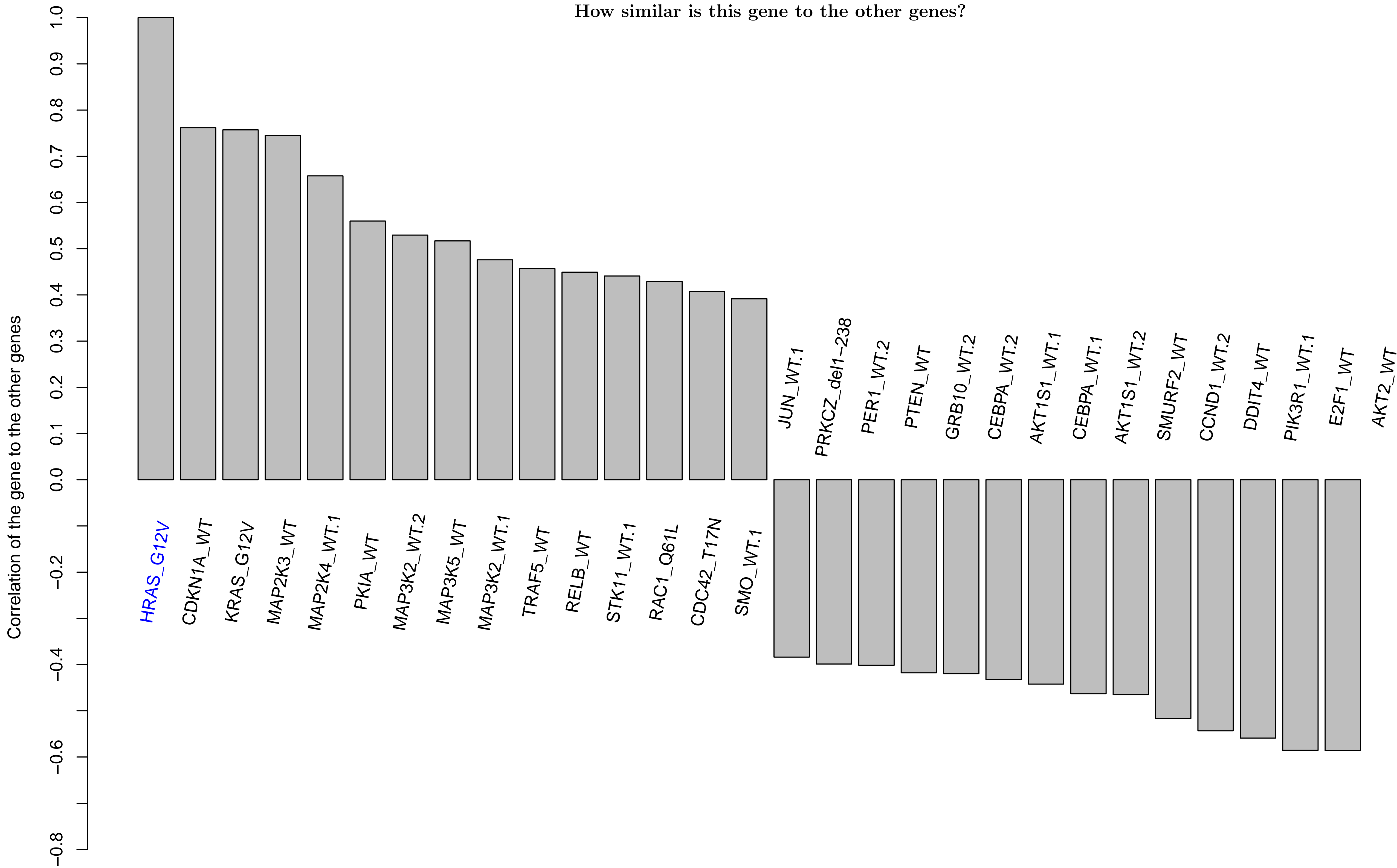
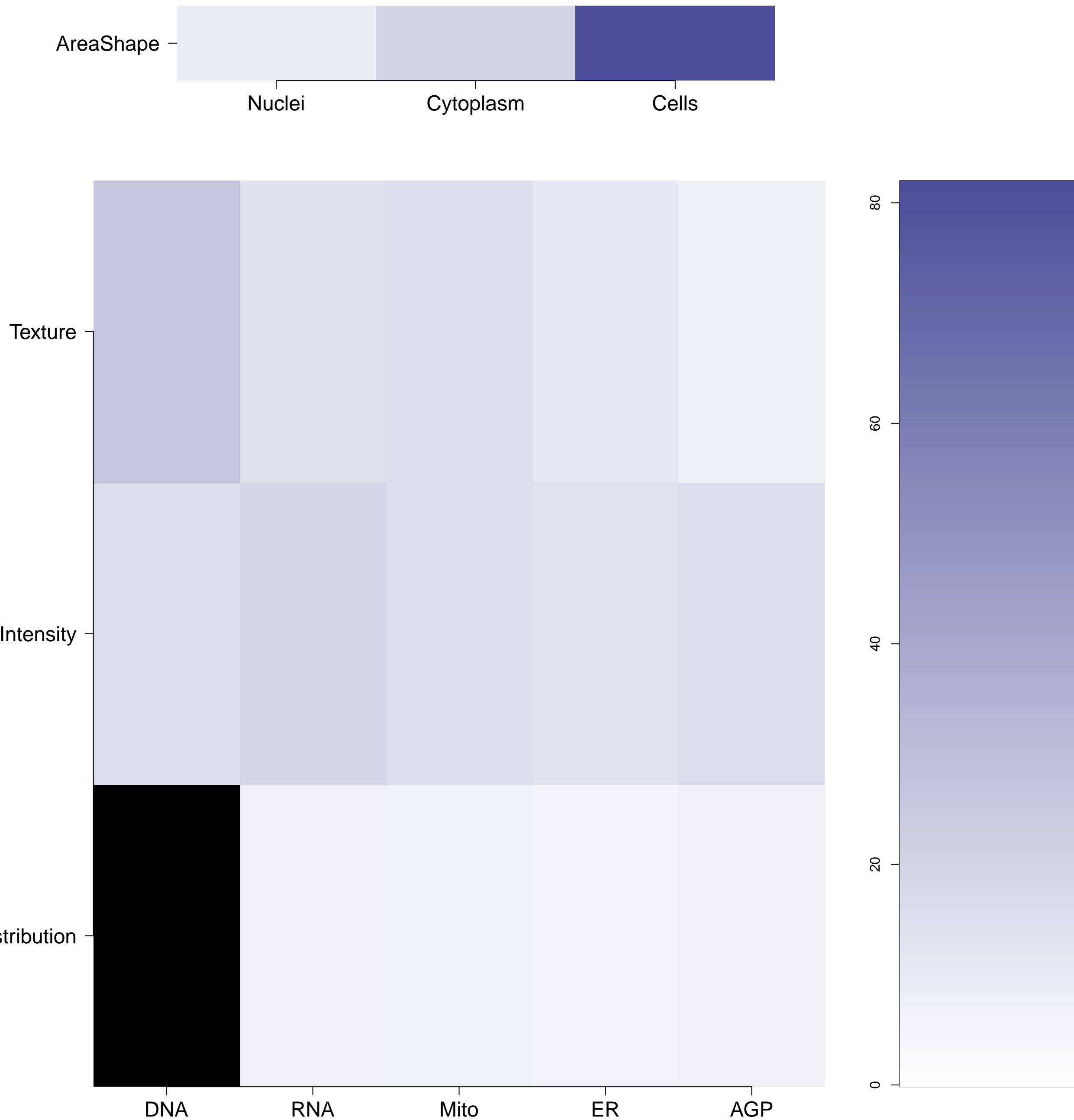


HRAS.G12V - in RTK

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

HRAS.G12V (41744)

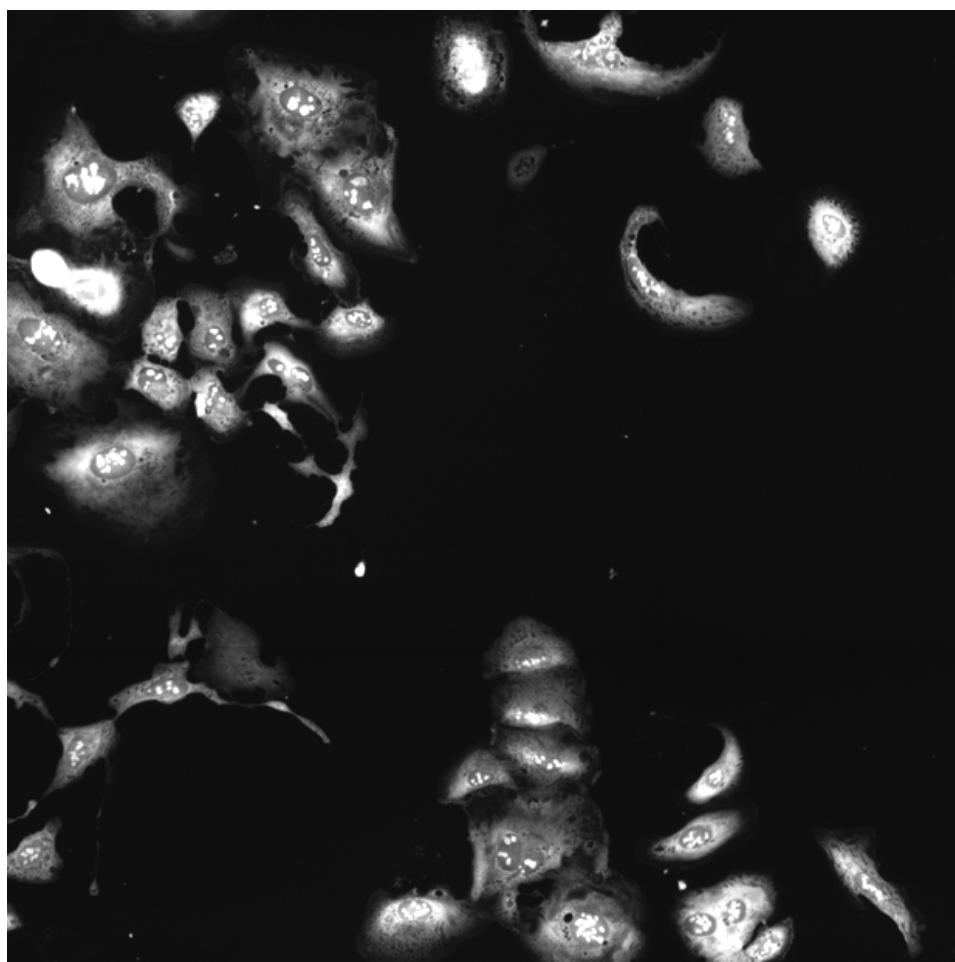
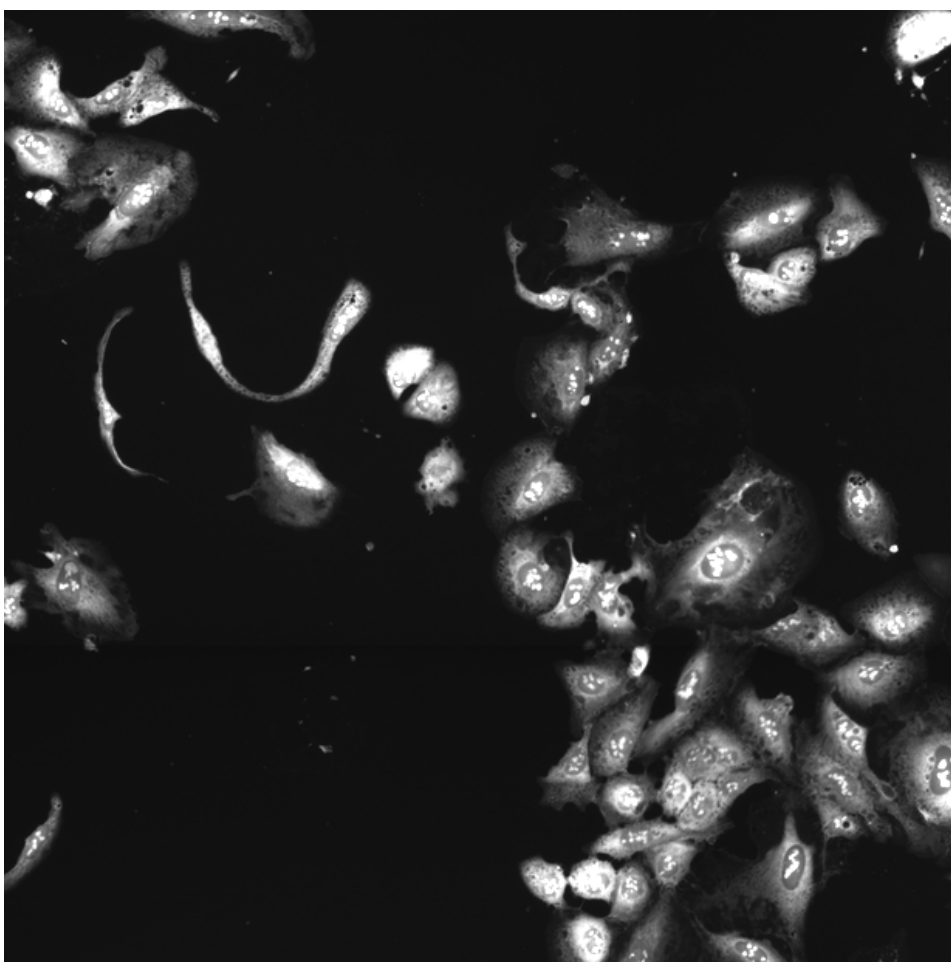
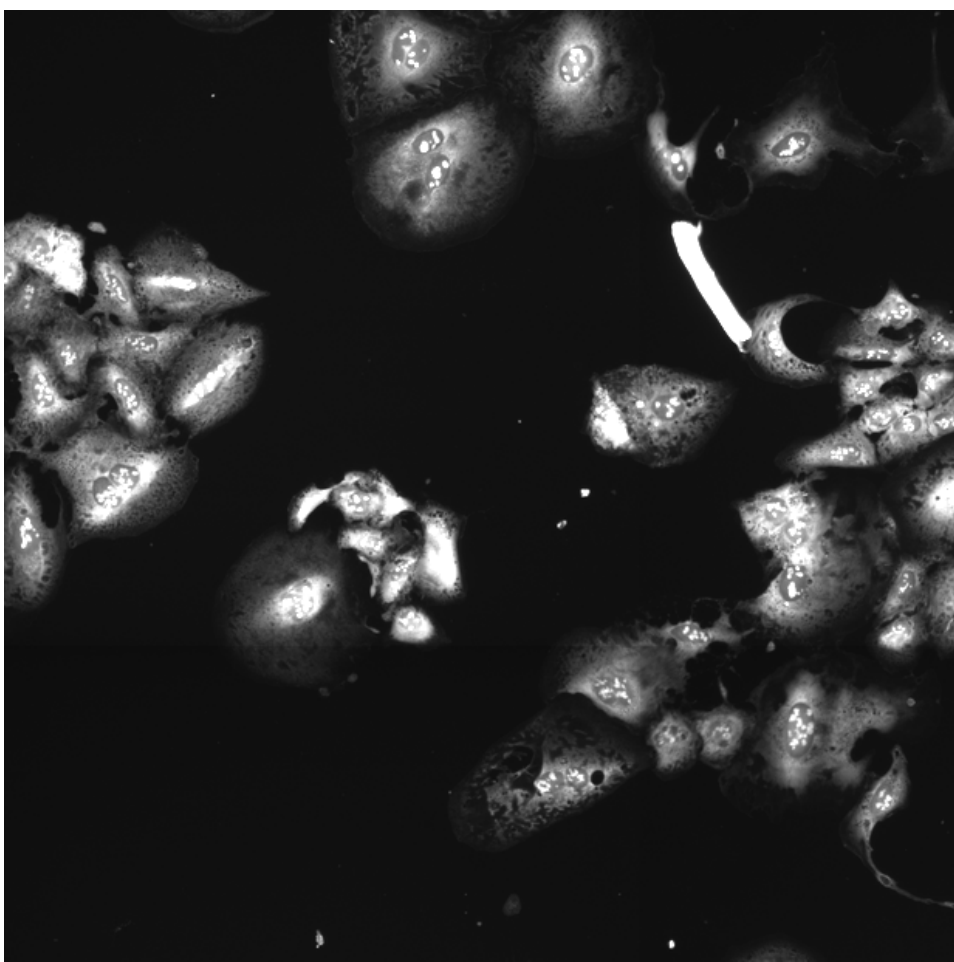
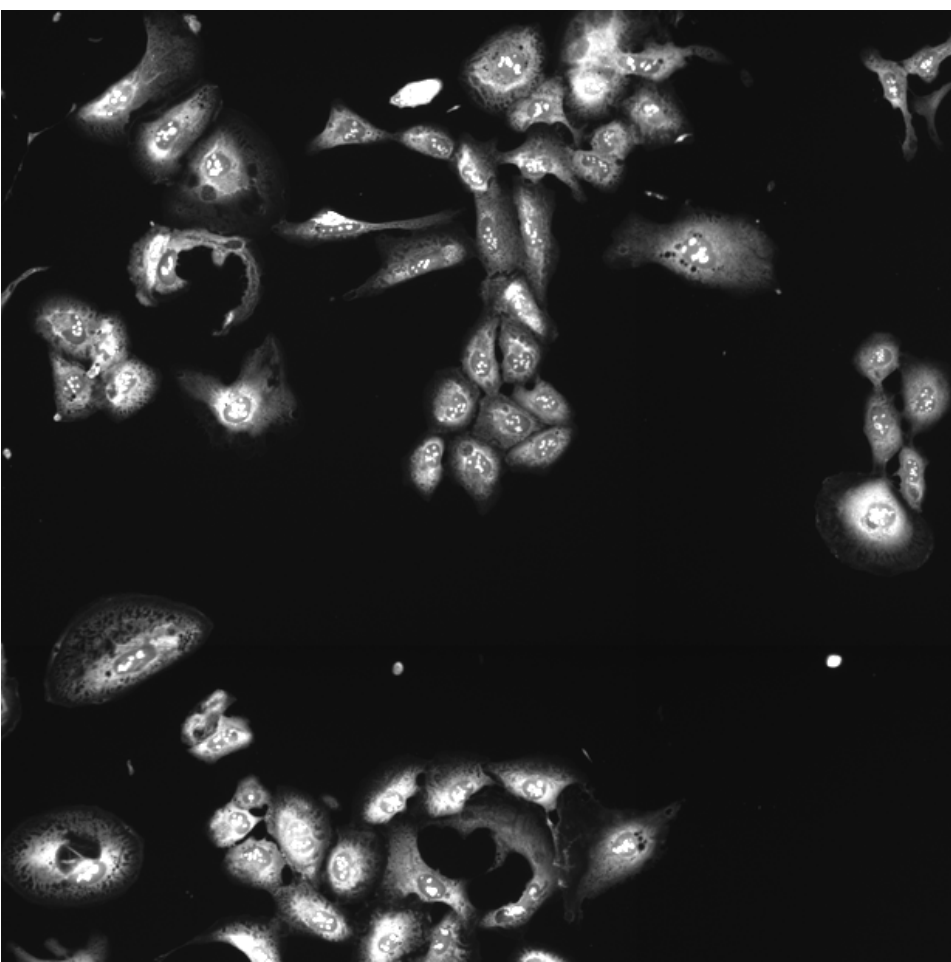
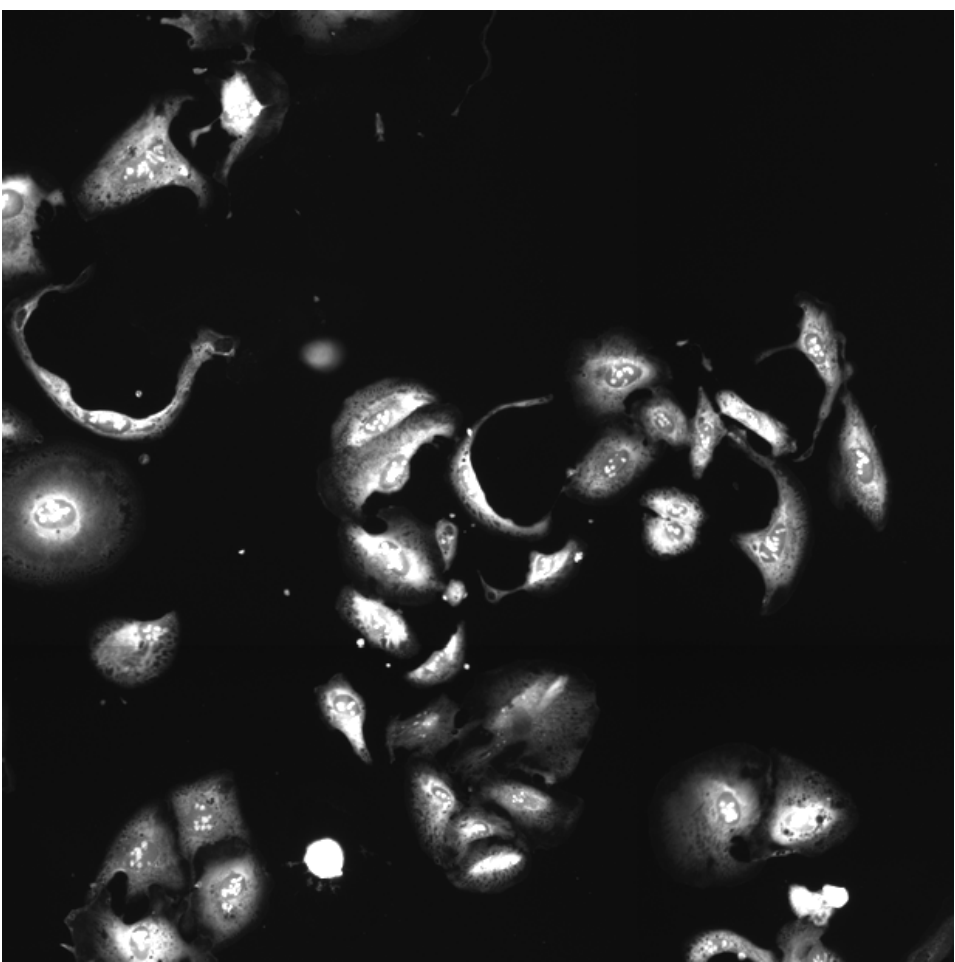
HRAS.G12V (41755)

