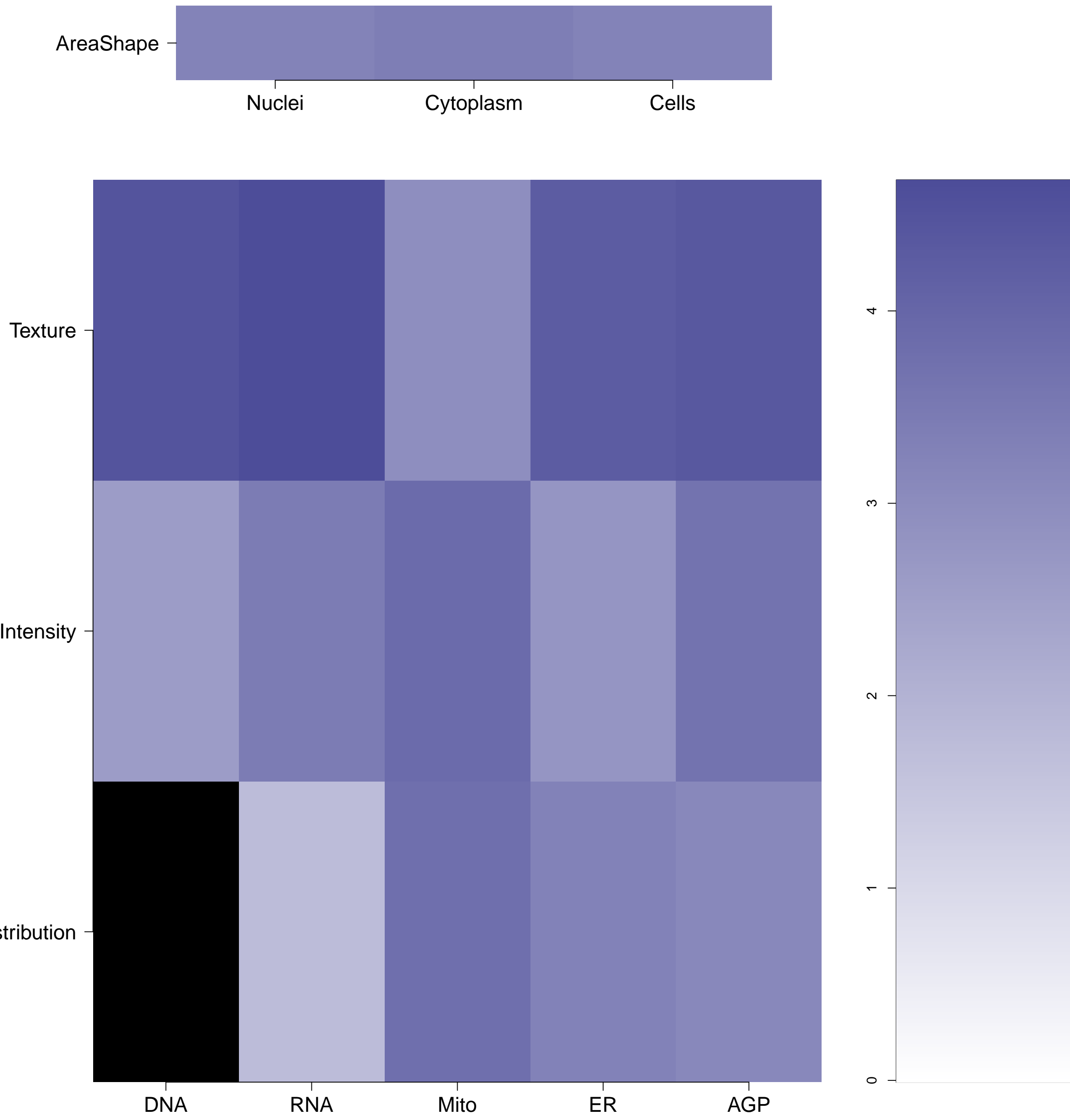


What groups of morphological features are distinguishing in the cluster relative to the untreated samples?
(maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

DLL1.WT (41744)

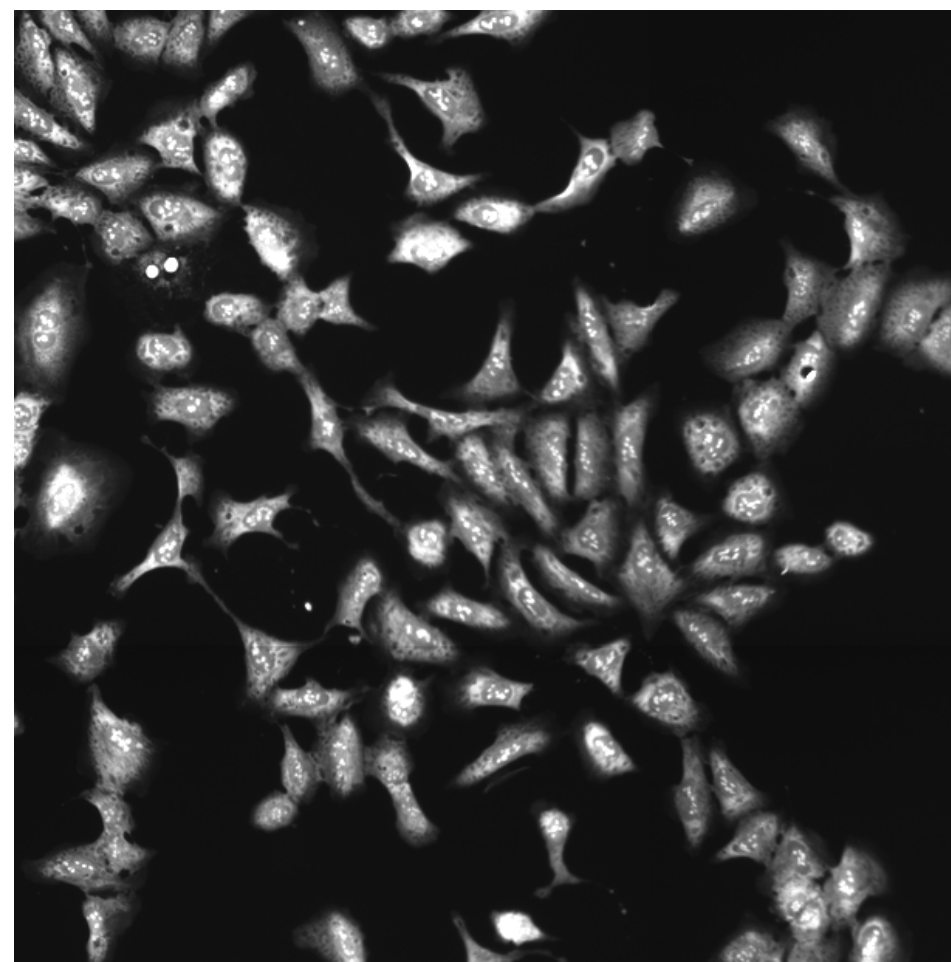
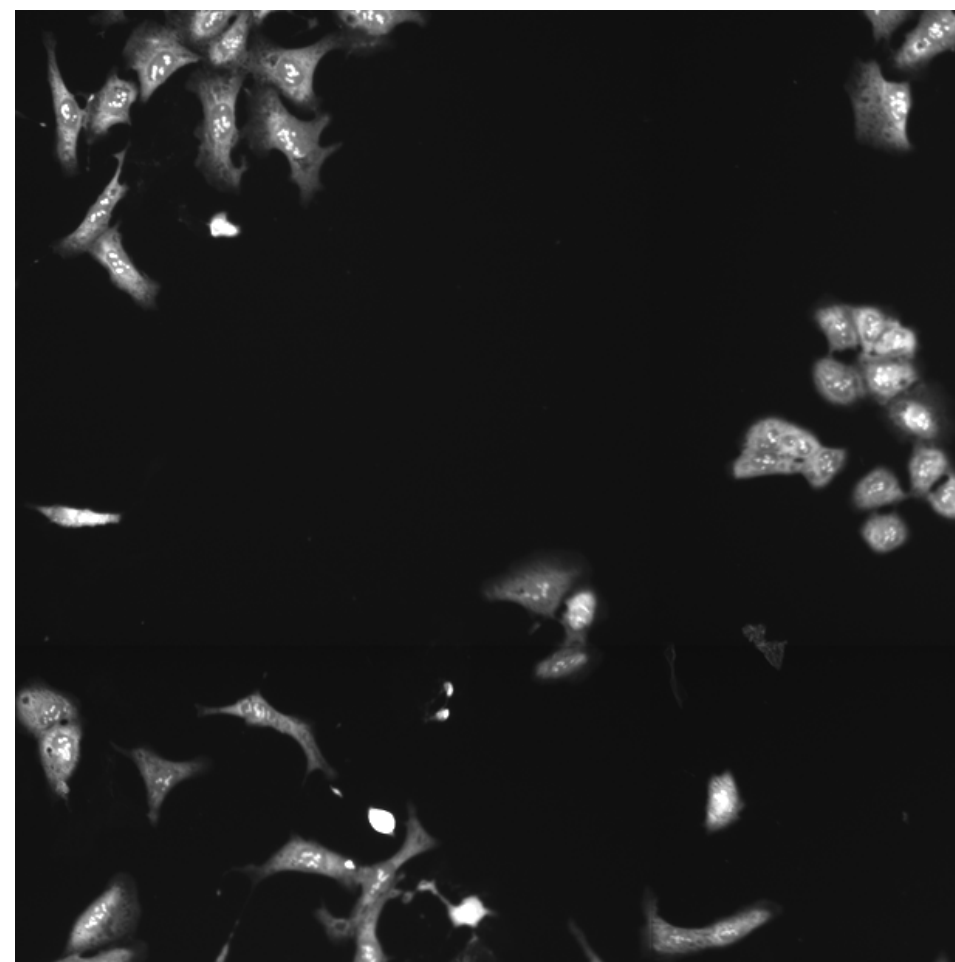
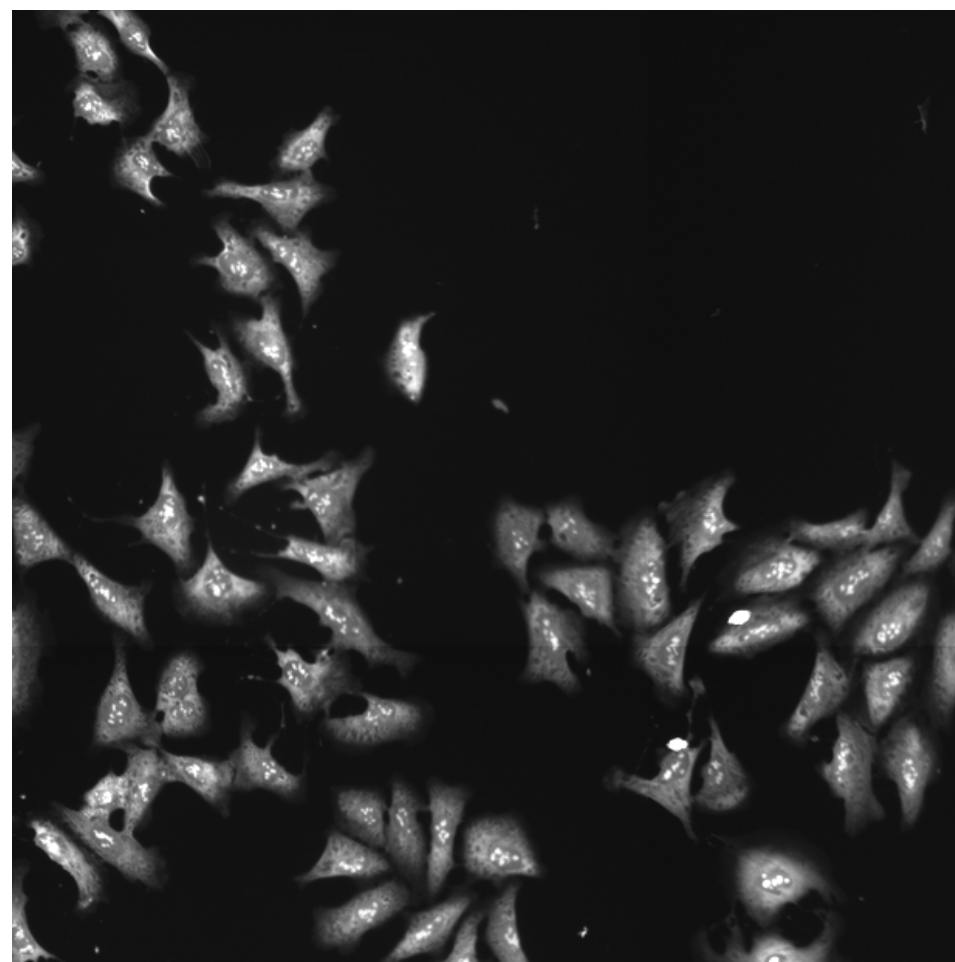
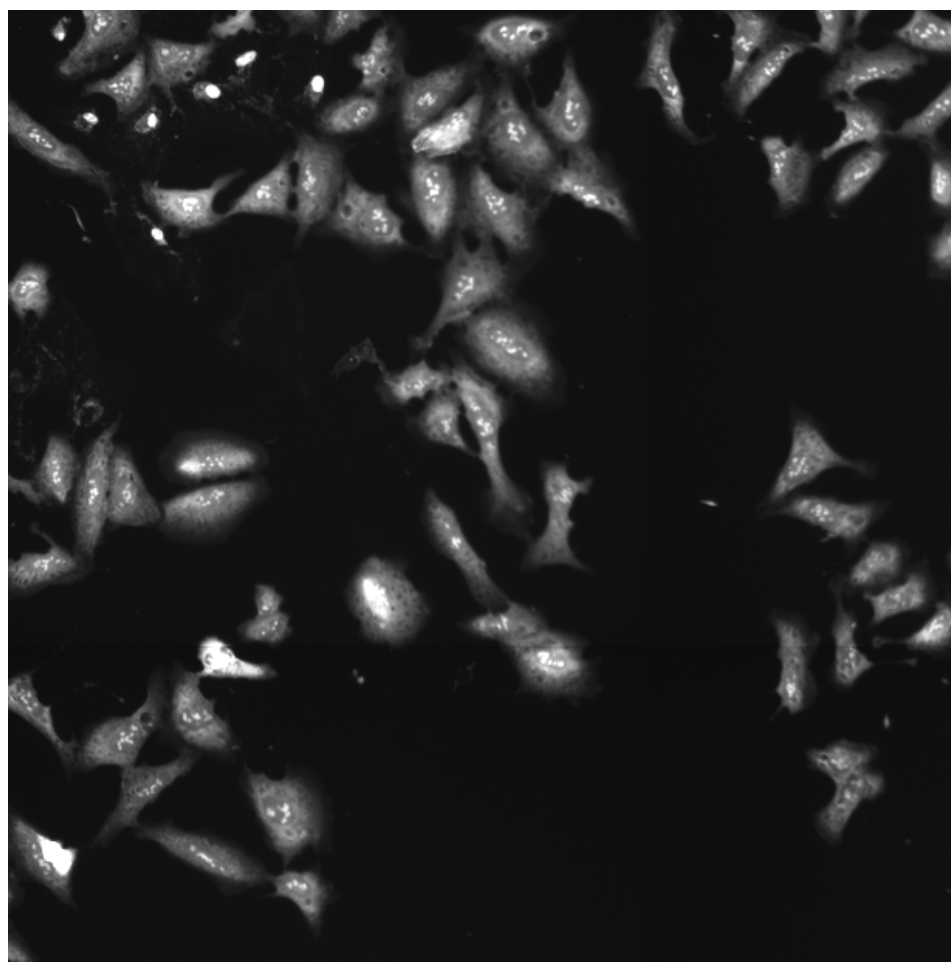
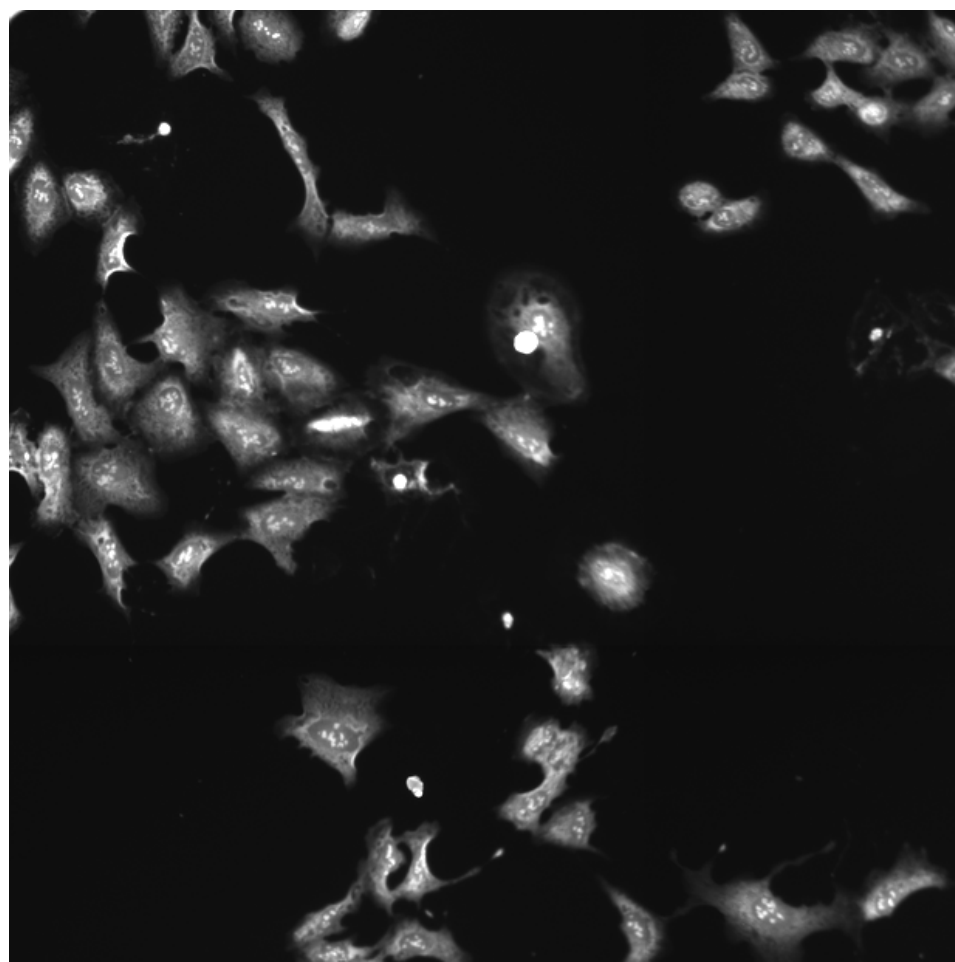
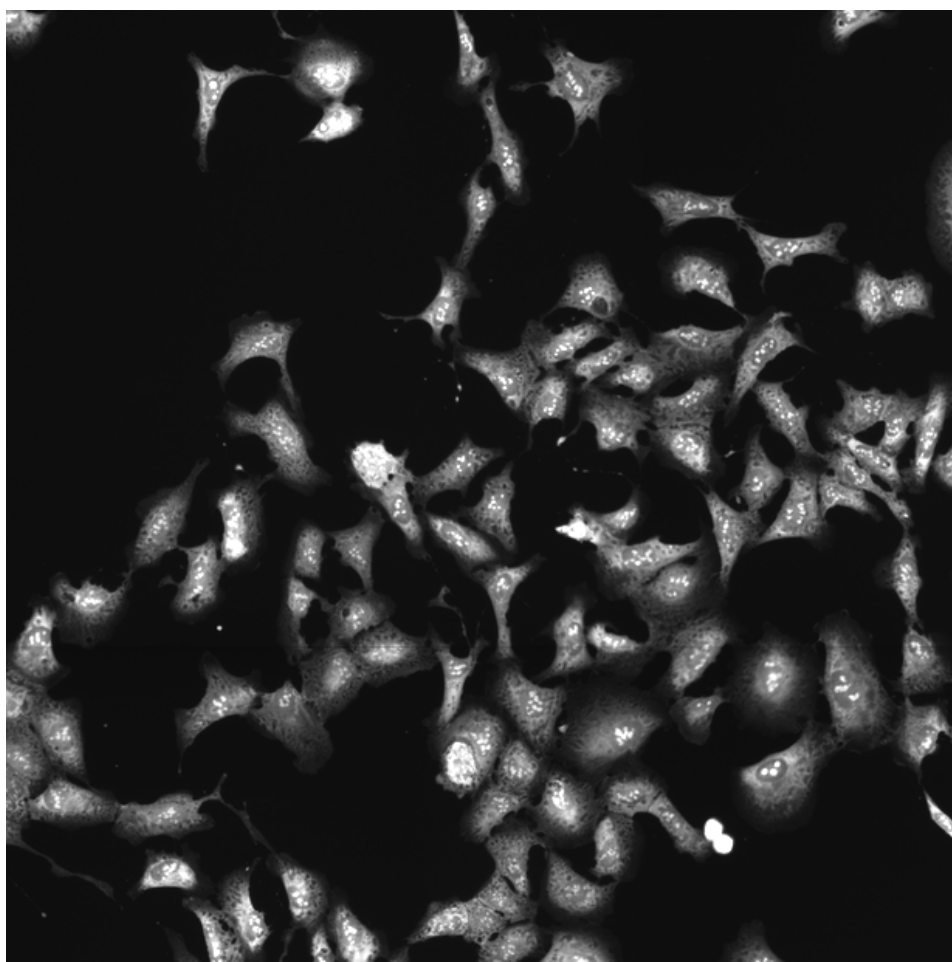
DLL1.WT (41755)

