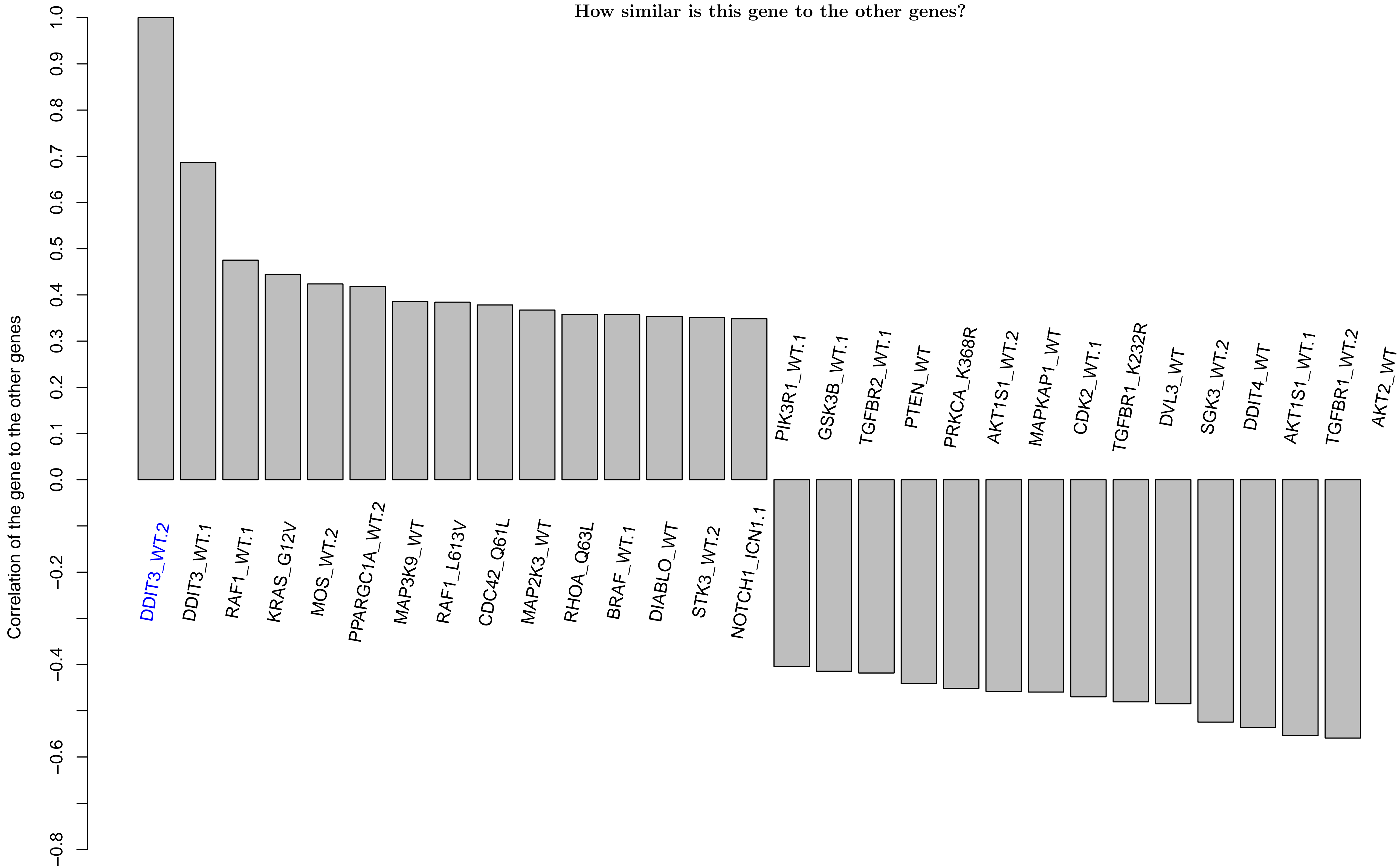
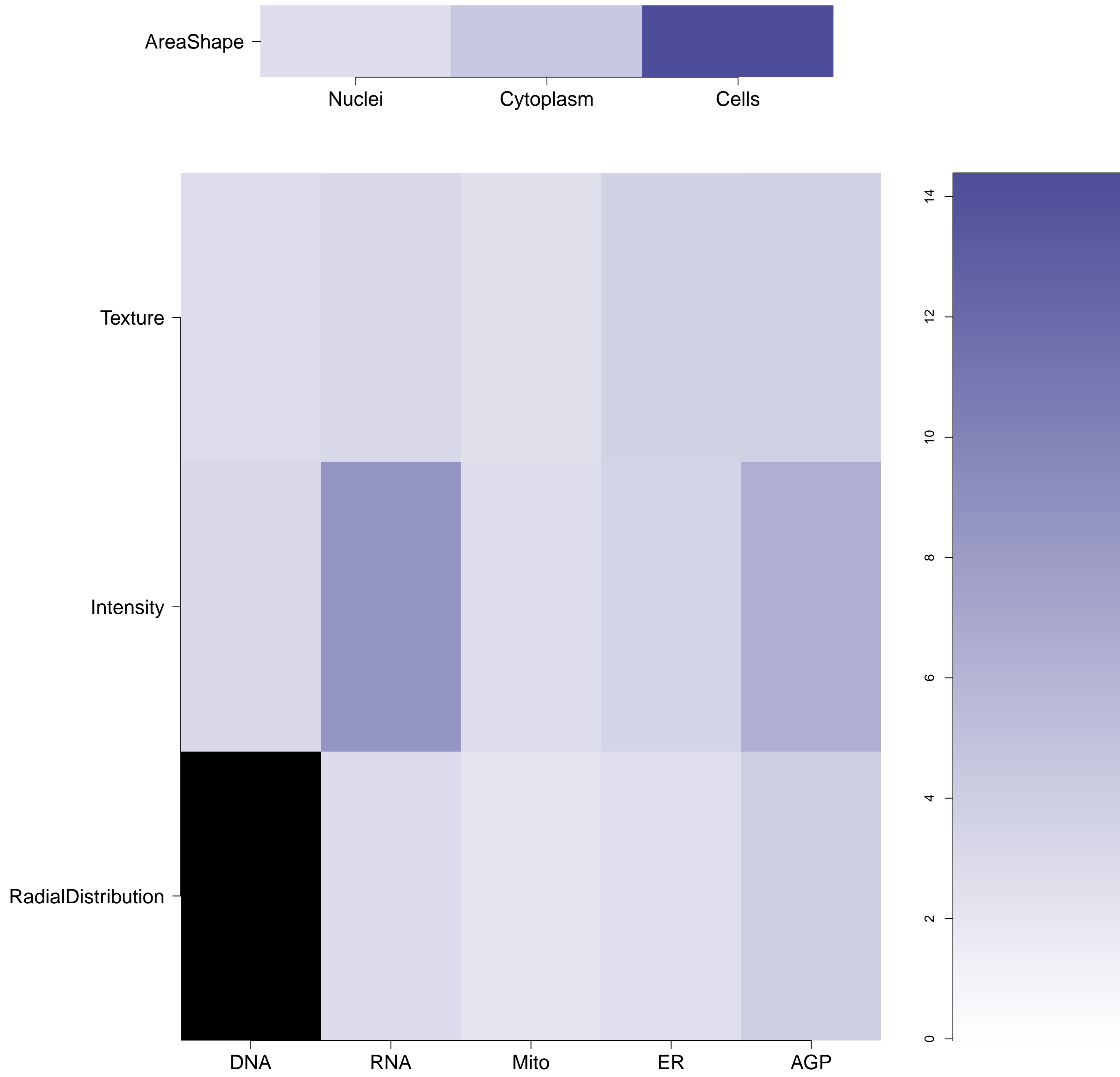