HRAS.G12V (41756)

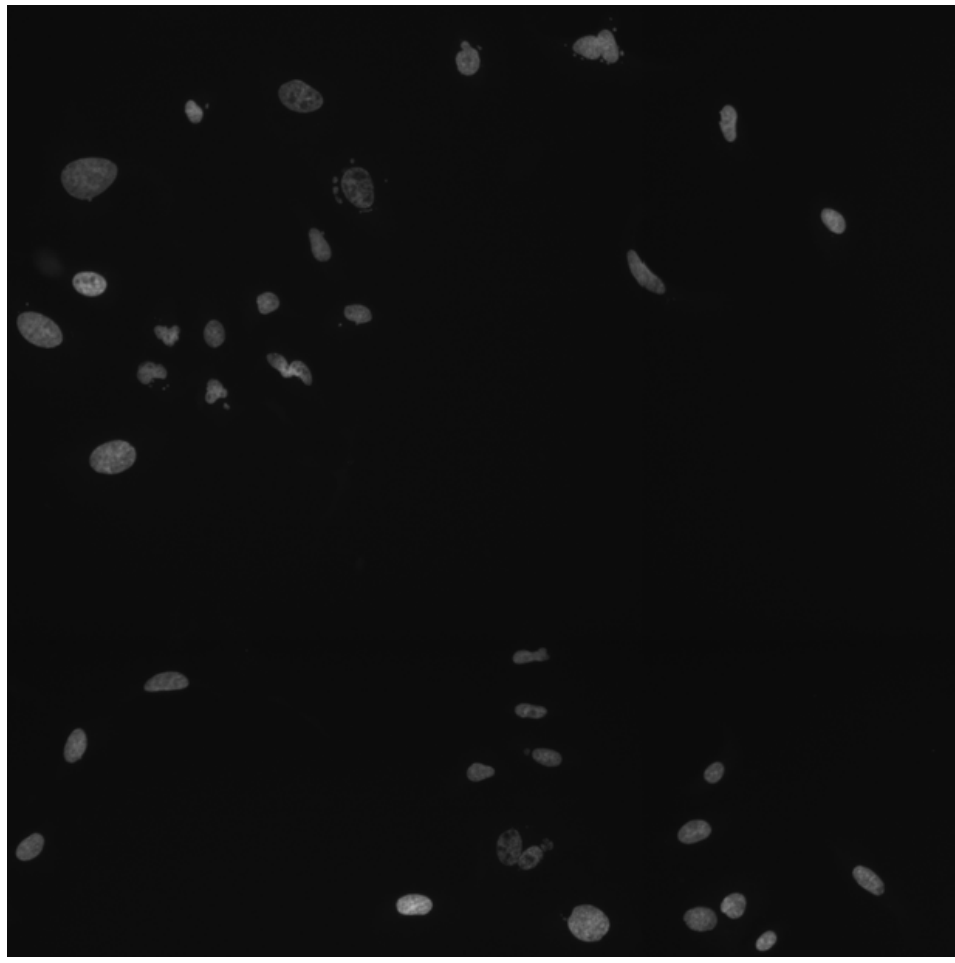
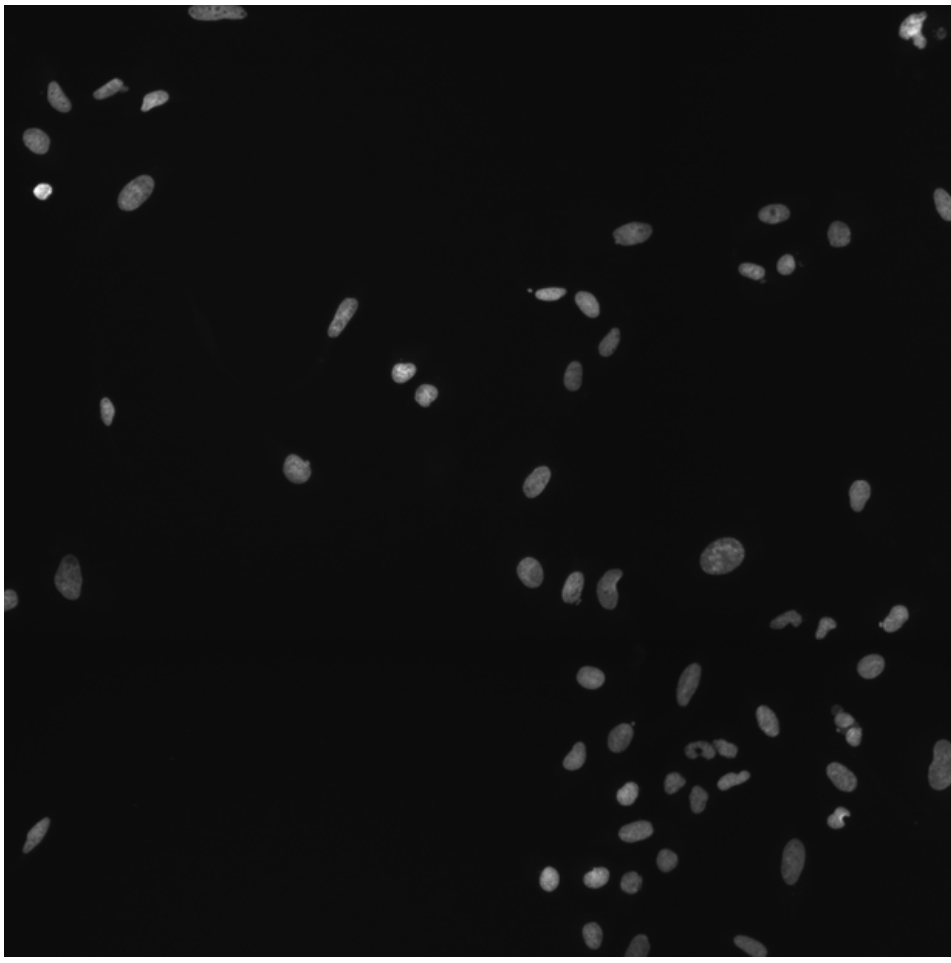
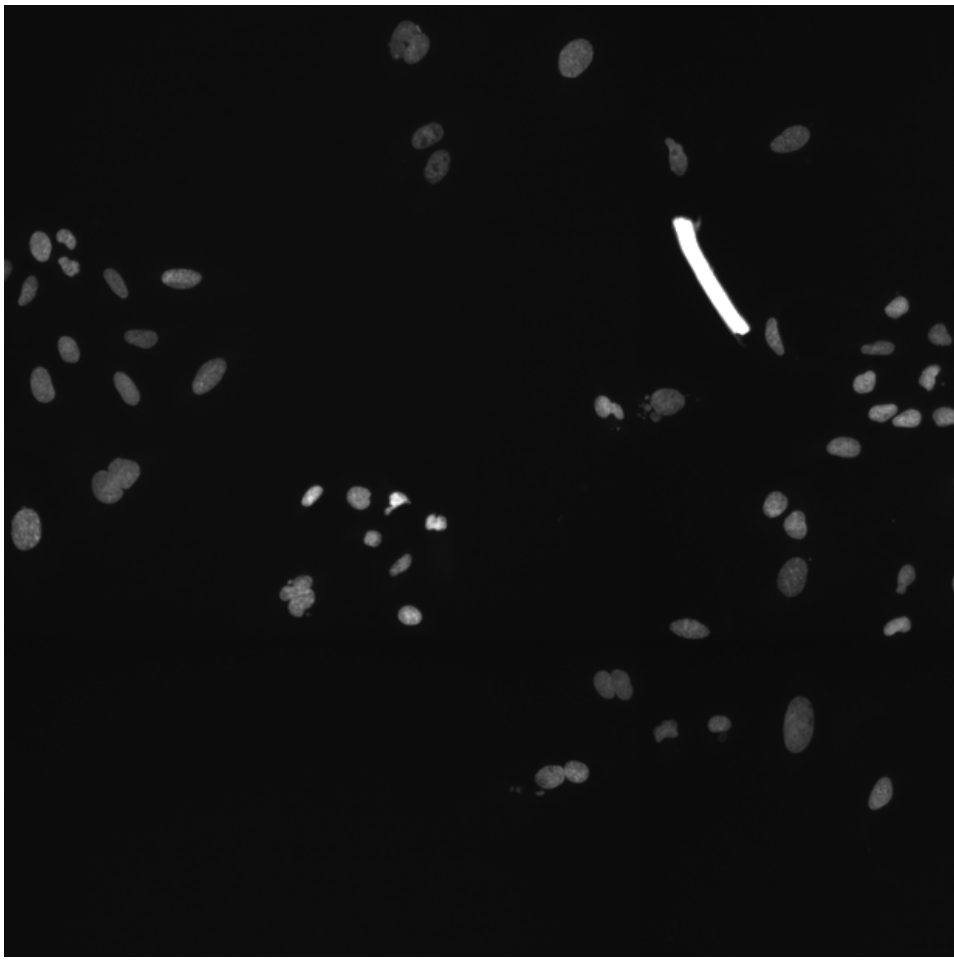
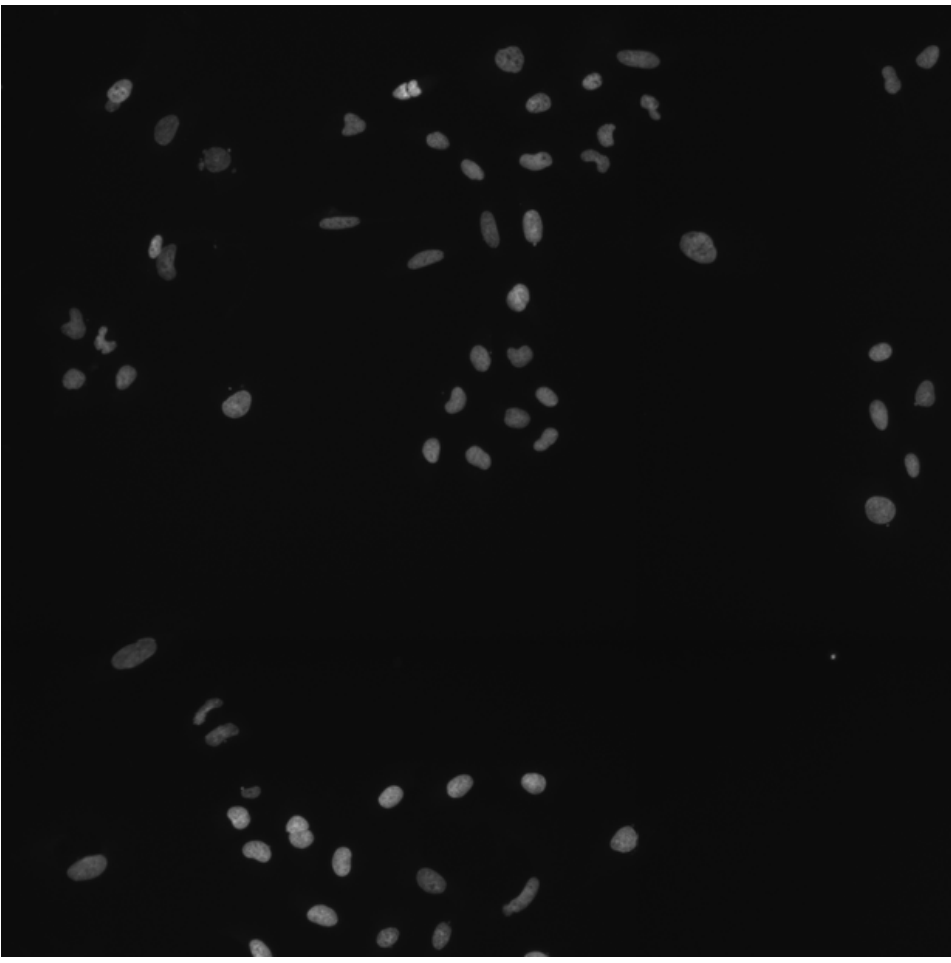
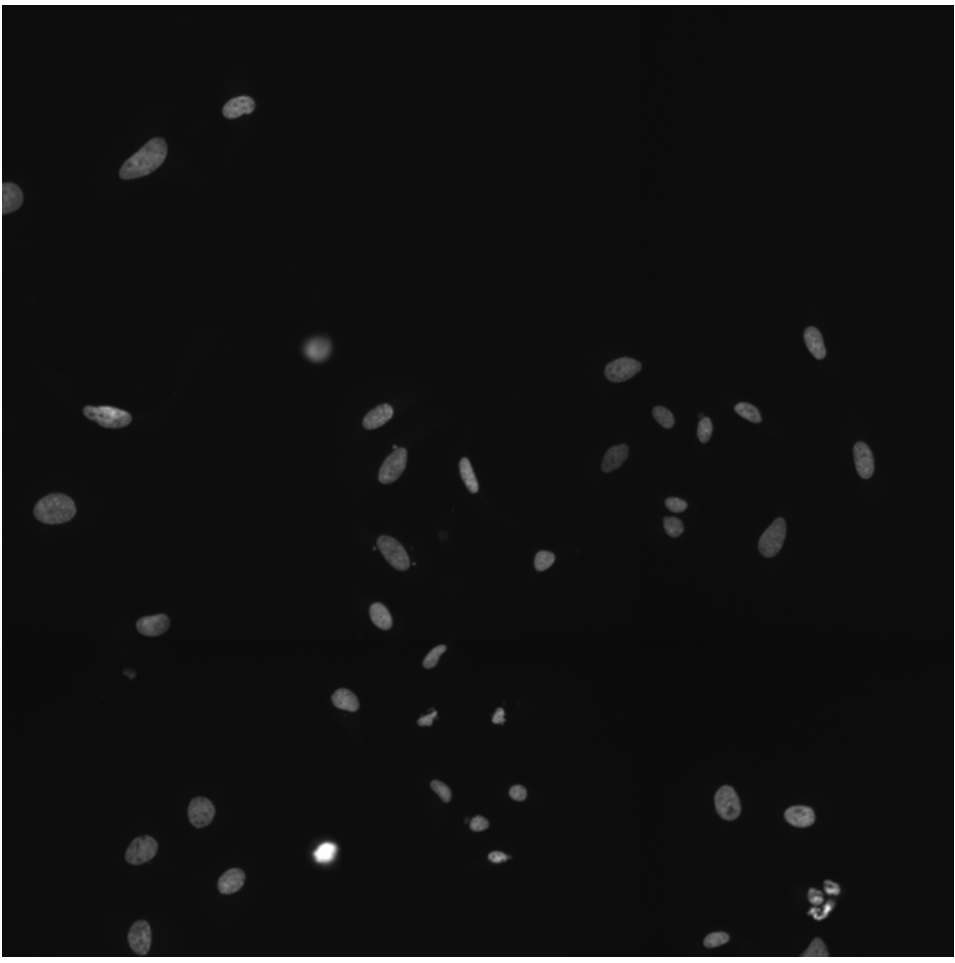
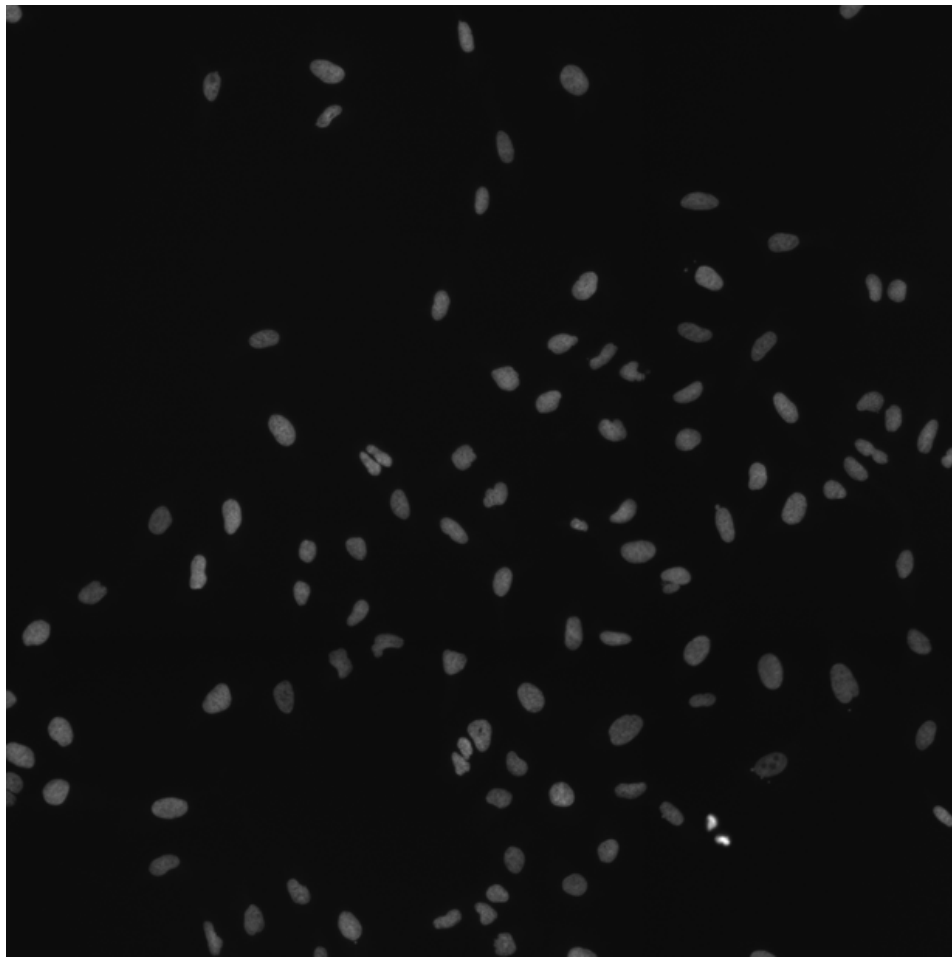
HRAS.G12V (41757)

