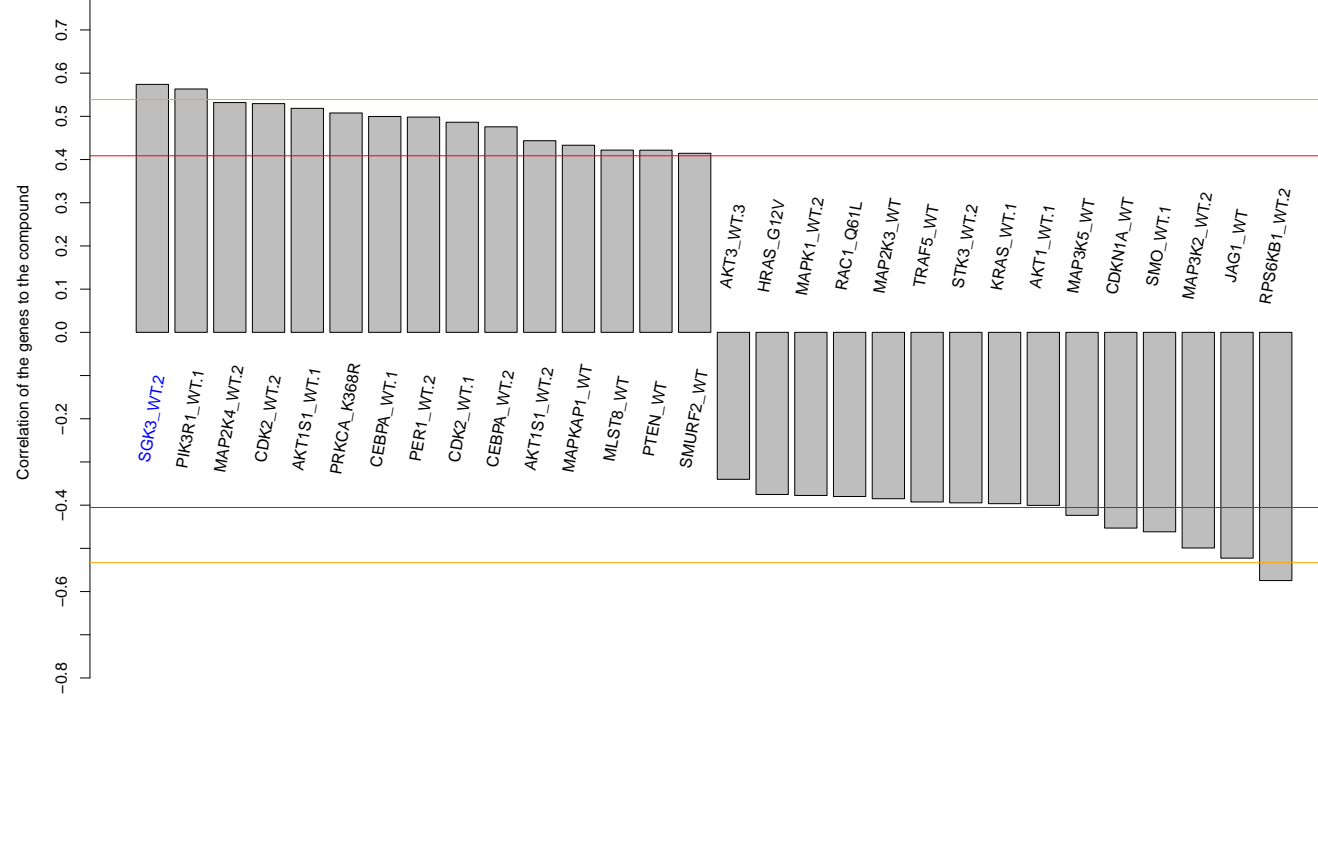
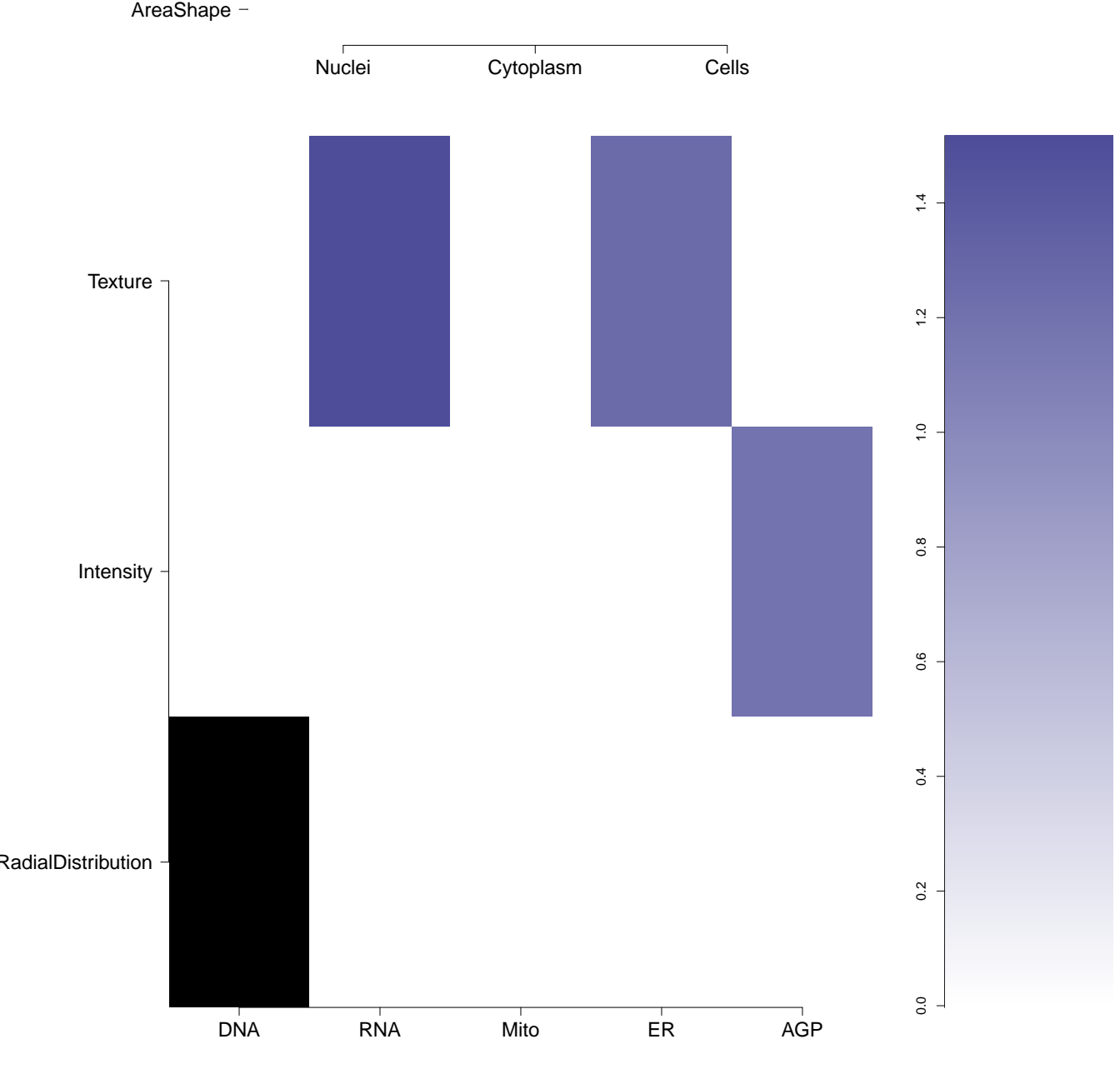