DDIT3.WT.2 - in Canonical ER Stress/UPR

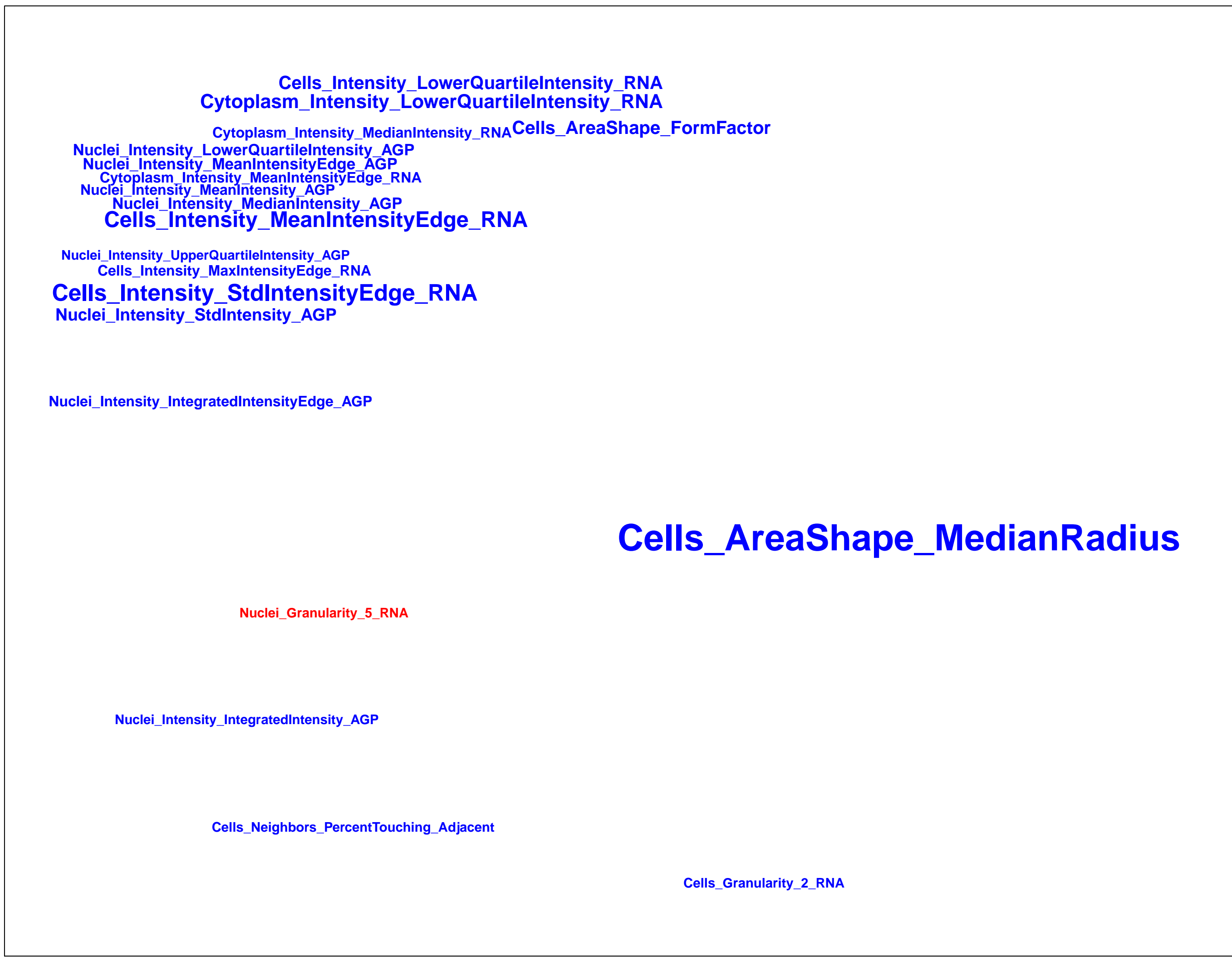
How similar is this gene to the other genes?



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

DDIT3.WT.2 (41744)

