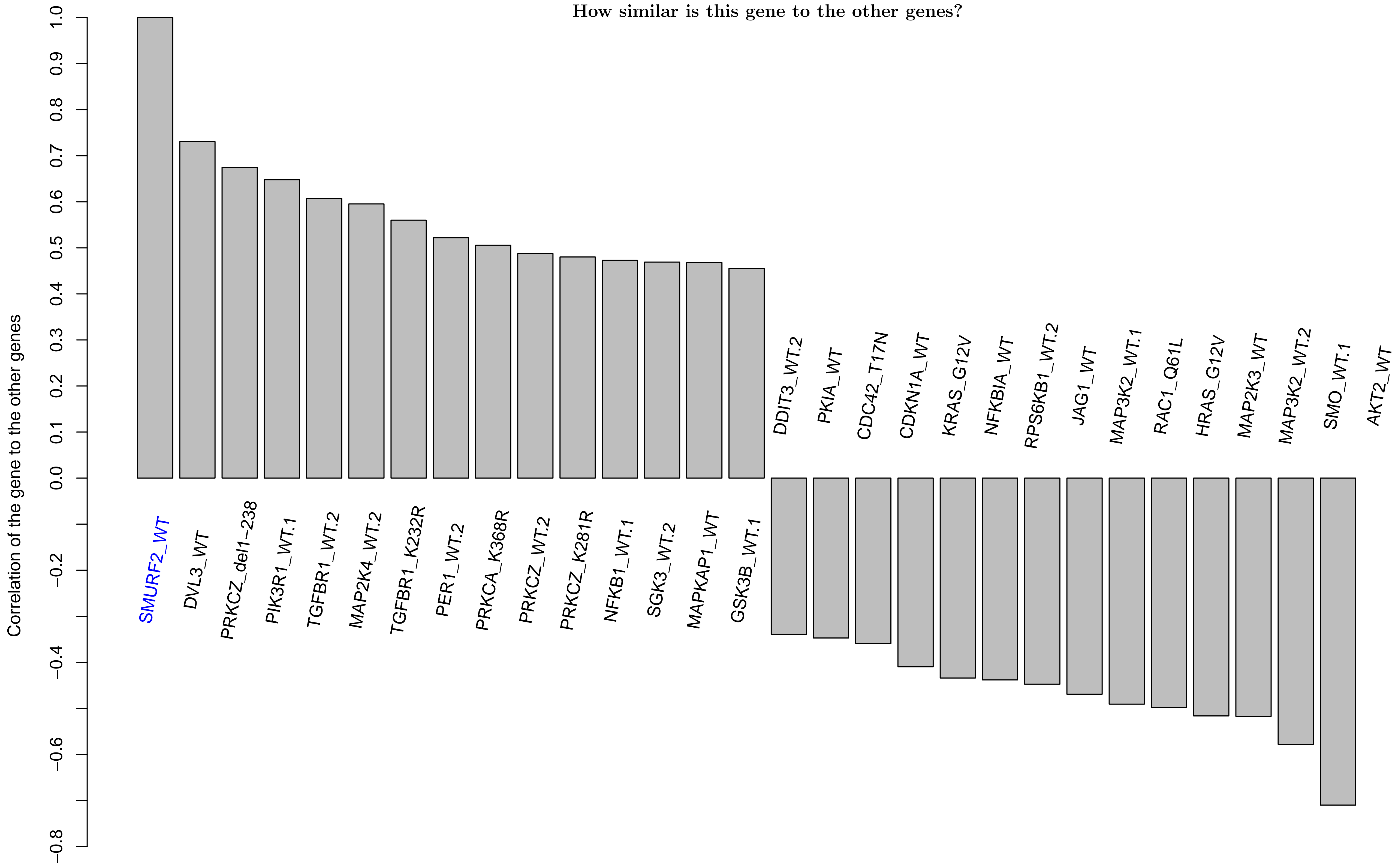
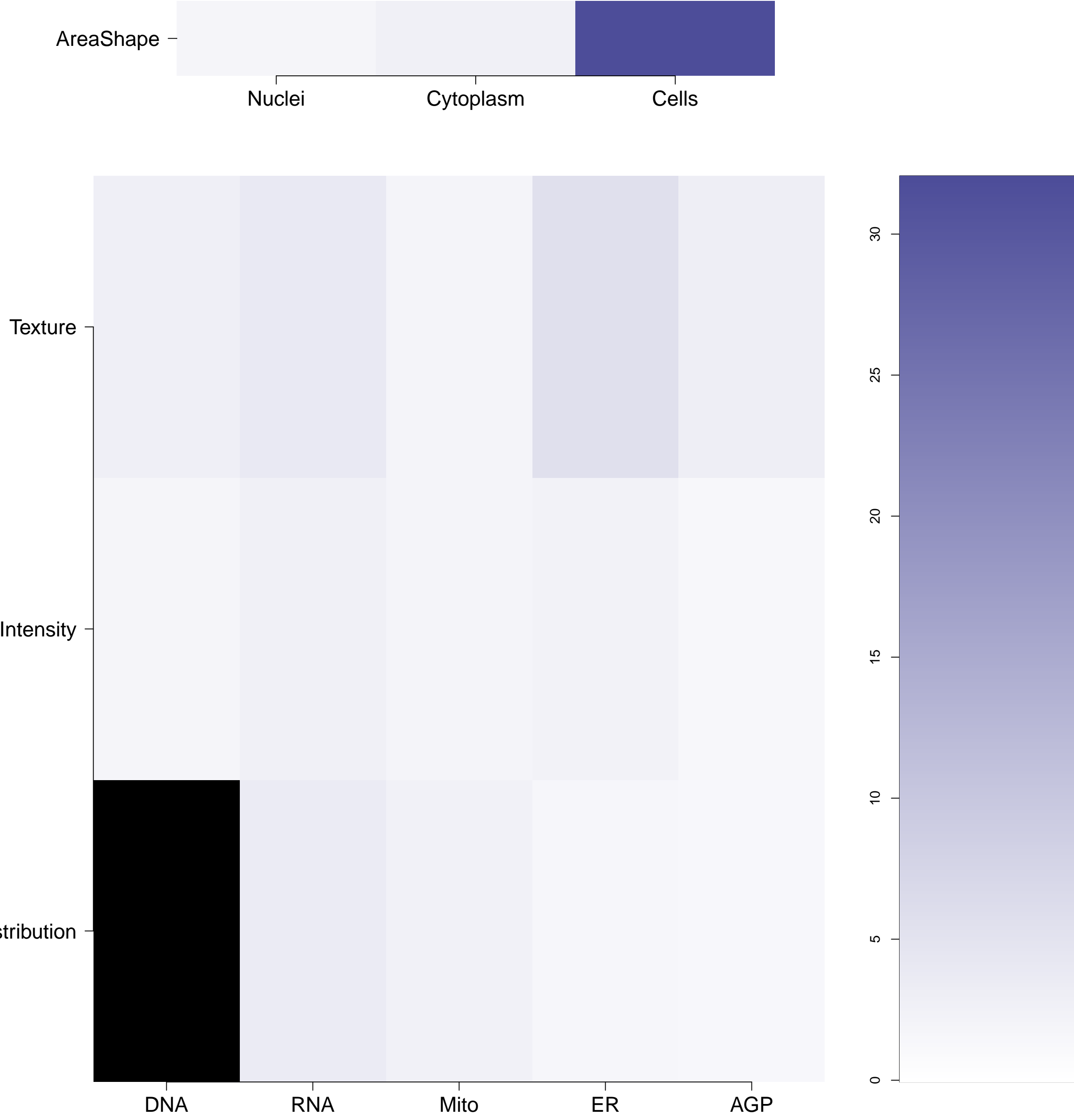


SMURF2.WT - in Canonical SMAD