HRAS.G12V (41754)

RNA

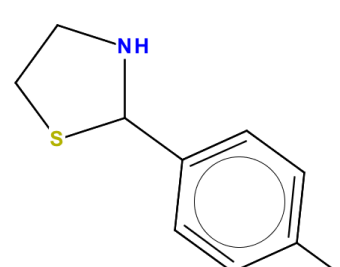
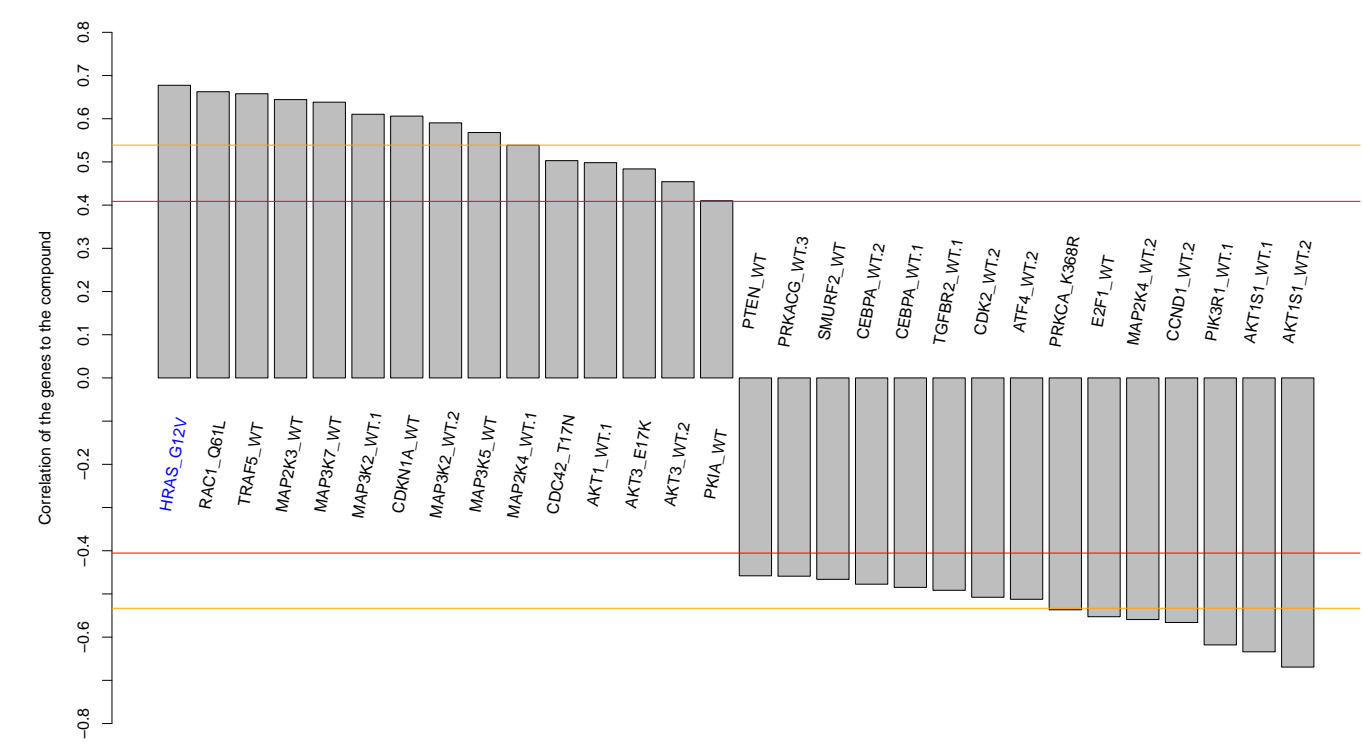
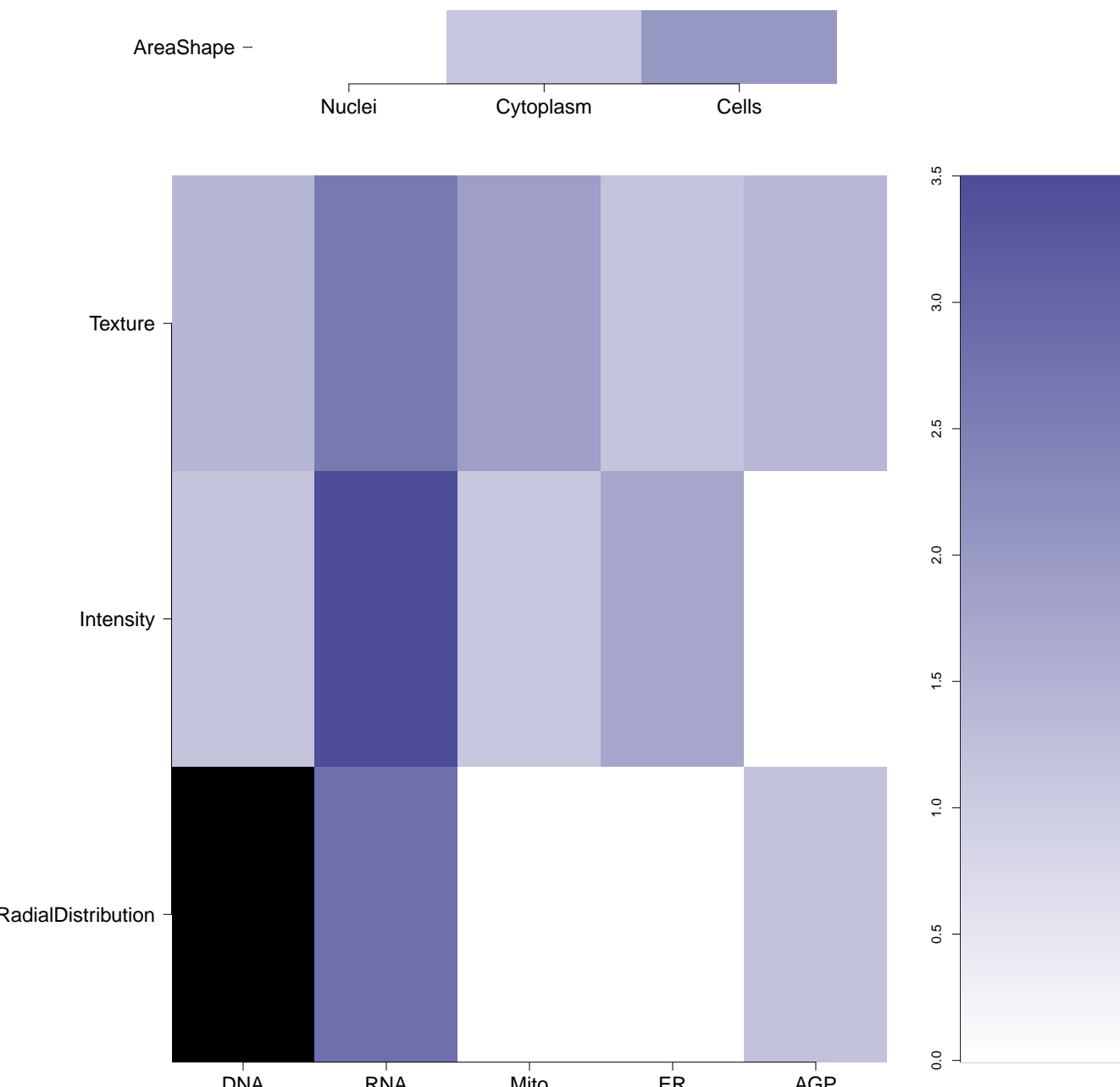
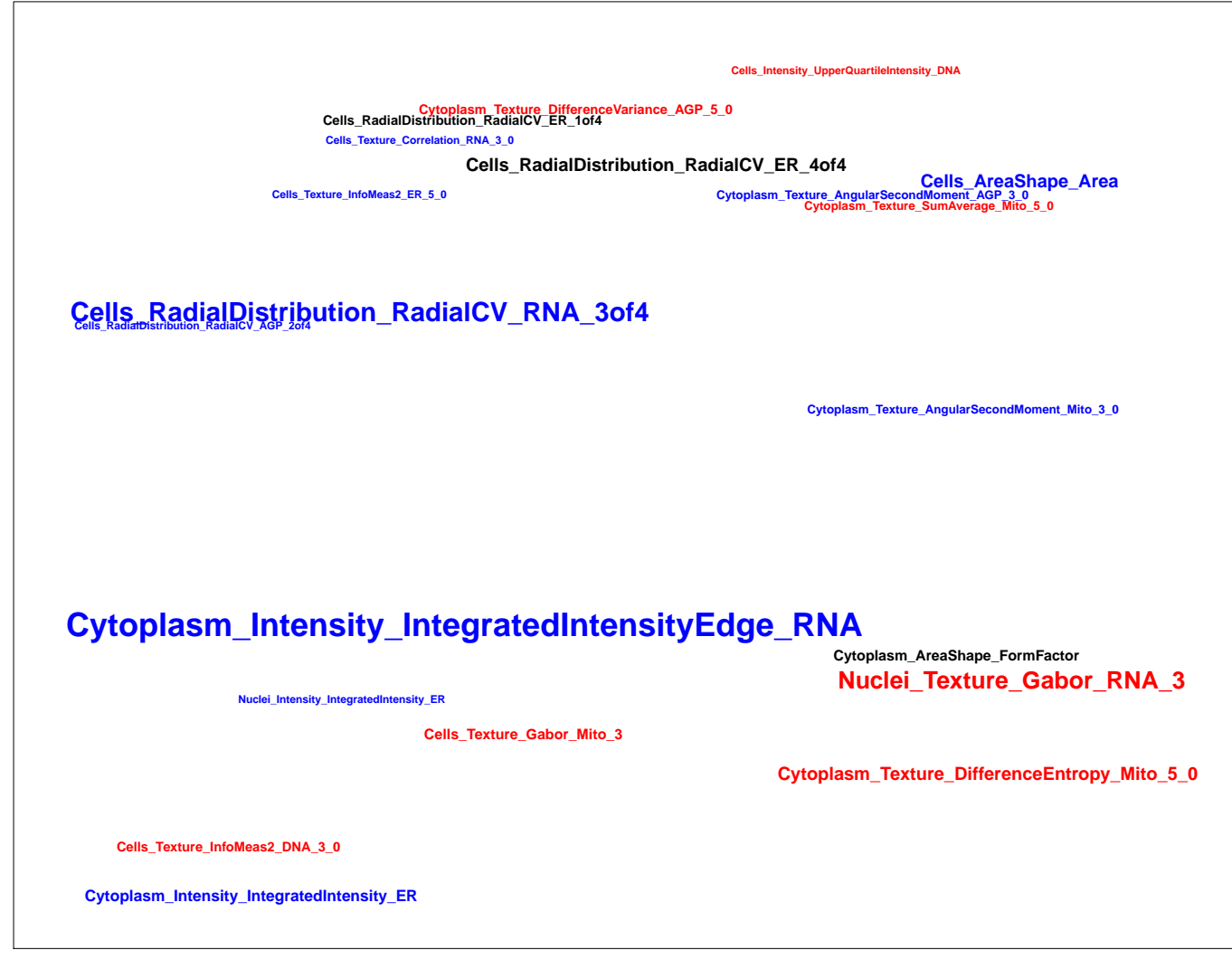
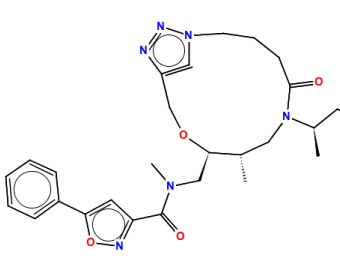