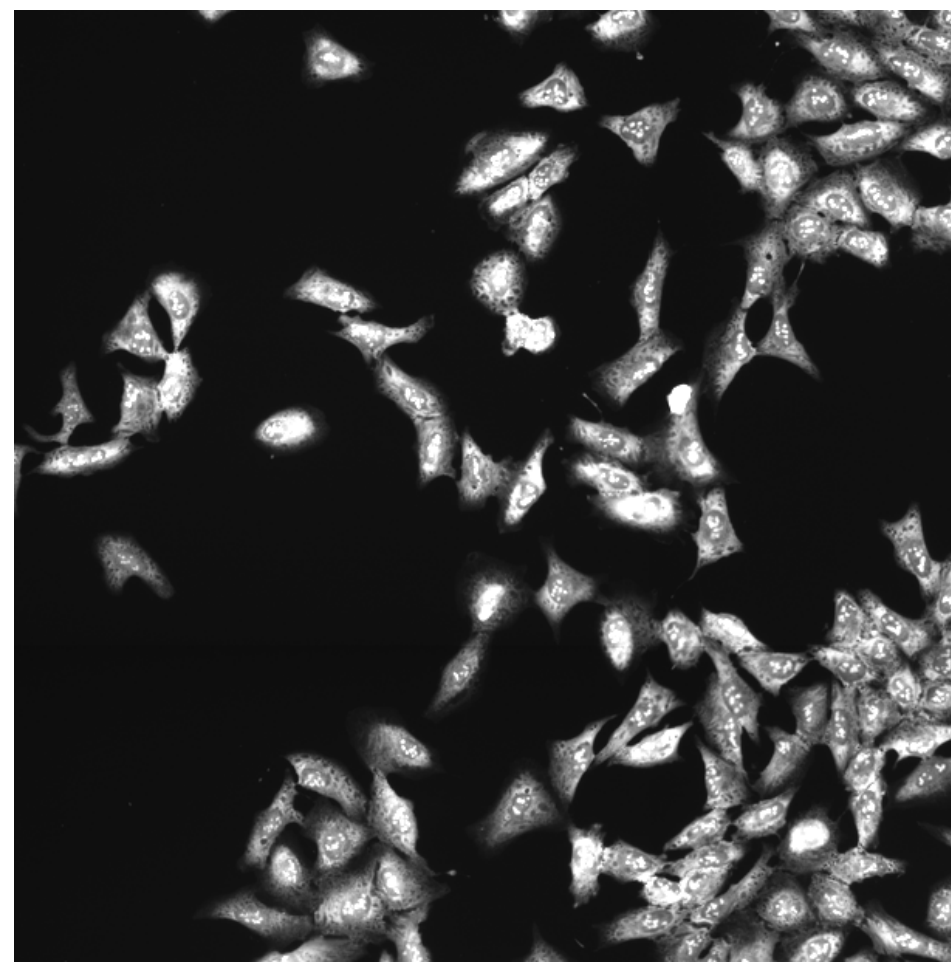
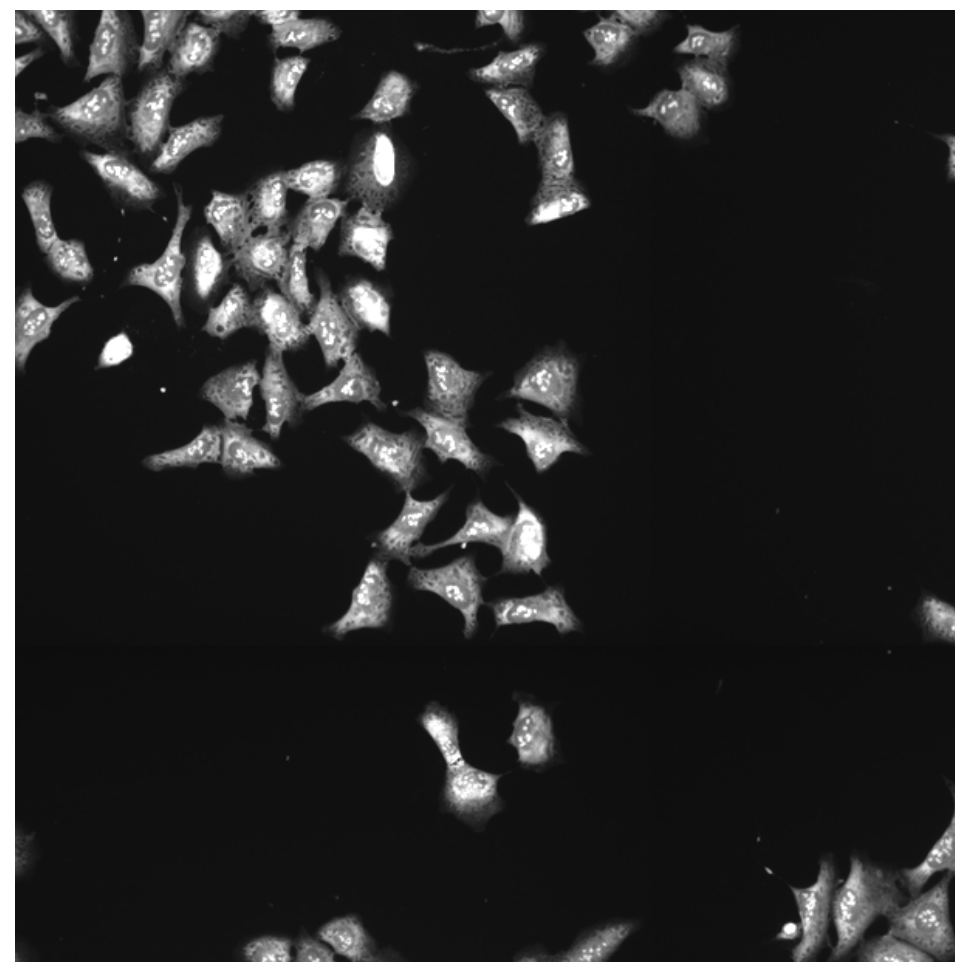
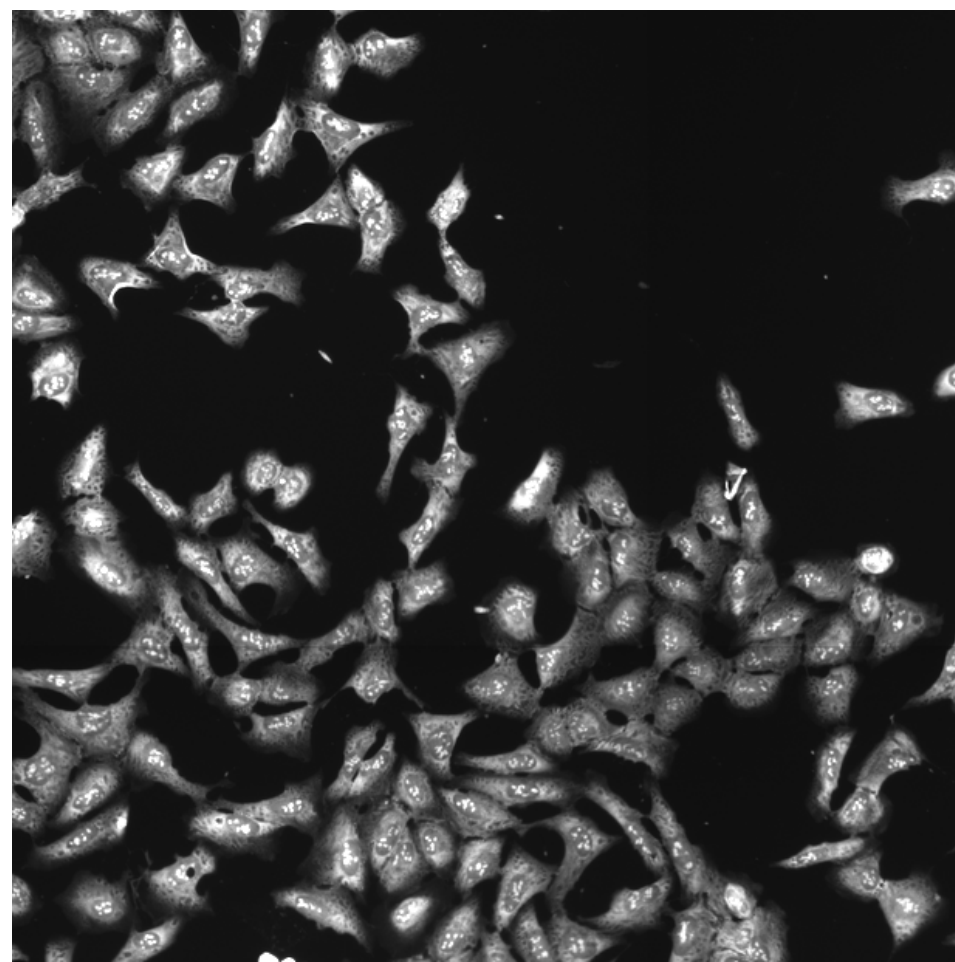