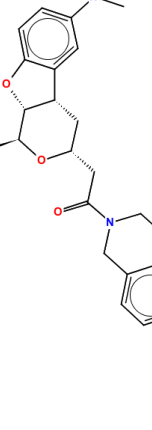
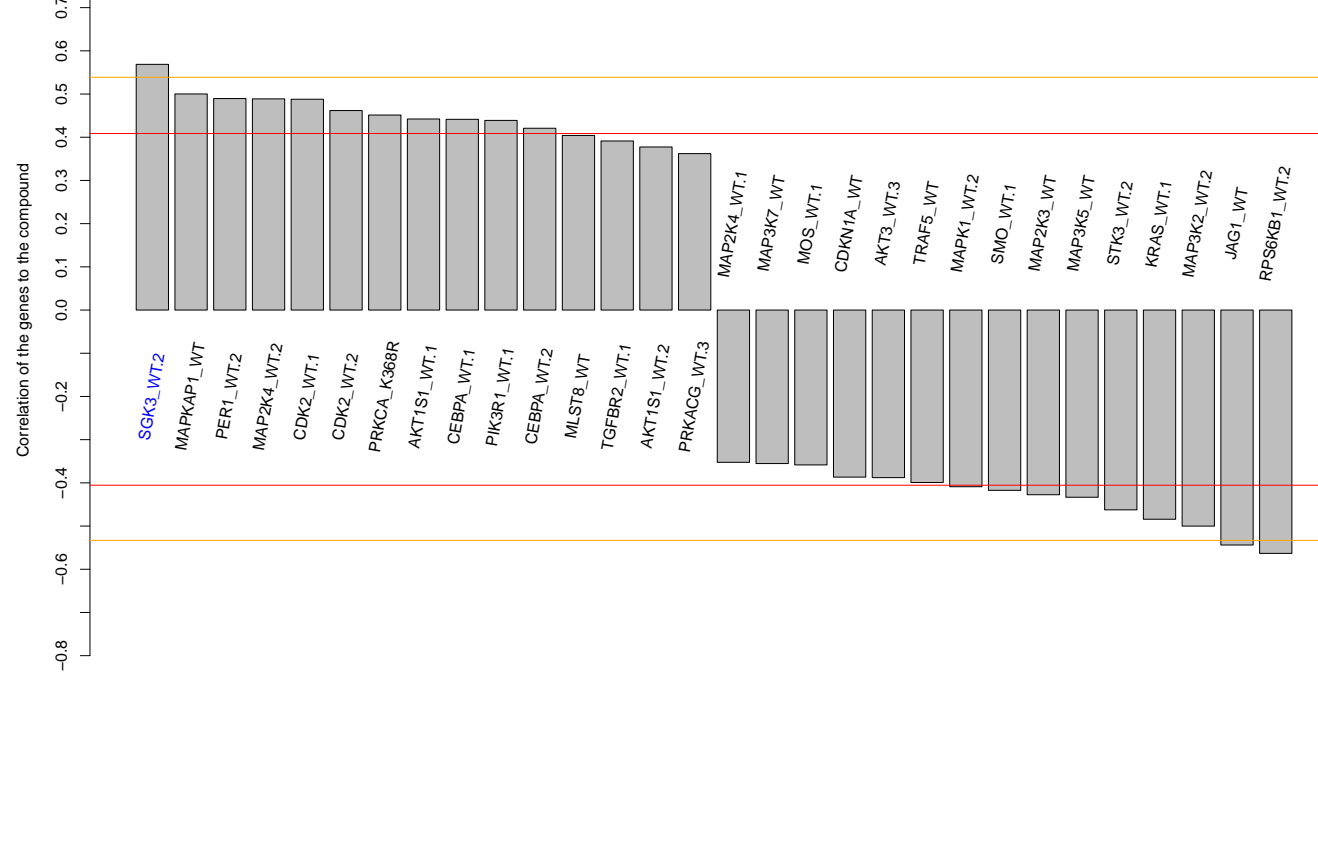
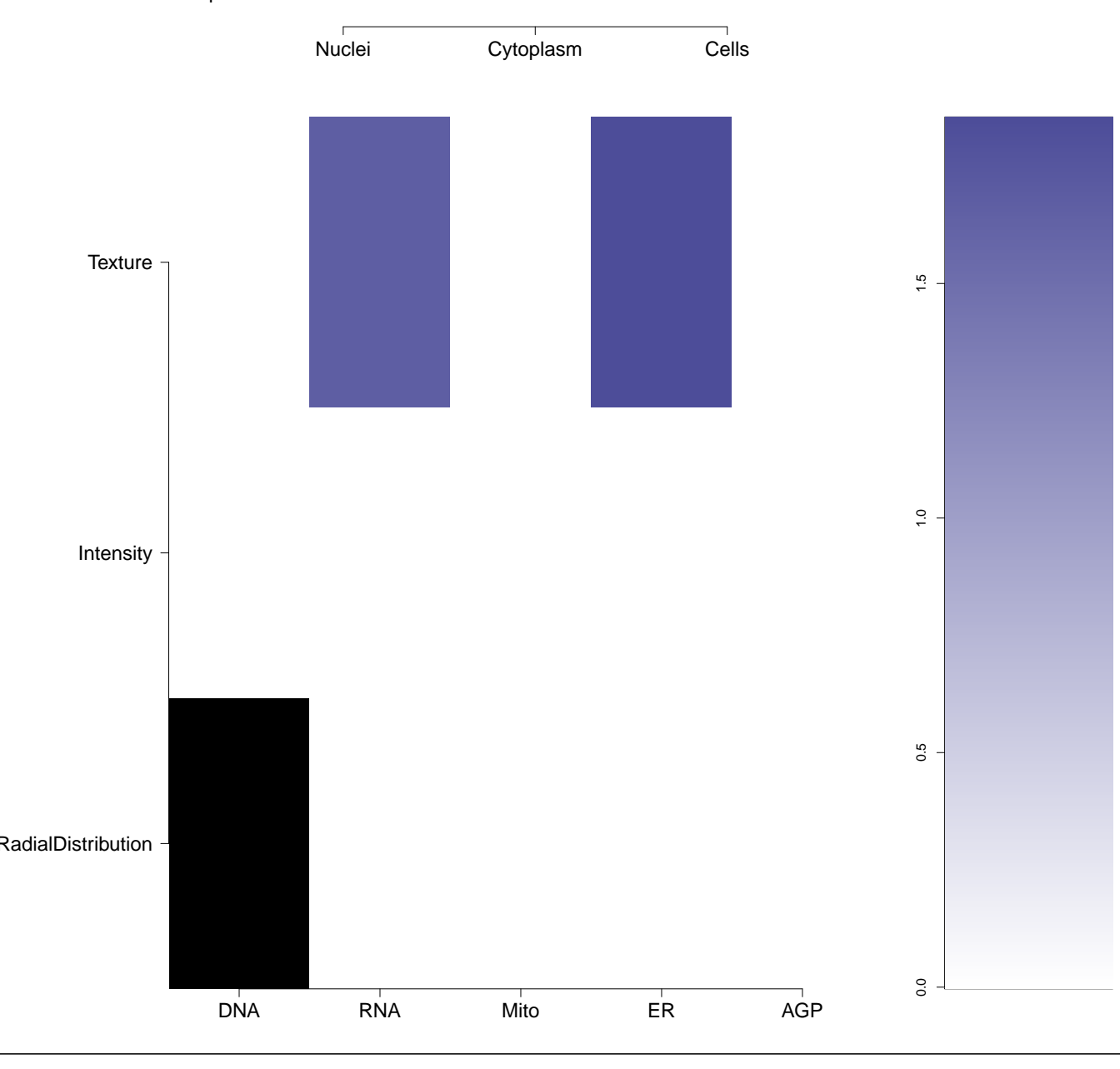
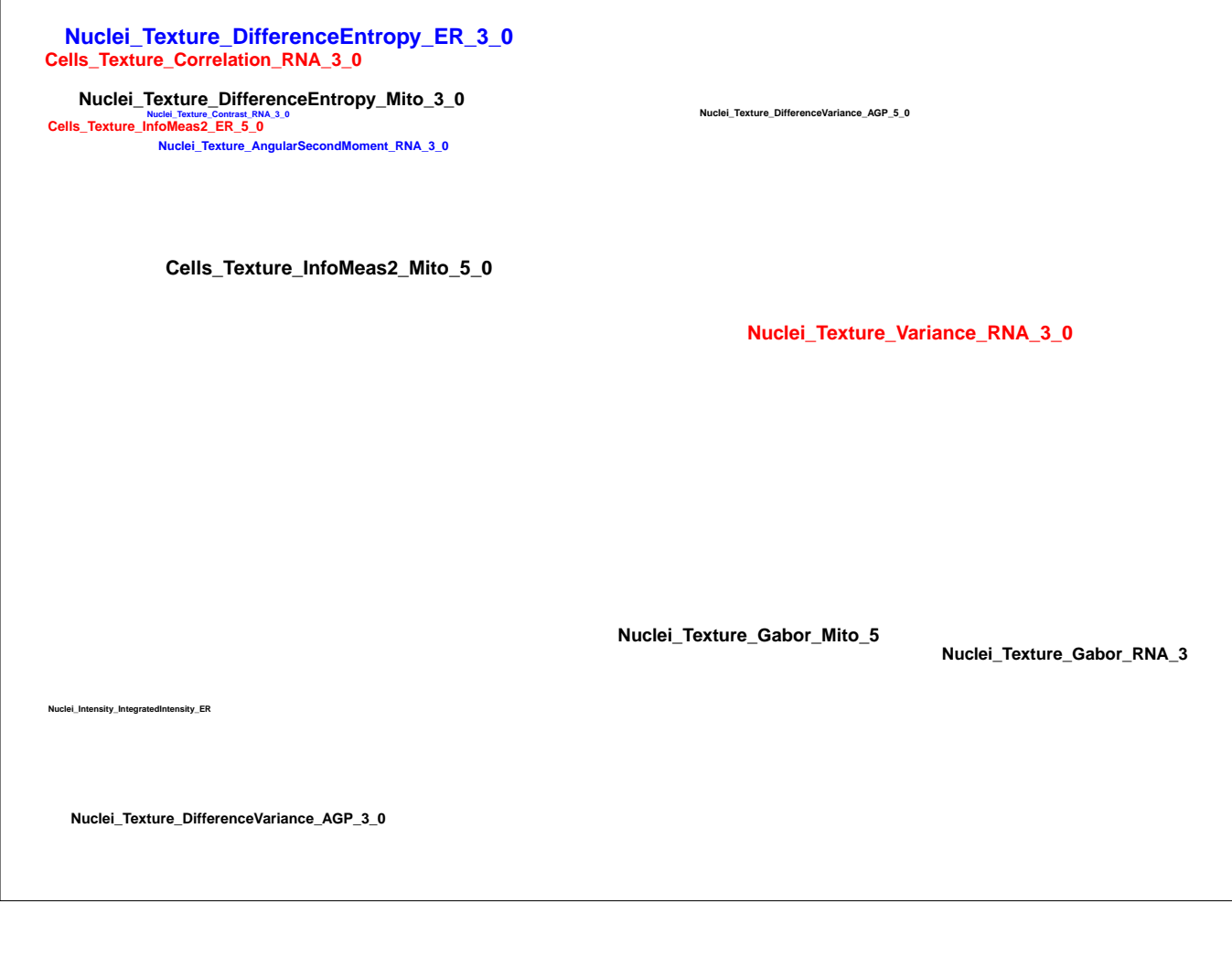
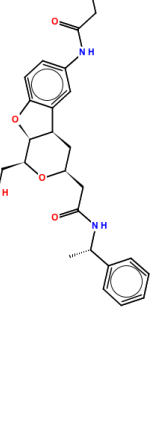
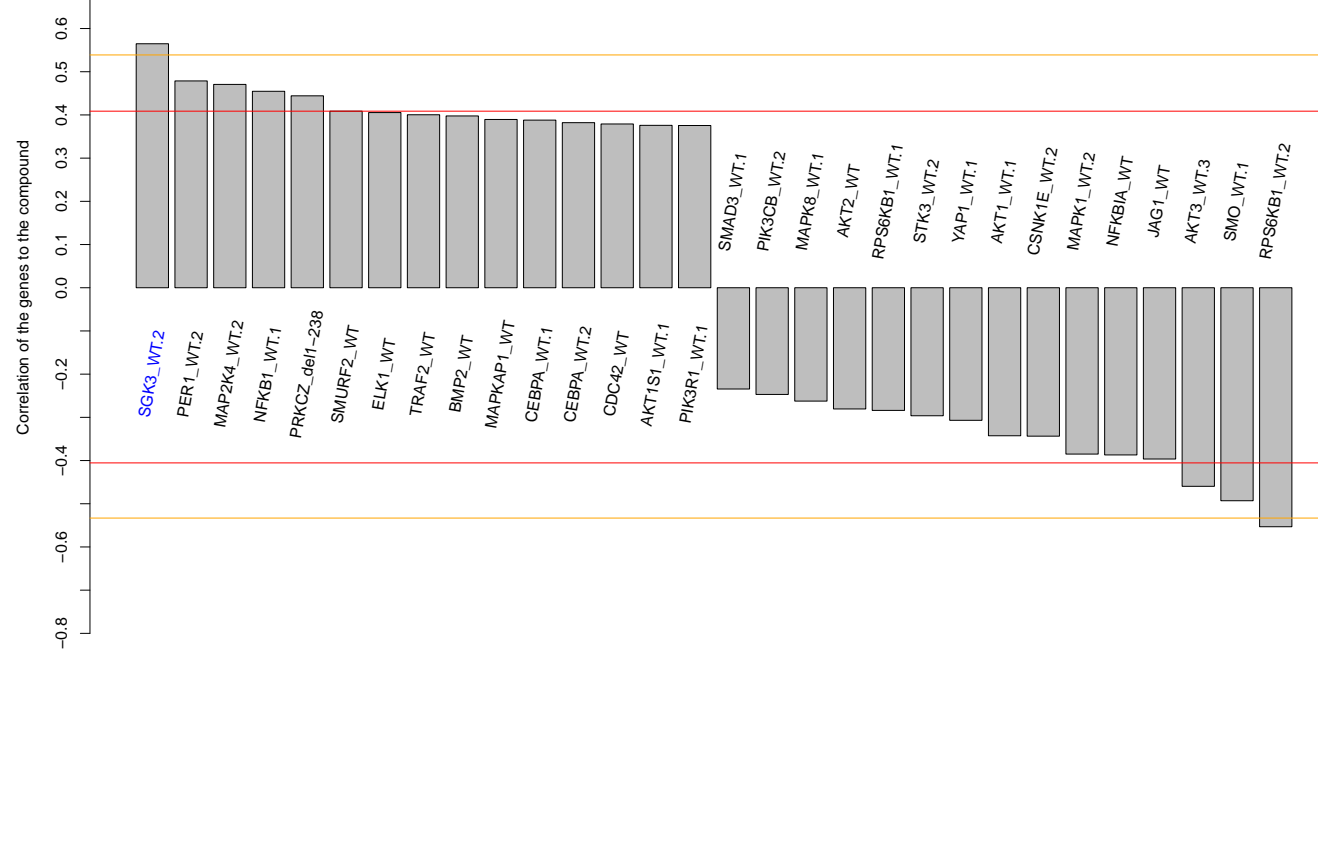
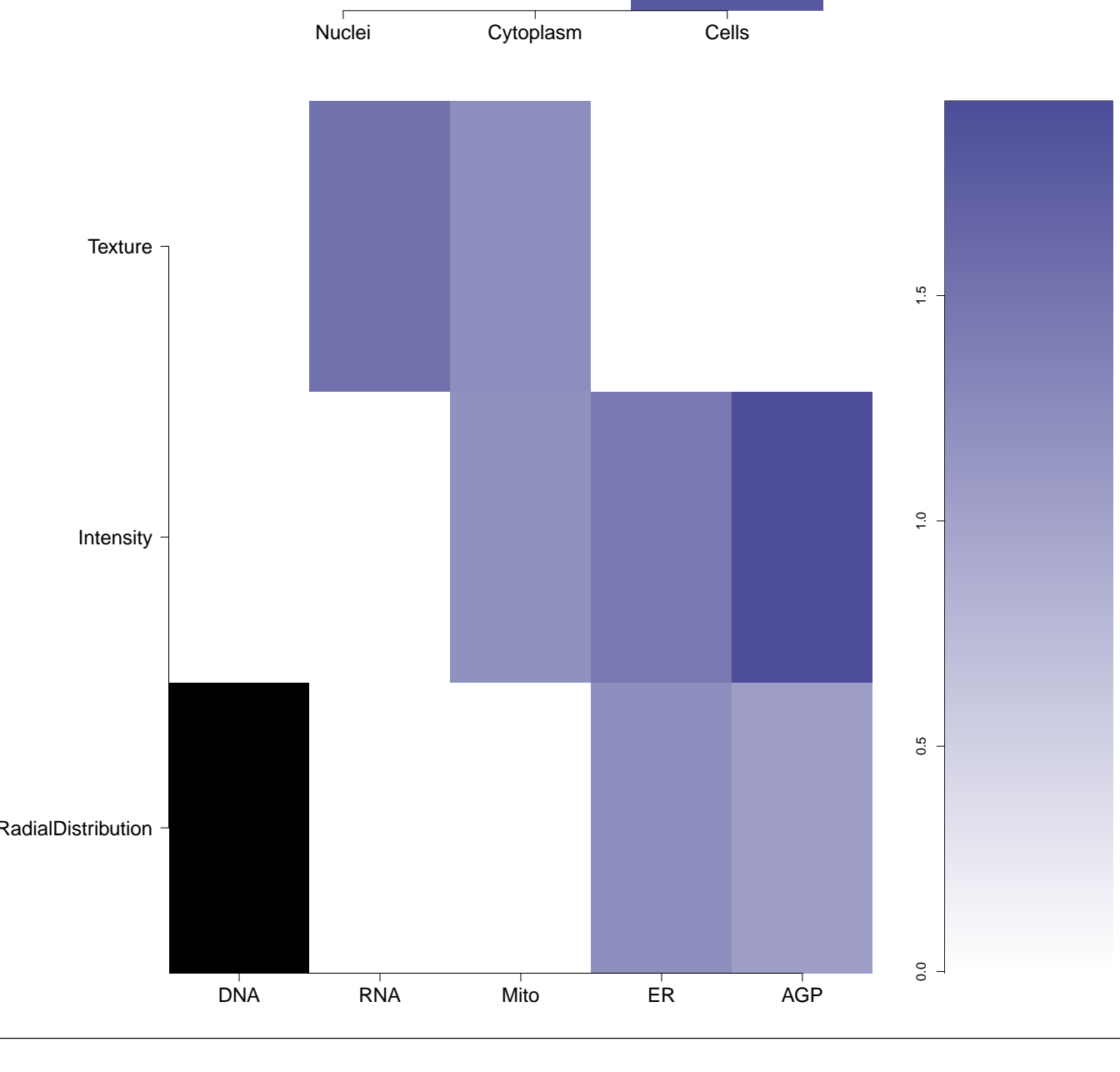