DLL1.WT (41756)

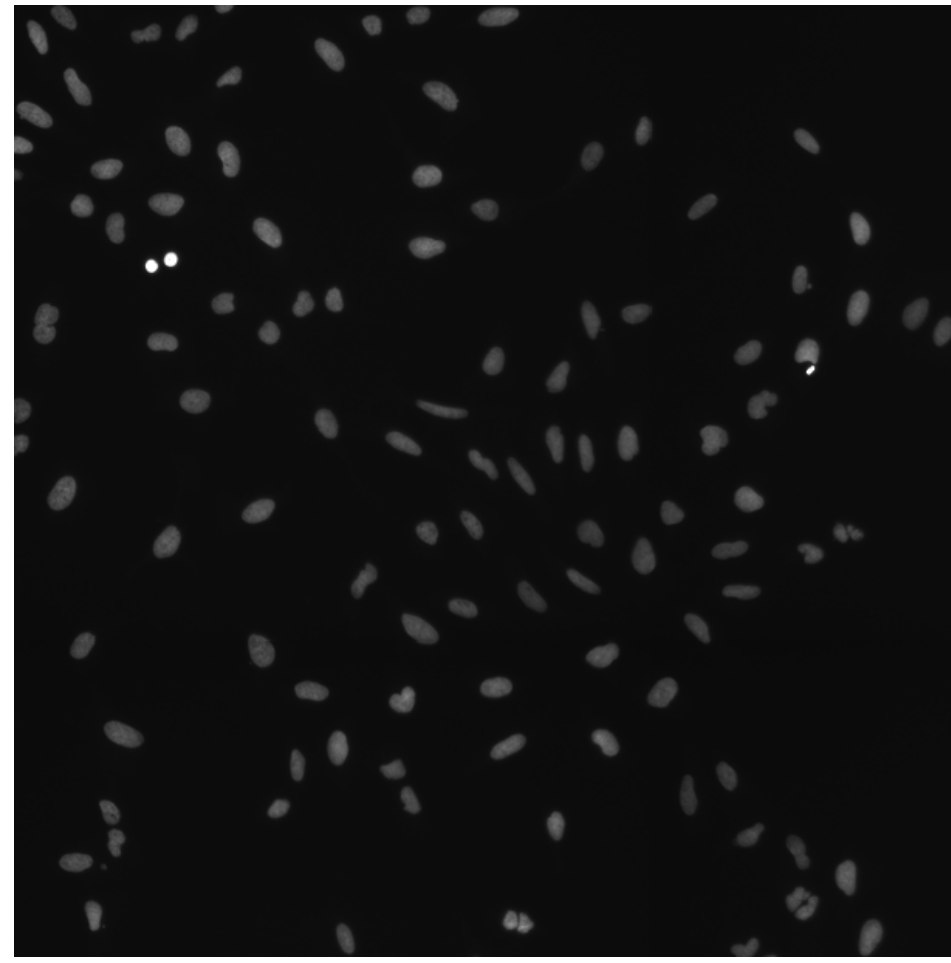
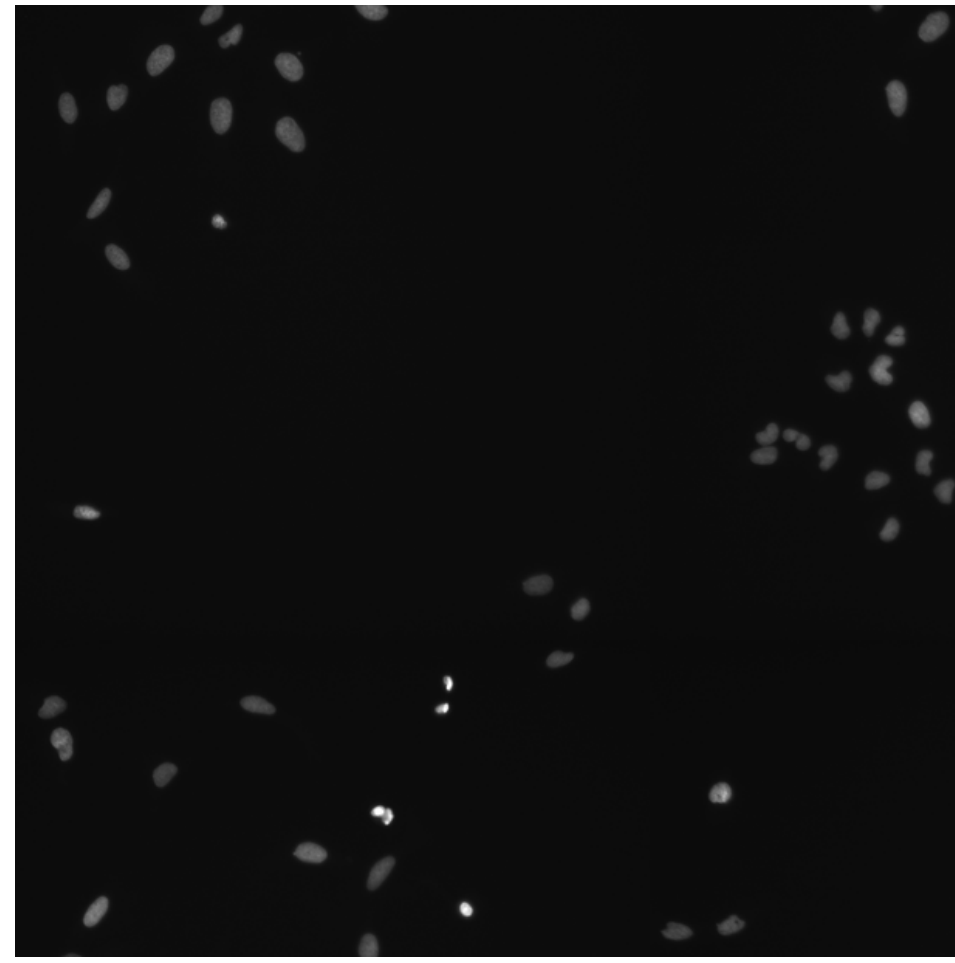
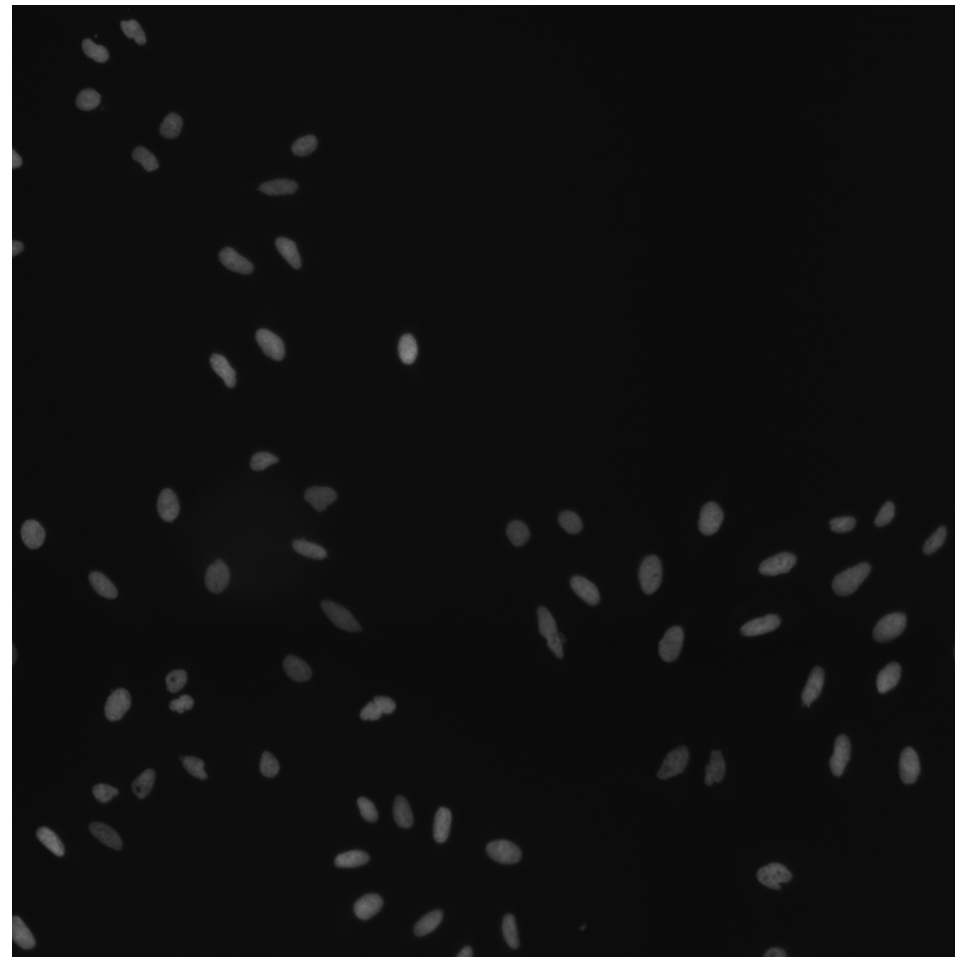
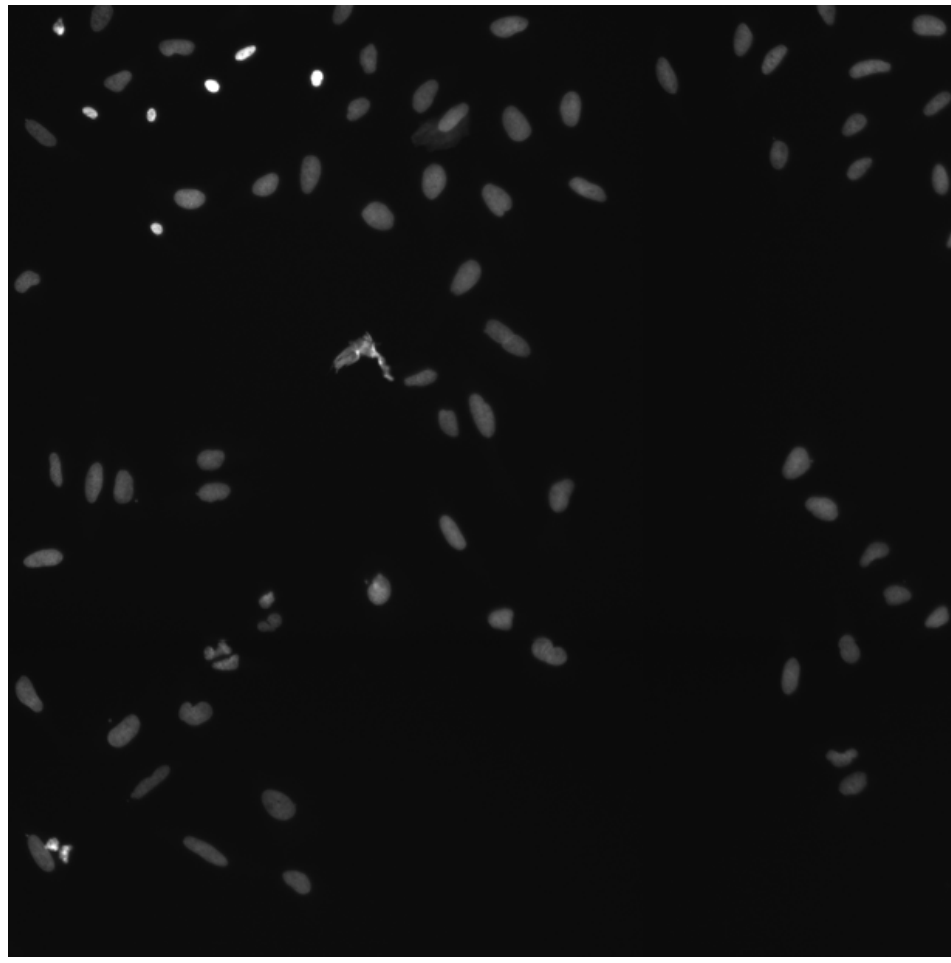
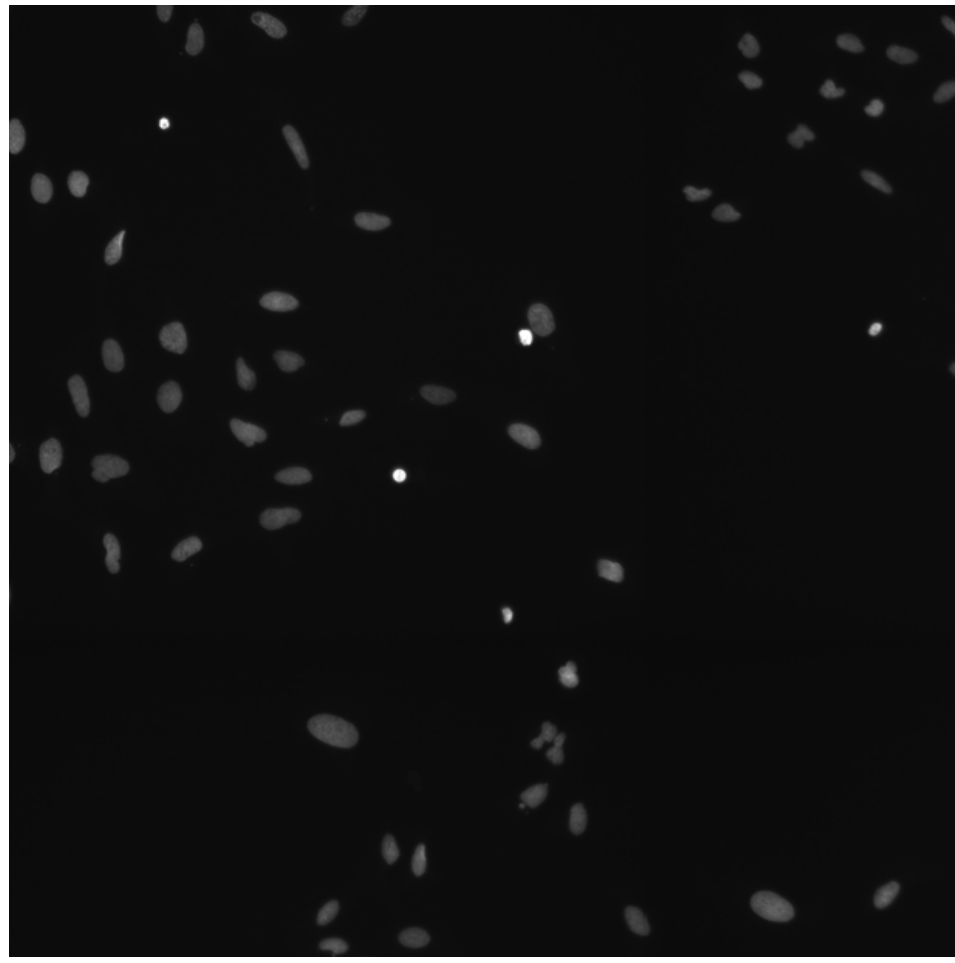
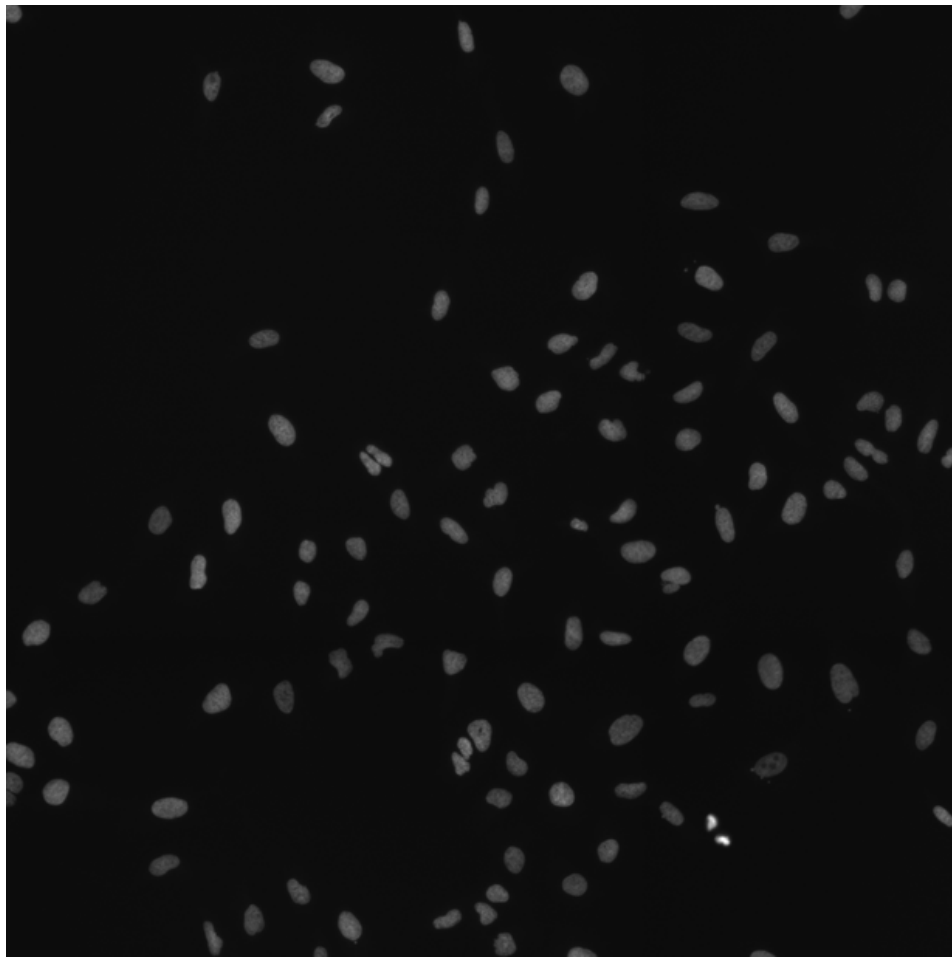
DLL1.WT (41757)