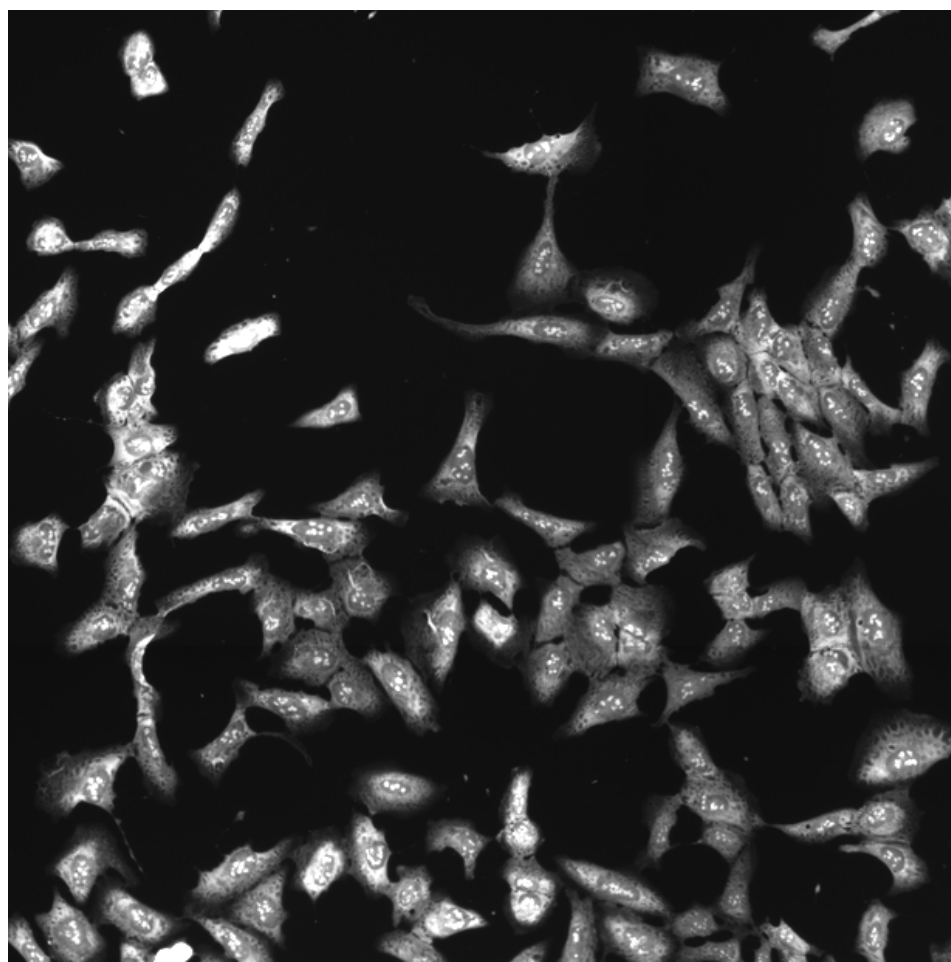
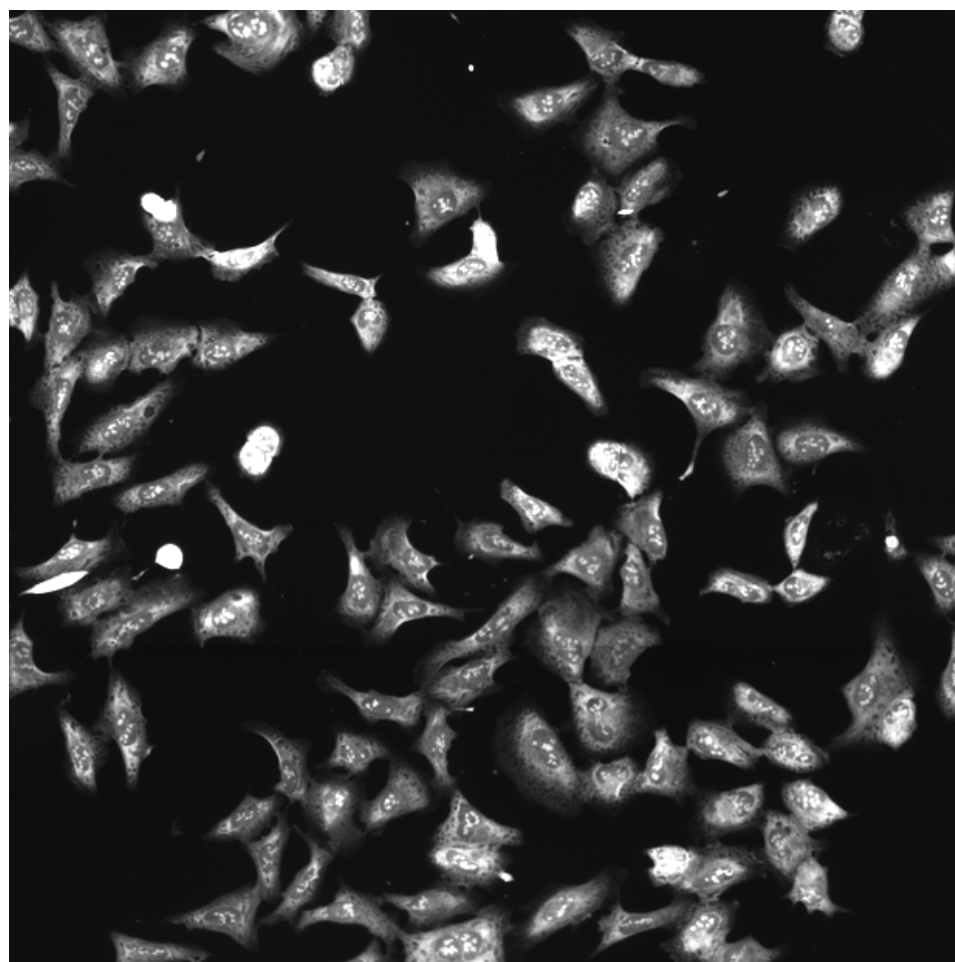
DDIT3.WT.2 (41755)

DDIT3.WT.2 (41756)