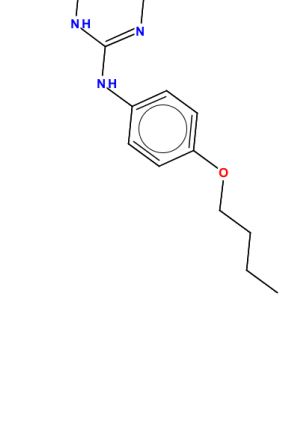
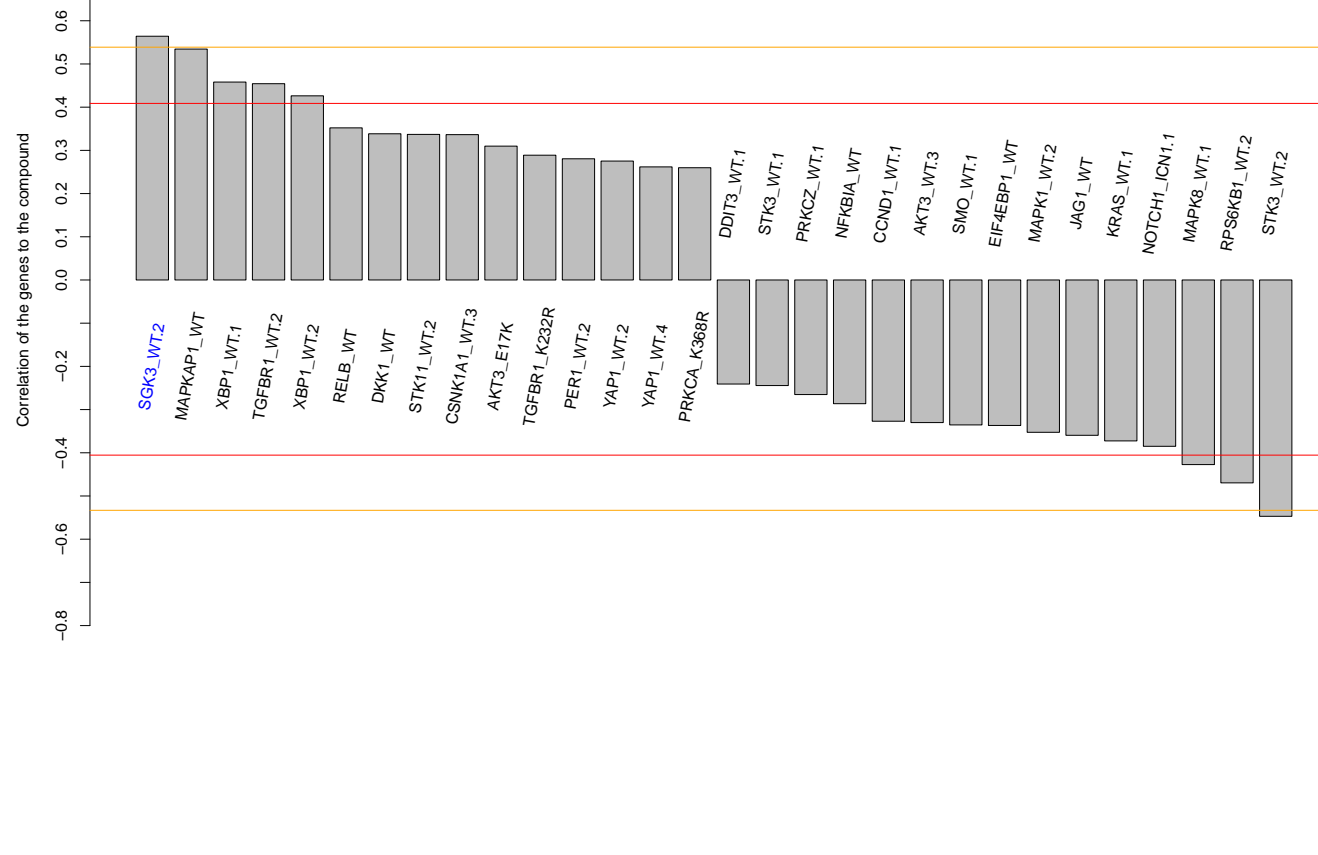
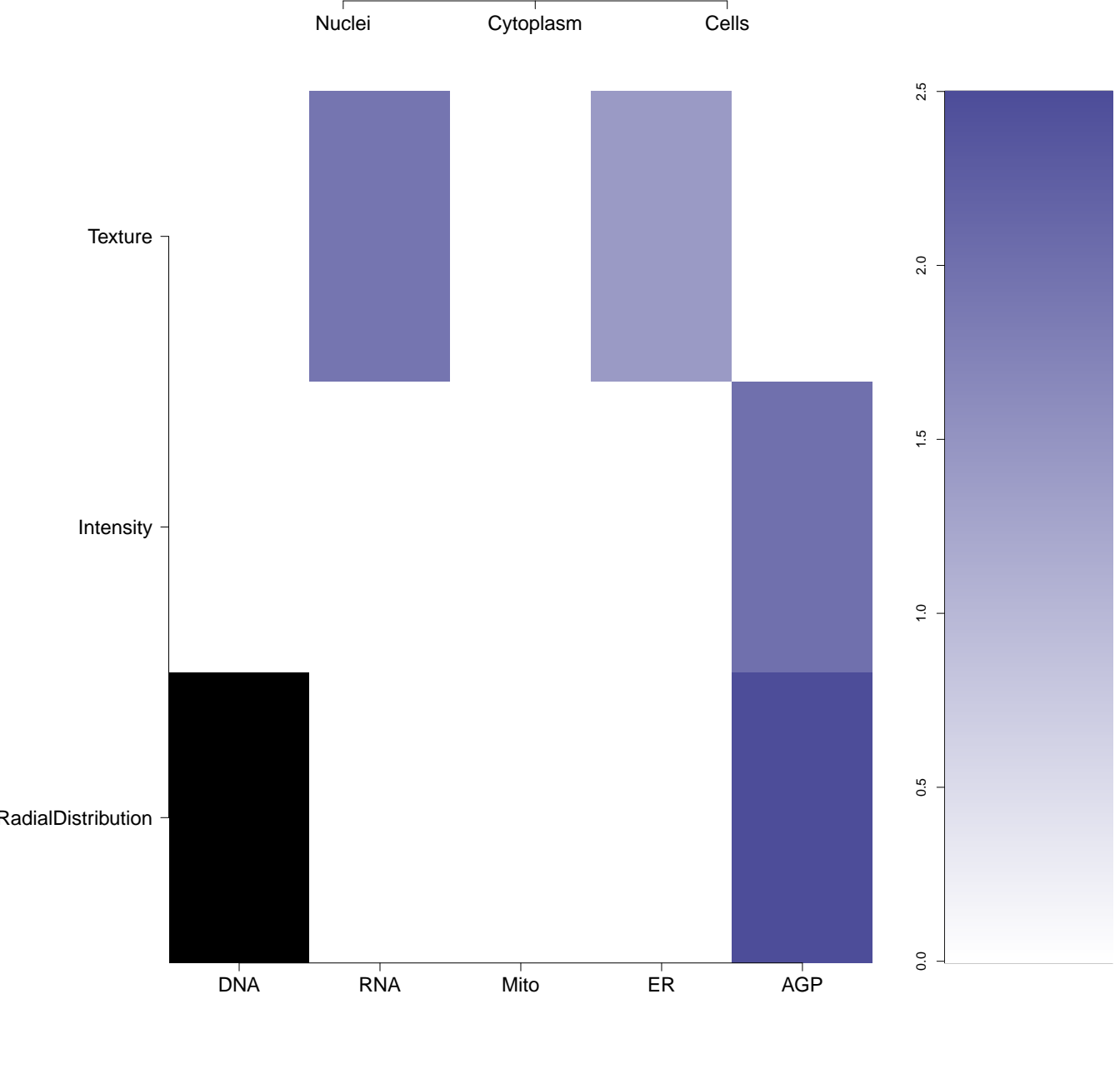