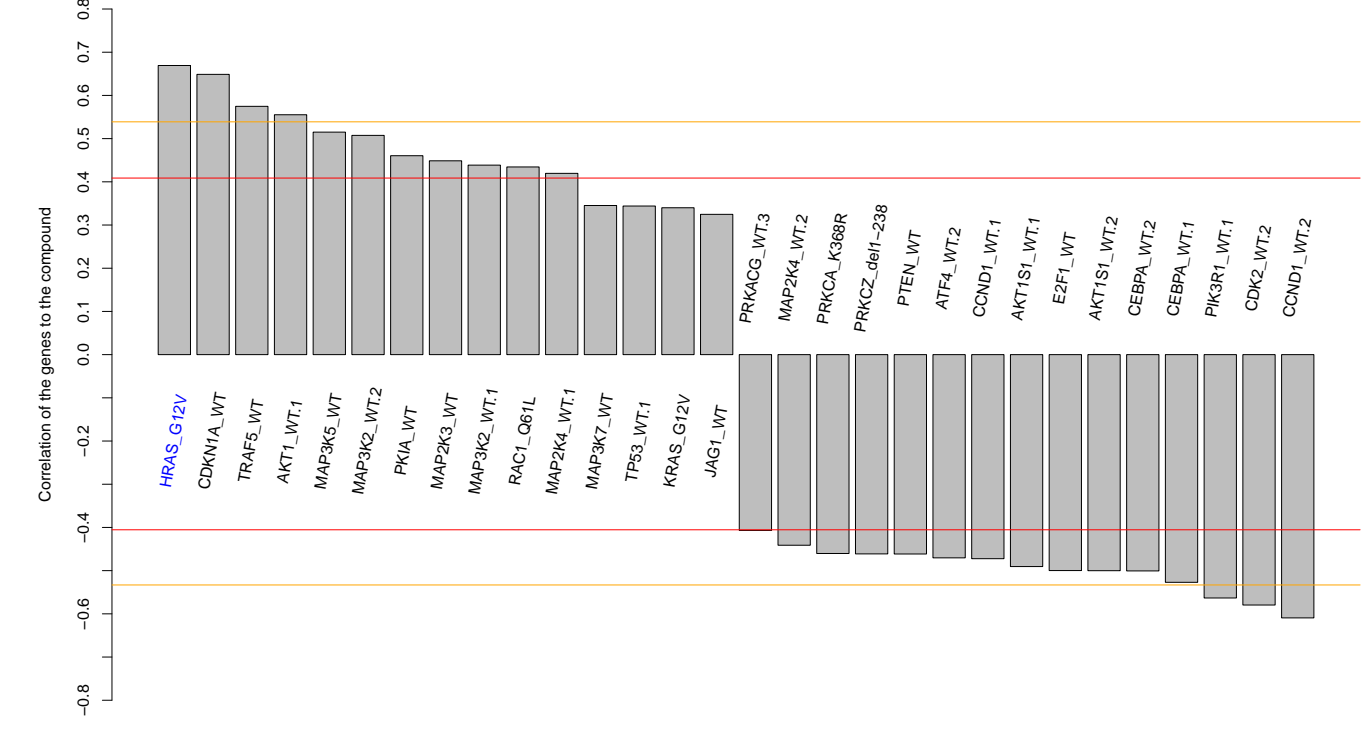
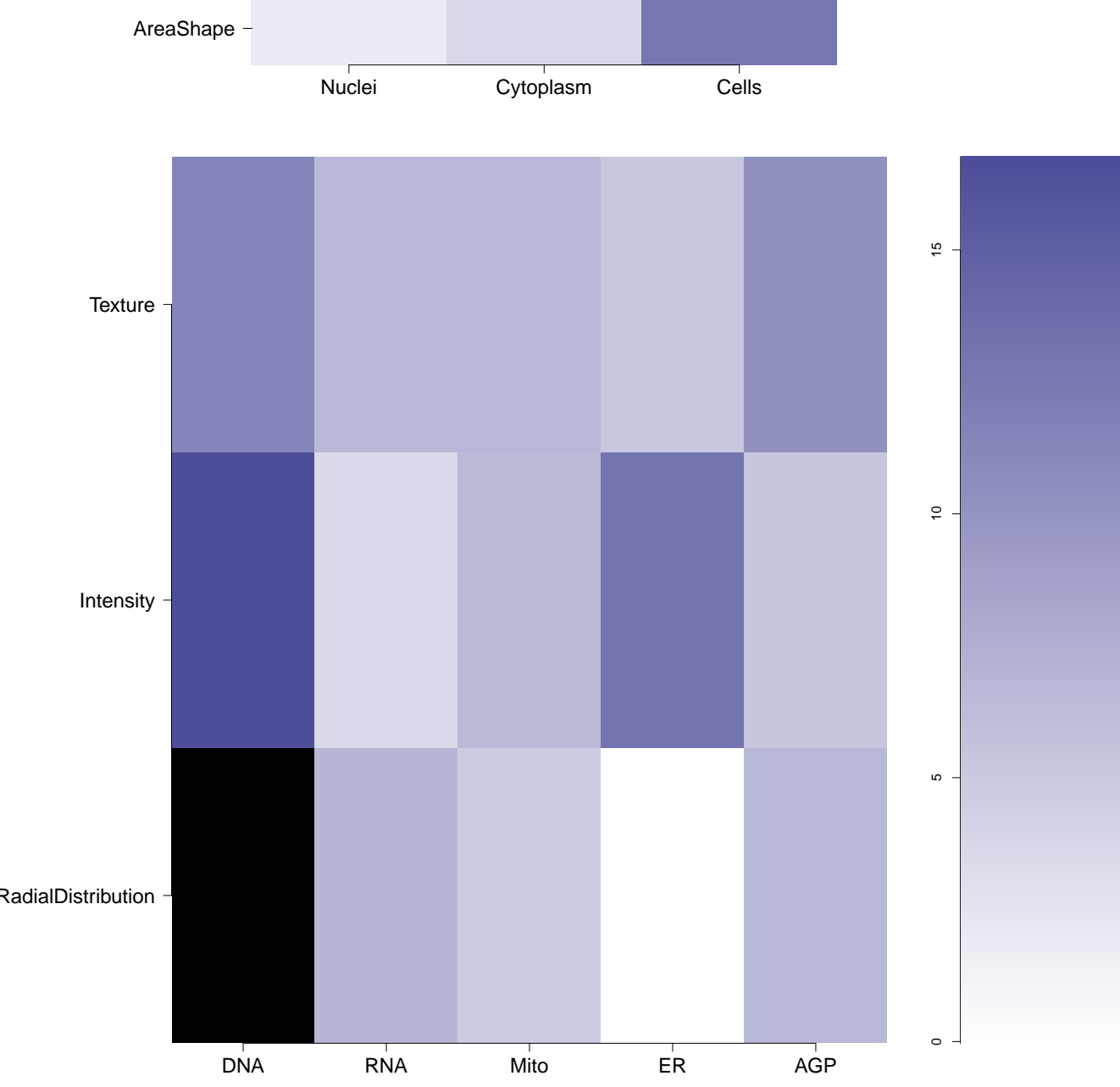

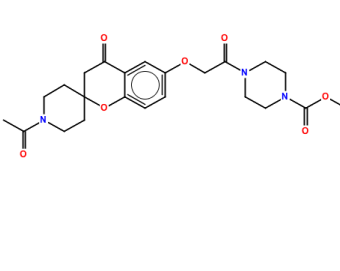
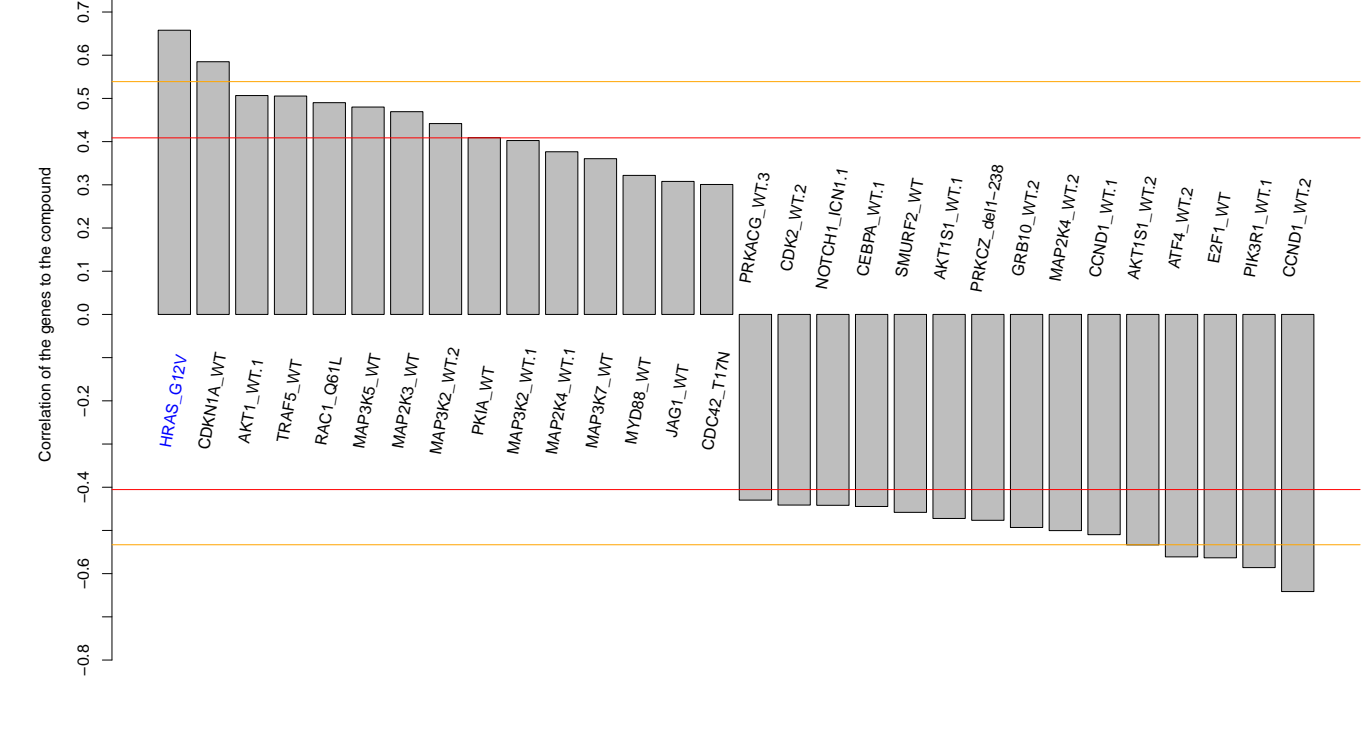
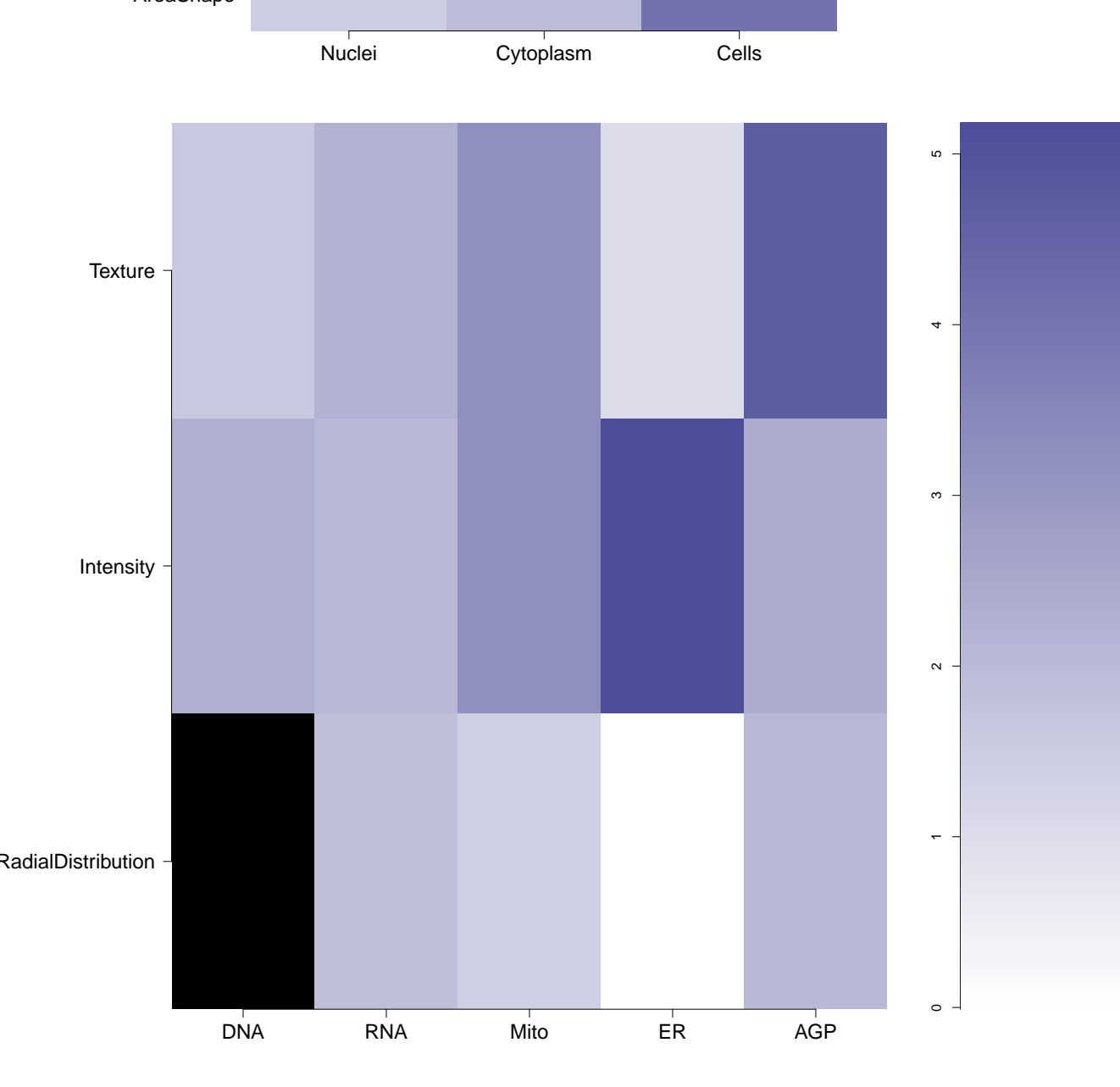