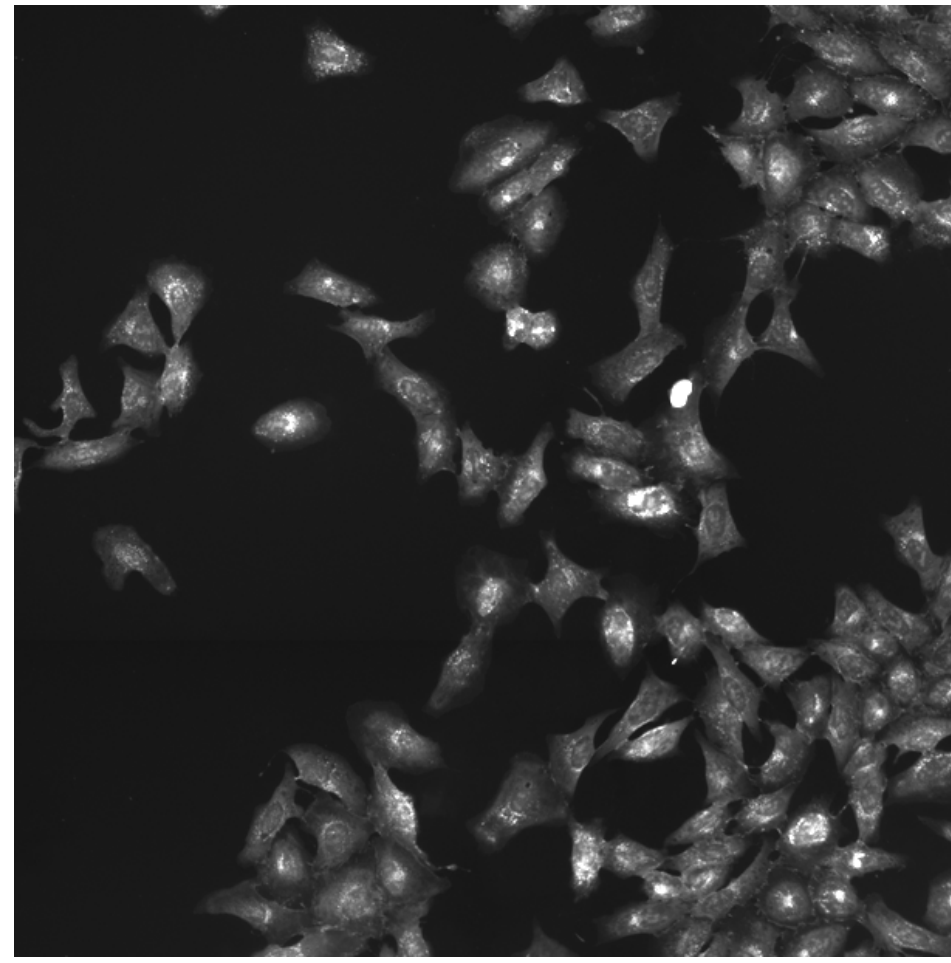
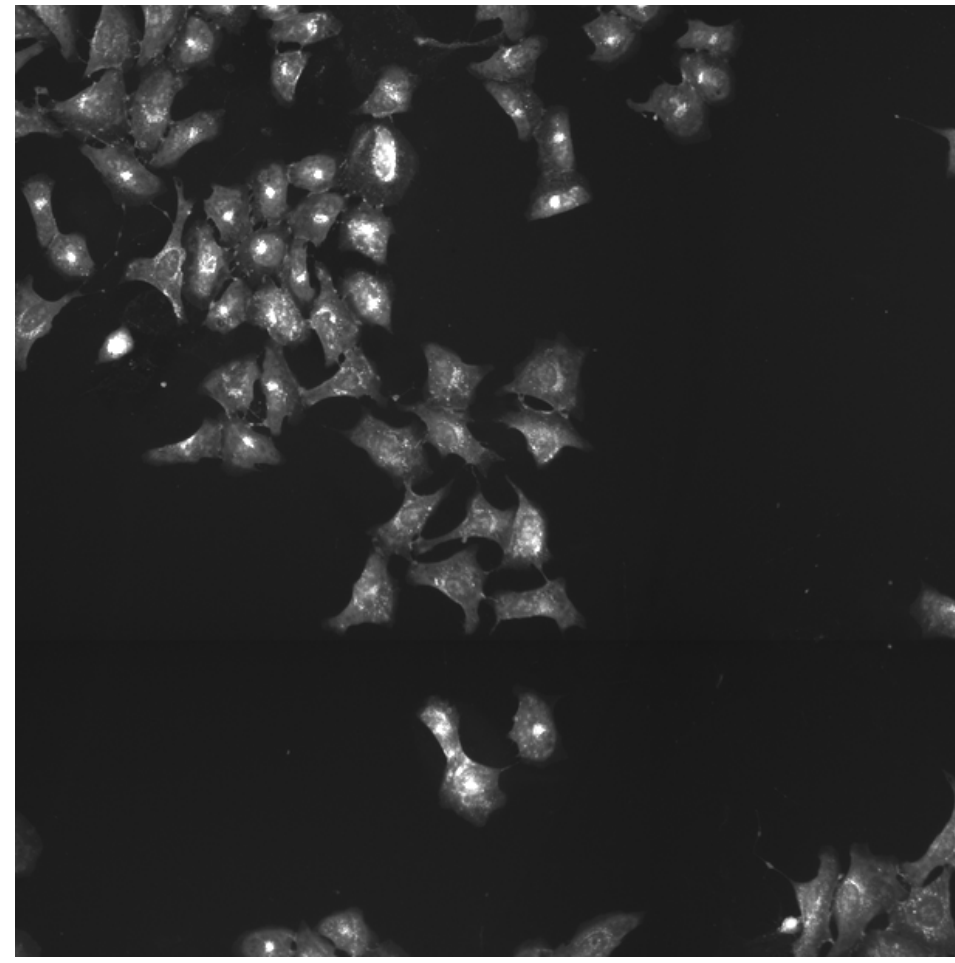
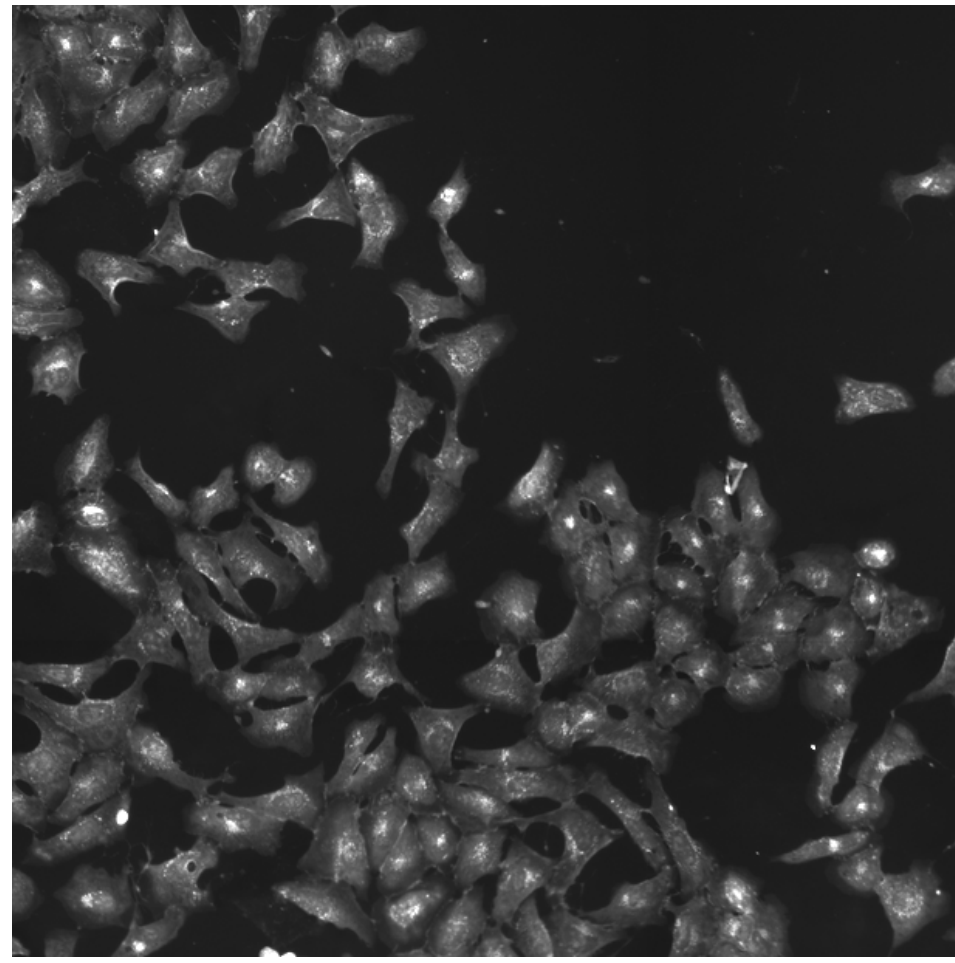
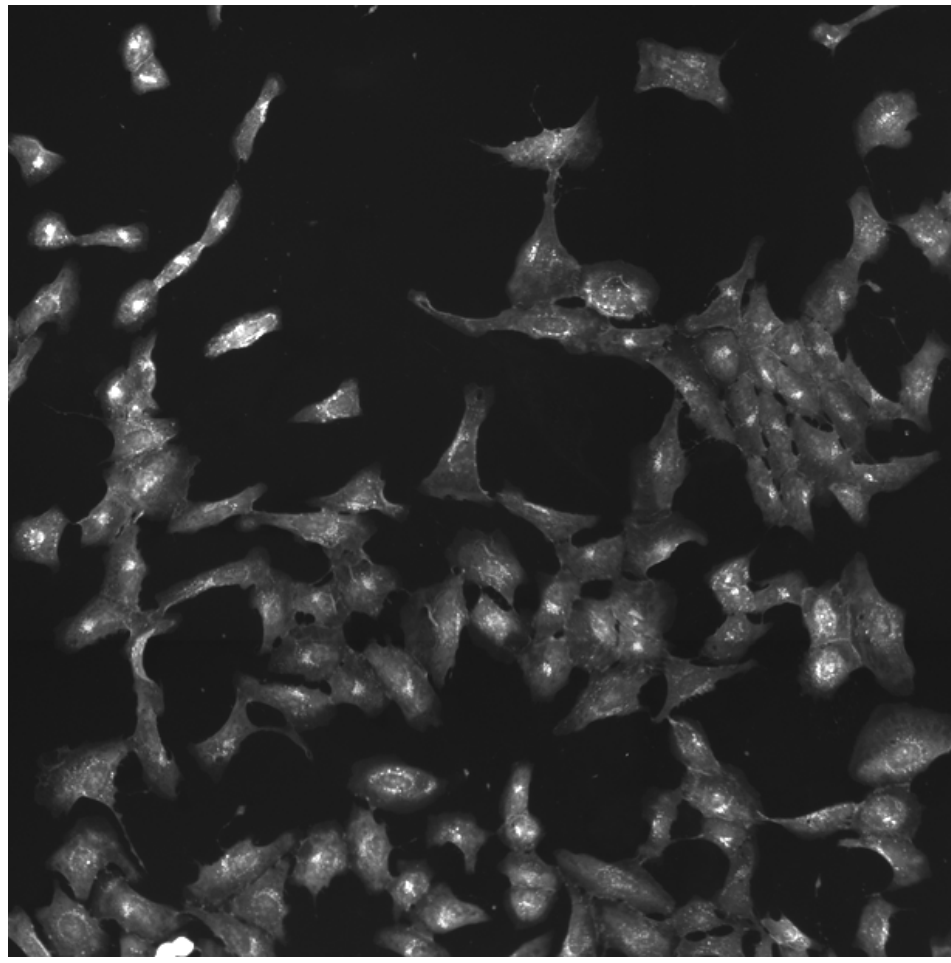
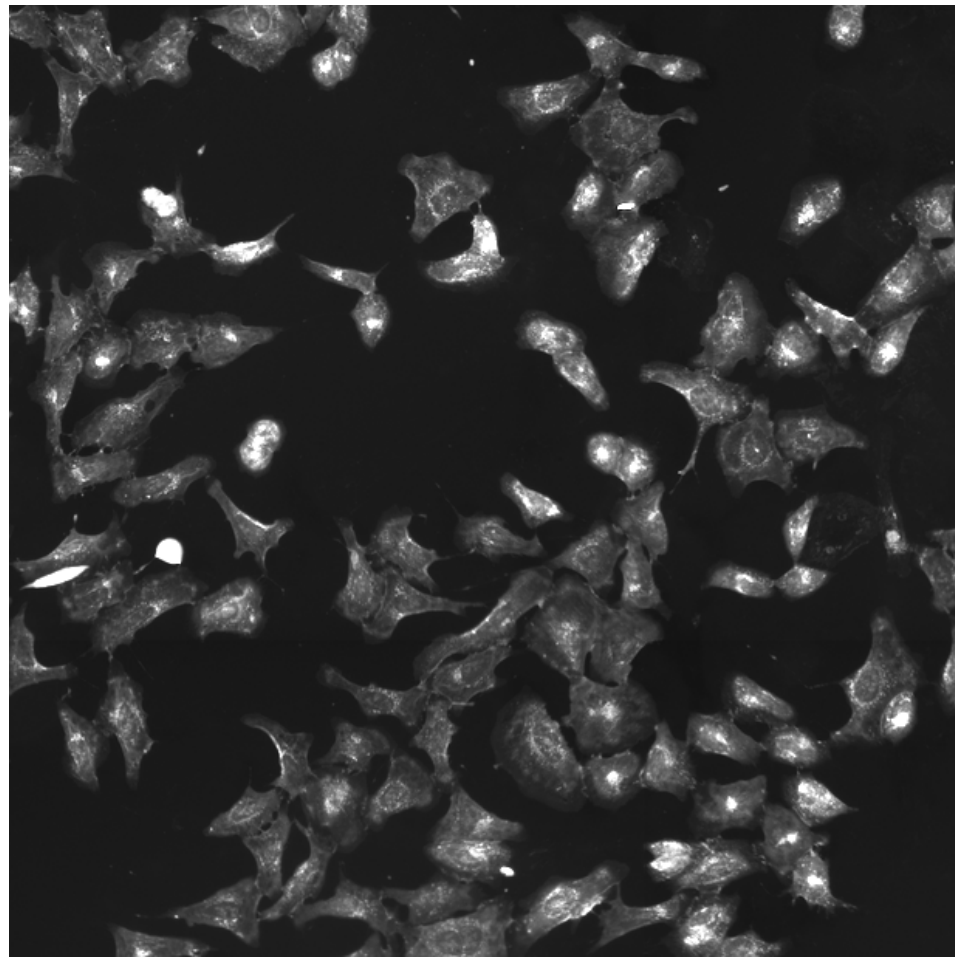
DDIT3.WT.2 (41757)