0.61

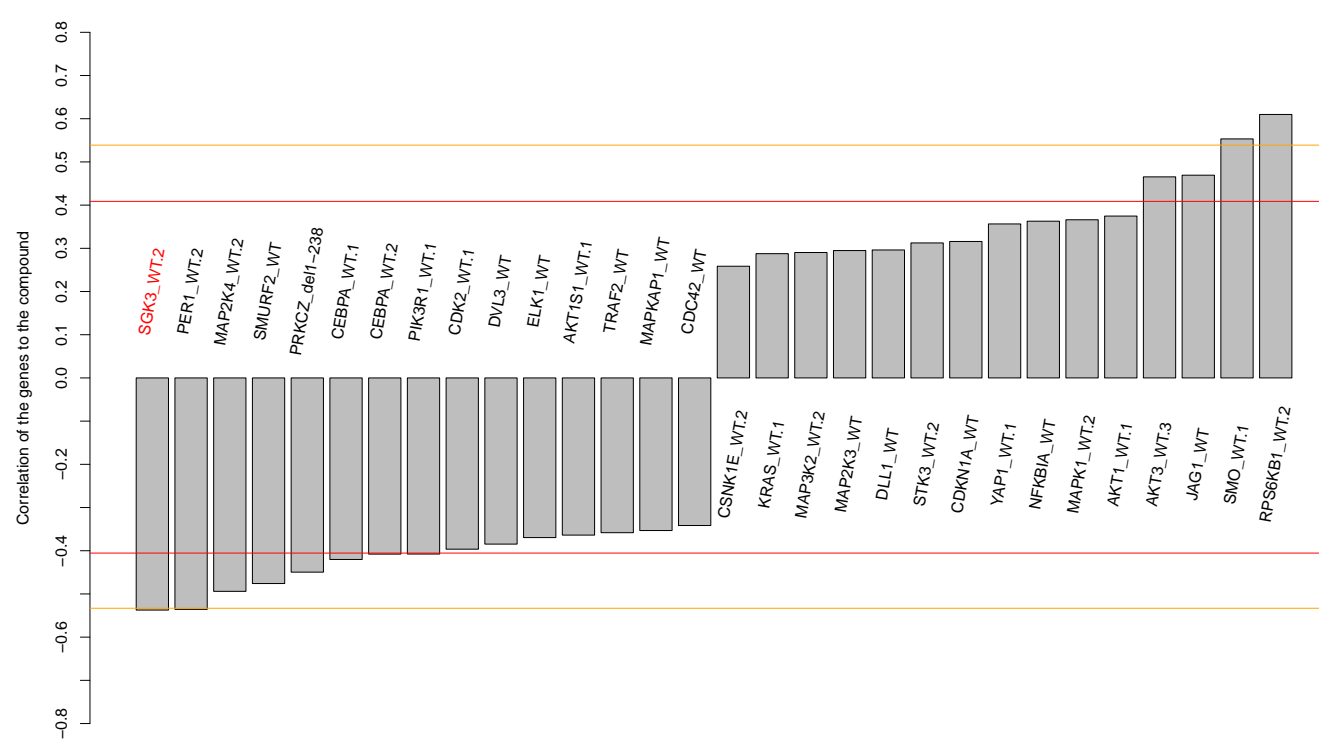
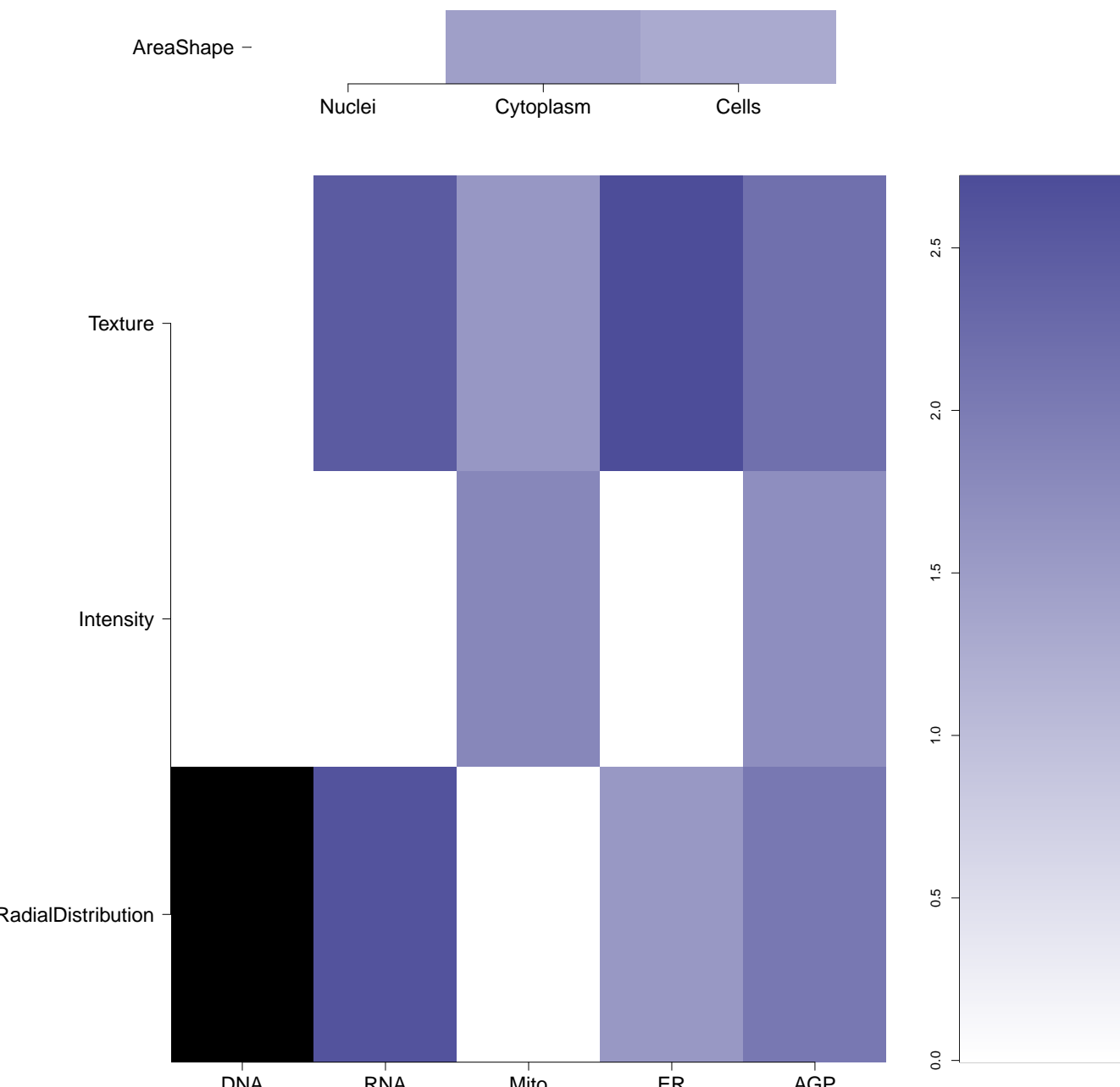
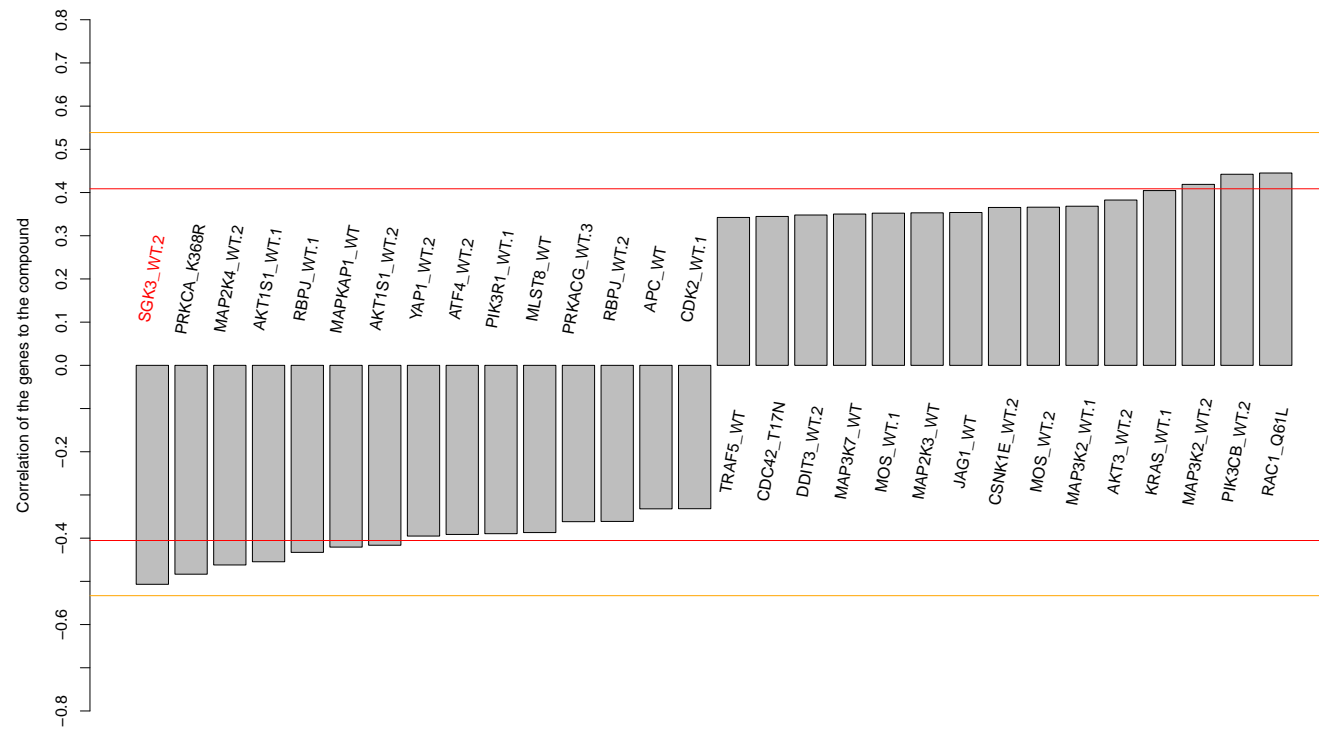
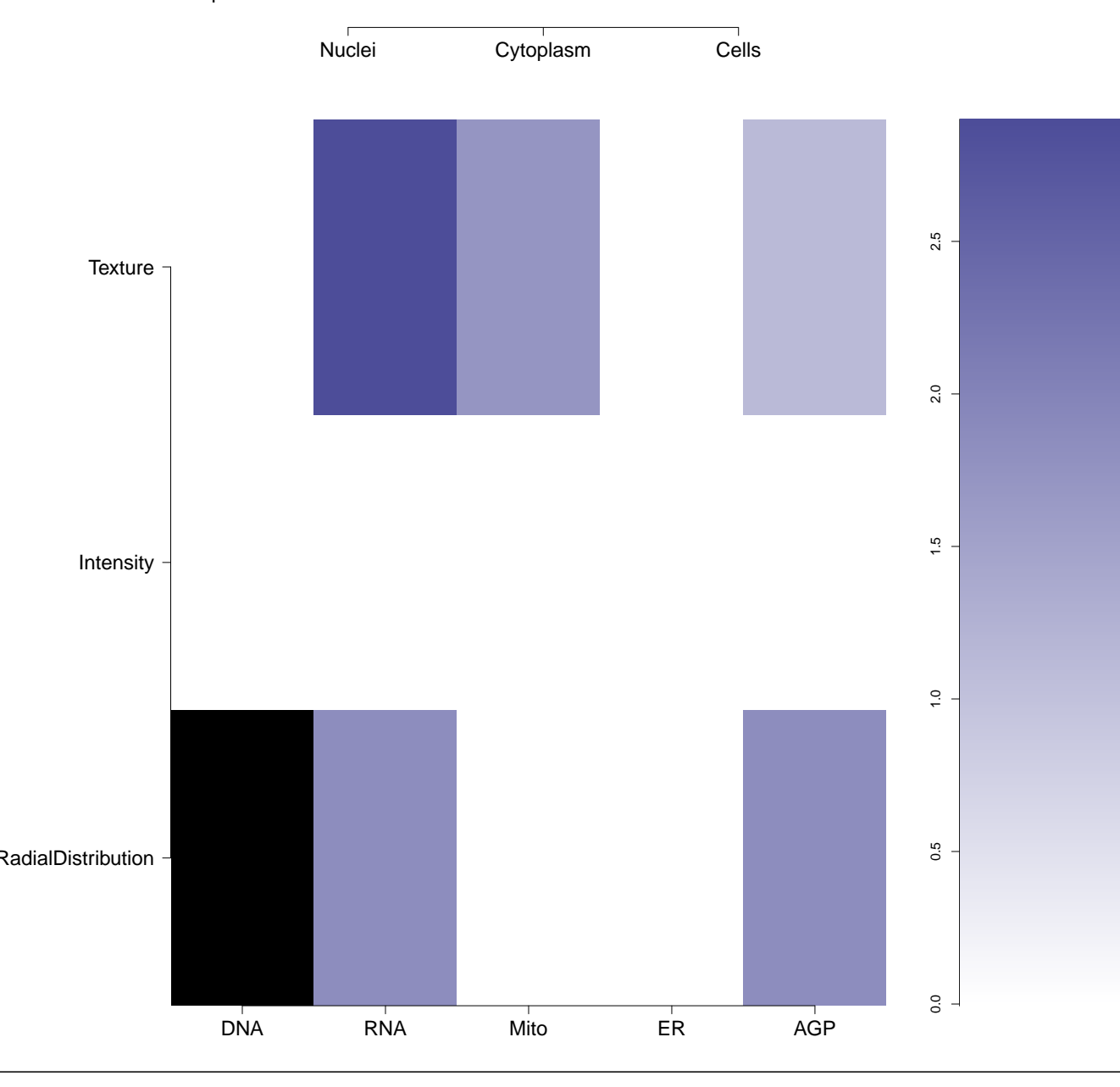
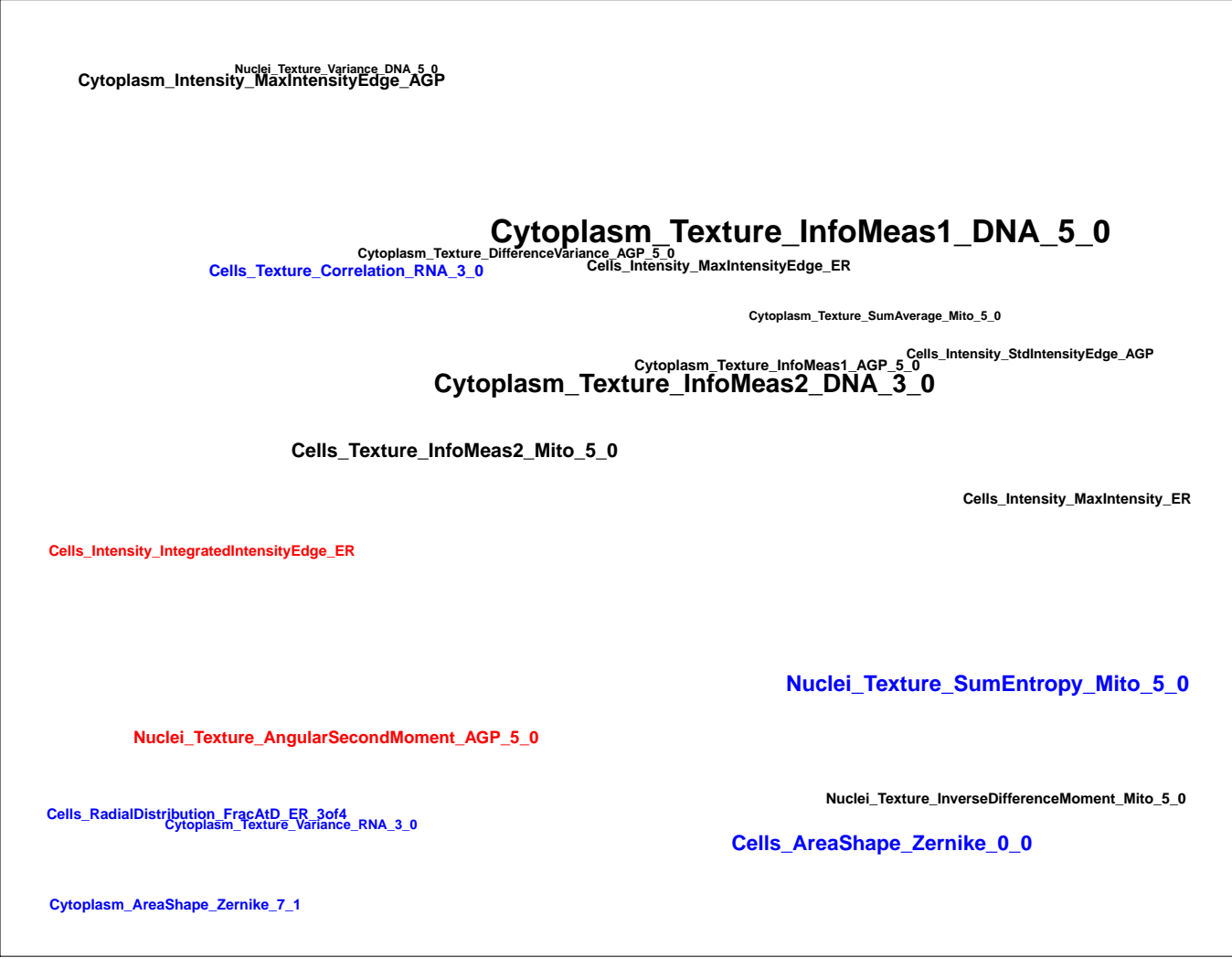
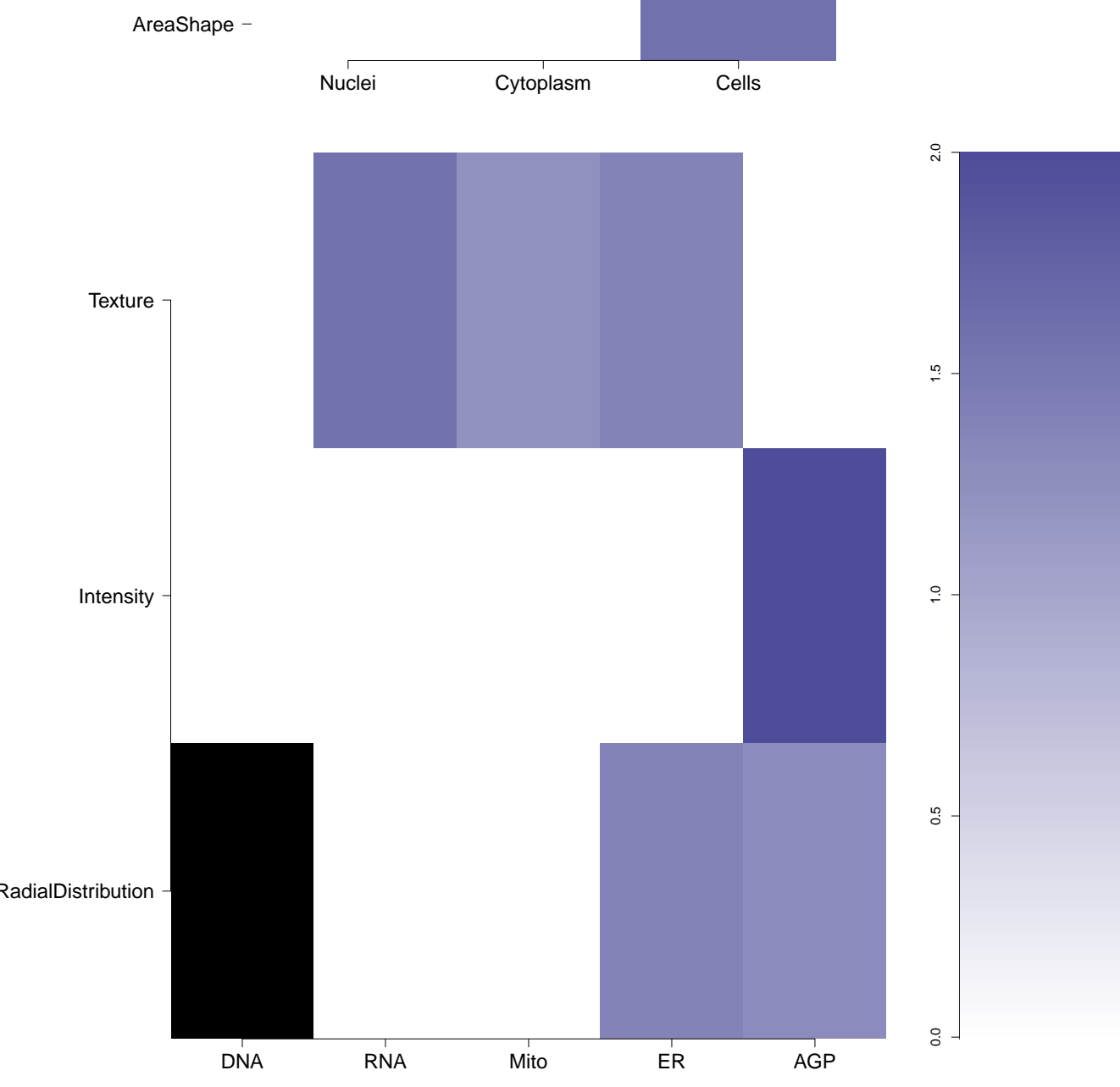