DLL1.WT (41754)

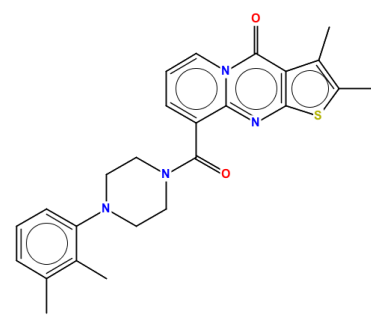
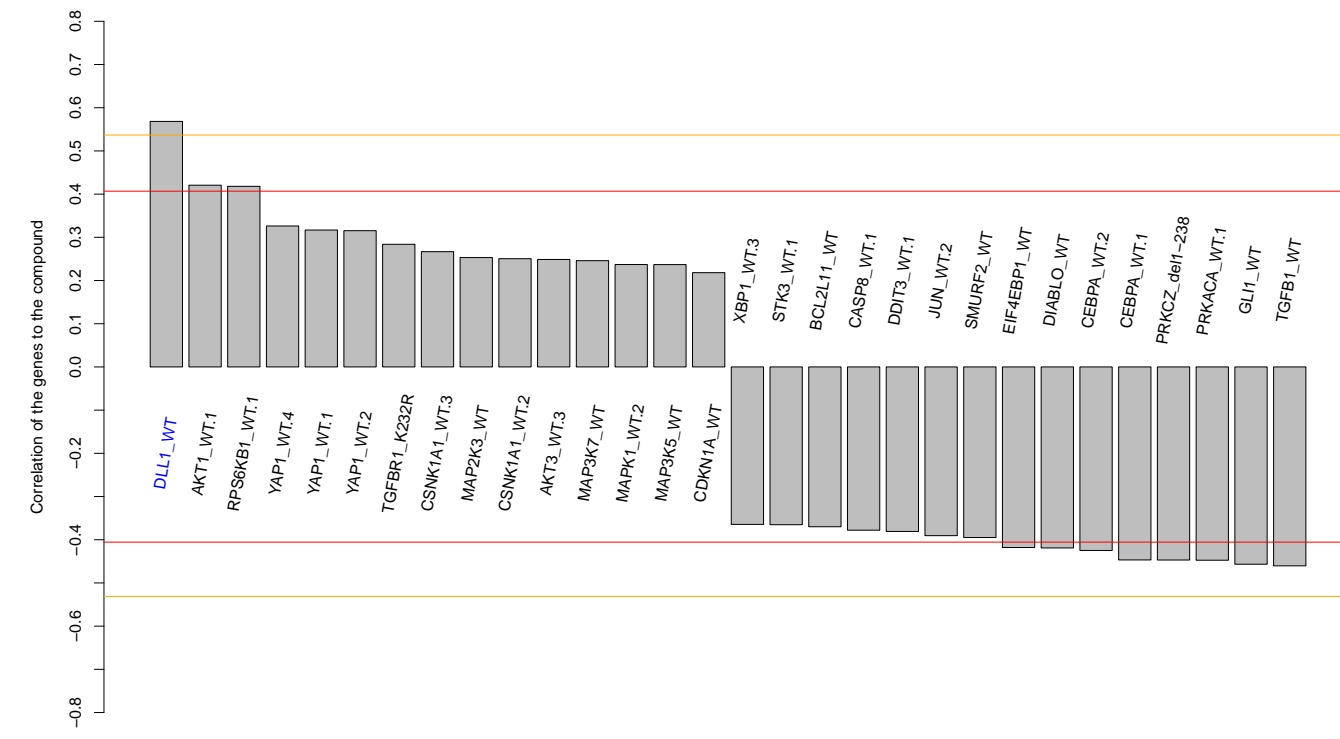
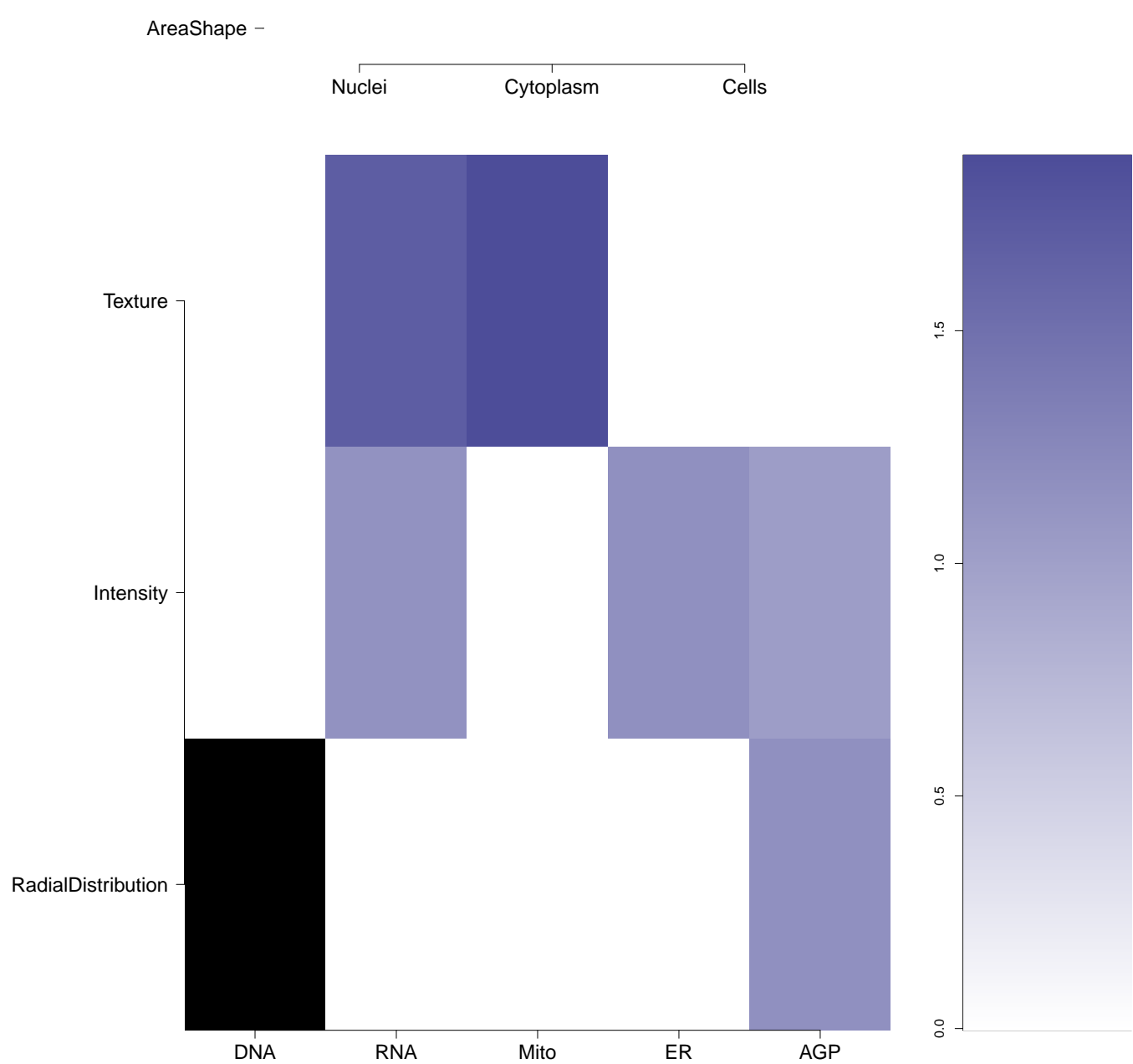