DDIT3.WT.2 (41754)

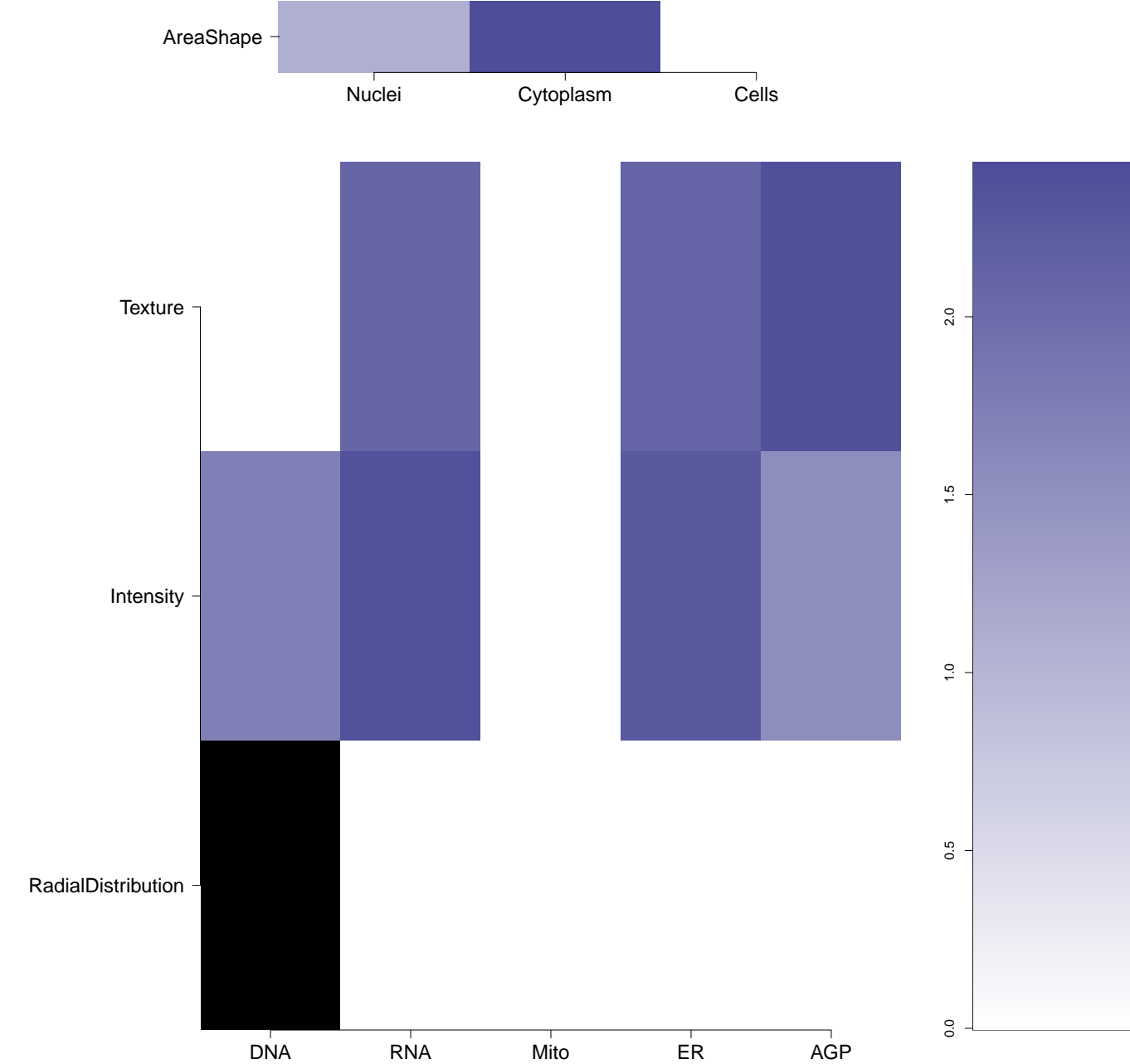
RNA



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 0.51)	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
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BRD-K47254543-001-05-6 STK638346 AC1M00MA MLS000588657 HMS2513I21 HMS3378I09 ZINC2350597 SMR000212240 T0502-9851 PubChem CID : 1963468		0.60 (in 4 replicates)	0.45	NA				<p>Total number of assays tested in: 644. Active in the following assays:</p> <ul style="list-style-type: none"> • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G3a (AID 504332) • Fluorescence-based biochemical primary high throughput screening assay to identify molecules that bind r(CAG) RNA repeats (AID 651821) • Fluorescence-based biochemical high throughput confirmation assay to identify molecules that bind r(CAG) RNA repeats (AID 652065) • Counterscreen for molecules that bind rCAG RNA repeats: fluorescent based biochemical counterscreen assay for inhibitors of the DNA-based (5'CAG/3'GTC) TO-PRO-1 dye complex (AID 652068)
BRD-K34708533-001-06-6 MLS000571322 SMR000193691 ST50187553 AC1LEV3A BDBM72127 HMS2451I13 ZINC117958 SMSF0010160 ZINC00117958 PubChem CID : 718487		0.69 (in 2 replicates)	0.44	NA				<p>Total number of assays tested in: 675. Active in the following assays:</p> <ul style="list-style-type: none"> • CYP2C19 Assay (AID 778) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • Screen to Identify Novel Compounds That Sensitize Mycobacterium Tuberculosis to Beta-lactam Antibiotics (AID 434955) • Screen and Counter Screen to Identify Novel Compounds that Selectively Sensitize Mycobacterium Tuberculosis to Beta-lactam Antibiotics (AID 434987) • Luminescence Cell-Based Dose Retest to Identify Potentiators of Heat Shock Factor 1 (HSF1) (AID 435004) • Heat Shock Factor-1 (HSF-1) Measured in Cell-Based System Using Plate Reader - 2038-01 Activator.SinglePoint.HTS.Activity (AID 504408) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 48 hour incubation (AID 504832) • Sustained Induction of HSF-1 Measured in Cell-Based System Using Plate Reader - 2038-01 Activator.Dose.CherryPick.Activity (AID 602296) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)
BRD-K24588660-001-05-1 SMR000029508 AC1MMPHI MLS000093894 MLS002588230 HMS2172A20 HMS3307J08 ZINC4077675 PubChem CID : 3242390		NA (in 1 replicates)	-0.65	NA				<p>Total number of assays tested in: 758. Active in the following assays:</p> <ul style="list-style-type: none"> • Factor XIIa Mixture HTS (AID 684) • CYP2C9 Assay (AID 777) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 48 hour incubation (AID 504832)
BRD-K15260875-001-01-8 PubChem CID : 54646110		NA (in 1 replicates)	-0.64	0.245				<p>Total number of assays tested in: 39.</p>
BRD-K95356204-001-05-0 MLS000888970 HMS2218K23 HMS3349H02 SMR000462391 PubChem CID : 16745919		NA (in 1 replicates)	-0.64	NA				<p>Total number of assays tested in: 556. Active in the following assays:</p> <ul style="list-style-type: none"> • Fluorescence polarization-based counterscreen for RBBP9 inhibitors: primary biochemical high-throughput screening assay to identify inhibitors of the oxidoreductase glutathione S-transferase omega 1(GSTO1). (AID 1974) • qHTS Assay for Inhibitors of BAZ2B (AID 504333) • qHTS Assay for Inhibitors of JMJD2A-Tudor Domain (AID 504339) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G3a: Hit Confirmation (AID 588344) • qHTS identification of DNMT1 inhibitors in a Fluorescent Molecular Beacon assay (AID 588458) • qHTS Assay for Inhibitors of BAZ2B: Hit Validation (AID 588809) • qHTS Assay for Inhibitors of BAZ2B: Hit Validation in AlphaScreen Counterscreen. (AID 588859) • TRFRET-based biochemical primary high throughput screening assay to identify small molecules that bind to the HIV-1-gp120 binding antibody: PG9 (AID 624416) • TRFRET-based biochemical high throughput confirmation assay for small molecules that bind to the HIV-1-gp120 binding antibody: PG9 (AID 651571) • Counterscreen for discovery of small molecules that bind to the HIV-1-gp120 binding antibody: PG9: Tr-FRET-based biochemical high throughput assay to identify small molecules that bind to the control antibody: PGV04, which binds to a site on the HIV envelope different from the PG9 binding site (AID 651604) • TRFRET-based biochemical primary high throughput screening assay to identify inhibitors of 5-mCpG-binding domain protein 2 (MBD2)-DBD binding to methylated oligonucleotide (AID 686964)
BRD-K27735716-001-01-8 PubChem CID : 54618805		0.61 (in 3 replicates)	-0.59	0.353				<p>Total number of assays tested in: 37. Active in the following assays:</p> <ul style="list-style-type: none"> • Small molecule inhibitors of miR122 Measured in Cell-Based System Using Plate Reader - 2144-01 Activator.SinglePoint.HTS Activity (AID 623901) • Small molecule inhibitors of miR122 Measured in Cell-Based System Using Plate Reader - 2144-01 Activator.Dose.CherryPick Activity (AID 651956) • Cytotoxicity Assay Measured in Cell-Based System Using Plate Reader - 2144-02 Inhibitor.Dose.CherryPick Activity.Set2 (AID 720697)

<div>BRD-K80217331-001-05-7</div> <div>MLS000095675</div> <div>SMR000031222</div> <div>AC1MMHXG</div> <div>MLS002588683</div> <div>BDBM78548</div> <div>HMS2434L11</div> <div>ZINC3009512</div> <div>EU-0062248</div> <div>PubChem CID : 3239030</div>	<chem>COC1=CC=C2C(=C1)C(=C3C=C2C=C(C=C3)S(=O)(=O)C4=CC=CC=C4N=C2)C5=CC=CC=C5</chem>	NA (in 1 replicates)	-0.59	NA			
<div>BRD-K16602560-001-01-0</div> <div>PubChem CID : 54619023</div>	<chem>CC(C)C1=CC=C2C(=C1)C(=C3C=C2C=C(C=C3)S(=O)(=O)C4=CC=CC=C4N=C2)C5=CC=CC=C5</chem>	0.62 (in 4 replicates)	-0.59	0.353			
<div>BRD-K31230167-001-01-8</div> <div>PubChem CID : 54646113</div>	<chem>CC(C)C1=CC=C2C(=C1)C(=C3C=C2C=C(C=C3)S(=O)(=O)C4=CC=CC=C4N=C2)C5=CC=CC=C5</chem>	NA (in 1 replicates)	-0.59	0.913			
<div>BRD-K08564817-001-05-4</div> <div>T0510-5883</div> <div>MLS000391550</div> <div>ZINC13136880</div> <div>SMR000260585</div> <div>PubChem CID : 9669714</div>	<chem>CC(C)C1=CC=C2C(=C1)C(=C3C=C2C=C(C=C3)S(=O)(=O)C4=CC=CC=C4N=C2)C5=CC=CC=C5</chem>	NA (in 1 replicates)	-0.58	NA			

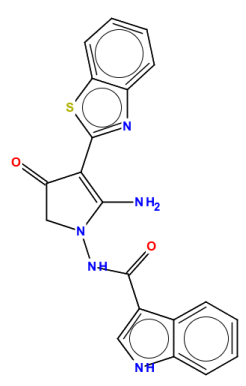
- Total number of assays tested in: 808. Active in the following assays:
- HTS of Estrogen Receptor- alpha Coactivator Binding Potentiators (AID 639)
 - Allosteric Modulators of D1 Receptors: Primary Screen (AID 641)
 - Allosteric Modulators of D1 Receptors: Confirmation Screen (AID 642)
 - Allosteric Modulators of D1 Receptors: Secondary Assay 2 (AID 647)
 - Cell signaling CRE-BLA (Fak stim) (AID 662)
 - qHTS Assay for Agonists of the Thyroid Stimulating Hormone Receptor: Activators of Intracellular cAMP Concentrations in Parental HEK 293 (AID 938)
 - uHTS identification of UBC13 Polyubiquitin Inhibitors via a TR-FRET Assay (AID 485273)
 - uHTS Colorimetric assay for identification of inhibitors of Scp-1 (AID 493091)
 - Single concentration confirmation of uHTS hits for Scp-1 phosphatase using a colorimetric assay (AID 540281)
 - Dose Response confirmation of uHTS hits for Scp-1 phosphatase using a colorimetric assay (AID 540297)
 - HTS to Find Inhibitors of Pathogenic Pemphigus Antibodies (AID 588358)
 - Flow Cytometric HTS Screening for Inhibitors of Lytic Granule Exocytosis with MLPCN Compound Library (AID 651702)
 - 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)
 - CounterScreen Insulin Secretion Assay in Absence of glucose Measured in Cell-Based System Using Plate Reader - 7055-02 Activator.Dose.CherryPick.Activity (AID 977606)
 - 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.Dose.CherryPick.Activity.Set2 (AID 977607)

Total number of assays tested in: 39.