NA



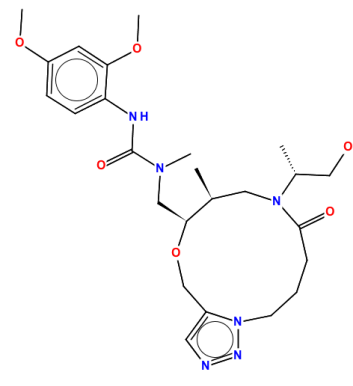
Total number of assays tested in:
791. Active in the following assays:

- Primary biochemical high-throughput screening assay for inhibitors of protein kinase A (PKA) activity (AID 524)
- Primary biochemical high-throughput screening assay for inhibitors of Rho kinase 2 (RhoK2) (AID 604)
- CYP2C9 Assay (AID 777)
- CYP2C19 Assay (AID 778)
- qHTS Assay for Activators of Human Muscle isoform 2 Pyruvate Kinase (AID 1631)
- qHTS Assay for Inhibitors of JMD2A-Tudor Domain (AID 504339)
- qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1- polo-box domain): Primary Screen (AID 725044)
- qFRET-based biochemical primary high throughput screening assay to identify exosite inhibitors of ADAM17. (AID 720648)

BRD-K11696795-001-01-4 PubChem CID : 54634120		0.65 (in 3 replicates)	0.60	0.256				Total number of assays tested in: 37.
BRD-K48911375-001-01-2 PubChem CID : 54646429		0.71 (in 4 replicates)	0.58	0.562				Total number of assays tested in: 37.
BRD-K00892322-001-01-4 PubChem CID : 54646426		0.78 (in 4 replicates)	0.57	0.562				Total number of assays tested in: 37.
BRD-K82758569-001-01-0 PubChem CID : 54646411		0.62 (in 4 replicates)	0.57	0.562				Total number of assays tested in: 41. Active in the following assays: <ul style="list-style-type: none"> Inhibition of Teruzzi proliferation in culture Measured in Cell-Based System Using Plate Reader - 2138-01.Inhibitor SinglePoint.HTS.Activity (AID 624255) Plasmodium falciparum Dd2 Sybr green parasite growth Measured in Cell-Based and Microorganism Combination System Using Plate Reader - 2153-05.Inhibitor.Dose.CherryPick.Activity (AID 1159567)
BRD-K31703908-001-01-8 PubChem CID : 54646650		0.83 (in 4 replicates)	0.56	0.566				Total number of assays tested in: 36.
BRD-K58393684-001-05-7 MLS000062598 GNF-PF-2876 SMR000071624 AC1M2NL4 Ambcb6067889 Ambcb7126088 CHEMBL601578 BDBM42950 HMS2383K20 ZINC06492245 ZINC87711567 PubChem CID : 2174924		NA (in 1 replicates)	0.56	NA				Total number of assays tested in: 810. Active in the following assays: <ul style="list-style-type: none"> HTS for BAP1 Enzyme inhibitors (AID 436) Discovery of novel allosteric modulators of the M1 muscarinic receptor: Antagonist Primary Screen (AID 628) Discovery of novel allosteric modulators of the M1 muscarinic receptor: Antagonist Confirmation Screen (AID 677) Primary biochemical High Throughput Screening assay for agonists of the steroid receptor coactivator 2 (SRC-2) recruitment by the peroxisome proliferator-activated receptor gamma (PPARgamma) (AID 1032) Measurement of TR-FRET detection format artefact in the screen for agonists of steroid receptor coactivator 2 (SRC-2) recruitment by the peroxisome proliferator-activated receptor gamma (PPARgamma) (AID 1049) A small molecule screen for inhibitors of the PhoP regulon in Salmonella typhi (AID 1850) A screen for inhibitors of the PhoP regulon in Salmonella Typhi using a modified counter-screen (AID 1985) A cytotoxicity screen of small molecule inhibitors of the PhoP regulon in Salmonella typhi identified in the primary screen (AID 2252) A counter screen for small molecule screen for inhibitors of the PhoP regulon in Salmonella typhi (AID 2384) NOVARTIS: Inhibition of Plasmodium falciparum 3D7 (drug-susceptible) proliferation in erythrocyte-based infection assay (AID 449703) NOVARTIS: Inhibition of Plasmodium falciparum W2 (drug-resistant) proliferation in erythrocyte-based infection assay (AID 449704) Phenotypic HTS multiplex for antifungal efflux pump inhibitors (AID 485275) Primary qHTS for delayed death inhibitors of the malarial parasite plasid, 48 hour incubation (AID 504832) Confirmation screen for delayed death inhibitors of the malarial parasite plasid, 96 hour incubation (AID 504848) Confirmation screen for delayed death inhibitors of the malarial parasite plasid, 48 hour incubation (AID 504850) 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) Confirmed allosteric antagonists of M1 Muscarinic receptor (AID 1053187)

BRD-K03013810-001-01-3 PubChem CID : 54638216		0.70 (in 4 replicates)	-0.54	0.743				Total number of assays tested in: 37.
BRD-K95611306-001-01-4 PubChem CID : 54654230		0.57 (in 3 replicates)	-0.52	0.438				Total number of assays tested in: 42. Active in the following assays: <ul style="list-style-type: none"> Inhibition of Teruzzi proliferation in culture Measured in Cell-Based System Using Plate Reader - 2138-01.Inhibitor.SinglePoint.HTS.Activity (AID 624255)
BRD-K09290524-001-01-8 MLS005000174 SMR003878767 PubChem CID : 54596120		0.55 (in 4 replicates)	-0.51	0.844				Total number of assays tested in: 25.
BRD-K31385226-001-01-9 PubChem CID : 54638334		0.61 (in 4 replicates)	-0.49	0.307				Total number of assays tested in: 36.
BRD-K57588631-001-05-7 MLS000556050 BDBM84375 HMS2396P20 ZINC886616 ASN 02070029 SMR000172457 PubChem CID : 1143072		NA (in 1 replicates)	-0.47	NA				Total number of assays tested in: 668. Active in the following assays: <ul style="list-style-type: none"> nHTS identification of compounds inhibiting the binding between the RUNX1 Runt domain and CBFb via a fluorescence resonance energy transfer (FRET) assay. (AID 1496) nHTS HTRF assay for identification of inhibitors of SUMOylation (AID 2006) AlphaScreen confirmatory assay for validation of inhibitors of SUMOylation (AID 2018) Counterscreen for inhibitors of PP5: fluorescence-based biochemical high throughput primary assay to identify inhibitors of Protein Phosphatase 1 (PP1). (AID 2235) Fluorescence-based biochemical high throughput confirmation assay to identify inhibitors of Protein Phosphatase 1 (PP1) (AID 2358) VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) qHTS for inhibitors of ROR gamma transcriptional activity (AID 2351) 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 orexin 1 receptor (OX1R; HCRT1R) (AID 485270) HTS to identify compounds that promote myeloid differentiation with MLPNCN compound set (AID 624256) Counterscreen of compound fluorescence effects on High-throughput multiplex microsphere screening for inhibitors of toxin protease (AID 624483) Luminescence-based cell-based primary high throughput screening assay to identify activators of the DAF-12 from the parasite S. stercoralis (sdDAF-12) (AID 652126)
BRD-K93830491-001-01-7 PubChem CID : 44489659		0.54 (in 4 replicates)	-0.46	0.283				Total number of assays tested in: 39. Active in the following assays: <ul style="list-style-type: none"> Luminescence Cell-Based Primary HTS to Identify Inhibitors of STK33 (AID 2330) Luminescence Cell-Based Primary HTS to identify inhibitors of the oncoprotein EWS/Flt transcriptional activity Measured in Cell-Based System Using Plate Reader - 7054-01.Inhibitor.SinglePoint.HTS.Activity (AID 651661) 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)