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

SMURF2.WT (41744)

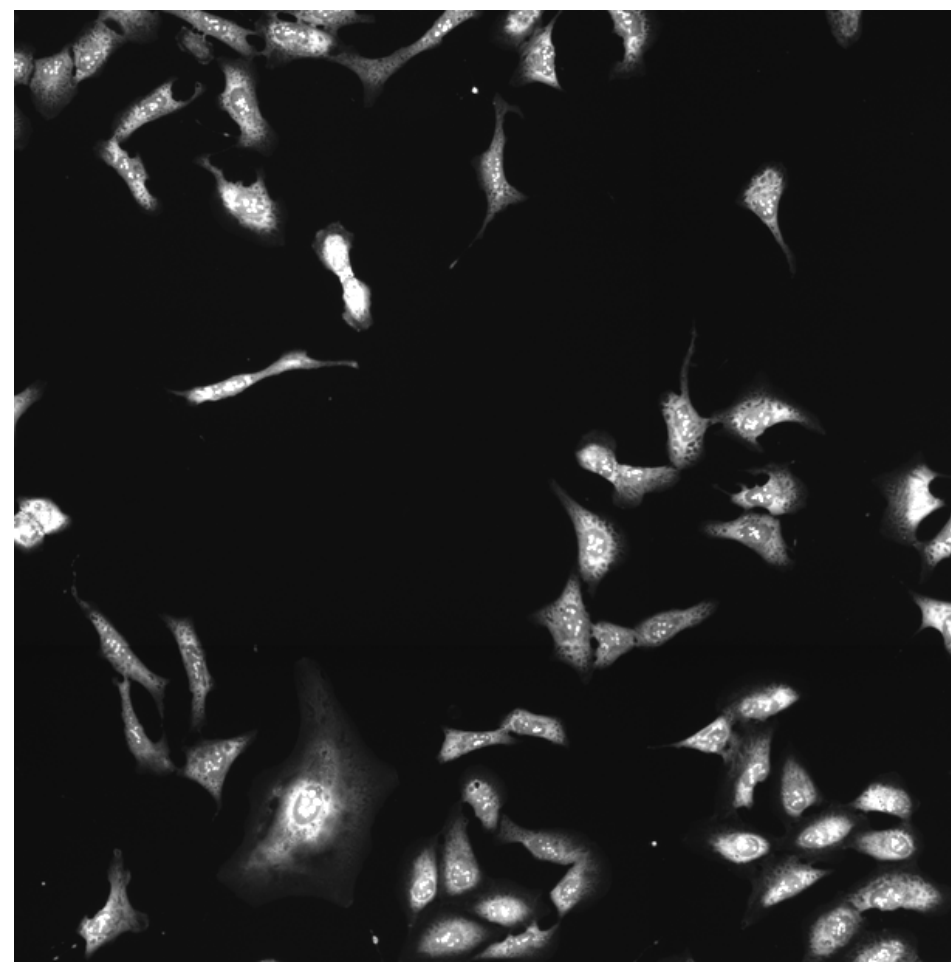