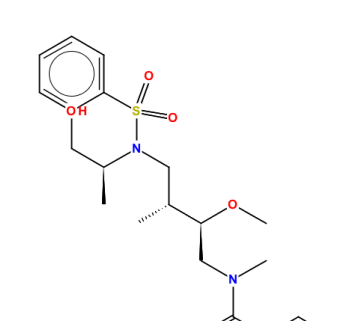
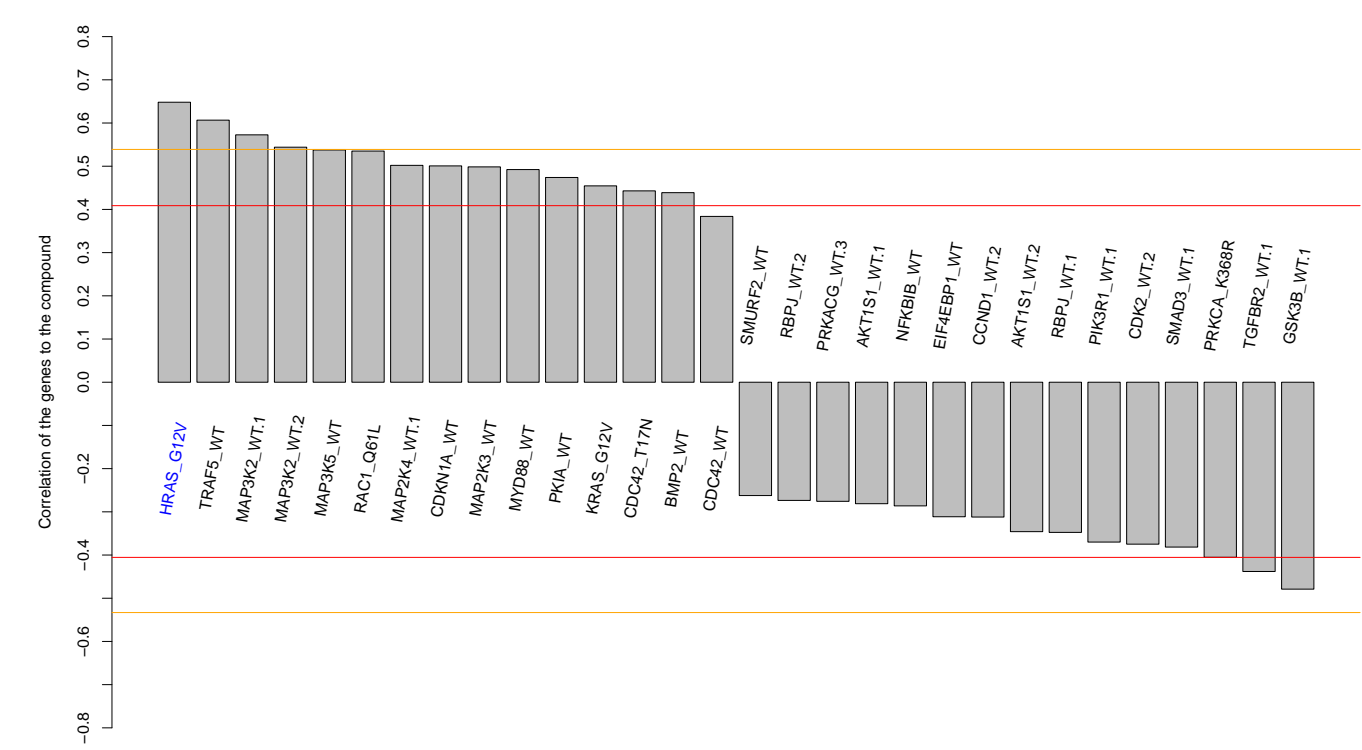
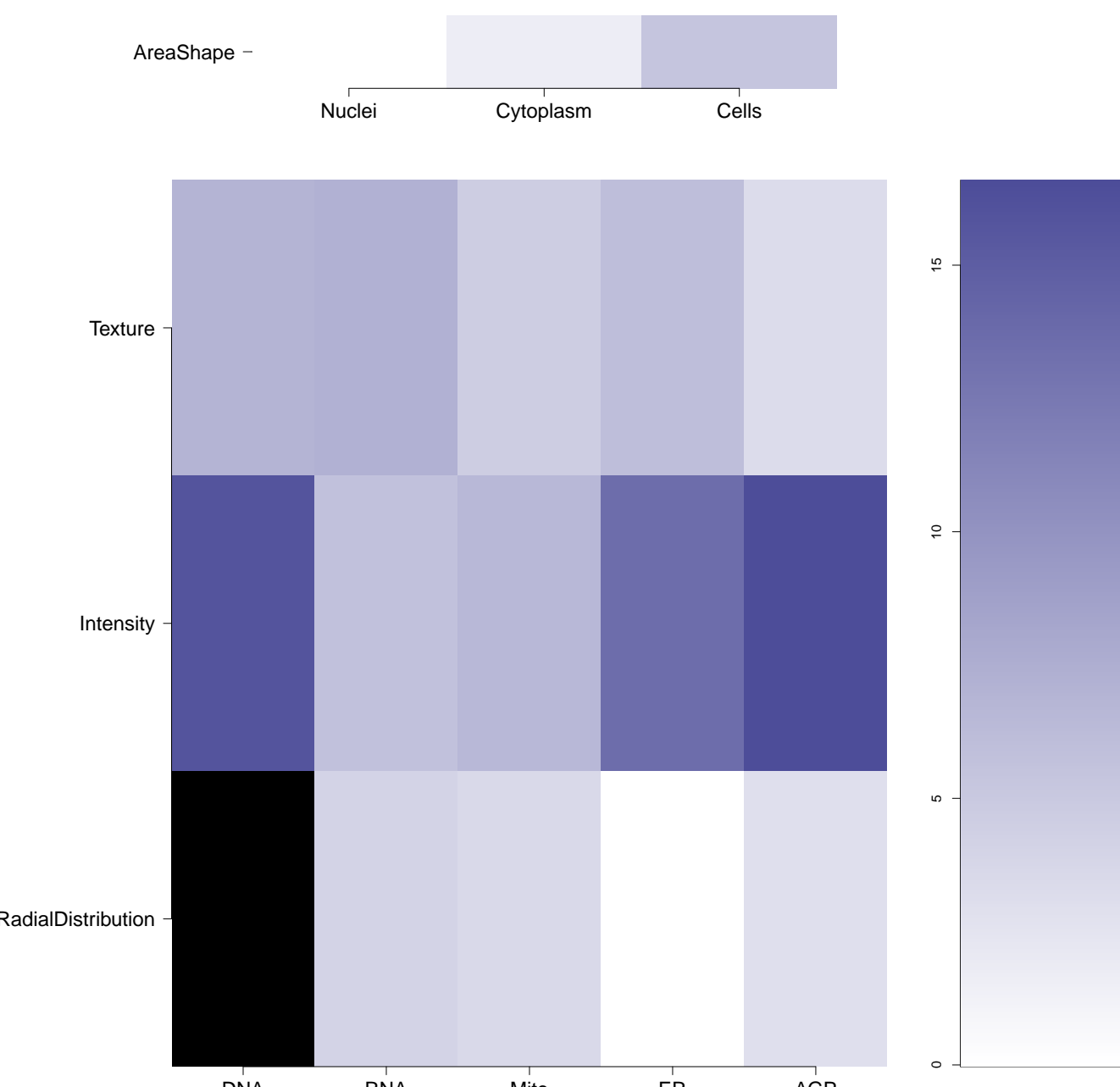
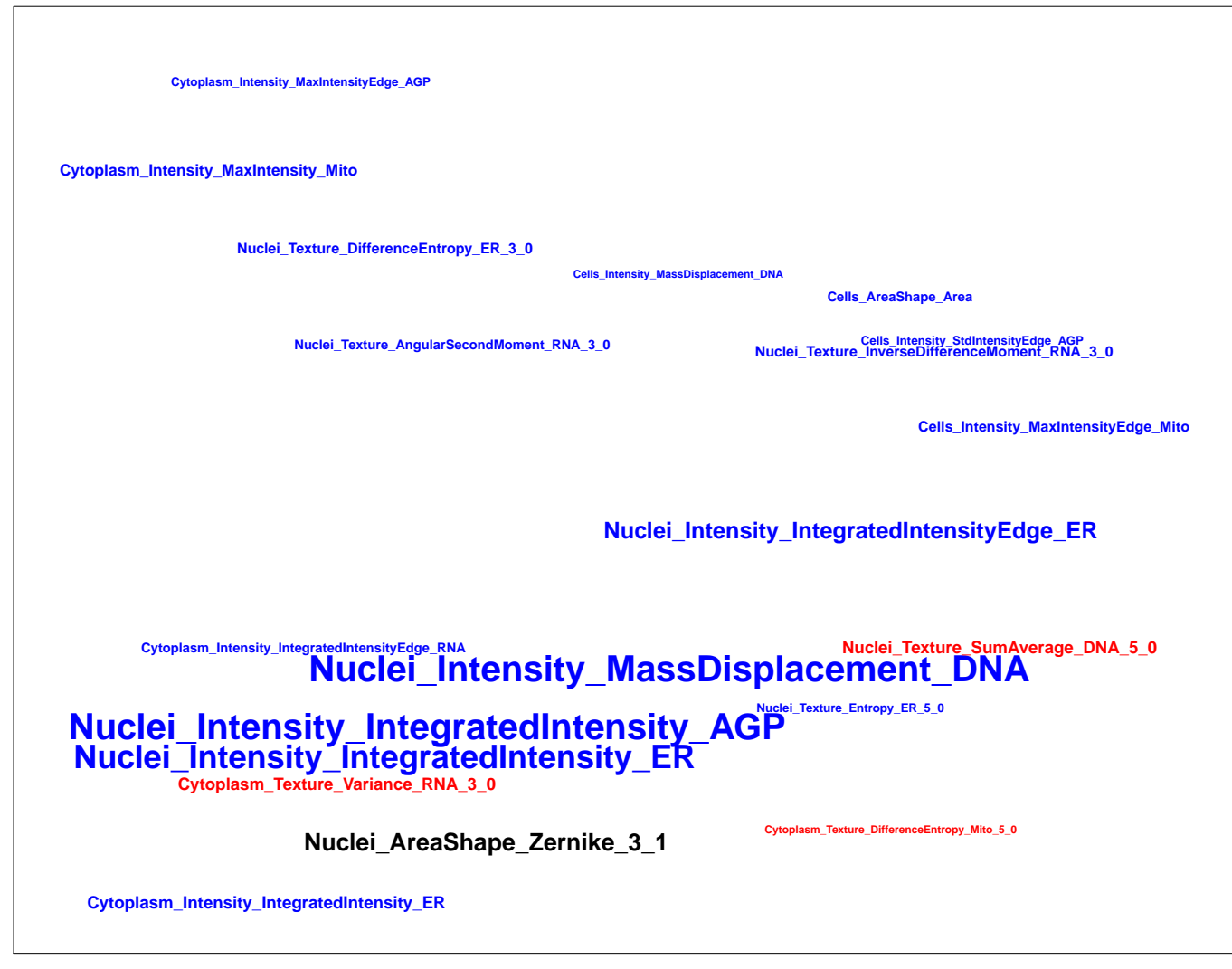
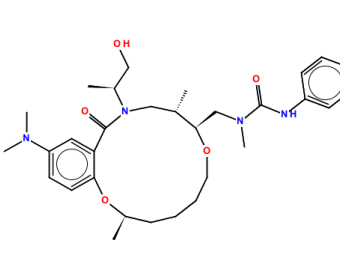
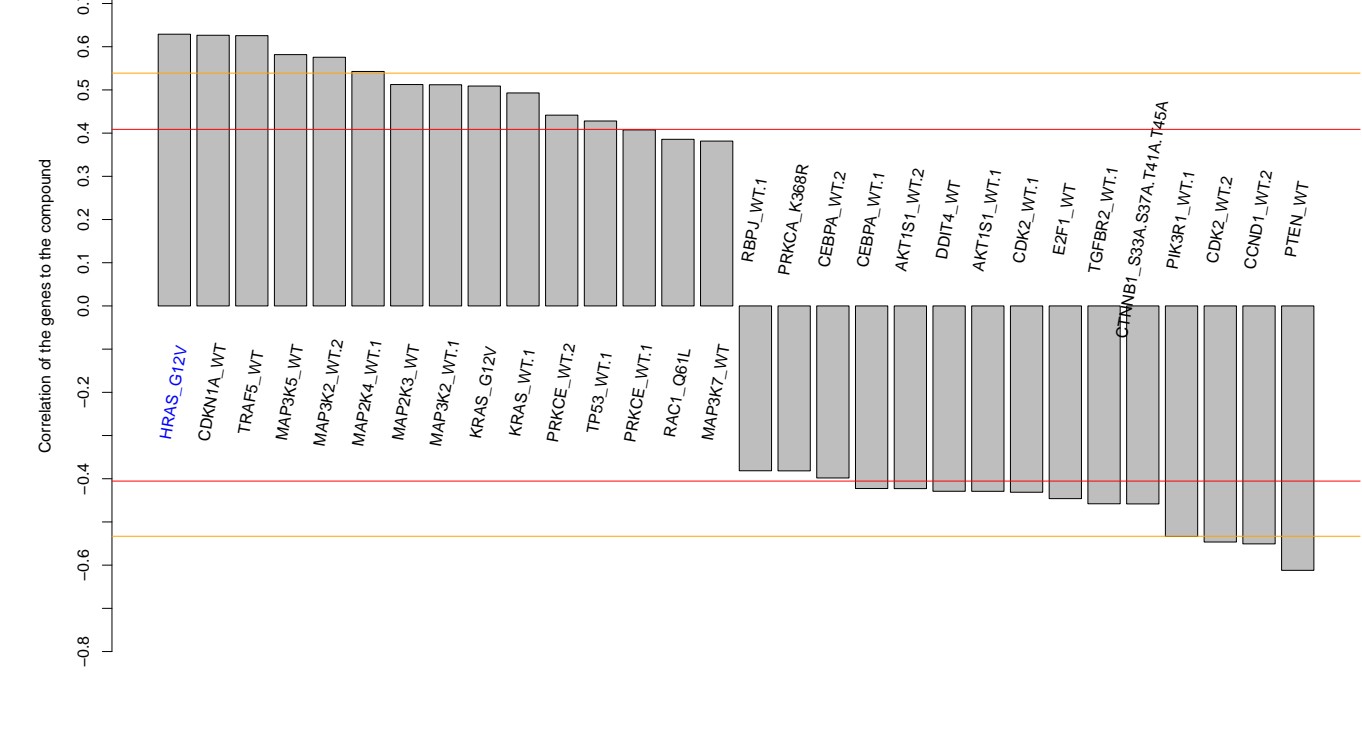
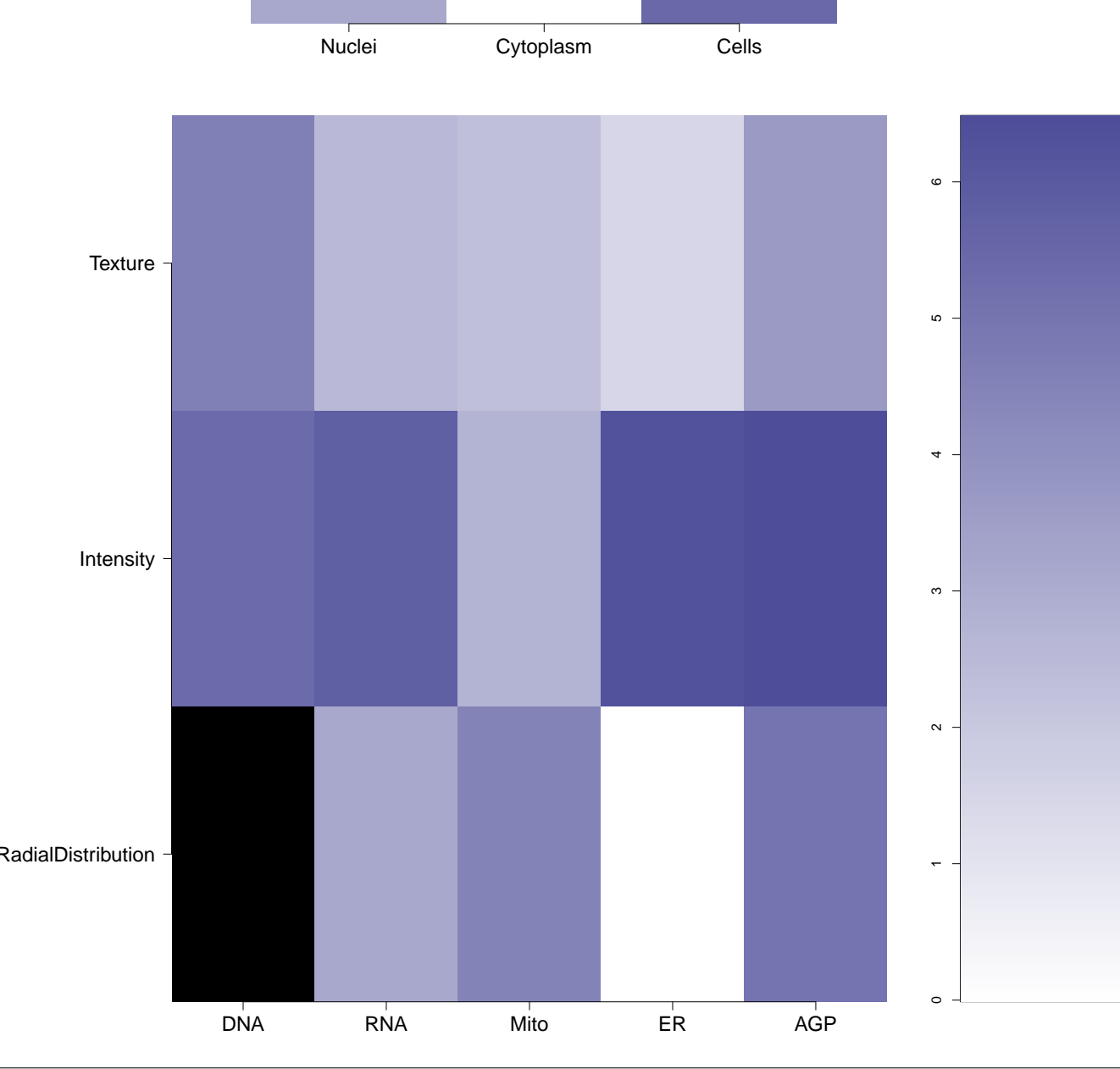