Total number of assays tested in: 40.

- Total number of assays tested in: 643. Active in the following assays:
- VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546)
 - qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)
 - uHTS 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)
 - qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)
 - qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDPI): qHTS in cells in absence of CPT (AID 686978)
 - qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDPI): qHTS in cells in presence of CPT (AID 686979)

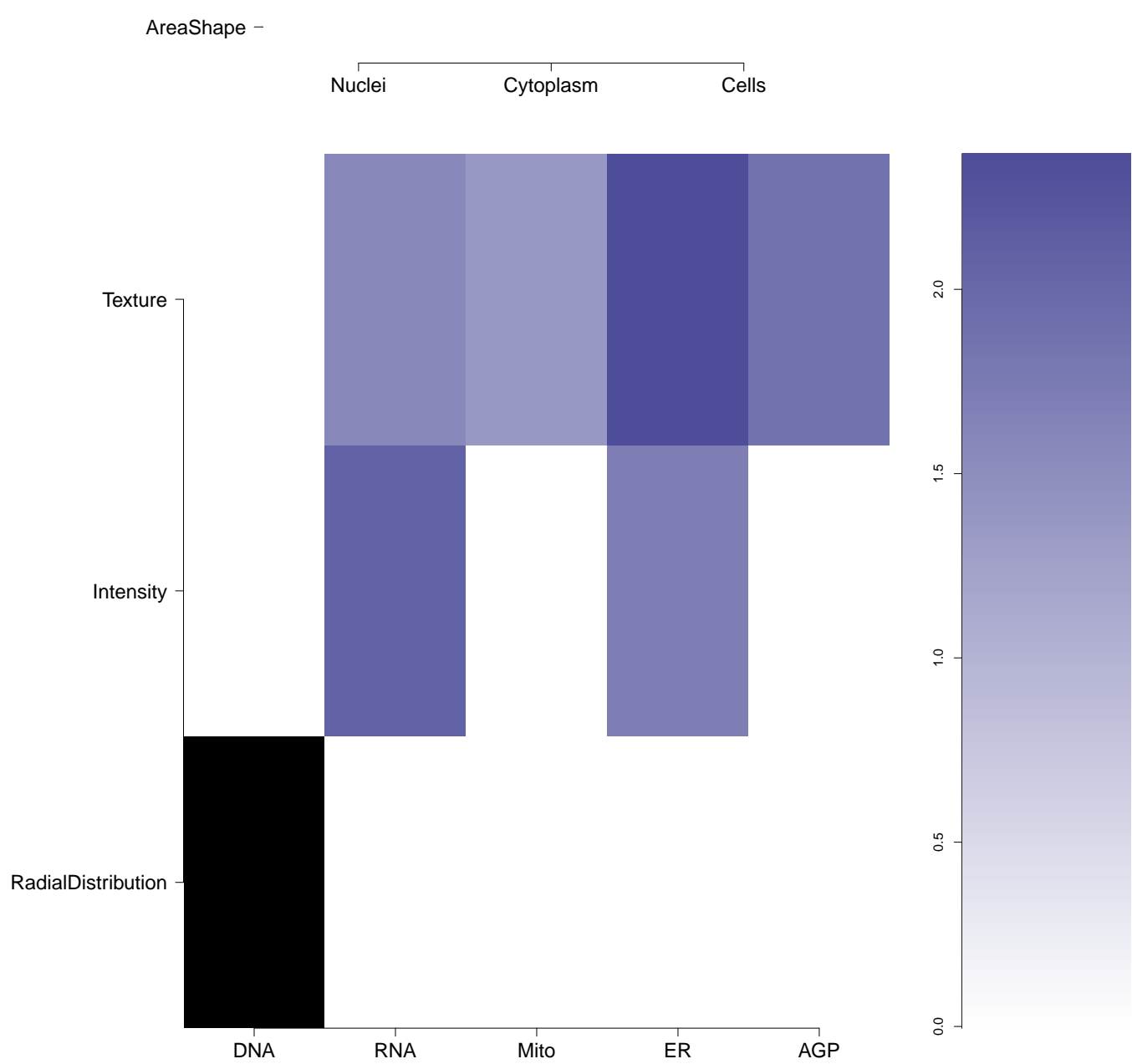
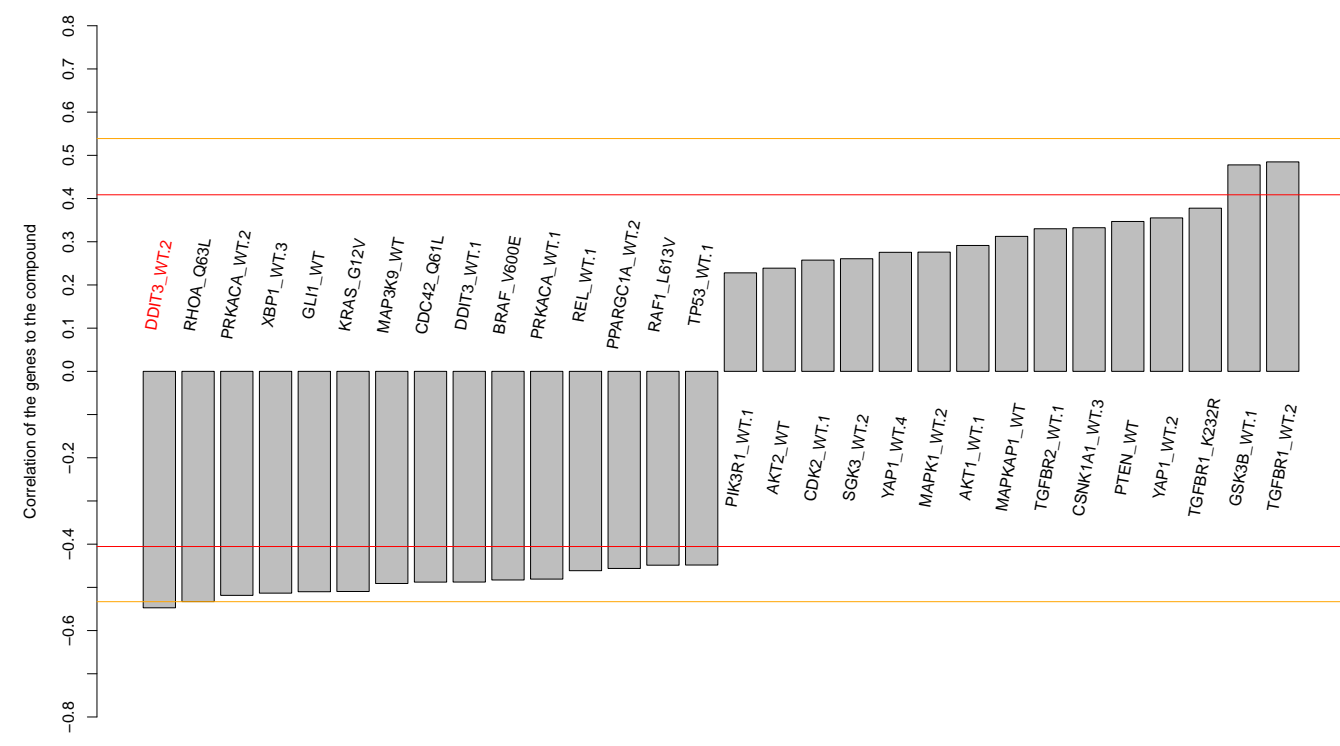
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EN300-02713
T0508-7213
PubChem CID : 2353771



NA (in 1 replicates)