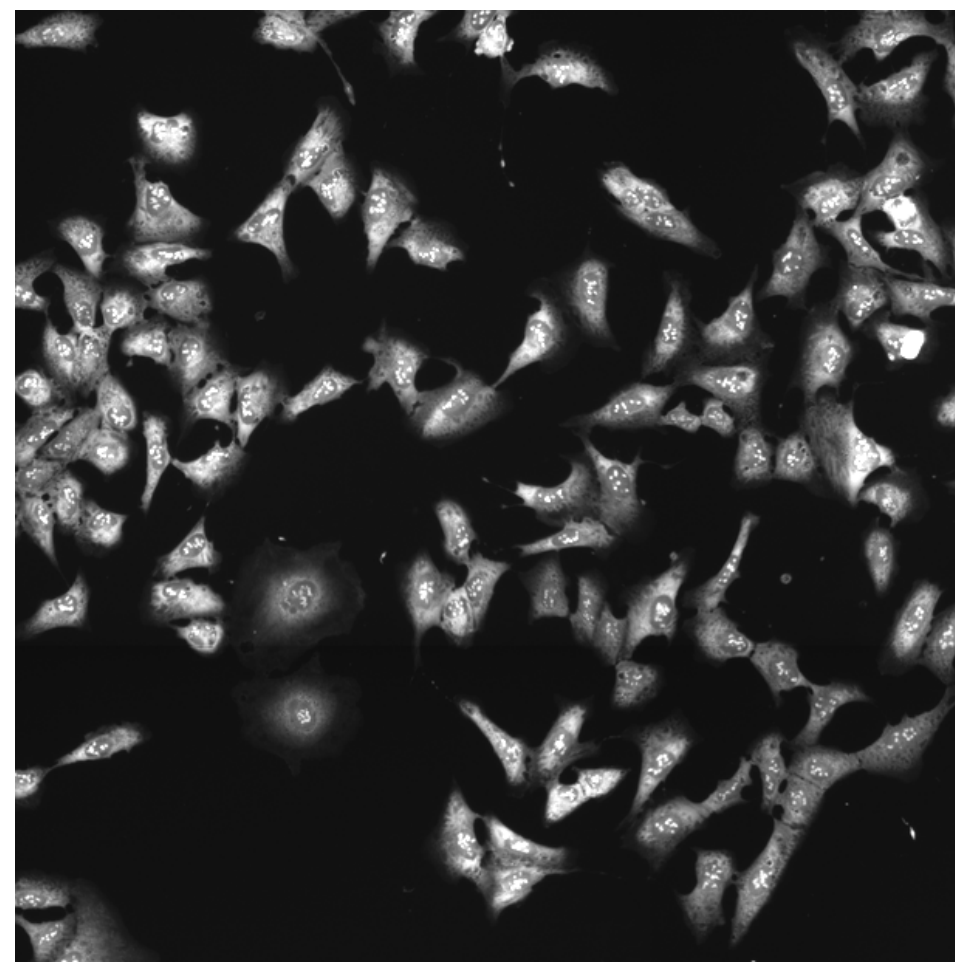
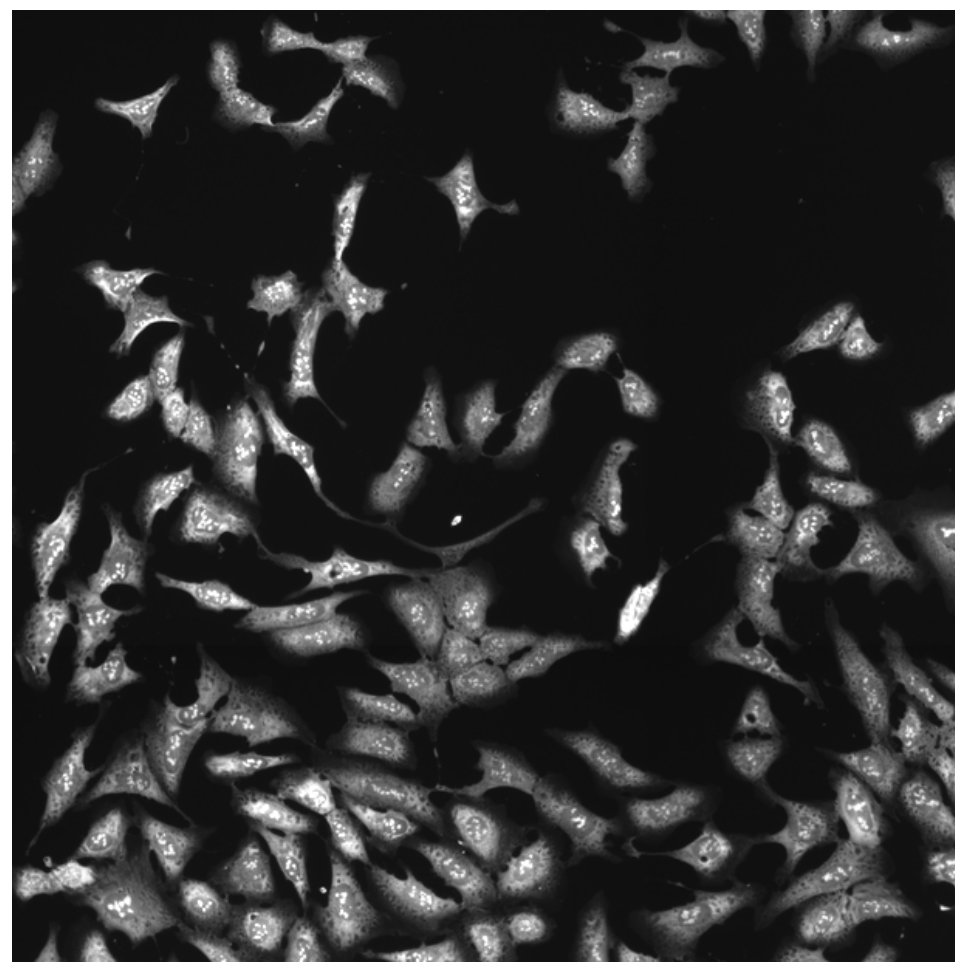