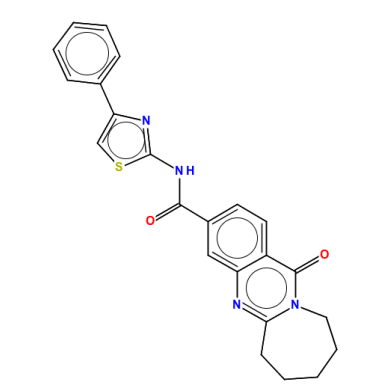
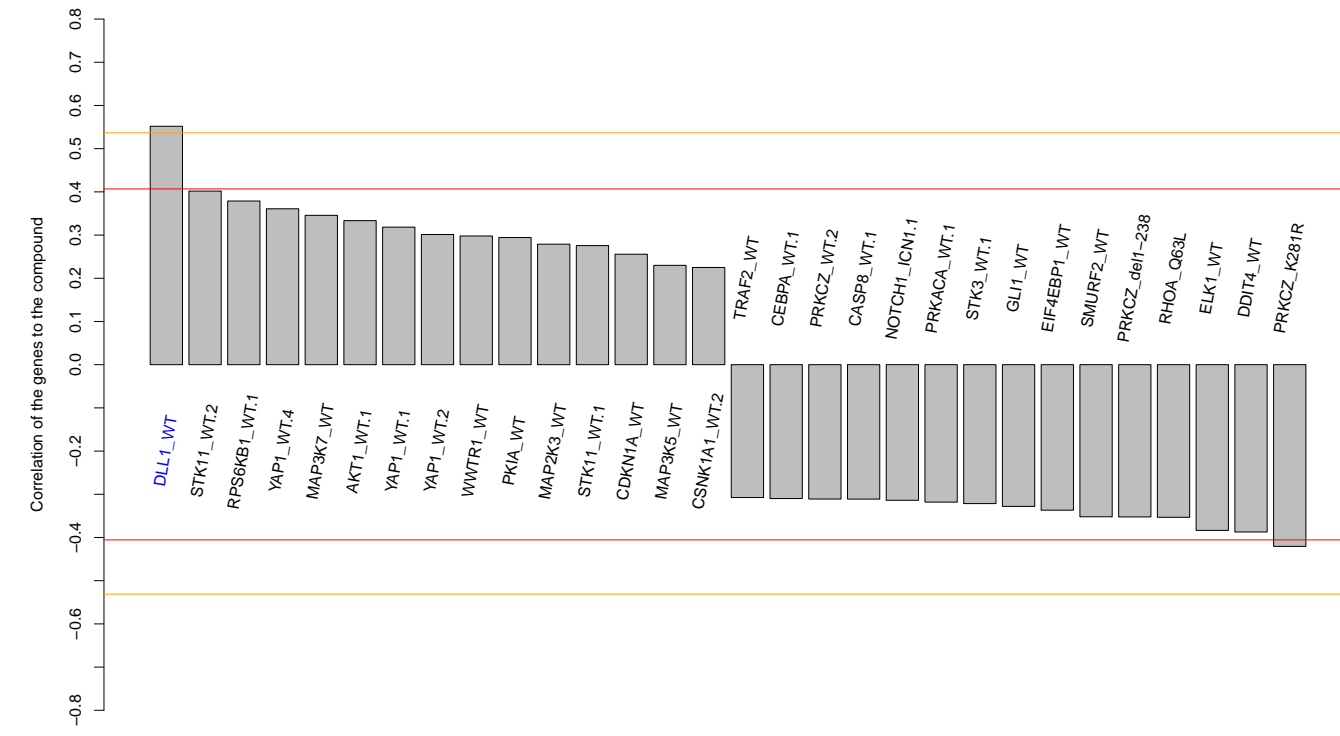
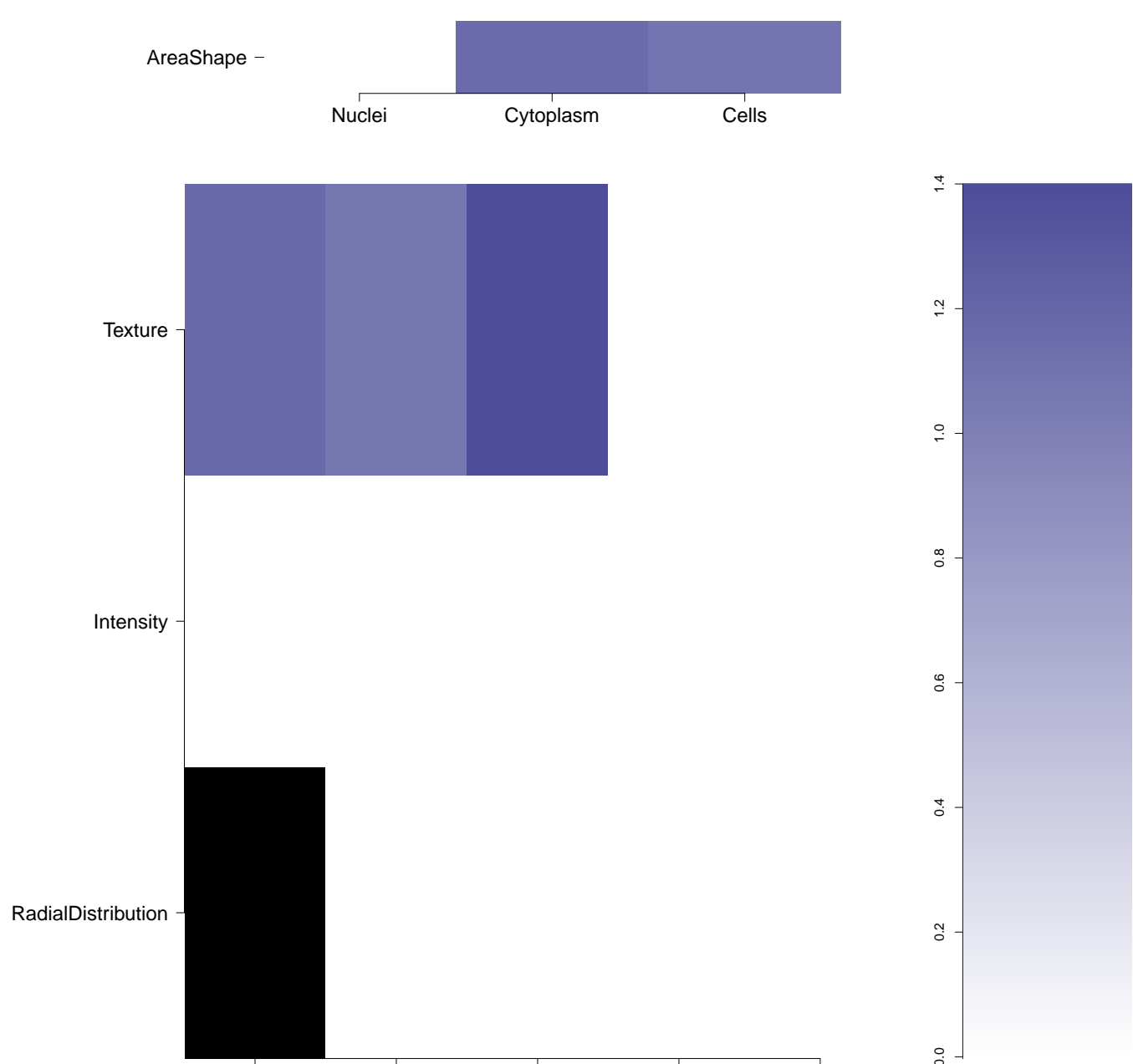
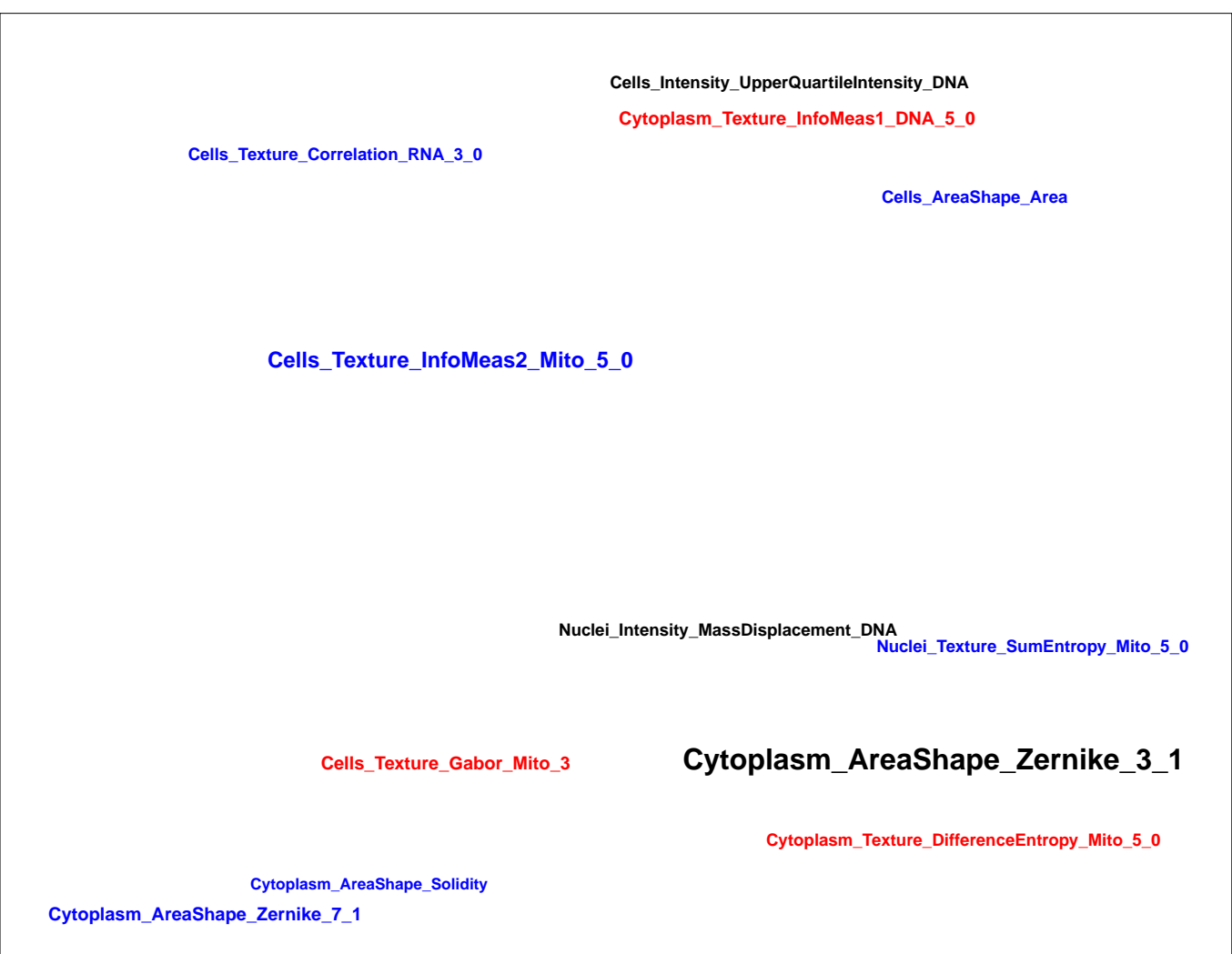
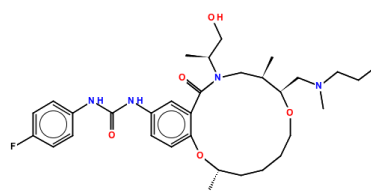
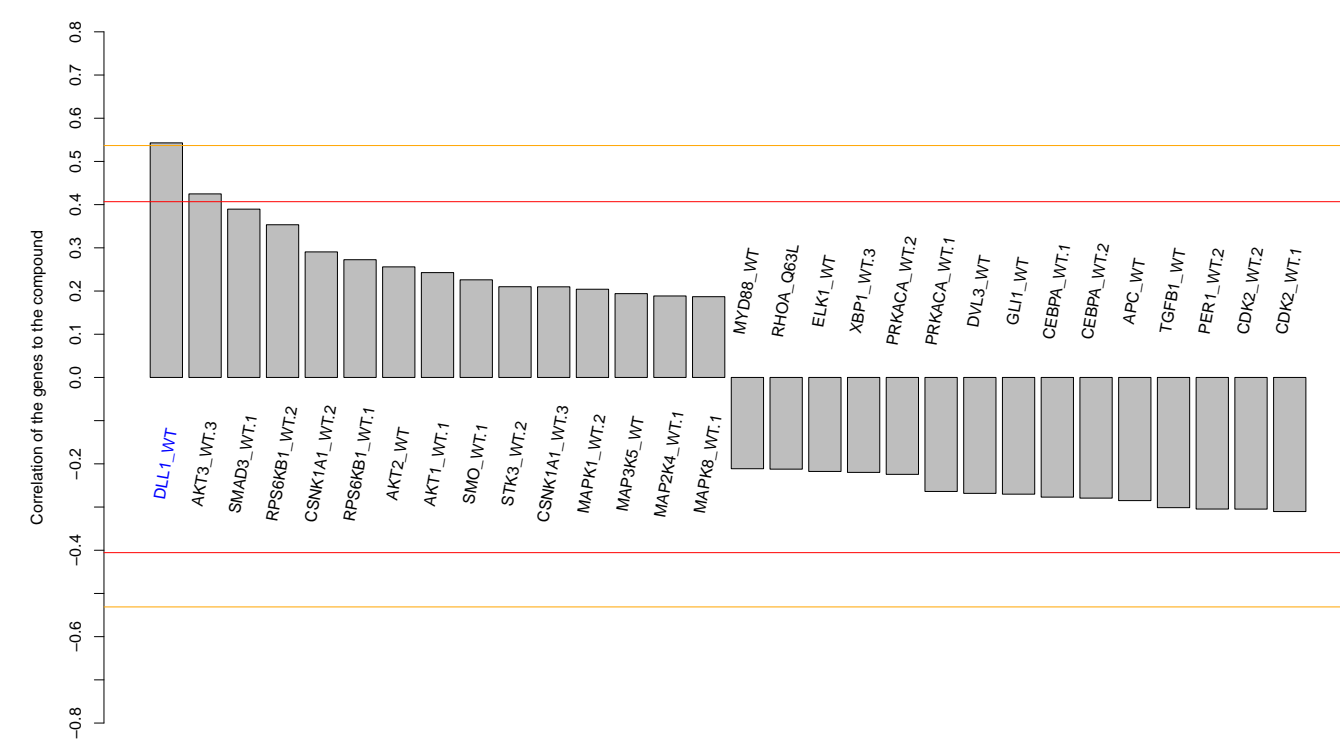