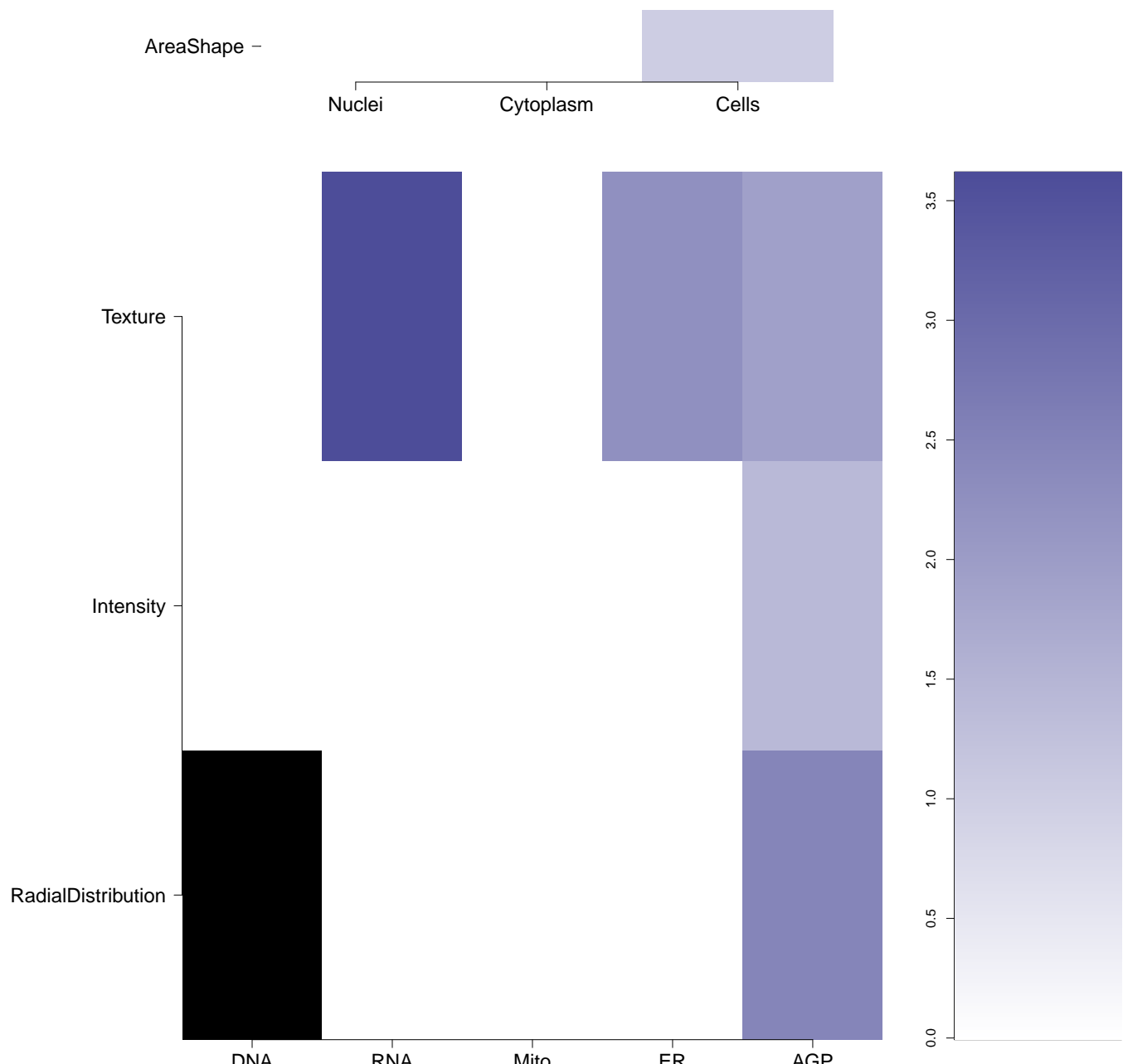
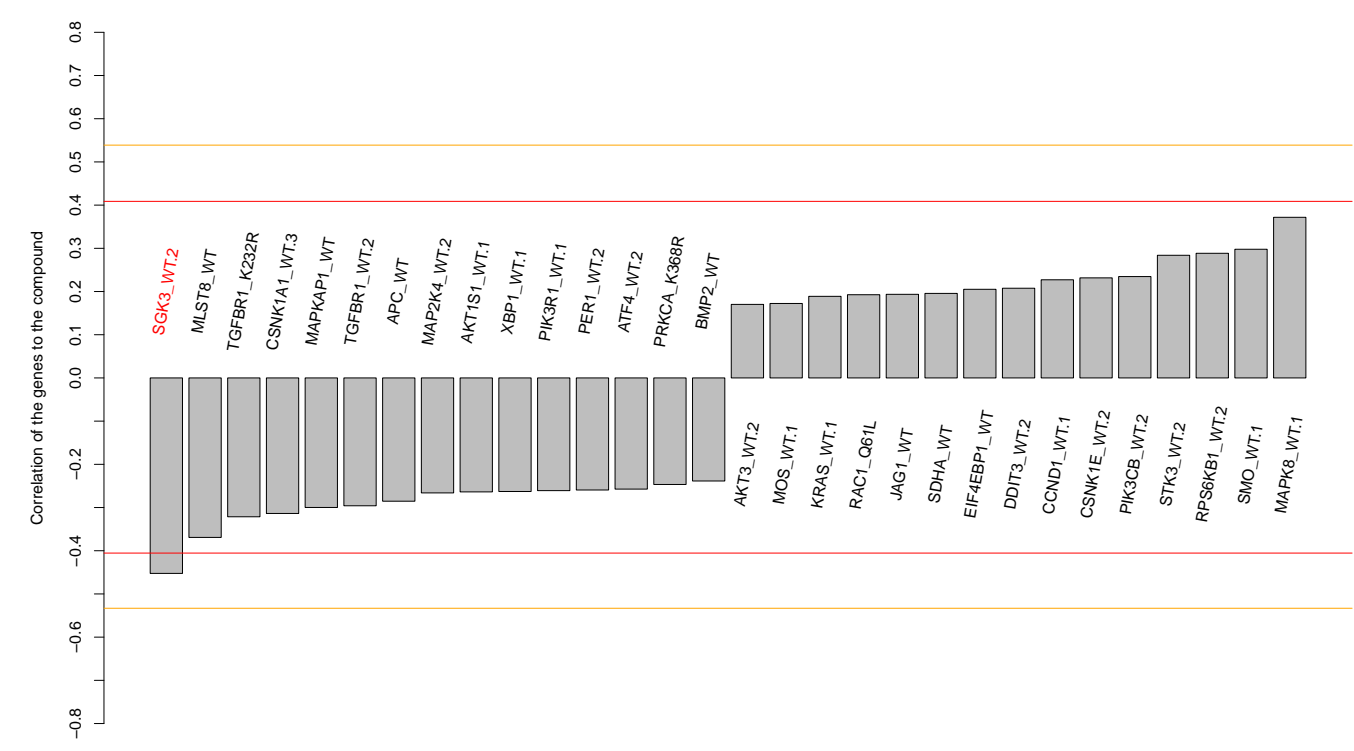
BRD-K91229058-001-01-9
MLS003129166
SMR001833612
PubChem CID : 44505433



0.52 (in 7 replicates)

-0.45

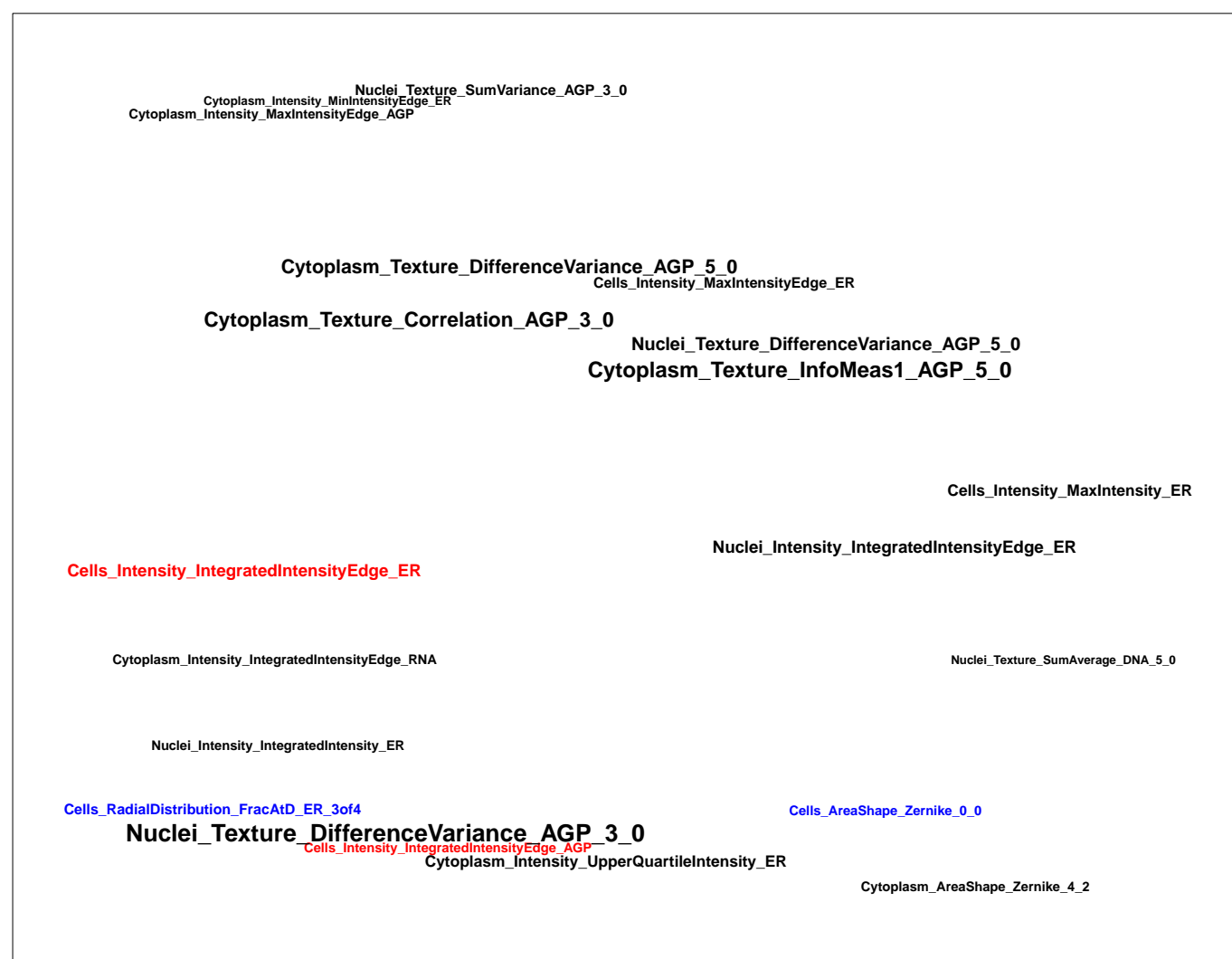
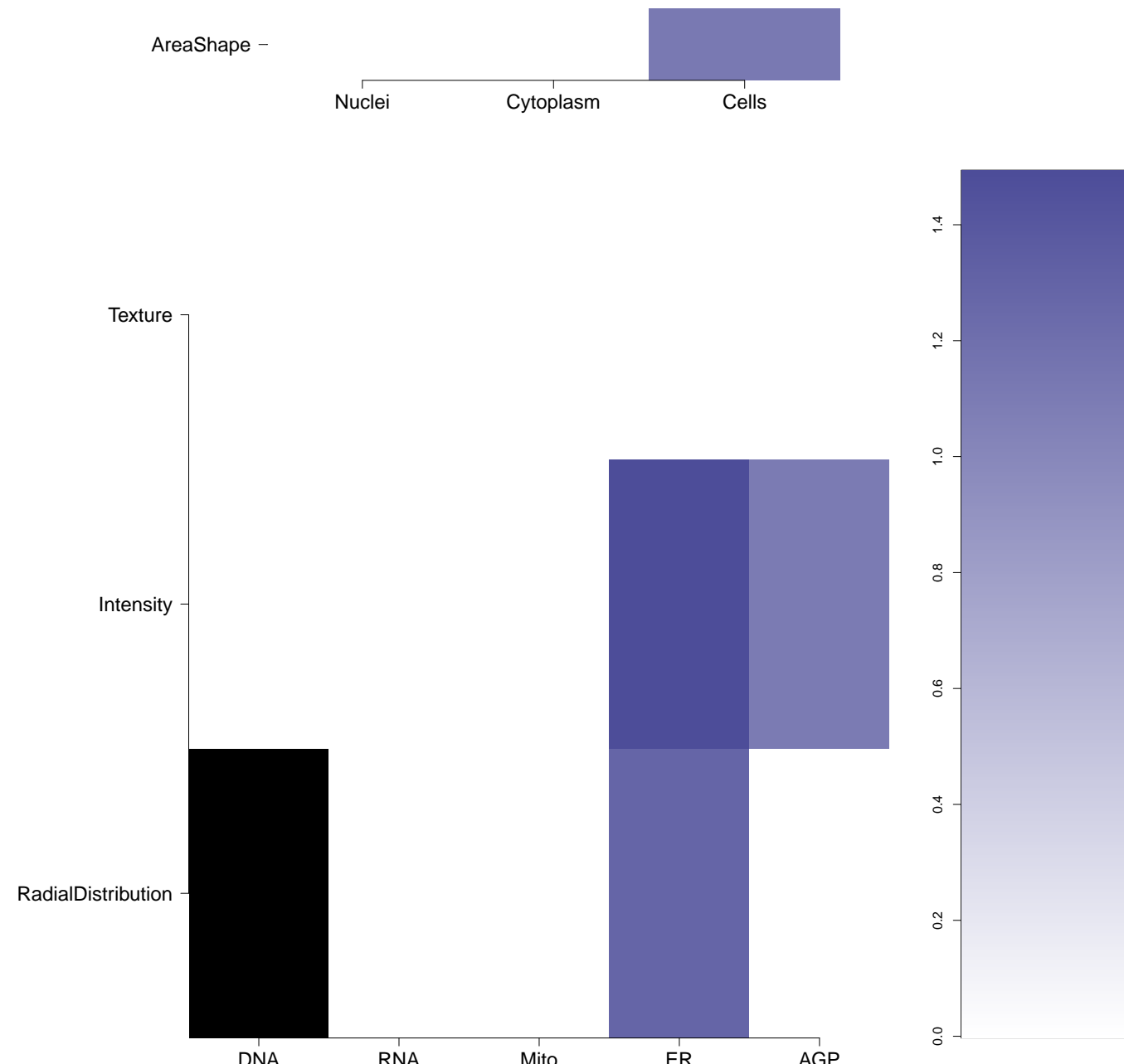
NA