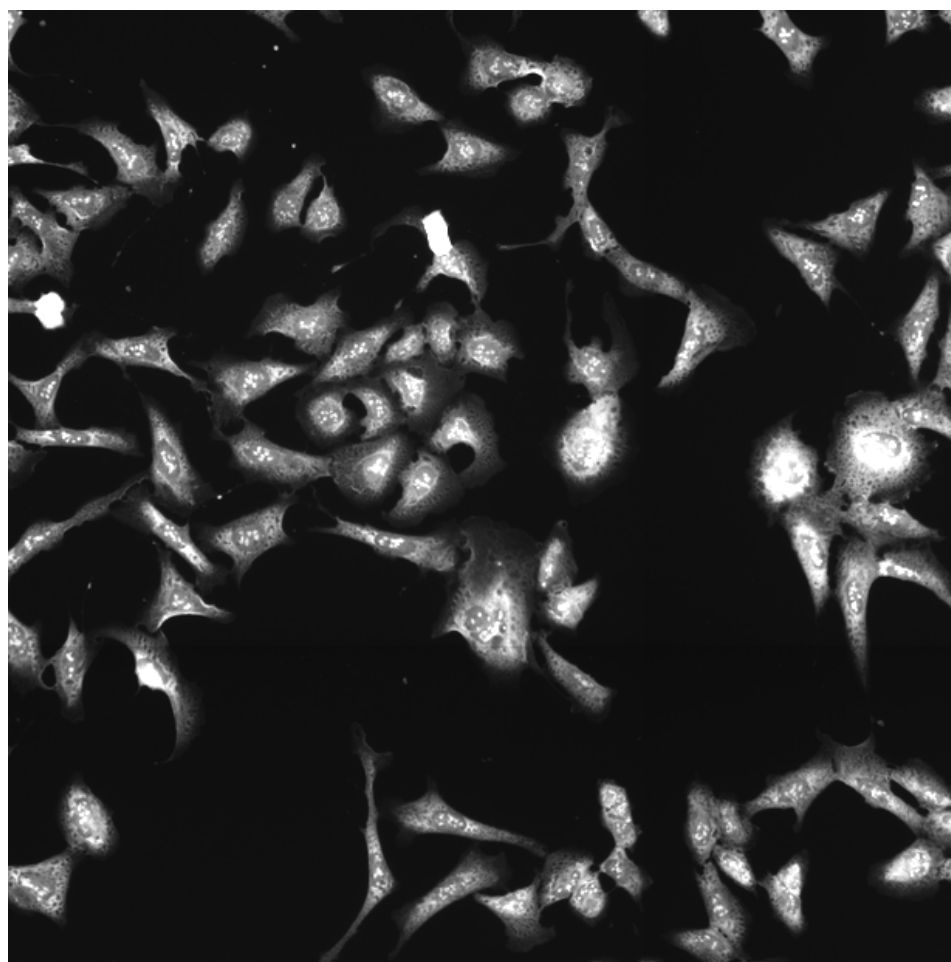
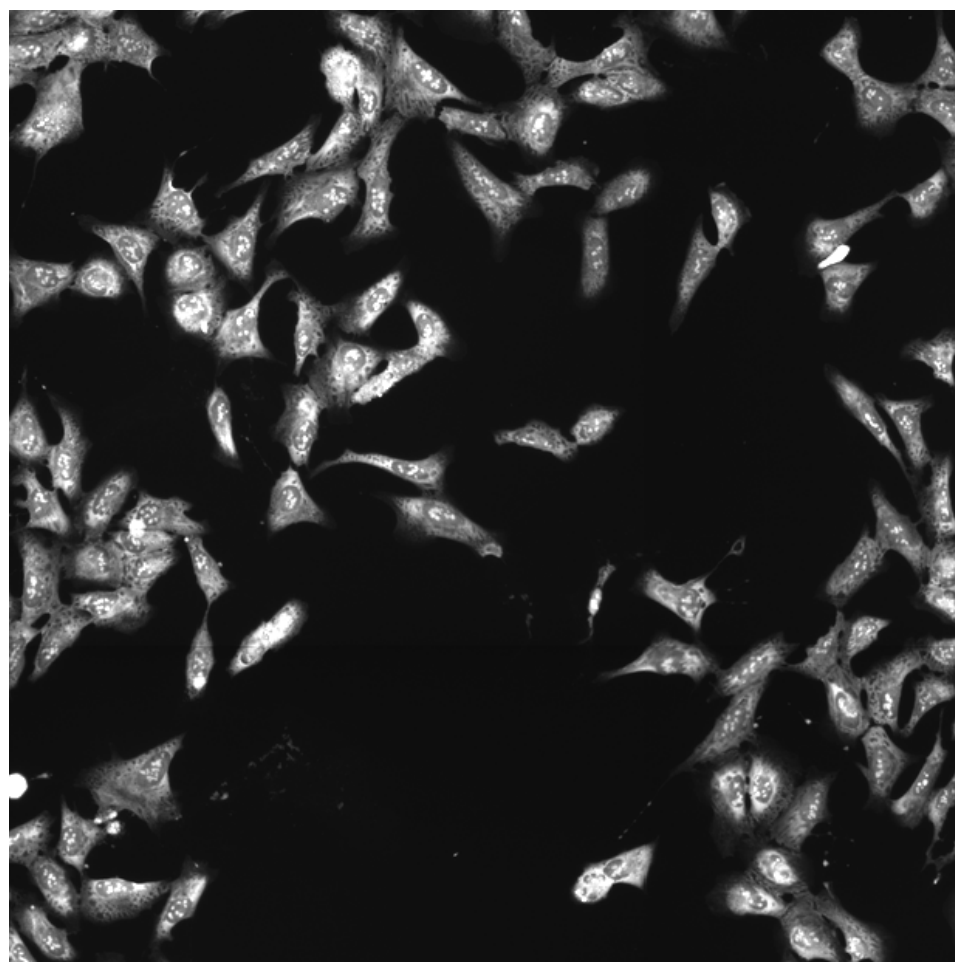
SMURF2.WT (41755)

SMURF2.WT (41756)