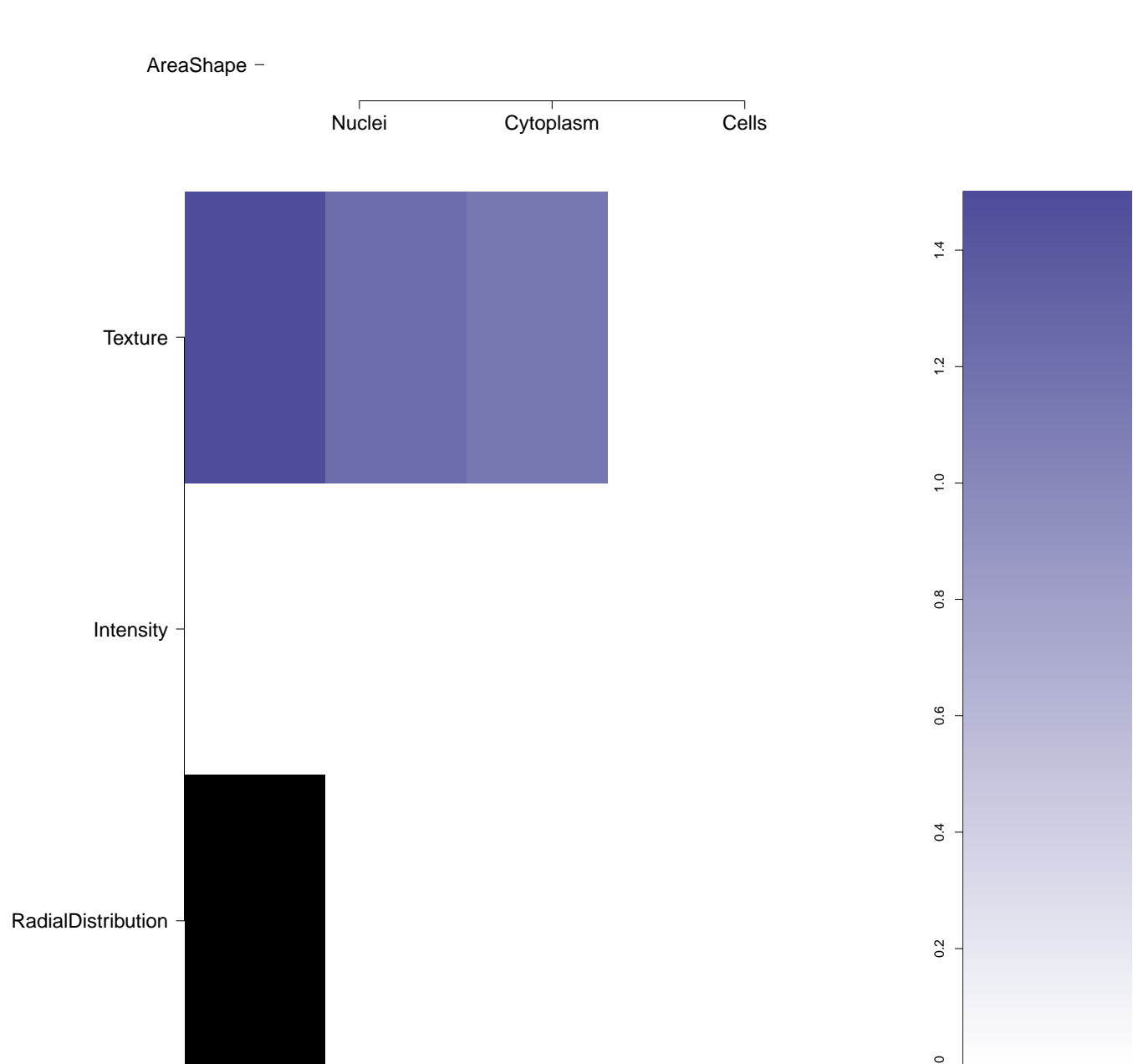
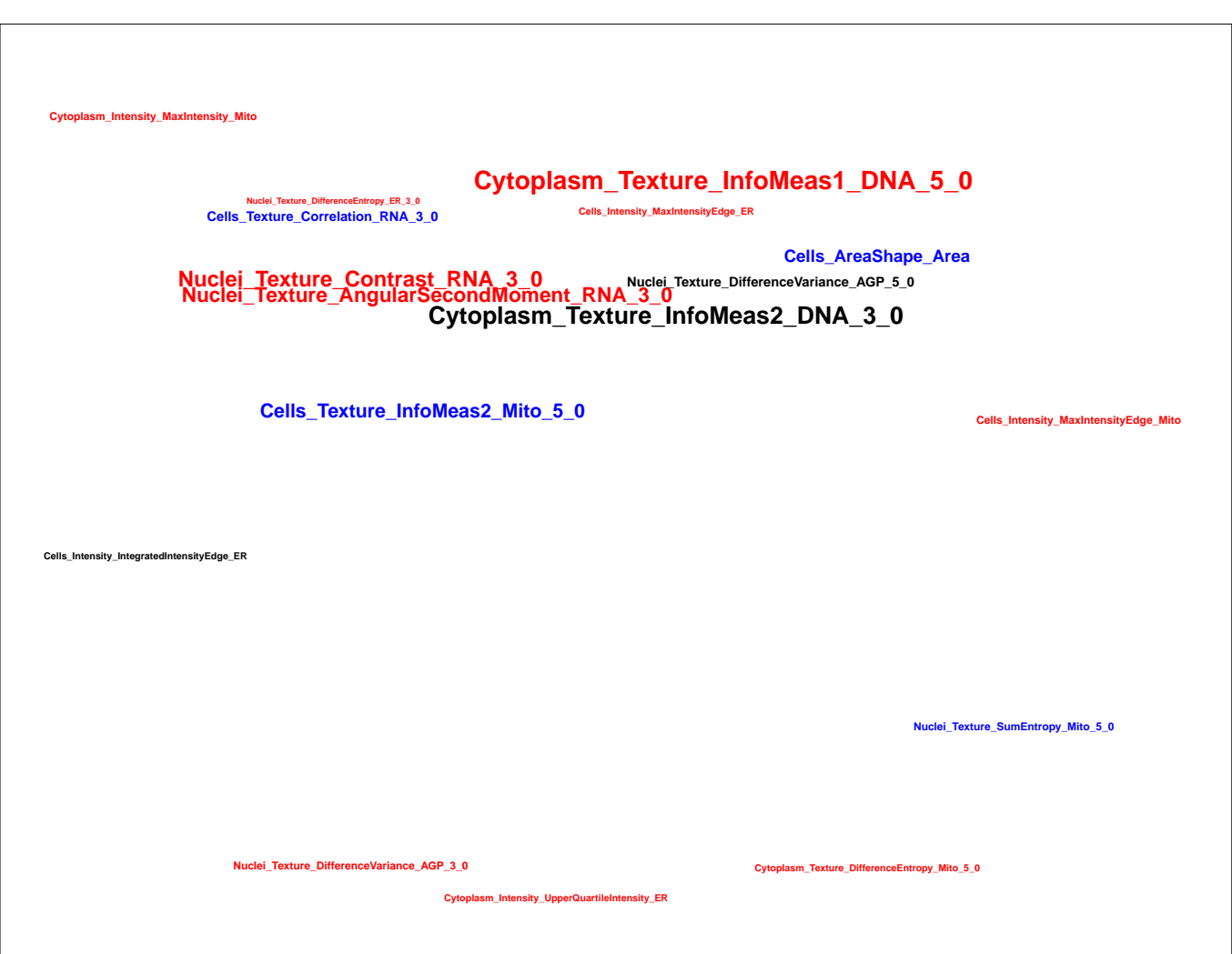
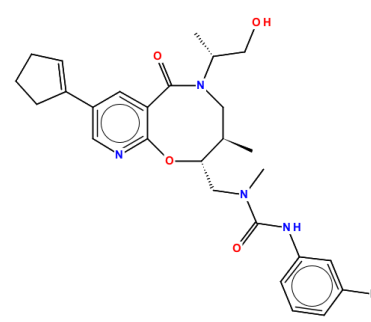
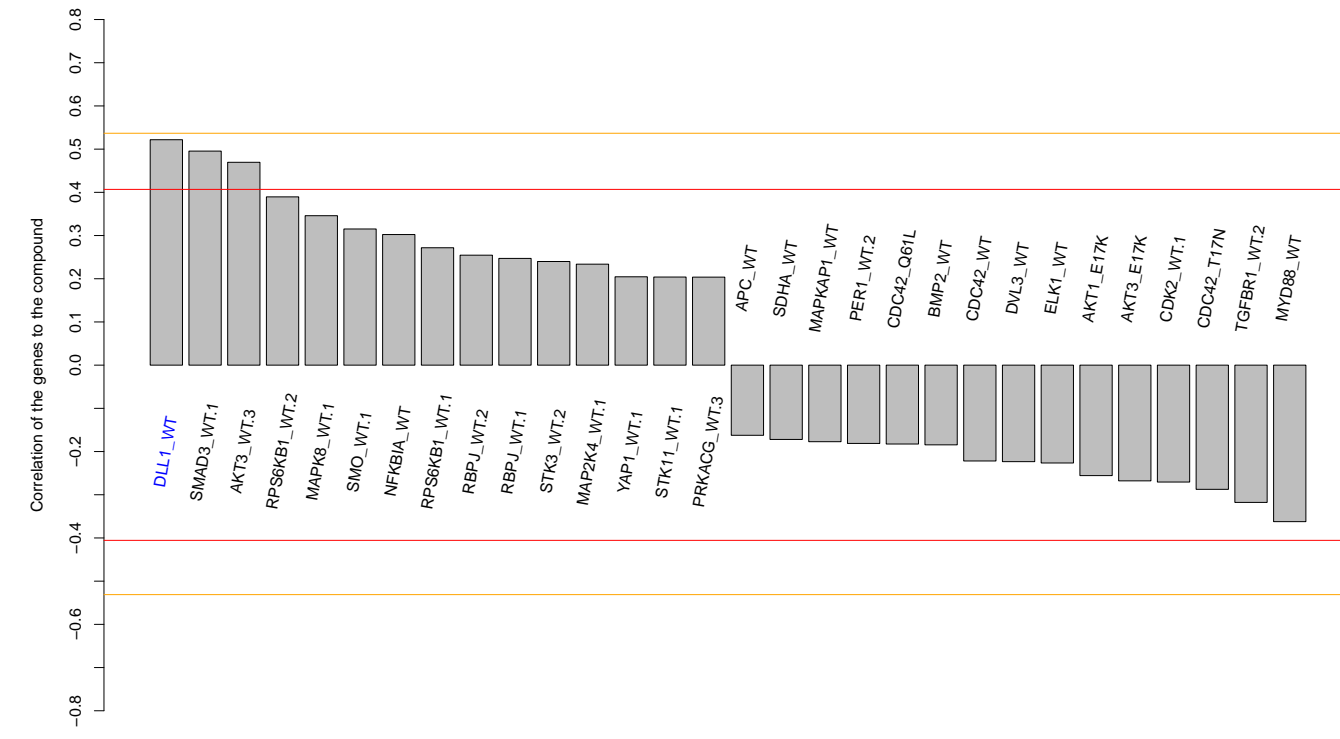
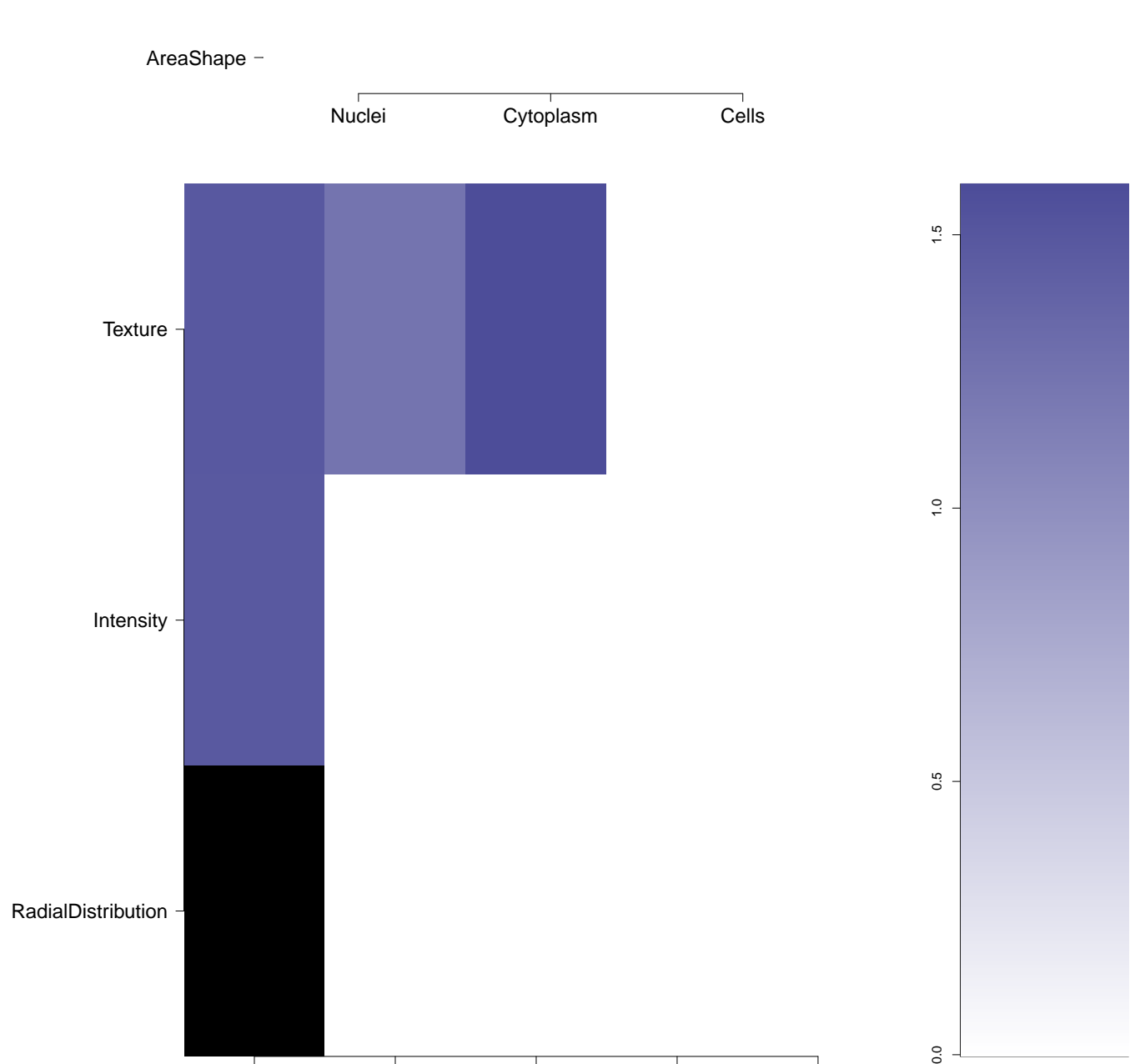
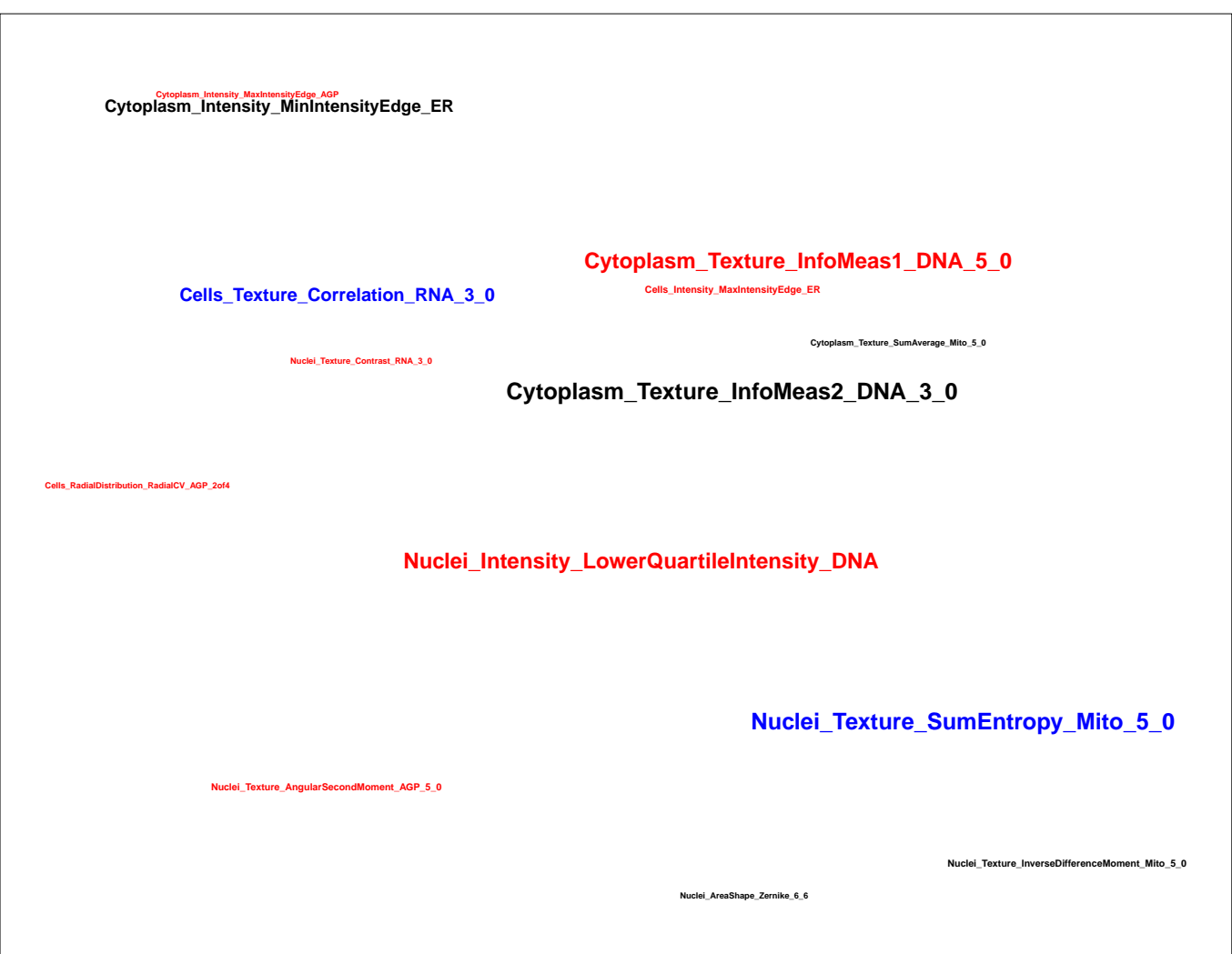
RNA