DNA



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

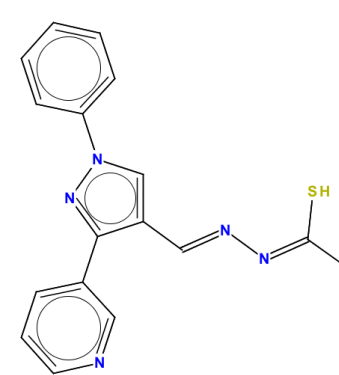
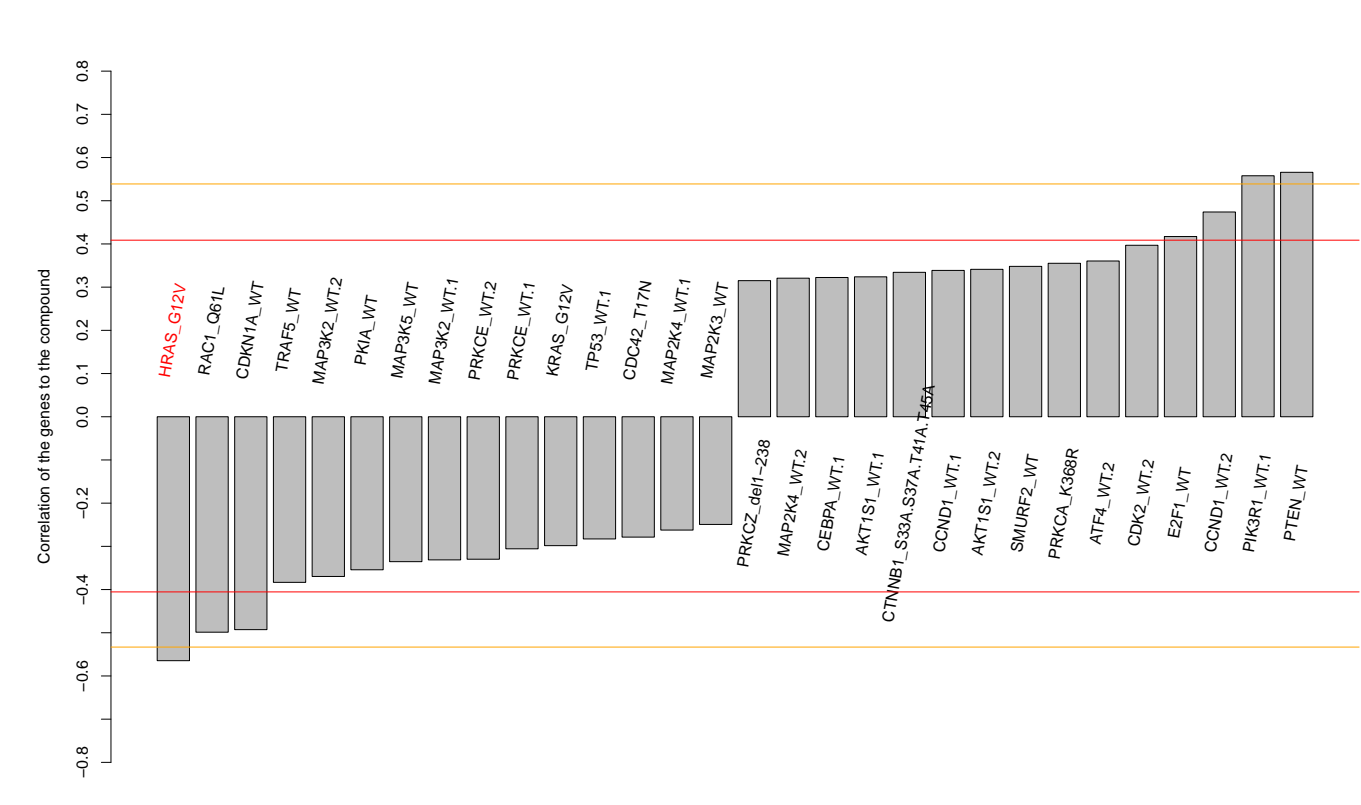
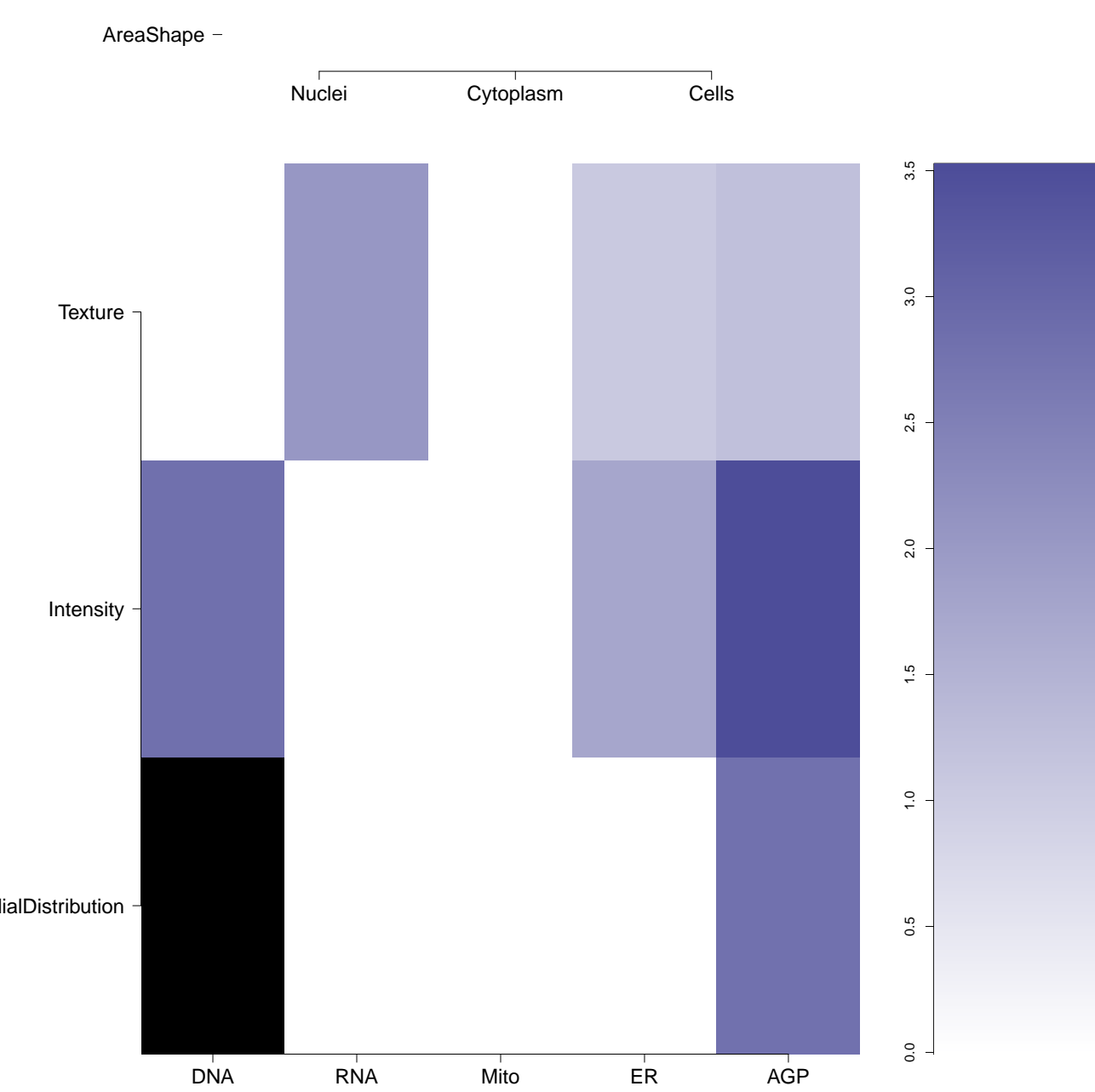