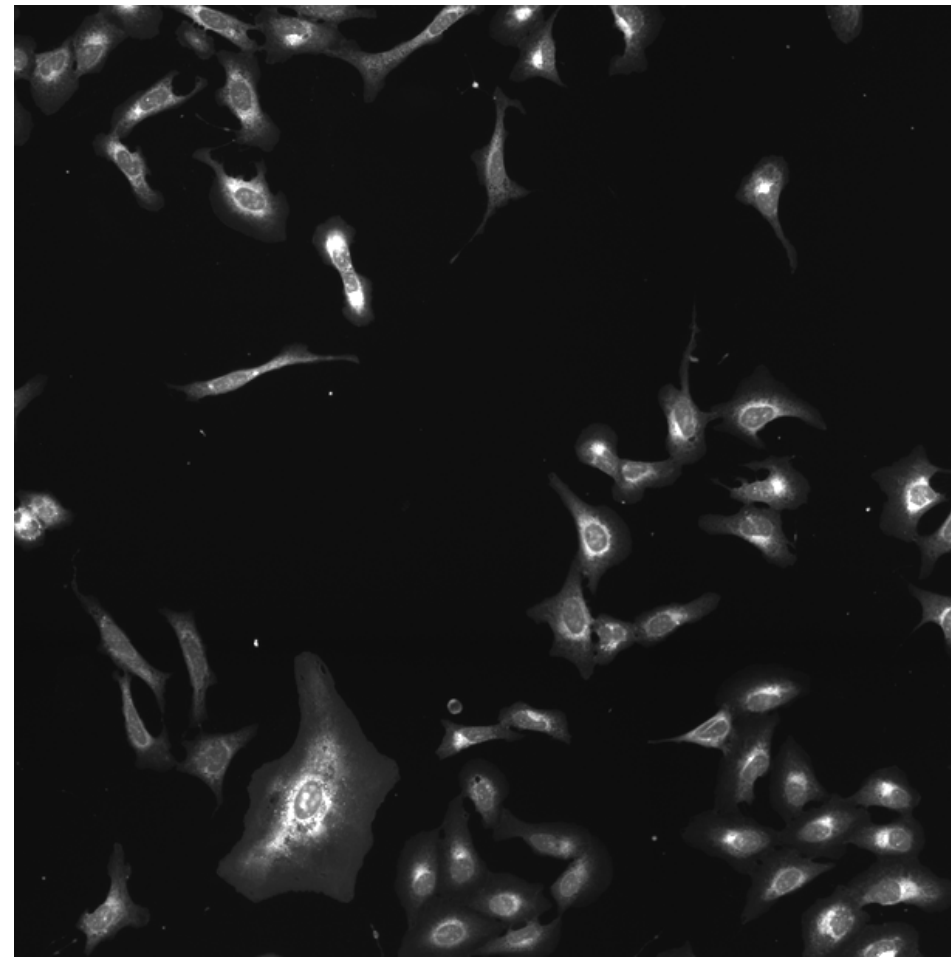
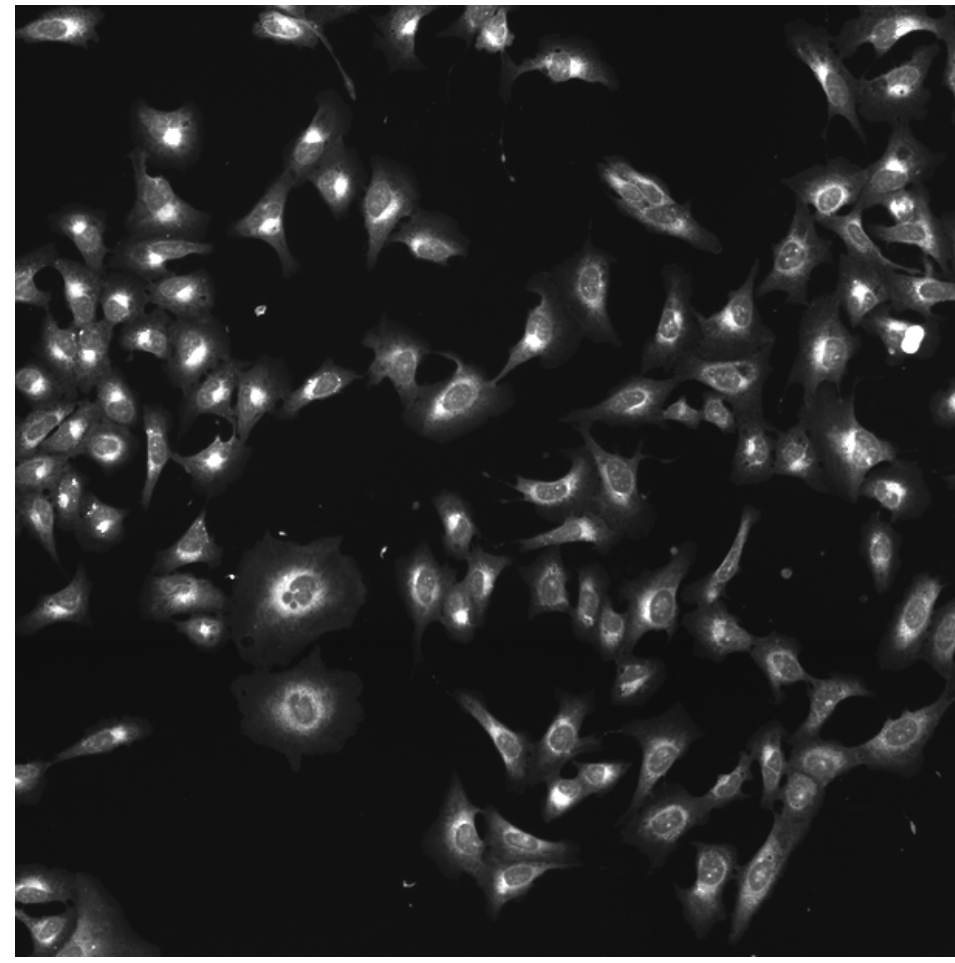
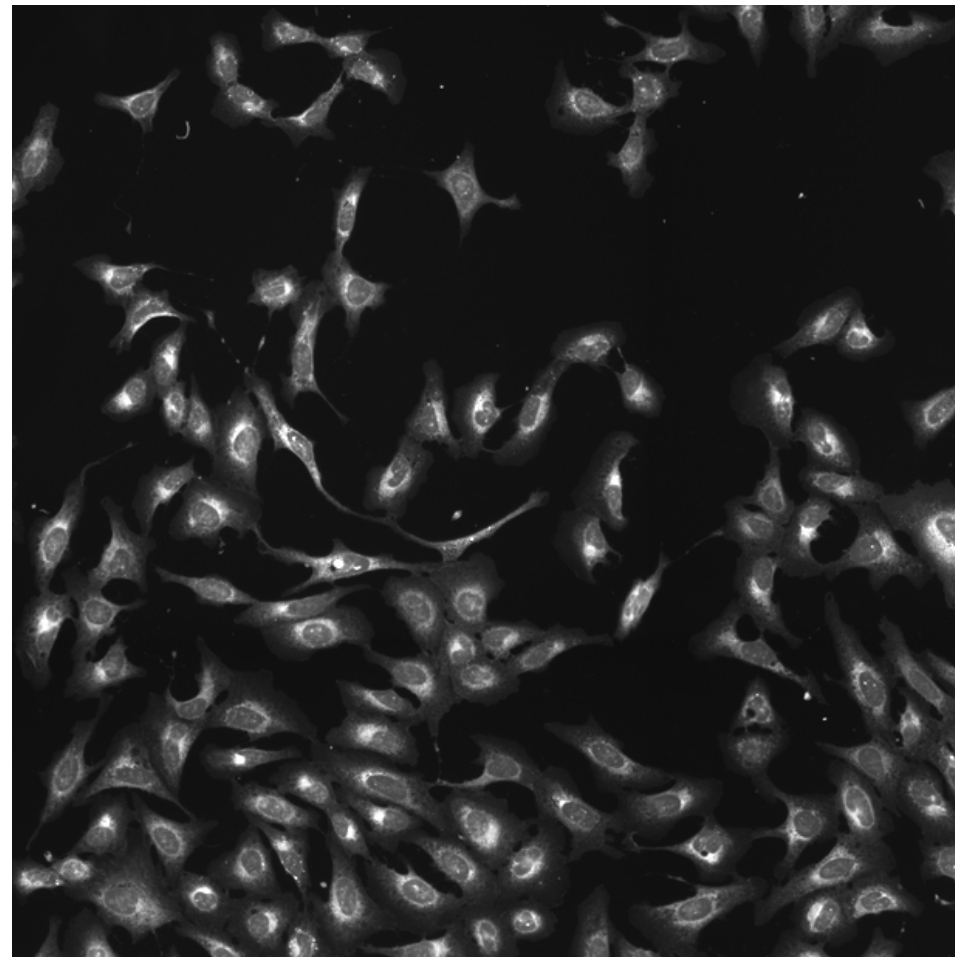