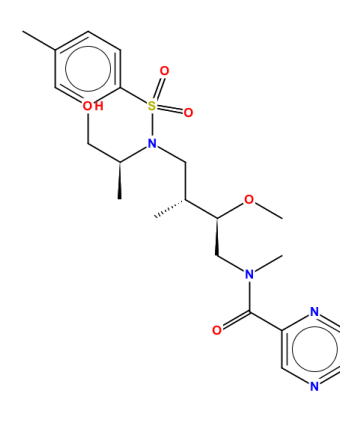
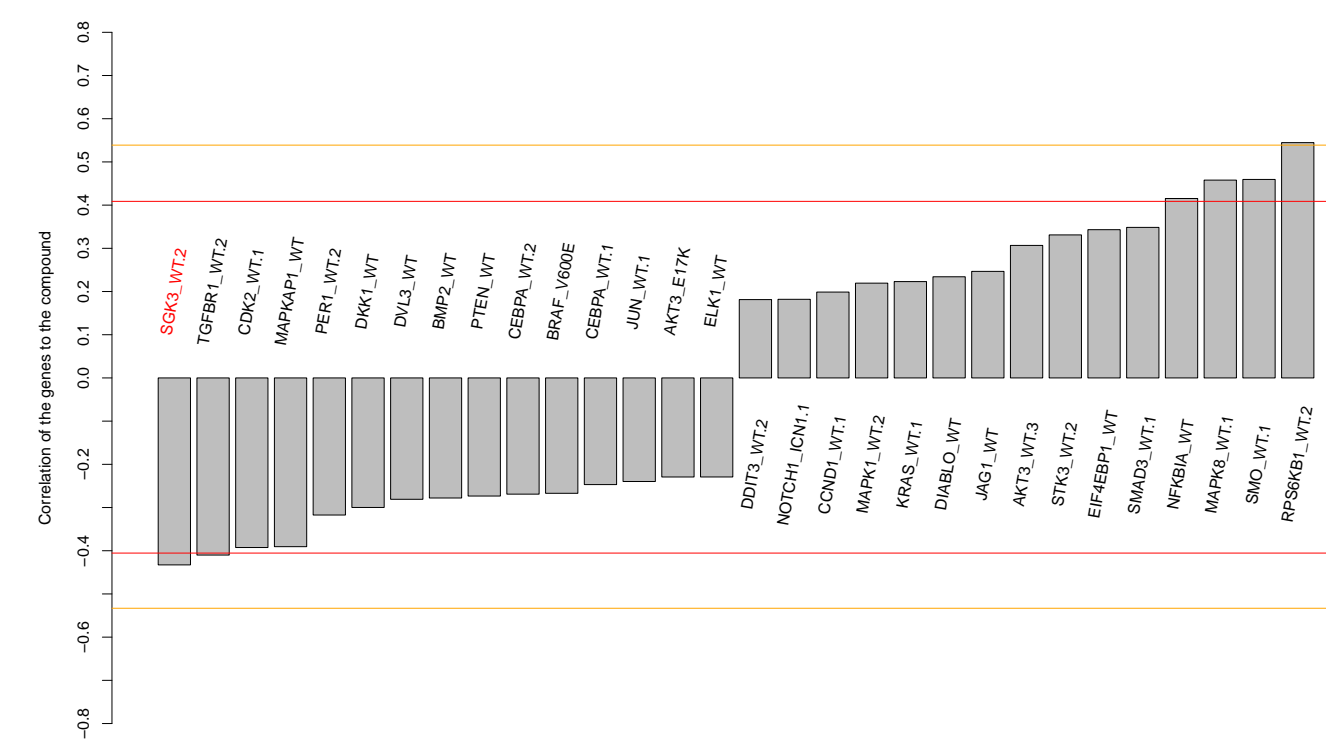
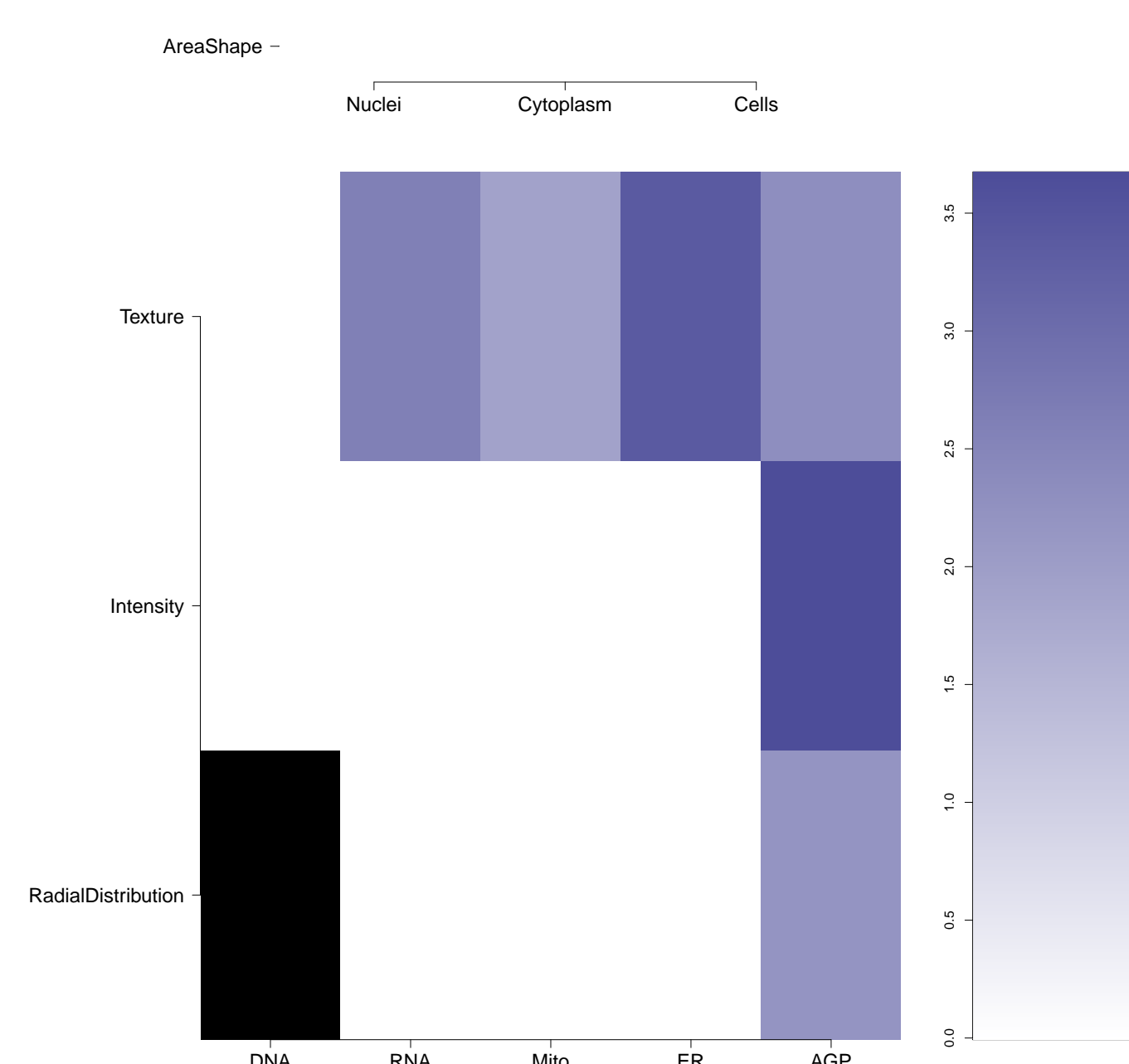
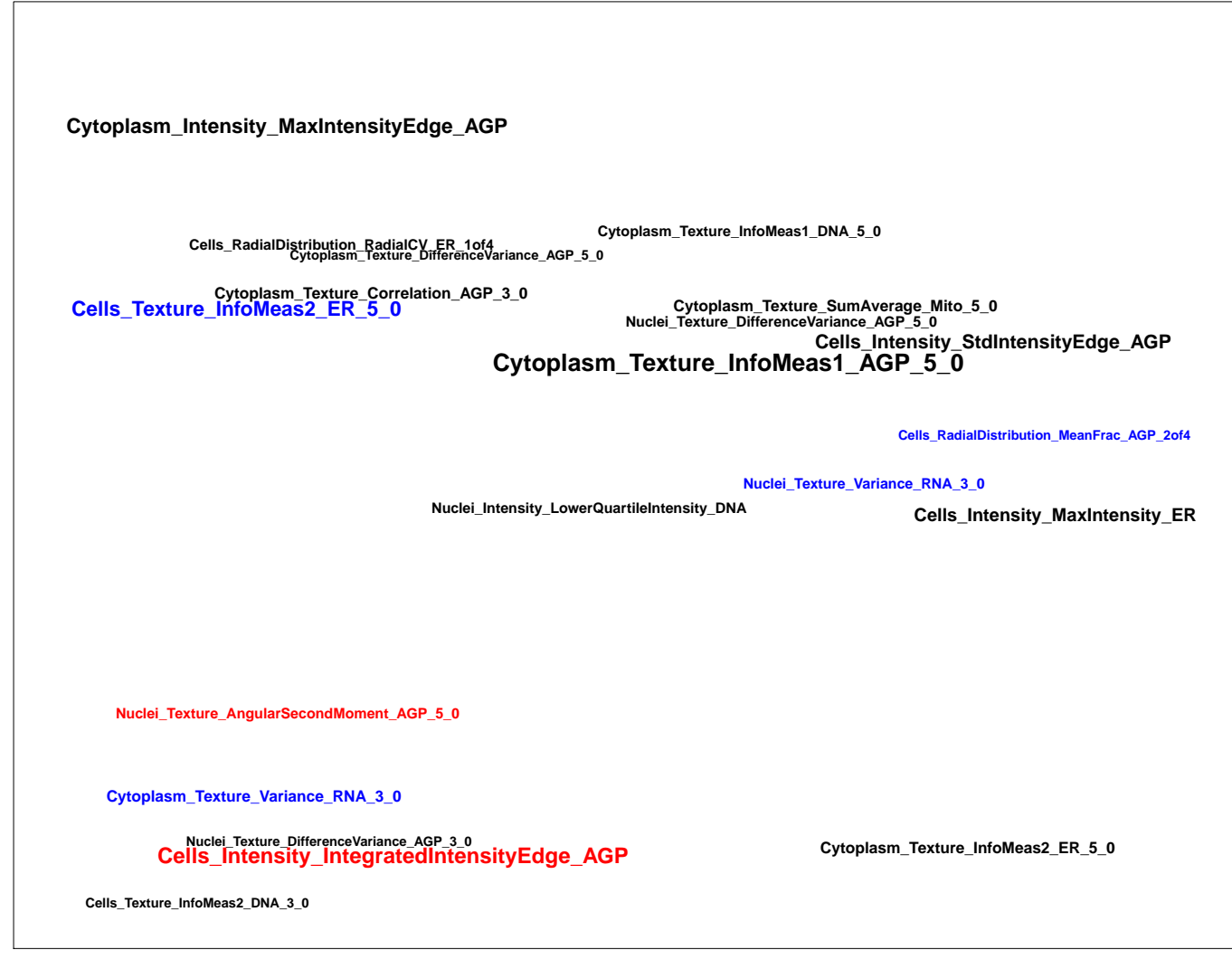
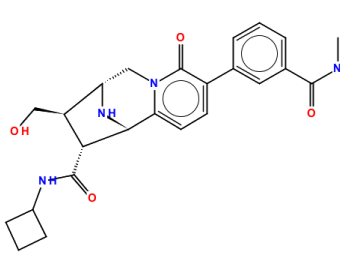
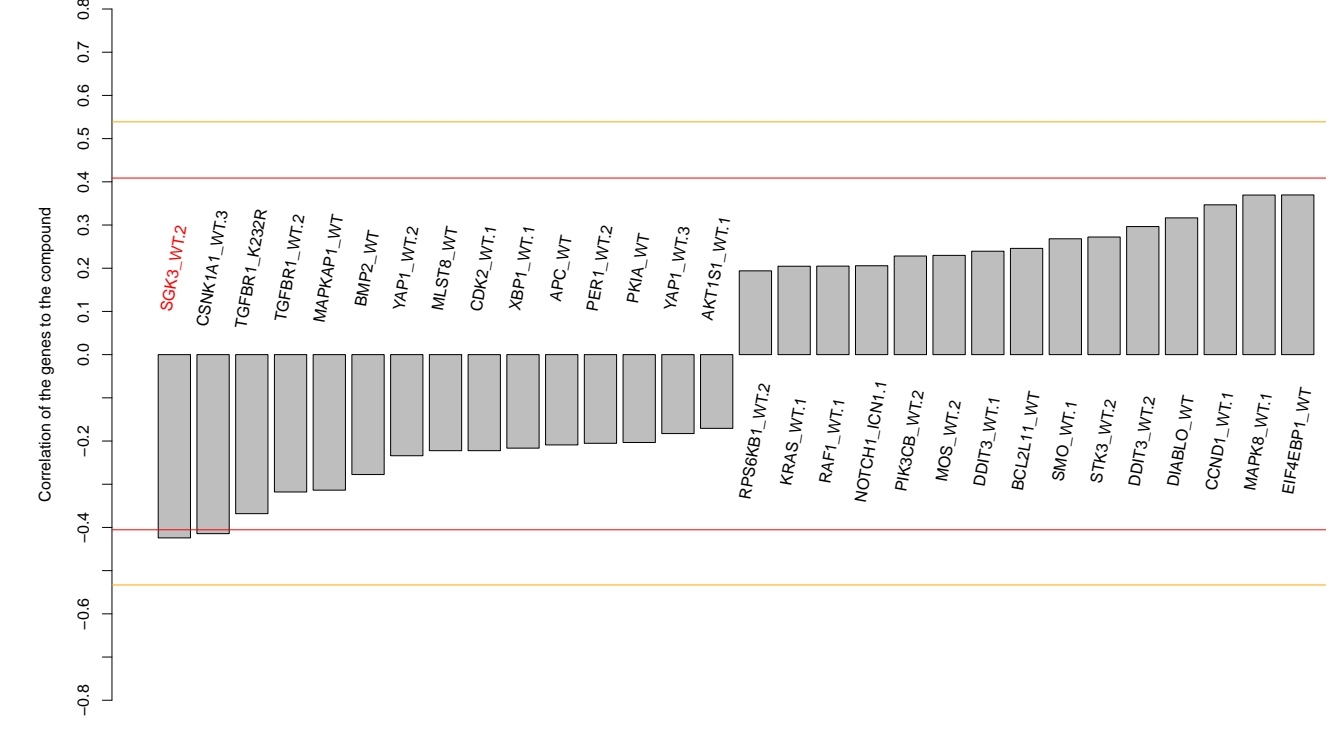
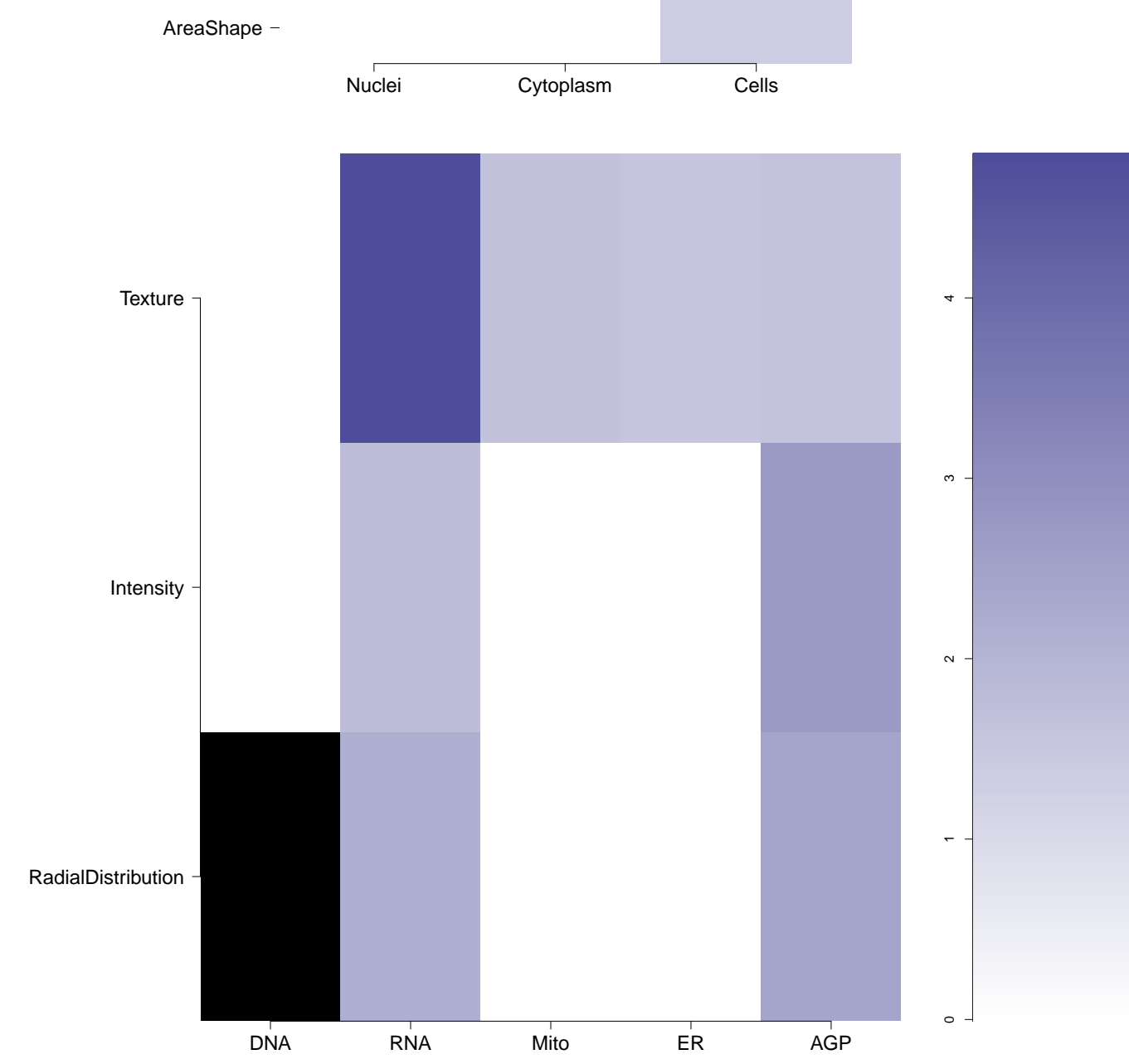
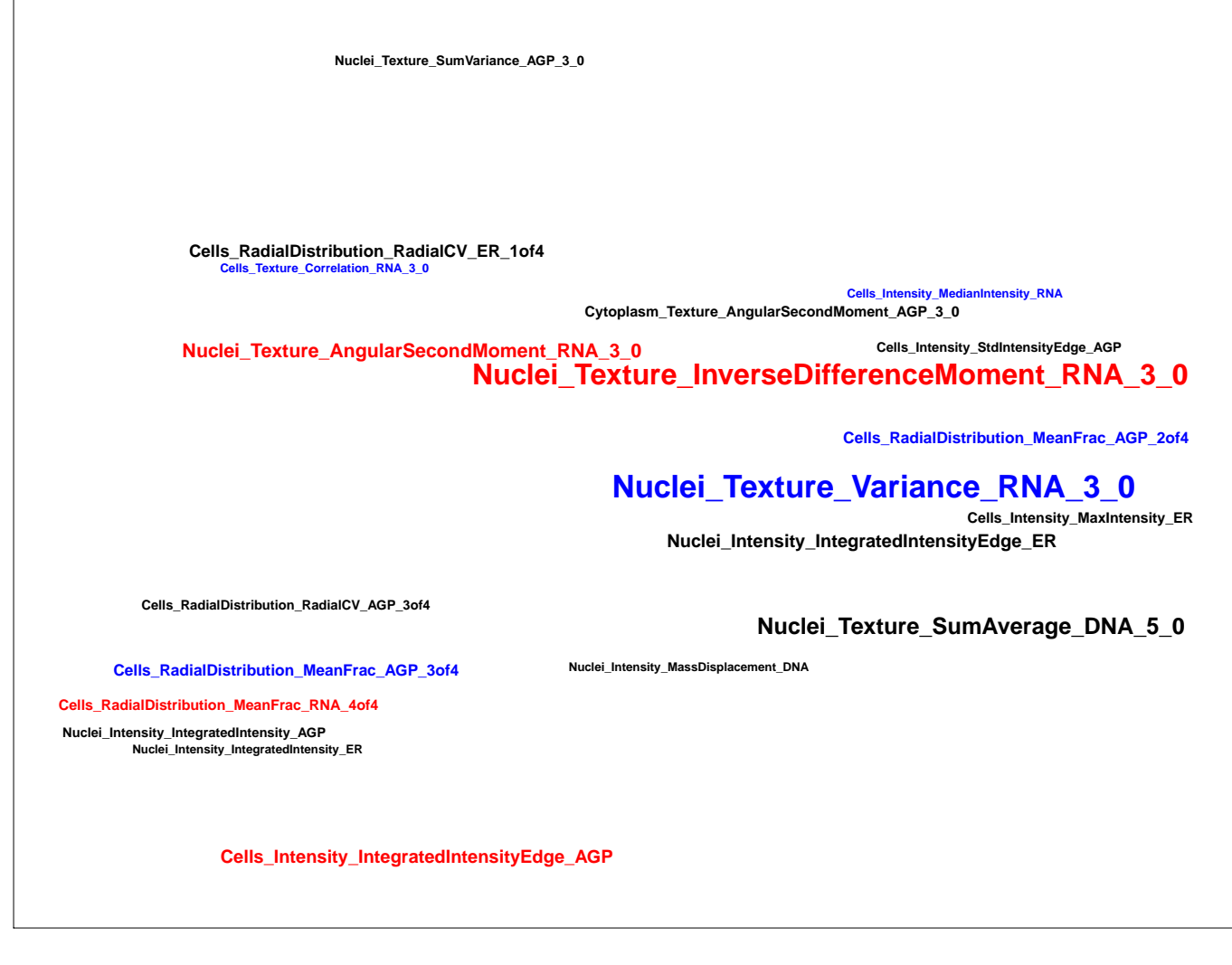
Total number of assays tested in: 221.

-0.43

Keyword	Number of papers per year
Wavelength	18
Bandwidth	17
Fiber	16
Optical	15
Network	14
Data	13
Cloud	12
Edge	11
IoT	10
5G	9
AI	8
ML	7
DL	6
Quantum	5



- Activators of the GIRK family of Potassium Channels (GIRK1/2_Confirmatory) (A16623911)

BRD-K34122000-001-01-5 PubChem CID : 54649249		0.71 (in 2 replicates)	-0.43	0.614				Total number of assays tested in: 33.
BRD-K79968414-001-01-7 PubChem CID : 54660684		0.53 (in 4 replicates)	-0.42	0.209				Total number of assays tested in: 28.