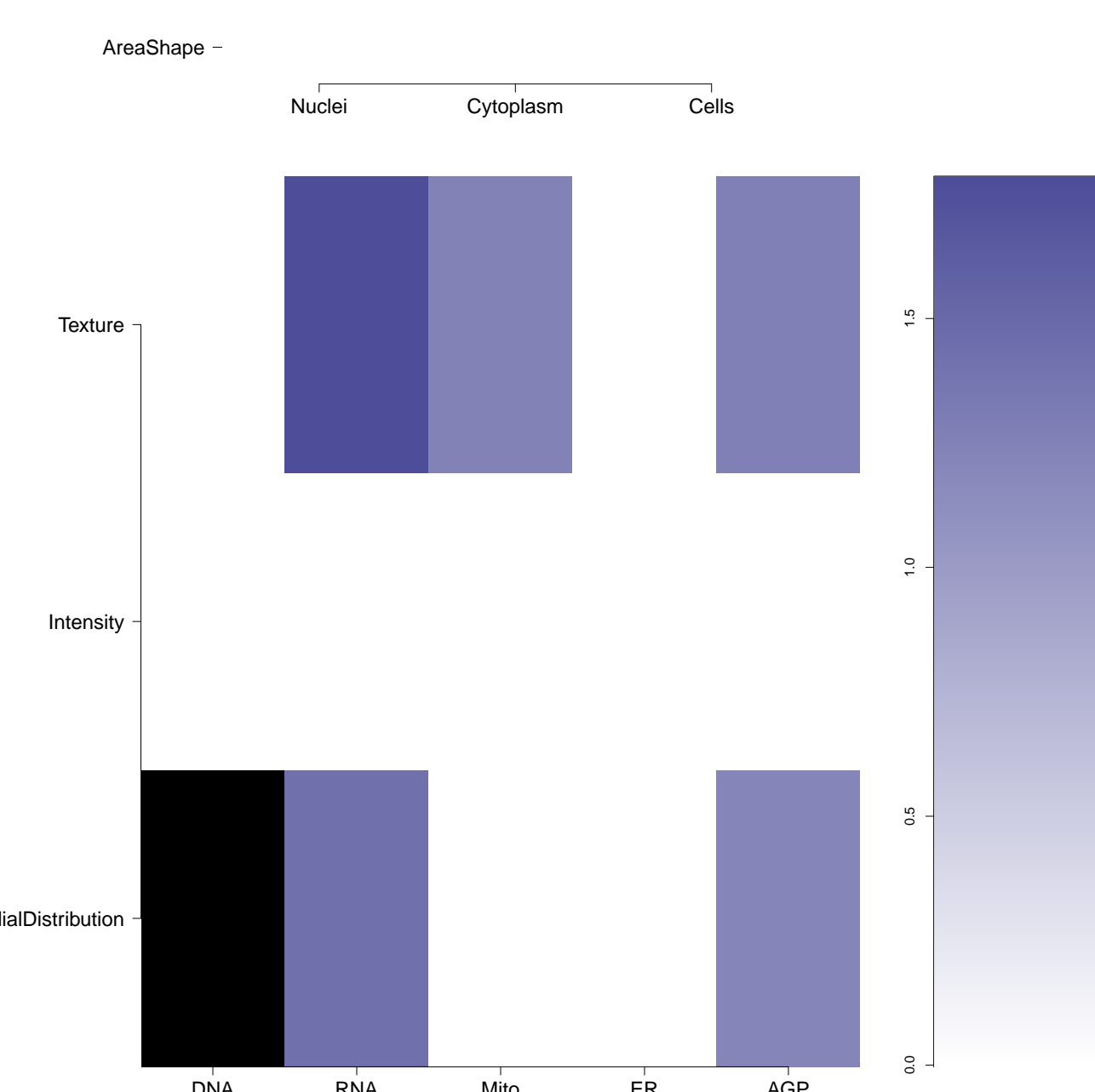

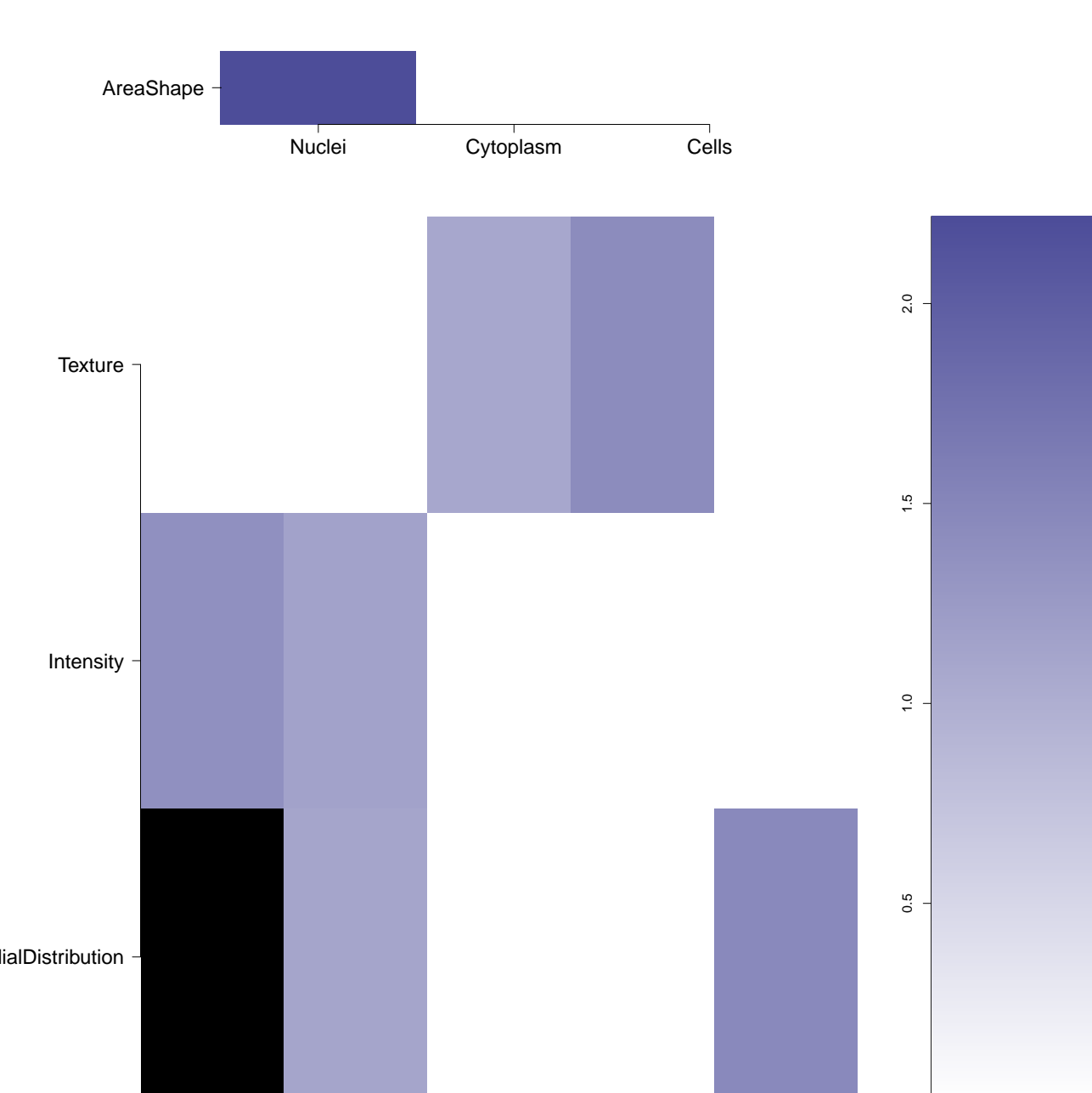
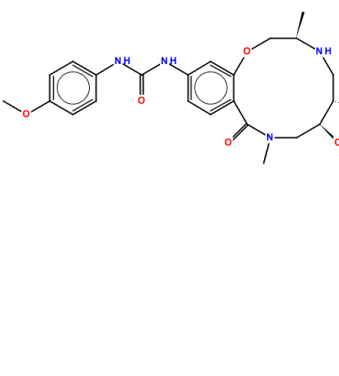
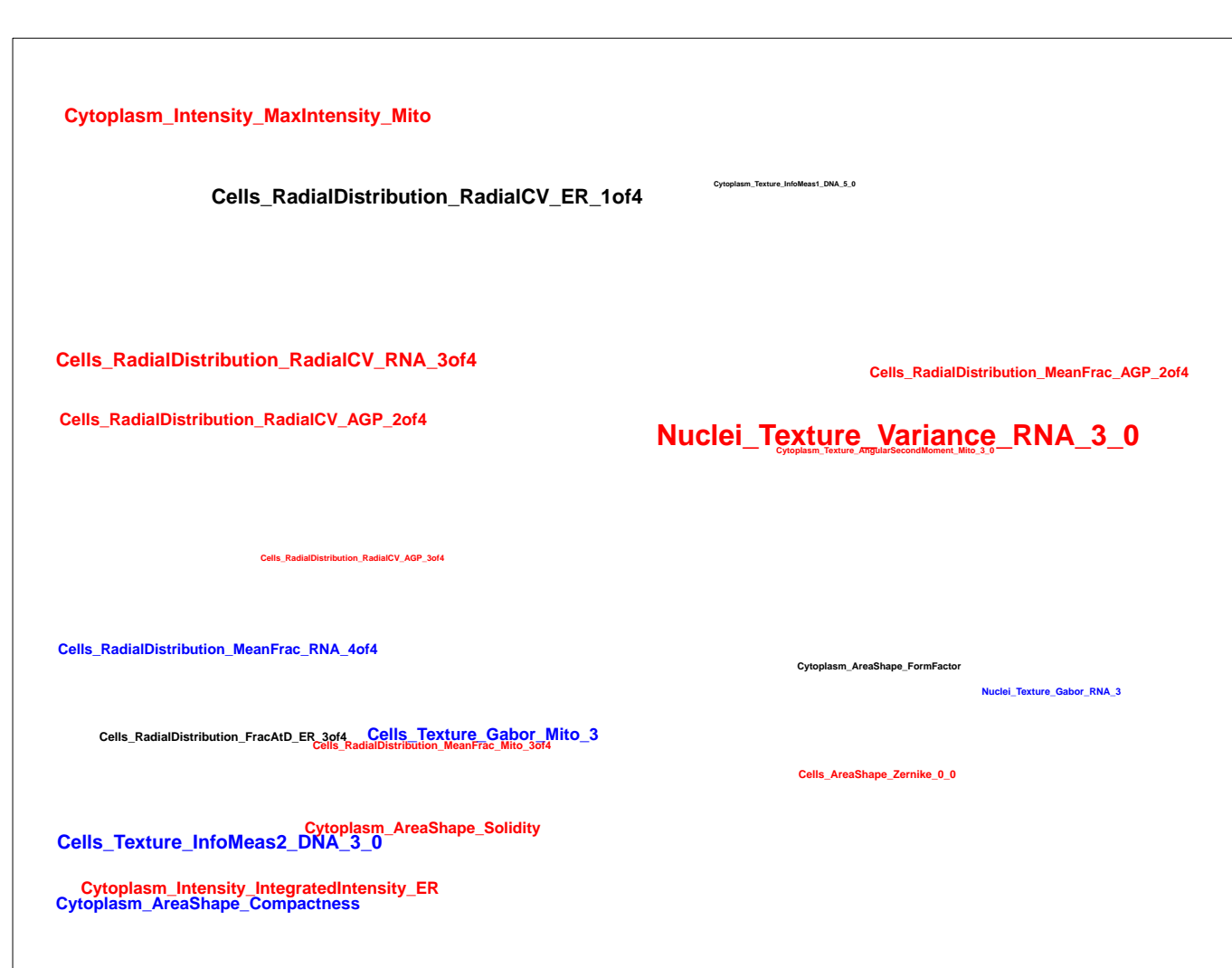


BRD-A41484464-001-06-0 BRN 1211793 67086-81-1 F1912-0001 AC1MCJDX MLS000678441 CTK517353 HMS2721O10 HE088600 KB-92026 SMR000323916 KB-323361 LS-151122 PubChem CID : 2771064		NA (in 1 replicates)	0.68	NA				<p>Total number of assays tested in: 617. Active in the following assays:</p> <ul style="list-style-type: none"> <li>• qHTS identification of TNAP inhibitors in the absence of phosphate acceptor performed in luminescence assay (AID 1012)</li> <li>• Aqueous Solubility from MLSMR Stock Solutions (AID 1996)</li> <li>• Primary biochemical fluorescence polarization-based high throughput screening assay to identify inhibitors of protein arginine methyltransferase 1 (PRMT1) (AID 652257)</li> </ul>
BRD-K56304906-001-02-5 SMR003129426 SMR001833872 PubChem CID : 44486349		0.91 (in 3 replicates)	0.67	0.758				<p>Total number of assays tested in: 228.</p>
BRD-K38205896-001-05-2 SMR000023108 MLS000086885 AC1MMG1R MLS000876616 HMS2437A17 ZINC4104033 CCG-127829 PubChem CID : 3238189		NA (in 1 replicates)	0.66	NA				<p>Total number of assays tested in: 779. Active in the following assays:</p> <ul style="list-style-type: none"> <li>• qHTS Assay for Spectroscopic Profiling in 4-MU Spectral Region (AID 589)</li> <li>• qHTS Assay for Spectroscopic Profiling in A350 Spectral Region (AID 590)</li> <li>• Profiling the NIH Molecular Libraries Small Molecule Repository: Autofluorescence at 339/460 nm (AID 709)</li> <li>• uHTS for 14-3-3/3ad interaction inhibitors (AID 781)</li> <li>• qHTS Assay for Inhibitors of HADH2 (Hydroxyacyl-Coenzyme A Dehydrogenase, Type II) (AID 886)</li> <li>• qHTS Assay for Inhibitors of HSD17B4, hydroxysteroid (17-beta) dehydrogenase 4 (AID 893)</li> <li>• Fluorescence-based biochemical primary high throughput screening assay to identify inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 588726)</li> <li>• Fluorescence-based biochemical high throughput confirmation assay for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 651616)</li> <li>• qHTS Assay for Activators of ClpP (AID 651965)</li> <li>• Fluorescence Intensity-based biochemical primary high throughput screening assay to identify activators of kallikrein-7 (K7) zymogen (AID 652039)</li> <li>• Counterscreen for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis: Fluorescence-based biochemical high throughput Glycophosphate Dehydrogenase-Triosephosphate Isomerase (GDH-TPI) assay to identify assay artifacts (AID 652141)</li> <li>• Fluorescence Intensity-based biochemical primary high throughput confirmation assay to identify activators of kallikrein-7 (K7) zymogen (AID 686949)</li> <li>• Counterscreen for activators of kallikrein-7 (K7) zymogen: Fluorescence intensity-based biochemical high throughput counterscreen assay for activators that optically interfere with measurement of EDANS-DABCYL fluorescence (AID 686952)</li> </ul>
BRD-K85229892-001-01-7 PubChem CID : 54649286		0.92 (in 2 replicates)	0.65	0.183				<p>Total number of assays tested in: 38.</p>
BRD-K87465930-001-01-9 PubChem CID : 44620463		0.87 (in 4 replicates)	0.63	0.758				<p>Total number of assays tested in: 22.</p>



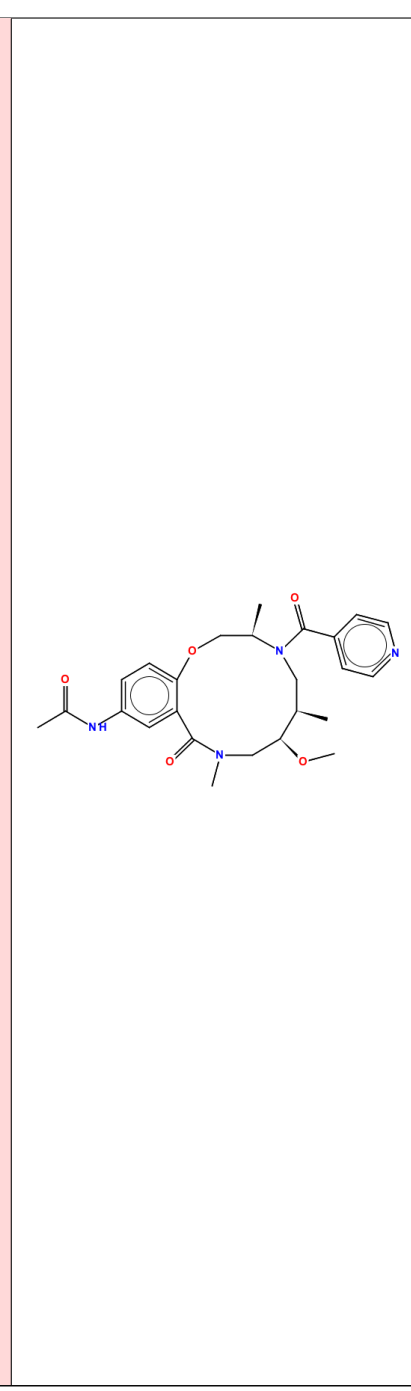
<div>BRD-A16346972-001-06-7</div> <div>SMR000035856</div> <div>AC1LDFIZ</div> <div>MLS000039685</div> <div>HMS2404A08</div> <div>STK217615</div> <div>ST50160680</div> <div>PubChem CID : 666227</div>	<chem>COc1ccc(cc1)-c2cc3cc(ccc3cc2)-c4ccc5ccccc54</chem>	0.65 (in 4 replicates)	0.63	NA				<div>Total number of assays tested in: 775. Active in the following assays:</div> <ul style="list-style-type: none"><li>• CYP2C9 Assay (AID 777)</li><li>• CYP2C19 Assay (AID 778)</li><li>• qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030)</li><li>• Luminescence Cell-Based/Microorganism Primary HTS to Identify Inhibitors of T.Cruzi Replication (AID 1885)</li><li>• Luminescence Cell-Based/Microorganism Dose Confirmation HTS to Identify Inhibitors of T.Cruzi Replication. (AID 2044)</li><li>• qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)</li><li>• Nr12 qHTS screen for inhibitors (AID 504444)</li><li>• Primary qHTS for delayed death inhibitors of the malarial parasite plasid, 48 hour incubation (AID 504832)</li><li>• Primary qHTS for delayed death inhibitors of the malarial parasite plasid, 96 hour incubation (AID 504834)</li><li>• qHTS for Inhibitors of binding or entry into cells for Lassa Virus (AID 540256)</li><li>• qHTS for inhibitors of binding or entry into cells for Marburg Virus (AID 540276)</li><li>• Primary cell-based high-throughput screening for identification of compounds that inhibit/block calcium-activated chloride channels (TMEM16A) (AID 588511)</li><li>• qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820)</li><li>• Re-confirmation assay for identification of compounds that inhibit/block calcium-activated chloride channels (TMEM16A) (AID 652189)</li><li>• Luminescence-based cell-based primary high throughput screening assay to identify inhibitors of COUP-TFII (NR2F2) (AID 686940)</li><li>• qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)</li><li>• qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979)</li><li>• Luminescence-based cell-based high throughput confirmation assay to identify inhibitors of COUP-TFII (NR2F2) (AID 687088)</li><li>• High Throughput Screening for Foot and Mouth Disease Virus Antivirals (AID 1159524)</li></ul>
<div>BRD-K71254735-001-01-2</div> <div>PubChem CID : 44505032</div>	<chem>CC1(C)C(C(C(C1)C)C)C2=CC=CC=C2</chem>	0.93 (in 3 replicates)	0.62	0.758				<div>Total number of assays tested in: 27.</div>
<div>BRD-K20433775-001-01-5</div> <div>PubChem CID : 54657676</div>	<chem>CC1(C)C(C(C(C1)C)C)C2=CC=CC=C2</chem>	0.93 (in 4 replicates)	0.61	0.183				<div>Total number of assays tested in: 39.</div>
<div>BRD-K81821583-001-02-7</div> <div>MLS003129469</div> <div>SMR001833915</div> <div>PubChem CID : 44505056</div>	<chem>CC1(C)C(C(C(C1)C)C)C2=CC=CC=C2</chem>	0.91 (in 3 replicates)	0.60	0.153				<div>Total number of assays tested in: 220. Active in the following assays:</div> <ul style="list-style-type: none"><li>• HTS to identify compounds that promote myeloid differentiation with MLPCN compound set (AID 624256)</li></ul>
<div>BRD-K53174909-001-01-4</div> <div>PubChem CID : 44488693</div>	<chem>CC1(C)C(C(C(C1)C)C)C2=CC=CC=C2</chem>	0.90 (in 3 replicates)	0.57	0.170				<div>Total number of assays tested in: 33.</div>