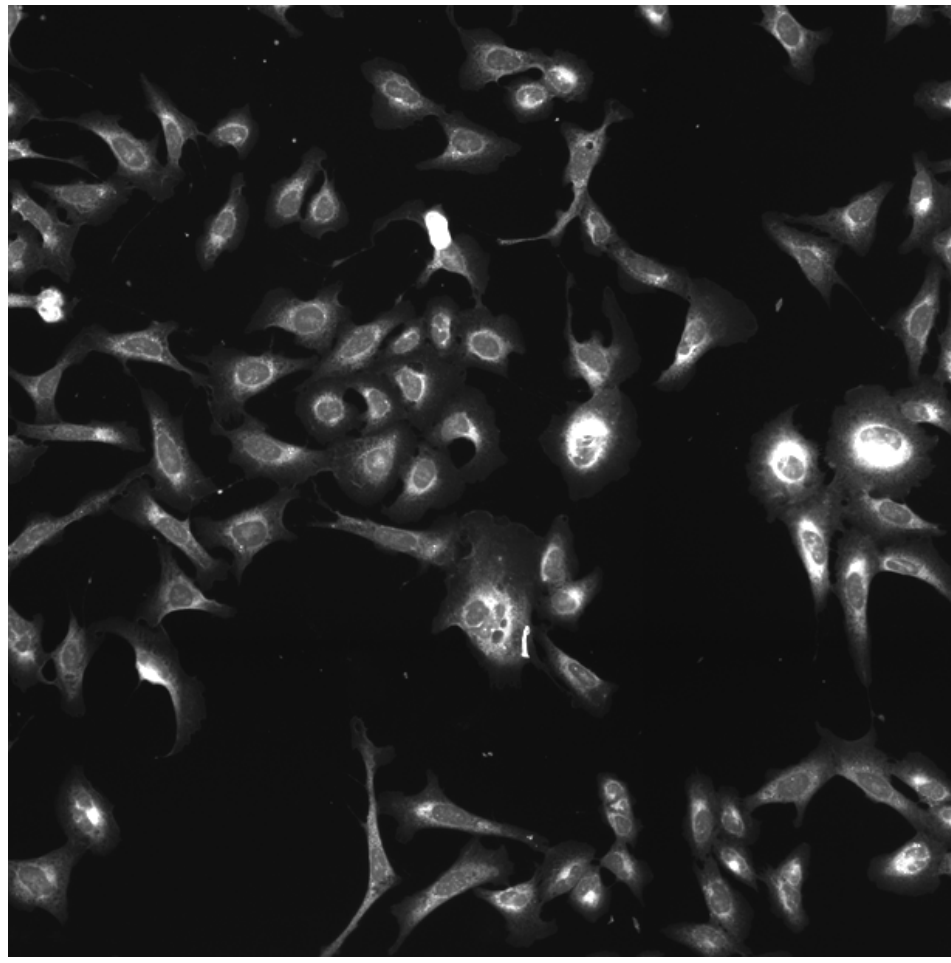
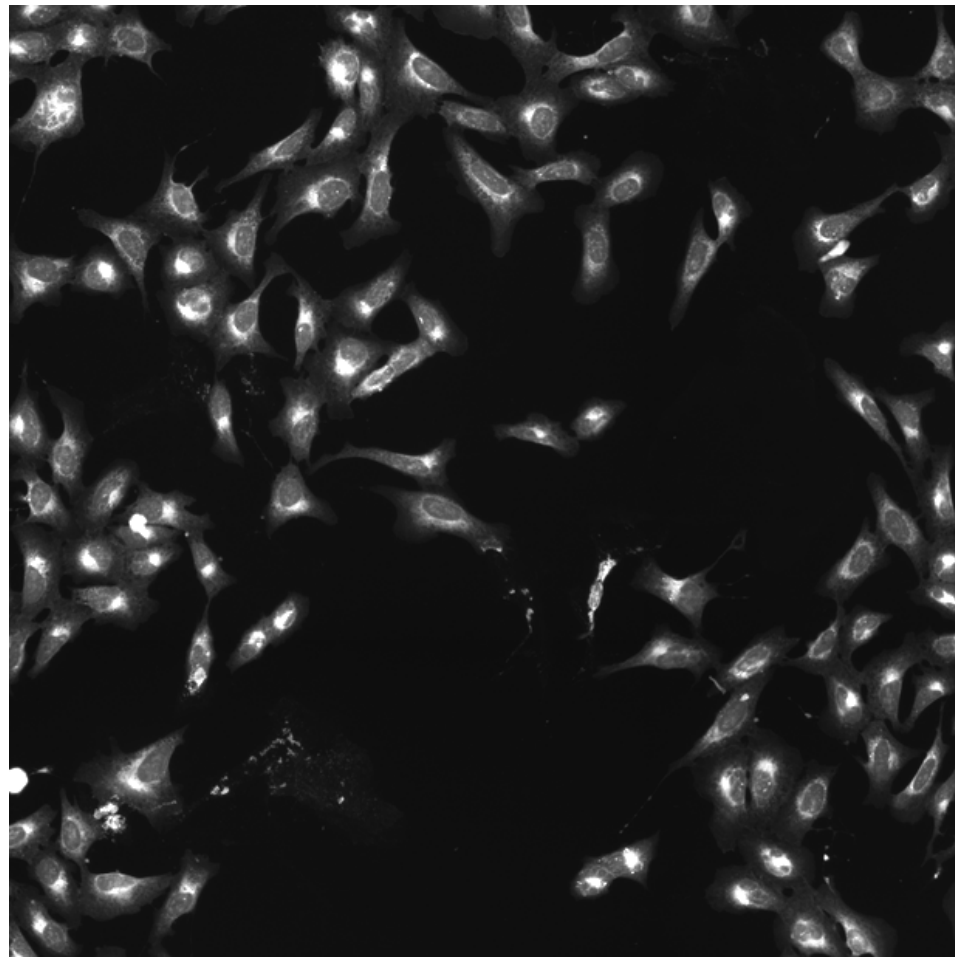
SMURF2.WT (41757)