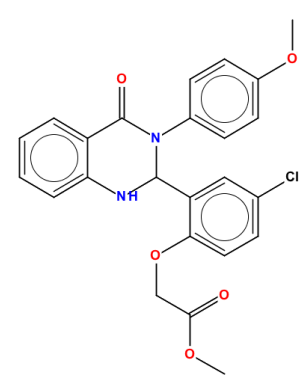
DNA



Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.52)	Correlation between compound the gene	Compound rank when scored against the gene using L1000 profiling	How similar is the compound signature to the genes in this experiment? (Yellow and red lines correspond to top/bottom 1st and 5th percentile DMSO correlation to all the genes)	Common distinguishing feature categories in the compound and the gene relative to the untreated samples	Distinguishing individual features for the compound relative to untreated samples. Black means a mismatch; i.e. active (= high z-score in magnitude) in the compound, and either inactive (= small z-score in magnitude) or oppositely active in the gene	Number of PubChem assays in which the compound was tested; assays in which the compound was active are itemized
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<p>BRD-K88861635-001-05-7</p> <p>SMR000130365</p> <p>MLS000519950</p> <p>MLS002586191</p> <p>HMS2375B08</p> <p>ZINC4767701</p> <p>PubChem CID : 9550247</p>		<p>NA (in 1 replicates)</p>	<p>0.57</p>	<p>NA</p>				<p>Total number of assays tested in: 673. Active in the following assays:</p> <ul style="list-style-type: none"> • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • 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)
<p>BRD-K02458322-001-06-1</p> <p>ZINC03226122</p> <p>MLS000390934</p> <p>AC1M693S</p> <p>HMS2591M11</p> <p>ZINC3226122</p> <p>SMR000259971</p> <p>T0507-7906</p> <p>PubChem CID : 2344311</p>		<p>NA (in 1 replicates)</p>	<p>0.55</p>	<p>NA</p>				<p>Total number of assays tested in: 658. Active in the following assays:</p> <ul style="list-style-type: none"> • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • nHTS luminescence assay for the identification of compounds that inhibit NOD2 (AID 1566) • nHTS luminescence assay for the identification of compounds that inhibit NOD1 (AID 1578) • HTS assay for identification of inhibitors of TNF-α-specific NF-κB induction (AID 1852) • FRET-based cell-based primary high throughput screening assay to identify antagonists of the orexin 1 receptor (OX1R; HCRTR1) (AID 485270) • Activator for delta FosB/delta FosB homodimer Measured in Biochemical System Using Plate Reader - 2072-01 Activator SinglePoint.HTS Activity (AID 493131) • Nf2 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) • Antagonists of the Thyroid Stimulating Hormone Receptor: HTS campaign (AID 504810) • Inverse Agonists of the Thyroid Stimulating Hormone Receptor: HTS campaign (AID 504812) • qHTS profiling assay for firefly luciferase inhibitor/activator using purified enzyme and Km 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 inhibit/block calcium-activated chloride channels (TMEM16A) (AID 588511) • Identification of compounds that antagonize MrgX1 receptor signaling (AID 588676) • Counterscreen for inhibitors of the Steroid Receptor Coactivator 3 (SRC3; NCOA3): Luminescence-based cell-based high throughput assay to identify inhibitors of the Herpes Virus Varion Protein 16 (VP16) (AID 588794) • Counterscreen for inhibitors of the Steroid Receptor Coactivator 1 (SRC1; NCOA1): Luminescence-based cell-based high throughput assay to identify inhibitors of the Herpes Virus Varion Protein 16 (VP16). (AID 588824) • Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human M1 muscarinic receptor (CHRM1) (AID 588852) • nHTS identification of small molecule inhibitors of the thioesterase domain of fatty acid synthase via a fluorescence intensity assay (AID 602261) • qHTS for antagonists of the Thyroid Stimulation Hormone Receptor: Hit Validation in Primary Screen (AID 602292) • Re-confirmation screening for identification of compounds that antagonize MrgX1 receptor signaling (AID 602420) • qHTS for Antagonists of gsp, the Etiologic Mutation Responsible for Fibrous Dysplasia/McCune-Albright Syndrome: qHTS (AID 624288) • A quantitative high throughput screen for small molecules that induce DNA re-replication in MCF 10a normal breast cells. (AID 624296) • 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 MLPEN Compound Library (AID 651702) • qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820) • Flow Cytometric HTS Screening for Inhibitors of Lytic Granule Exocytosis with compounds from Cherry Pick01 (AID 651954) • 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) • High Throughput Screening for Foot and Mouth Disease Virus Antivirals (AID 1159524)
<p>BRD-K95675012-001-01-4</p> <p>PubChem CID : 44617117</p>		<p>0.60 (in 4 replicates)</p>	<p>0.54</p>	<p>0.970</p>				<p>Total number of assays tested in: 22.</p>
<p>BRD-K38557256-001-01-9</p> <p>PubChem CID : 54619058</p>		<p>0.70 (in 4 replicates)</p>	<p>0.52</p>	<p>0.670</p>				<p>Total number of assays tested in: 36.</p>

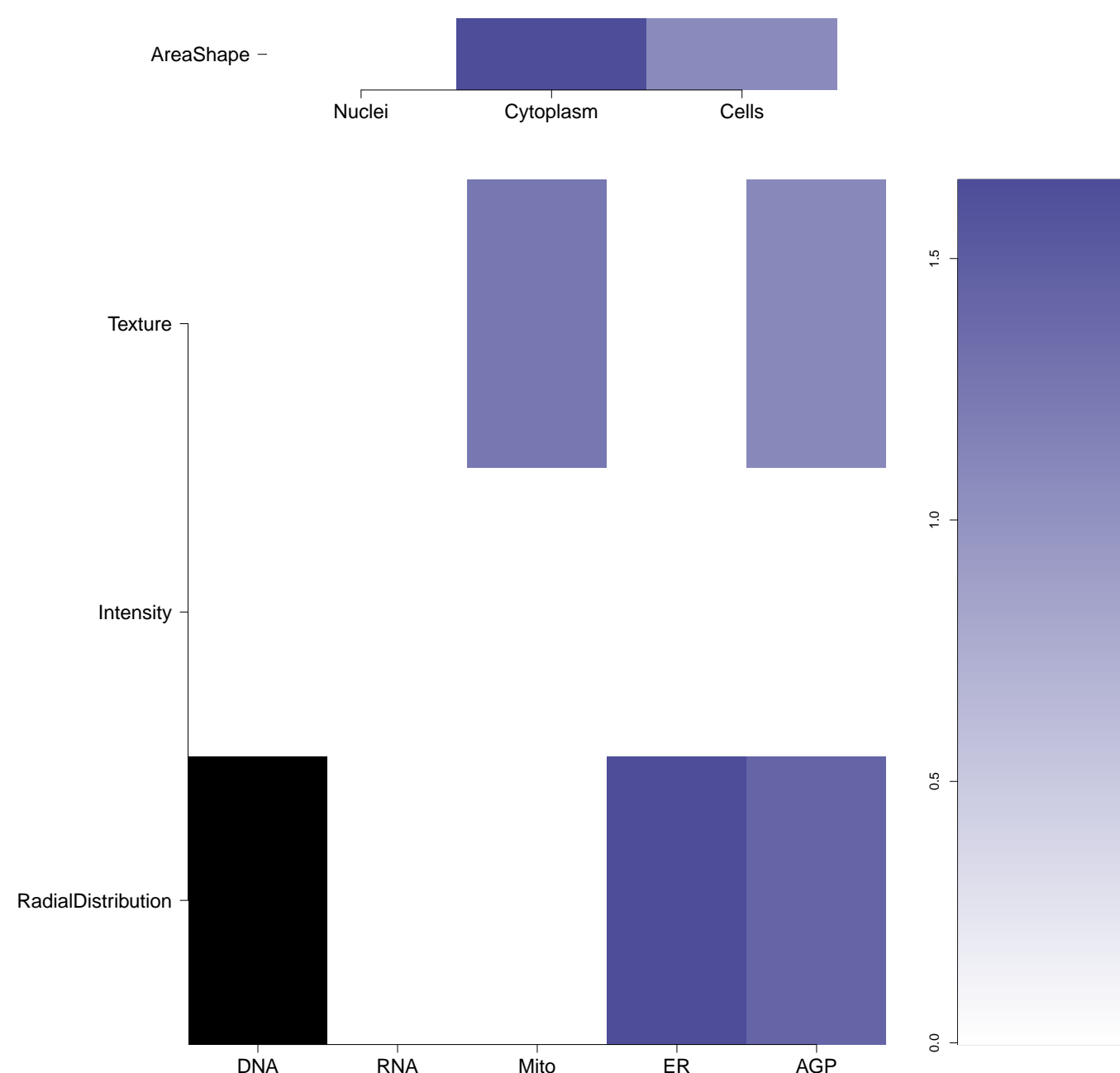
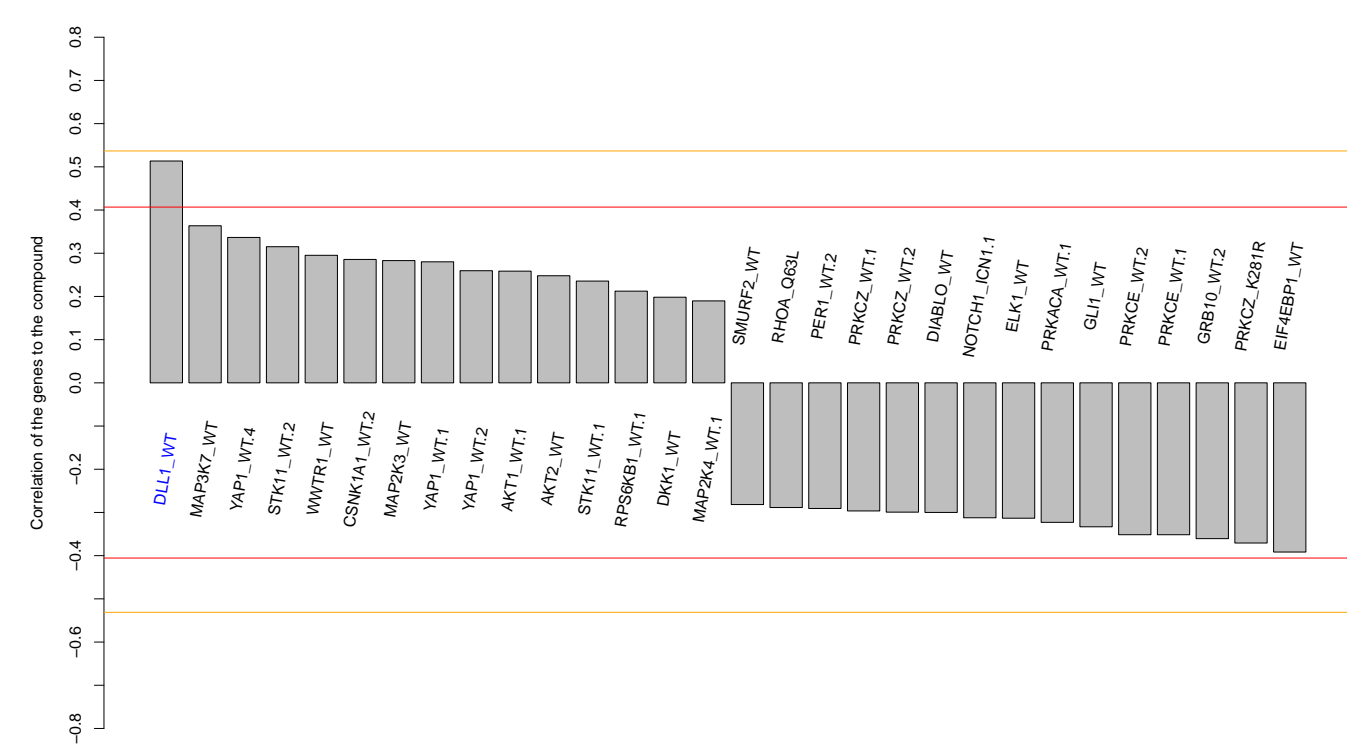
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NA (in 1 replicates)