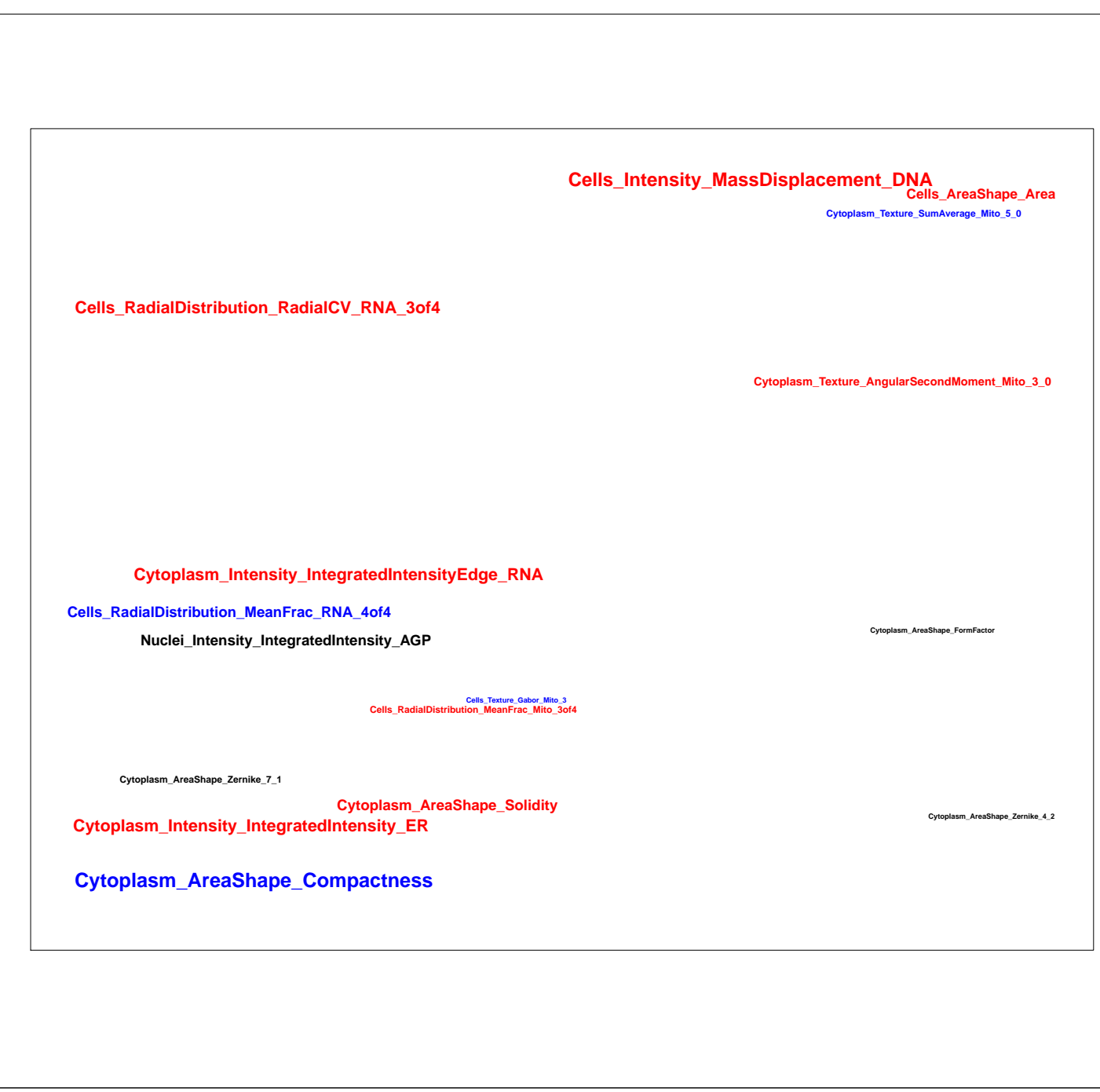
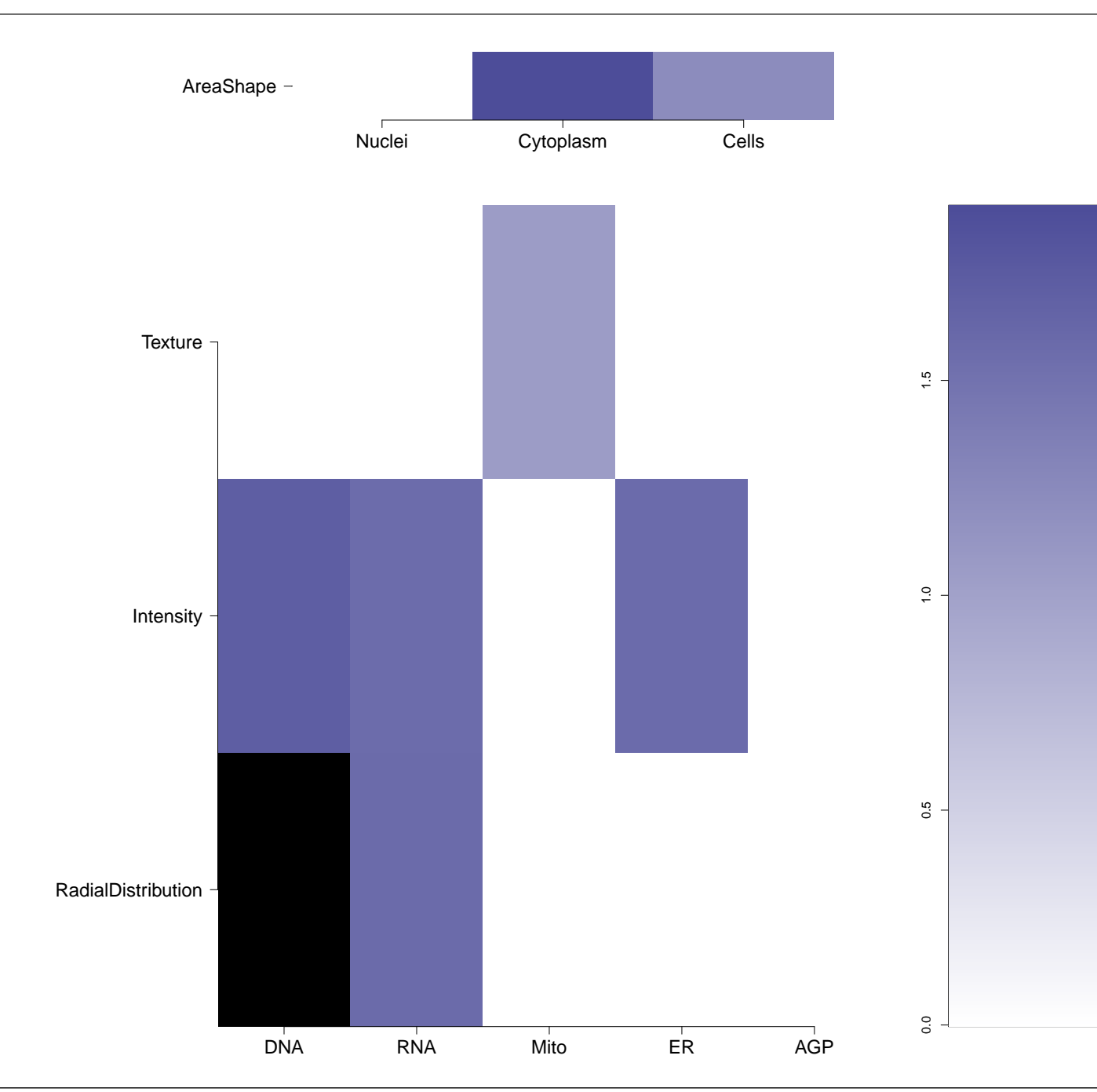
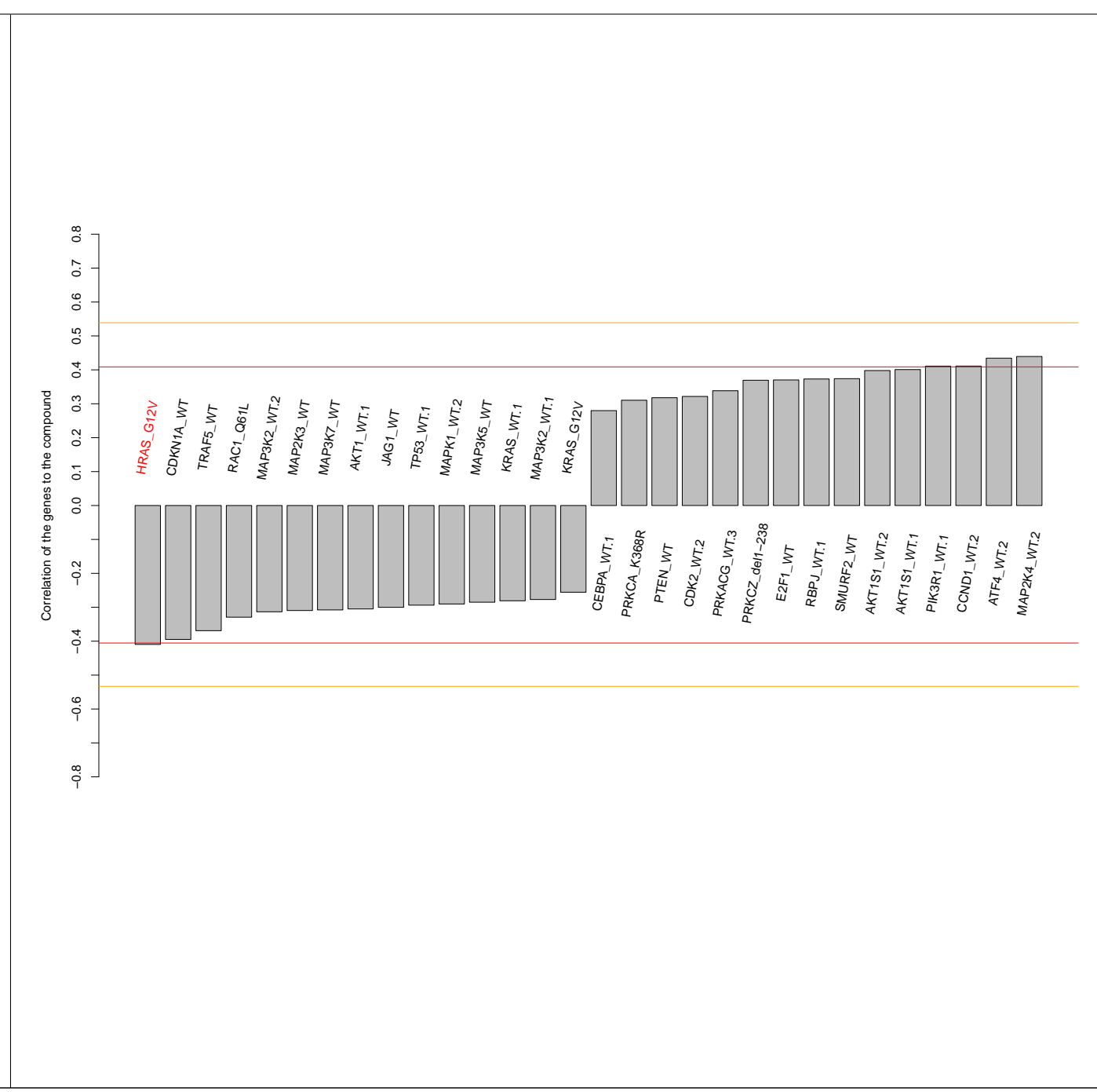
<p>BRD-K47479852-001-05-4</p> <p>T0502-0158</p> <p>AC1OCBLD</p> <p>MLS001018827</p> <p>HMS1782M03</p> <p>ZINC12729559</p> <p>SMR000363219</p> <p>PubChem CID : 6899059</p>		<p>NA (in 1 replicates)</p>	<p>-0.56</p>	<p>NA</p>				<p>Total number of assays tested in: 581. Active in the following assays:</p> <ul style="list-style-type: none"> <li>Luminescence-based primary biochemical high throughput screening assay to identify inhibitors of the Heat Shock Protein 90 (HSP90) (AID 1789)</li> <li>qFRET-based counterscreen for PFM18AAP inhibitors: biochemical high throughput screening assay to identify inhibitors of the Cathepsin L proteinase (CTSL1). (AID 1906)</li> <li>Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)</li> <li>VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546)</li> <li>qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)</li> <li>Inhibitors of the vitamin D receptor (VDR): qHTS (AID 504847)</li> <li>Luminescence-based cell-based primary high throughput screening assay to identify activators of the GAA850 frataxin (FXN) promoter (AID 540364)</li> <li>qHTS profiling assay for firefly luciferase inhibitor/activator using purified enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)</li> <li>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 588550)</li> <li>Luminescence-based cell-based high throughput confirmation assay for activators of the GAA850 frataxin (FXN) promoter (AID 588351)</li> <li>Luminescence-based cell-based primary high throughput screening assay to identify activators of the function of SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2, BRM) (AID 652017)</li> <li>qHTS for Inhibitors of phosphatidylinositol 5-phosphate 4-kinase (PIP4K) (AID 652105)</li> <li>qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)</li> <li>qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979)</li> <li>qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504)</li> </ul>
<p>BRD-K23349860-001-01-6</p> <p>PubChem CID : 44487412</p>		<p>0.56 (in 3 replicates)</p>	<p>-0.46</p>	<p>0.242</p>				<p>Total number of assays tested in: 33.</p>
<p>BRD-A87928000-001-05-4</p> <p>MLS000109722</p> <p>SMR000105661</p> <p>AC1MESLY</p> <p>BDBM37503</p> <p>HMS2309H09</p> <p>STL356738</p> <p>BAS 0072538</p> <p>PubChem CID : 2883391</p>		<p>NA (in 1 replicates)</p>	<p>-0.46</p>	<p>NA</p>				<p>Total number of assays tested in: 760. Active in the following assays:</p> <ul style="list-style-type: none"> <li>Dose Response Assay for SIP3 Antagonists (AID 484)</li> <li>Primary HTS Assay for SIP3 Antagonists (AID 485)</li> <li>Primary biochemical high-throughput screening assay for inhibitors of Focal Adhesion Kinase (FAK) (AID 727)</li> <li>qHTS Assay for Agonists of the Thyroid Stimulating Hormone Receptor: Activators of Intracellular cAMP Concentrations in Parental HEK 293 (AID 938)</li> <li>uHTS for Calpain Inhibitors (AID 1236)</li> <li>HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732)</li> <li>Elucidation of physiology of non-replicating, drug-tolerant Mycobacterium tuberculosis (AID 488890)</li> <li>A Cell Based Secondary Assay to Explore Cytotoxicity in THP-1 Cells of Compounds that Modulate Non-Replicating, Drug-tolerant Mycobacterium tuberculosis (AID 489025)</li> </ul>
<p>BRD-K29475732-001-01-9</p> <p>PubChem CID : 54646612</p>		<p>0.66 (in 4 replicates)</p>	<p>-0.46</p>	<p>0.867</p>				<p>Total number of assays tested in: 44. Active in the following assays:</p> <ul style="list-style-type: none"> <li>Mycobacterium tuberculosis BioA enzyme inhibitor Measured in Biochemical System Using Plate Reader - 2163-01 Inhibitor.SinglePoint.HTS.Activity (AID 602481)</li> <li>Mycobacterium tuberculosis BioA enzyme inhibitor Measured in Biochemical System Using Plate Reader - 2163-02 Inhibitor.Dose.CherryPick.Activity (AID 651685)</li> </ul>
<p>BRD-K34876632-001-05-3</p> <p>F3284-8116</p> <p>MLS000574098</p> <p>AC1NUF2T</p> <p>AC1Q24PG</p> <p>HMS2304G14</p> <p>SMR000195683</p> <p>PubChem CID : 5450844</p>		<p>NA (in 1 replicates)</p>	<p>-0.45</p>	<p>NA</p>				<p>Total number of assays tested in: 663. Active in the following assays:</p> <ul style="list-style-type: none"> <li>MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814)</li> <li>Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)</li> <li>A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315)</li> <li>Luminescence-based primary cell-based high throughput screening assay to identify activators of the Aryl Hydrocarbon Receptor (AHR) (AID 2796)</li> <li>qHTS assay for re-activators of p53 using a Luc reporter (AID 504706)</li> <li>qHTS profiling assay for firefly luciferase inhibitor/activator using purified enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)</li> <li>Screen for inhibitors of the SWI/SNF chromatin remodeling complex (esBAF) in mouse embryonic stem cells with Luciferase reporter assay Measured in Cell-Based System Using Plate Reader - 2141-01 Inhibitor.SinglePoint.HTS.Activity (AID 602393)</li> <li>qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820)</li> <li>qHTS for Agonist of cAMP-regulated guanine nucleotide exchange factor 4 (EPAC2): primary screen (AID 720711)</li> </ul>
<p>BRD-K10375974-001-01-9</p> <p>PubChem CID : 54634314</p>		<p>0.58 (in 4 replicates)</p>	<p>-0.41</p>	<p>NA</p>				<p>Total number of assays tested in: 34.</p>



BRD-K57184082-001-01-8  
PubChem CID : 54633326



0.59 (in 4 replicates)



Total number of assays tested in: 37.