SMURF2.WT (41754)

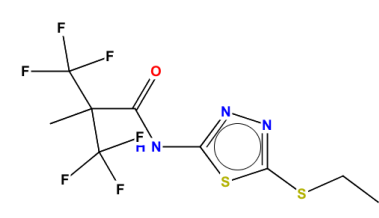
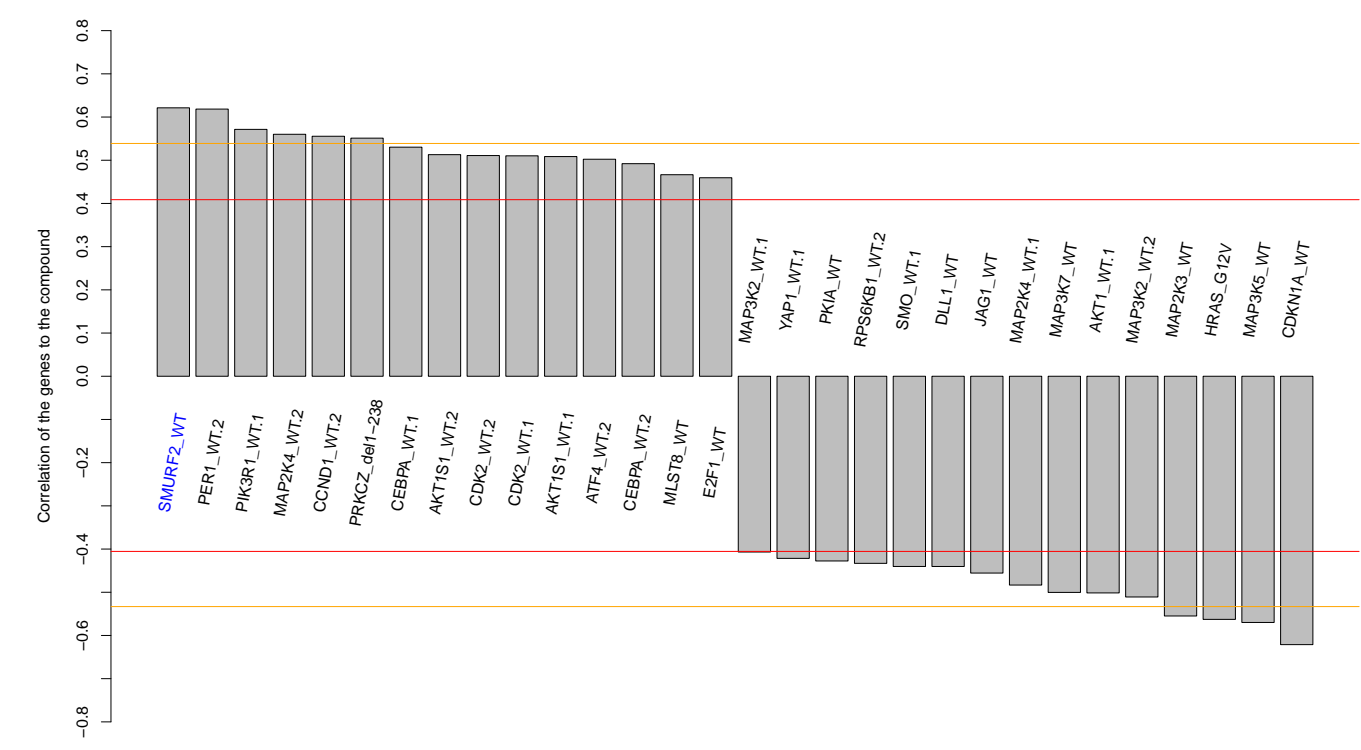