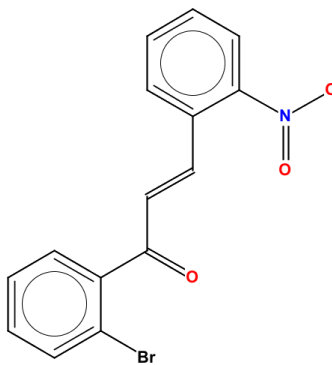
0.51

NA



- Total number of assays tested in: 683. Active in the following assays:
 - CYP2C9 Assay (AID 777)
 - HTS Assay for Antagonists of the Neurotrophin-3 Receptor: cAMP Signaling Transduction (AID 1461)
 - MLPCN Alpha-Synuclein 5'UTR - 5'UTR binding - activators (AID 1814)
 - Cytochrome panel assay with activity outcomes (AID 1851)
 - Primary cell-based screen for identification of compounds that inhibit the two-pore domain potassium channel KCNK9 (AID 488922)
 - Fluorescence polarization to screen for inhibitor that compete the binding of Ptd28 to bisulastate Measured in Biochemical System Using Plate Reader - 2147-01 Inhibitor SinglePoint HTS Activity (AID 651638)
 - Confirmation assay for identification of compounds that inhibit the two-pore domain potassium channel KCNK3 (Primary Screening) (AID 651638)
 - Counter screen assay for identification of compounds that inhibit the two-pore domain potassium channel KCNK3 (Primary Screening) in non-induced KCNK3 cells (AID 651747)
 - HTS for Bacterial rRNA inhibitors Measured in Microorganism-Based System Using Plate Reader - 7056-01 Inhibitor SinglePoint HTS Activity (AID 720706)

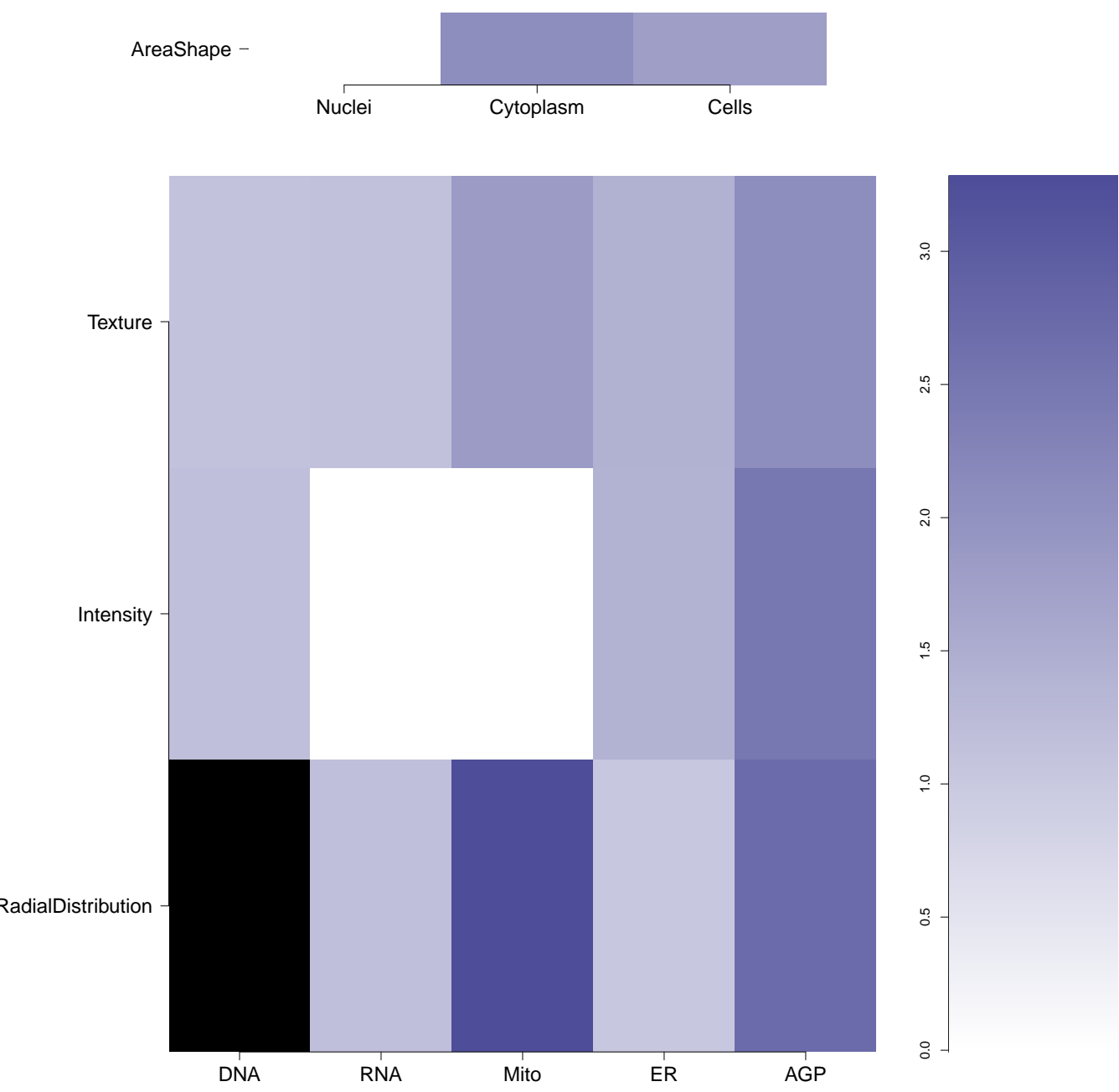
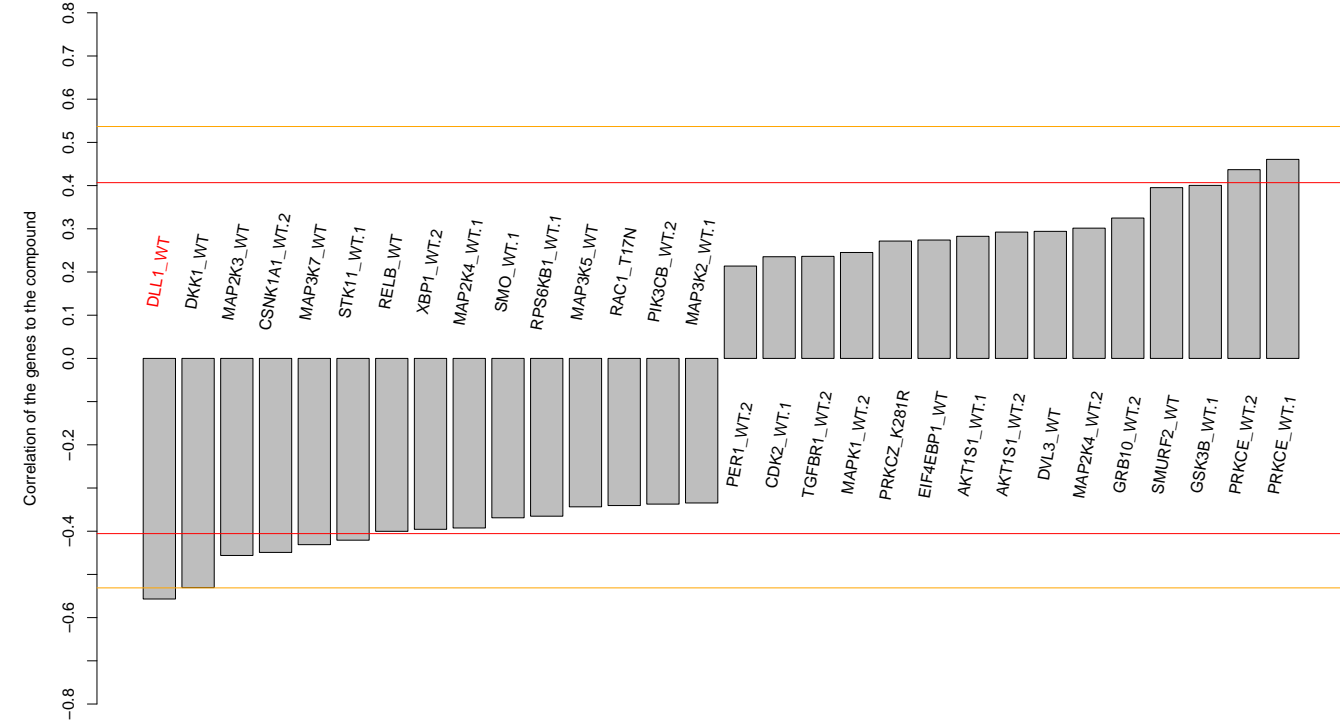
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NA (in 1 replicates)

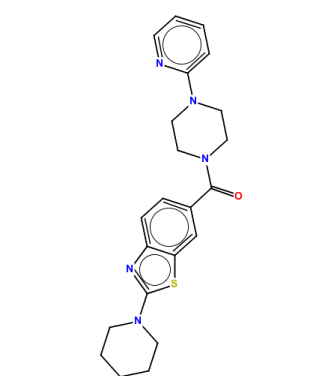
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NA



- Total number of assays tested in: 665. Active in the following assays:
- Leishmania major promastigote HTS (AID 1063)
 - Chemical Genetic Screen to Identify Inhibitors of Mitochondrial Fusion - Primary Screen (AID 1362)
 - Primary Cell-Based Assay to Identify Antagonists of the Sphingosine 1-Phosphate Receptor 4 (S1P4) (AID 1510)
 - Confirmation cell-based high throughput assay for antagonists of the Sphingosine 1-Phosphate Receptor 4 (S1P4) (AID 1524)
 - MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814)
 - High throughput discovery of novel modulators of ROMK K+ channel activity: Retest of Primary Hits (AID 1917)
 - High throughput discovery of novel modulators of ROMK K+ channel activity: Primary Screen (AID 1918)
 - Multiplex HTS Screen of TOR pathway GFP-fusion proteins in Saccharomyces cerevisiae specifically: LAP4:MLPCN (AID 2023)
 - HCS assay for microtubule stabilizers (AID 2205)
 - Multiplex HTS Screen of TOR pathway GFP-fusion proteins in Saccharomyces cerevisiae specifically: LAP4 Cherry Pick Compounds (AID 2271)
 - Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)
 - A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315)
 - Luminescence Cell-Based Primary HTS to Identify Inhibitors of Cancer Stem Cells (AID 2717)
 - High throughput discovery of novel modulators of ROMK K+ channel activity: Dose-Response Assay (AID 2753)
 - 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)
 - 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 tim10-1 yeast via a luminescent assay (AID 463213)
 - 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)
 - nHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346)
 - qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)
 - qHTS Assay for Inhibitors of BAZ2B (AID 504333)
 - qHTS Assay for Inhibitors of JMJD2A-Tudor Domain (AID 504339)
 - Heat Shock Factor-1 (HSF-1) Measured in Cell-Based System Using Plate Reader - 2038-01 Activator.SinglePoint.HTS.Activity (AID 504408)
 - Nrf2 qHTS screen for inhibitors (AID 504444)
 - HTS for Beta-2AR agonists via FAP method (AID 504454)
 - In vivo-based yeast HTS to detect compounds rescuing yeast growth/survival of Plasmodium falciparum HSP40-mediated toxicity Measured in Whole Organism System Using Plate Reader - 2120-01 Inhibitor.SinglePoint.HTS.Activity (AID 504582)
 - Anti-Malarial Hsp90 Inhibitors Measured in Microorganism System Using Plate Reader - 2121-01 Inhibitor.SinglePoint.HTS.Activity.Set2 (AID 504621)
 - Inhibitors of the vitamin D receptor (VDR): qHTS (AID 504847)
 - Anti-Malarial Hsp90 Inhibitors Measured in Microorganism System Using Plate Reader - 2121-01 Inhibitor.Dose.CherryPick.Activity (AID 540268)
 - Anti-Malarial Hsp90 Counterscreen Measured in Microorganism System Using Plate Reader - 2121-02 Inhibitor.Dose.CherryPick.Activity (AID 540270)
 - Luminescence-based cell-based primary high throughput screening assay to identify activators of the GAA850 frataxin (FXN) promoter (AID 540364)
 - Counterscreen for activators of the GAA850 frataxin promoter: luminescence-based cell-based high throughput screening assay to identify activators of the GAA30 frataxin promoter (AID 588350)
 - Luminescence-based cell-based high throughput confirmation assay for activators of the GAA850 frataxin (FXN) promoter (AID 588351)
 - HTS Assay for Peg3 Promoter Inhibitors (AID 588405)
 - qHTS for Inhibitors of the vitamin D receptor (VDR): Hit Validation in Primary Screen (AID 602199)
 - 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)
 - Luminescence-based biochemical high throughput confirmation assay for inhibitors of the interaction of the lipase co-activator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5) (AID 651612)
 - qHTS Assay for Inhibitors of the HIV-1 protein Vpr (AID 651644)
 - Luminescence Cell-Based Primary HTS to identify inhibitors of the oncoprotein EWS/Flt transcriptional activity Measured in Cell-Based System Using Plate Reader - 7014-01 Inhibitor.SinglePoint.HTS.Activity (AID 651661)
 - Counterscreen for inhibitors of the interaction of the lipase co-activator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5): Luminescence-based biochemical high throughput assay to identify inhibitors of Hepatocyte nuclear factor 4 (HNF4) dimerization (AID 651674)
 - 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)
 - qHTS for induction of synthetic lethality in tumor cells producing 2HG: qHTS for the HT-1080-1DH1KD cell line (AID 686971)
 - qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)
 - qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979)
 - qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279)