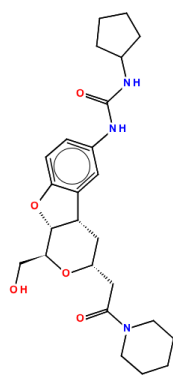
-0.55

NA



- Total number of assays tested in: 650. Active in the following assays:
- Screen for Chemicals that Inhibit the RAM Network (AID 868)
 - Primary cell-based high-throughput screening assay for antagonists of NPY-Y1 (AID 1040)
 - Cell-based high-throughput confirmation assay for antagonists of neuropeptide Y receptor Y1 (NPY-Y1) (AID 1254)
 - Counterscreen assay for antagonists of non-peptide Y receptor Y1 (NPY-Y1): Cell-based high throughput assay to measure NPY-Y2 antagonism (AID 1255)
 - Homogeneous Time-Resolved Fluorescence Resonance Energy Transfer (HTRF) Assay (AID 2073)
 - qHTS Assay for Inhibitors of DNA Polymerase Beta (AID 48314)
 - qHTS Inhibitors of AmpC Beta-Lactamase (assay without detergent) (AID 485341)
 - uHTS Colorimetric assay for identification of inhibitors of Scp-1 (AID 493091)
 - Activator for delta FosB/delta FosB homodimer Measured in Biochemical System Using Plate Reader - 2072-01 Activator SinglePoint HTS Activity (AID 493131)
 - Inhibitors of DNA Polymerase Beta: Hit validation (AID 540280)
 - Single concentration confirmation of uHTS hits for Scp-1 phosphatase using a colorimetric assay (AID 540281)
 - Inhibitors of DNA Polymerase Beta: Hit Validation in Radiolabeled Extension Assay (AID 540325)
 - uHTS identification of DNMT1 inhibitors in a Fluorescent Molecular Beacon assay (AID 588458)
 - TRFRET-based biochemical primary high throughput screening assay to identify small molecules that bind to the HIV-1-gp120 binding antibody, PG9 (AID 624416)
 - TRFRET-based biochemical high throughput confirmation assay for small molecules that bind to the HIV-1-gp120 binding antibody, PG9 (AID 651571)
 - Counterscreen for discovery of small molecules that bind to the HIV-1-gp120 binding antibody, PG9: TR-FRET-based biochemical high throughput assay to identify small molecules that bind to the control antibody, PGV04, which binds to a site on the HIV envelope different from the PG9 binding site (AID 651604)
 - TRFRET-based biochemical primary high throughput screening assay to identify inhibitors of 5-mCpG-binding domain protein 2 (MBD2)-DBD binding to methylated oligonucleotide (AID 686964)
 - TRFRET-based biochemical high throughput confirmation assay to identify inhibitors of 5-mCpG-binding domain protein 2 (MBD2)-DBD binding to methylated oligonucleotide (AID 720531)
 - TRFRET-based cell-based primary high throughput screening assay to identify inhibitors of cell surface Prion Protein (PRPC) (AID 720596)
 - TRFRET-based cell-based high throughput confirmation assay to identify inhibitors of cell surface Prion Protein (PRPC) (AID 743200)

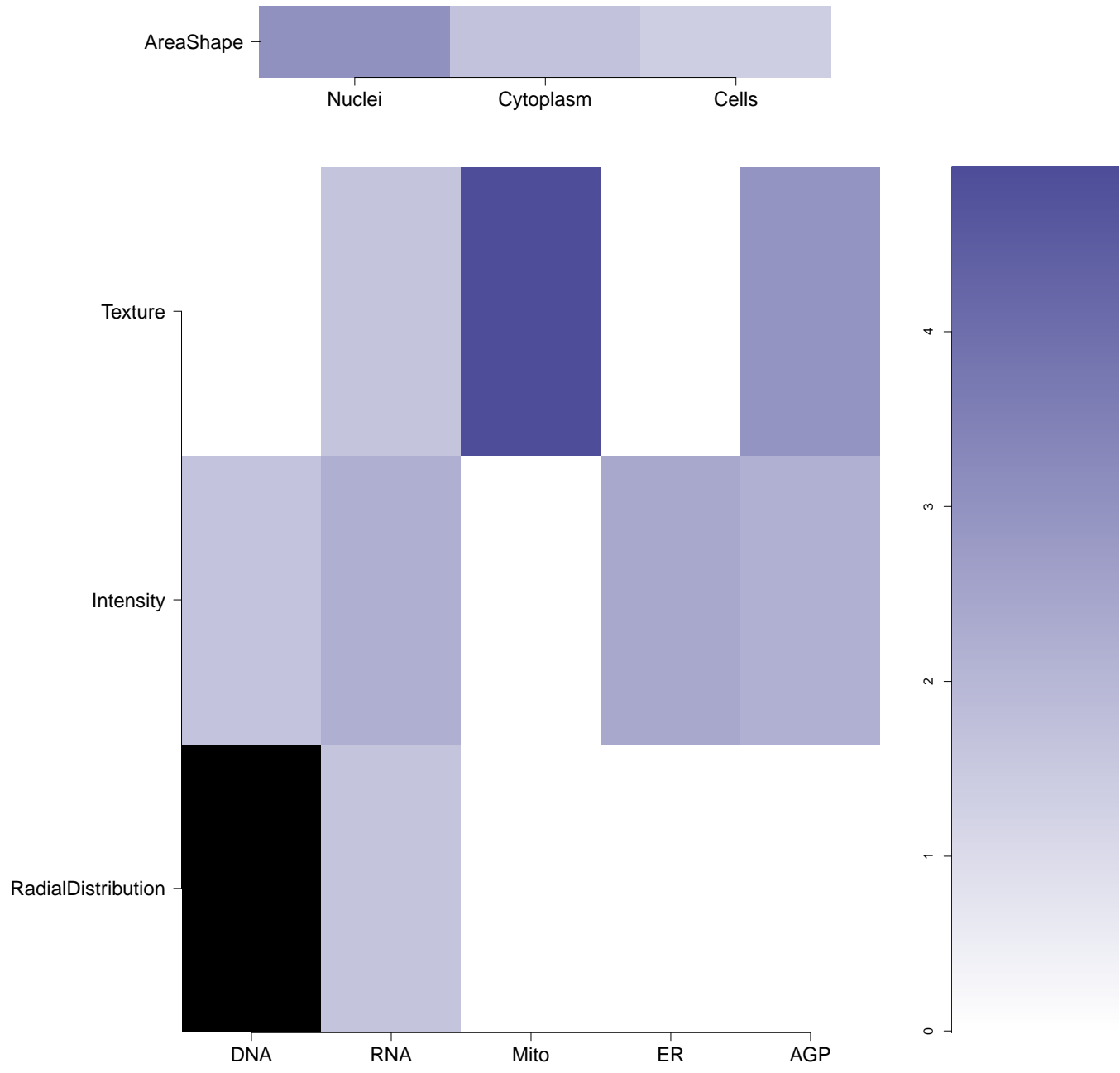
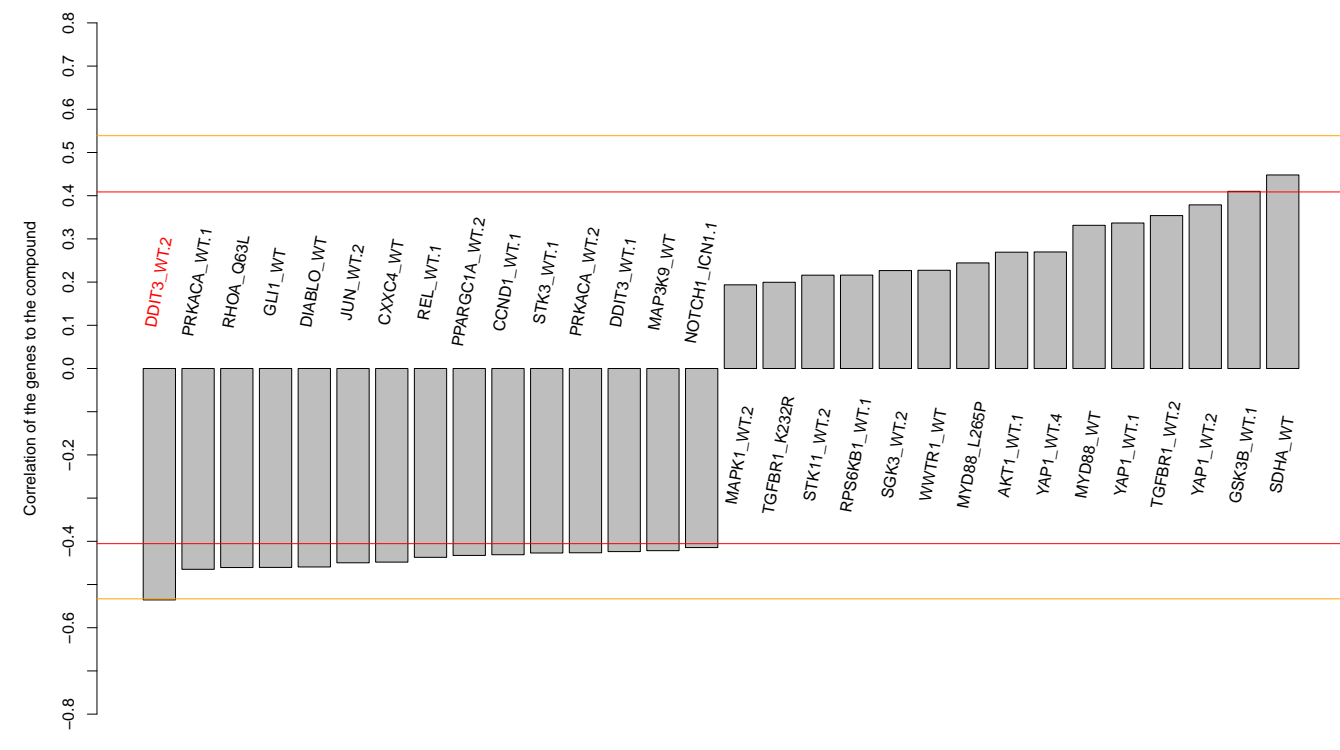
BRD-K62836687-001-01-5
PubChem CID : 54646025



NA (in 1 replicates)

-0.54

0.785



- Total number of assays tested in: 41. Active in the following assays:
- 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)