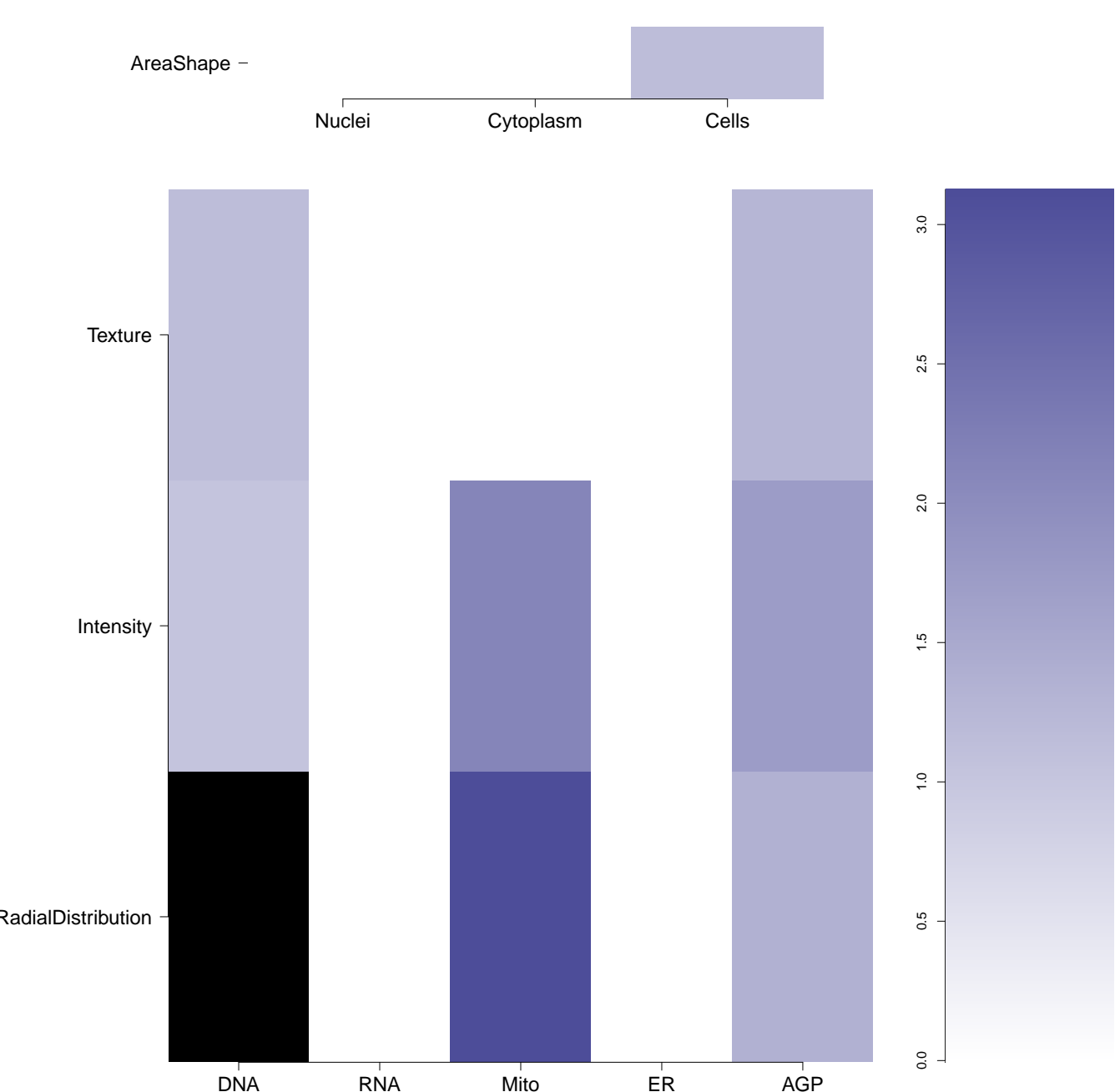
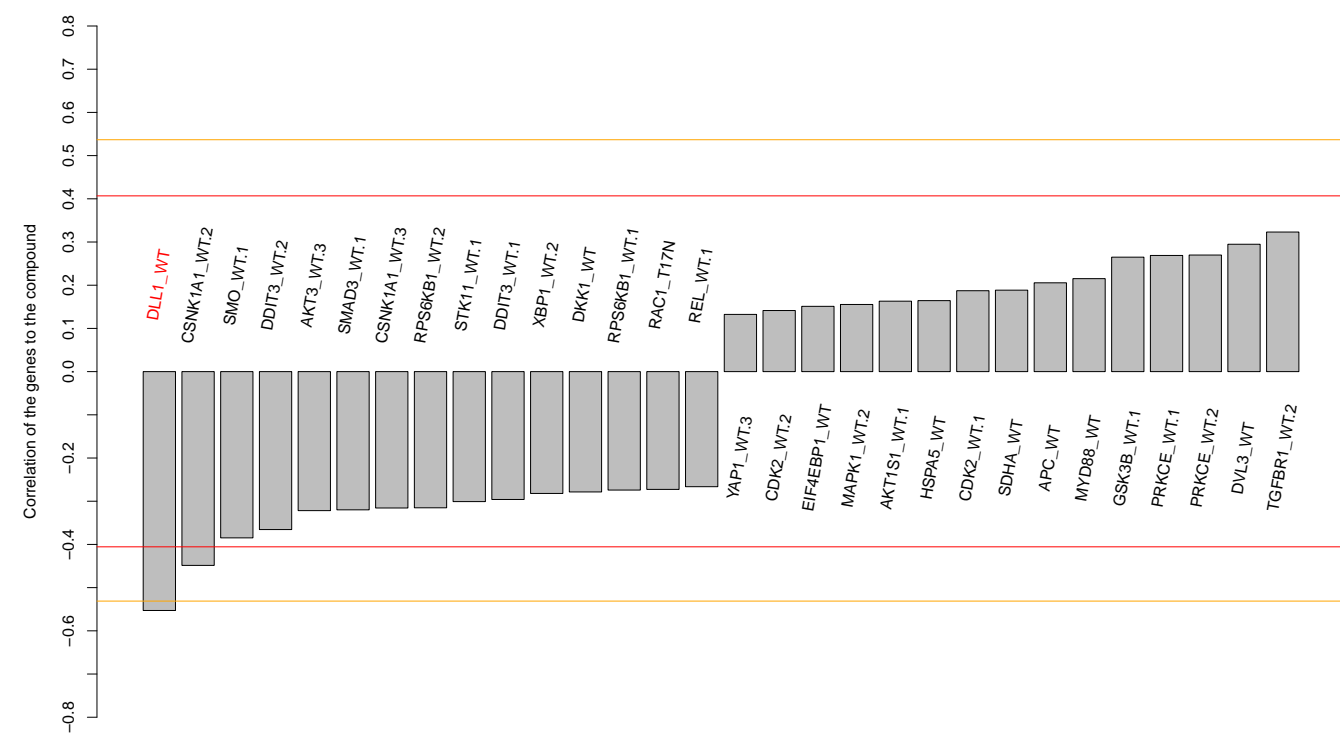
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ZINC5144913
PubChem CID : 5308255



NA (in 1 replicates)

-0.55

NA

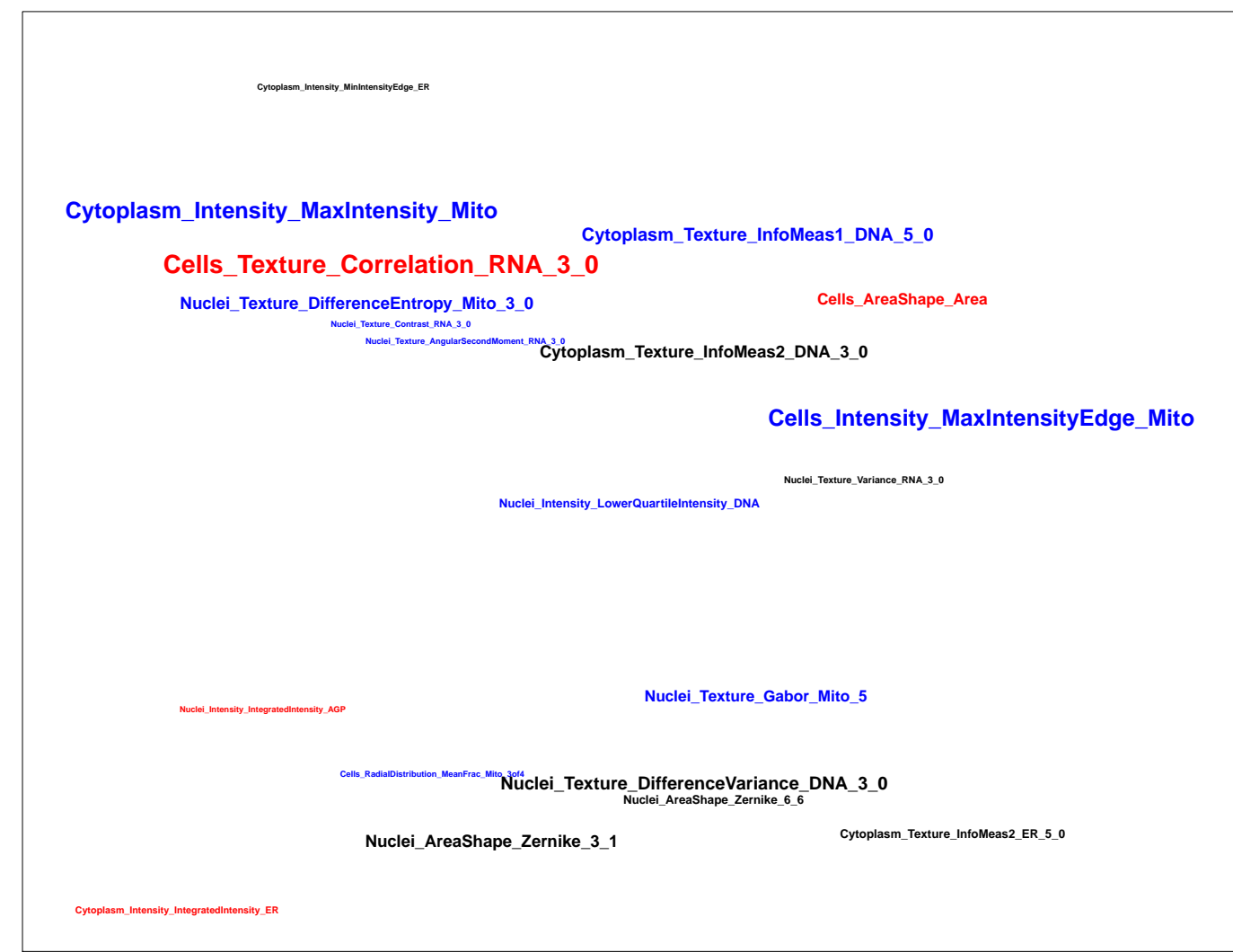
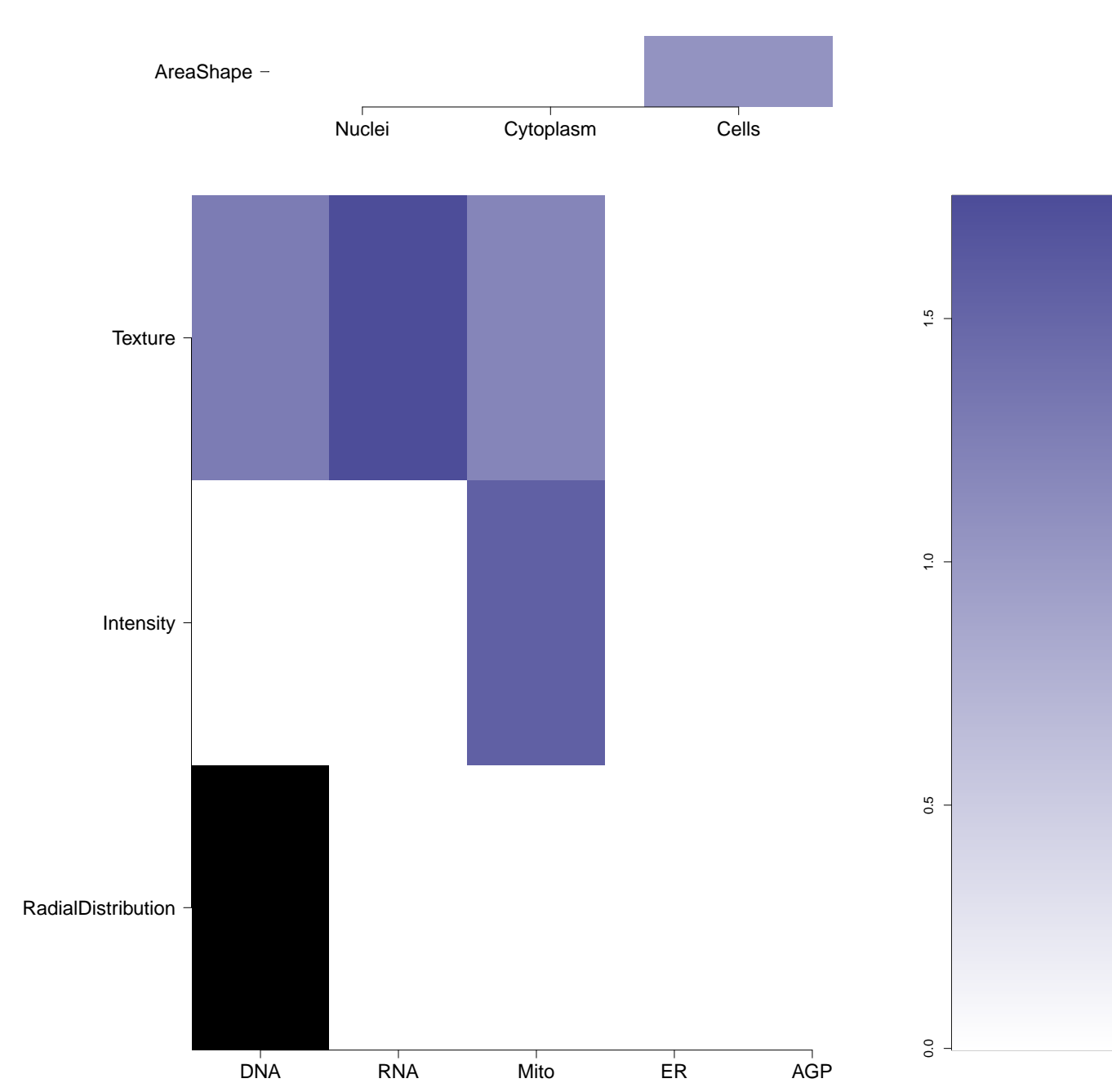
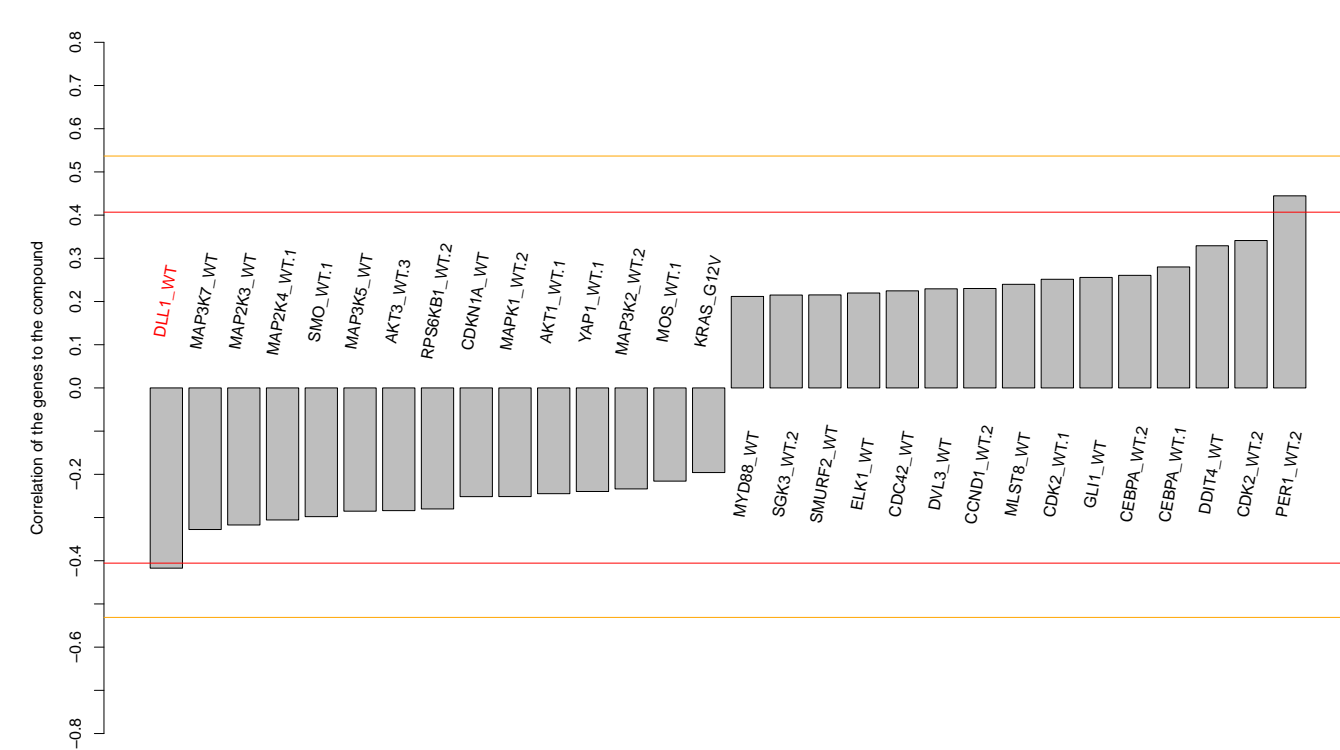


- Total number of assays tested in: 678. Active in the following assays:
- qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030)
 - MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814)
 - Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)
 - nHTS identification of small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 463190)
 - Single concentration confirmation of small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 463213)
 - Dose Response confirmation of nHTS small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 493003)
 - qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)

Clc1cc(NC(=O)Nc2cccnc2)ccc1Cl

-0.42

NA



- qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)