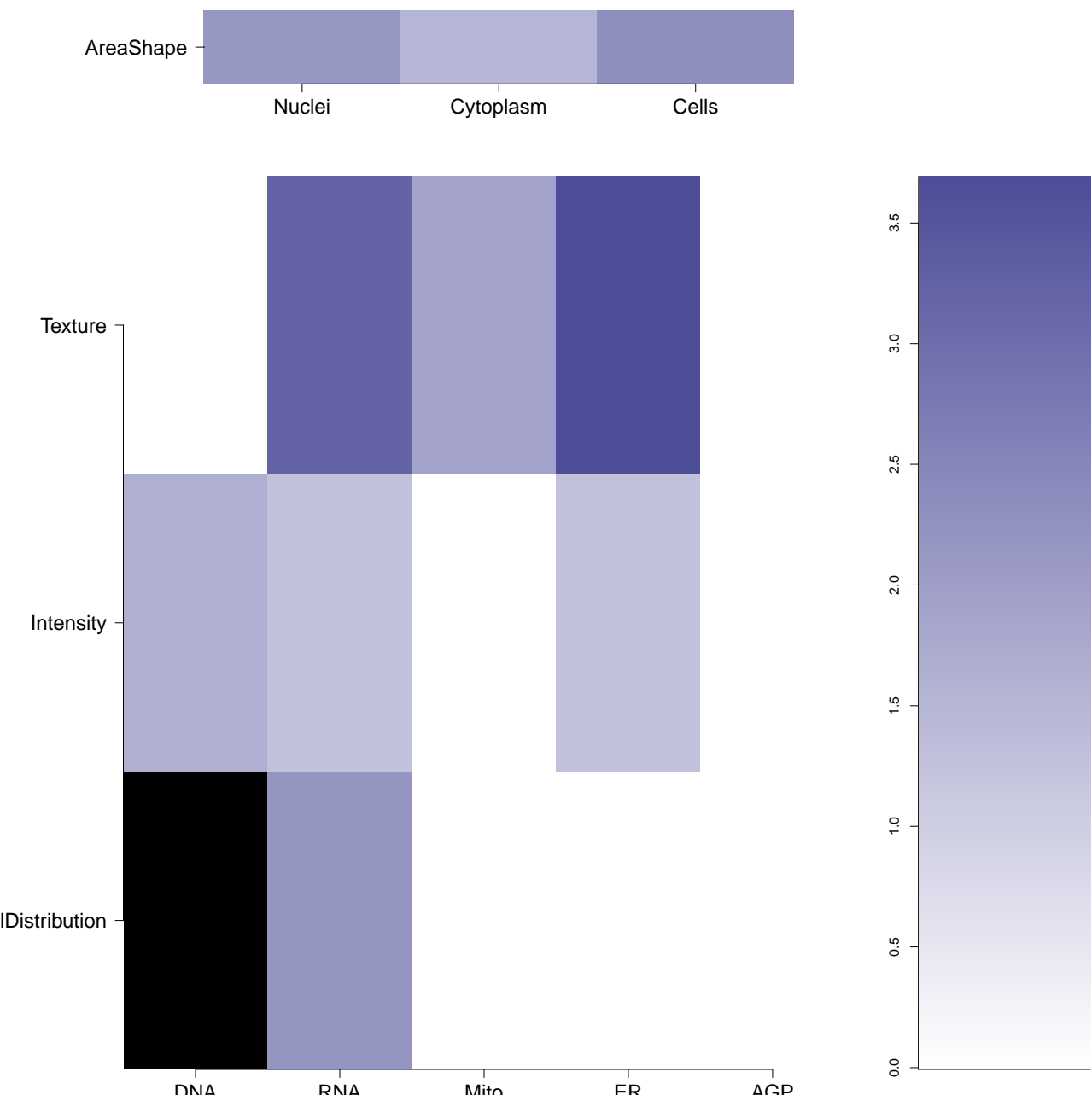
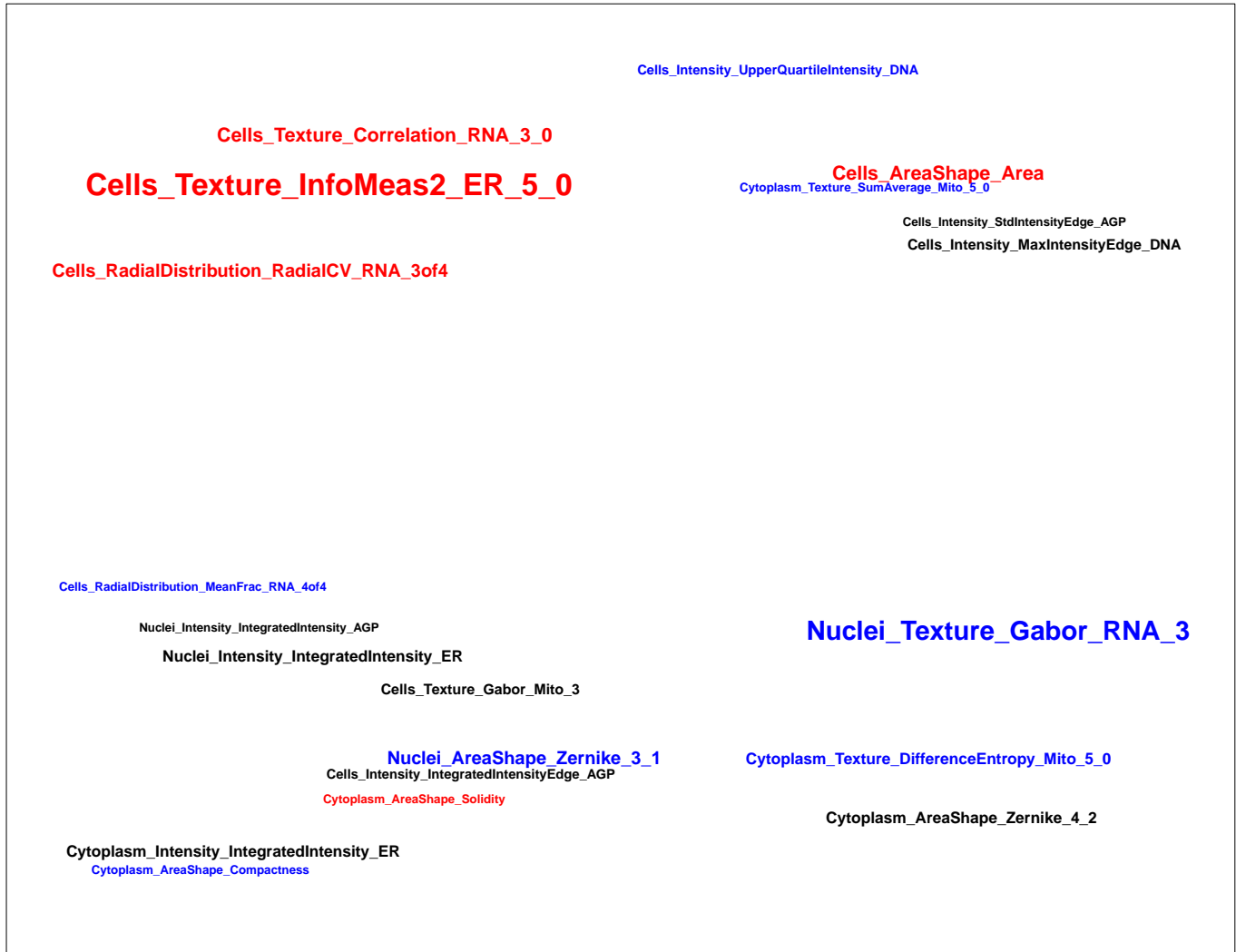
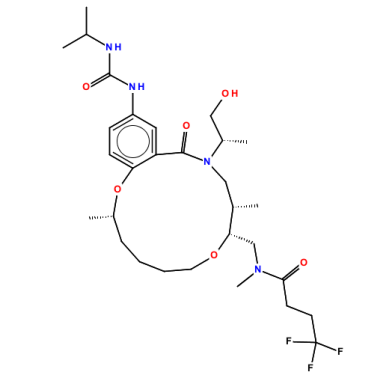
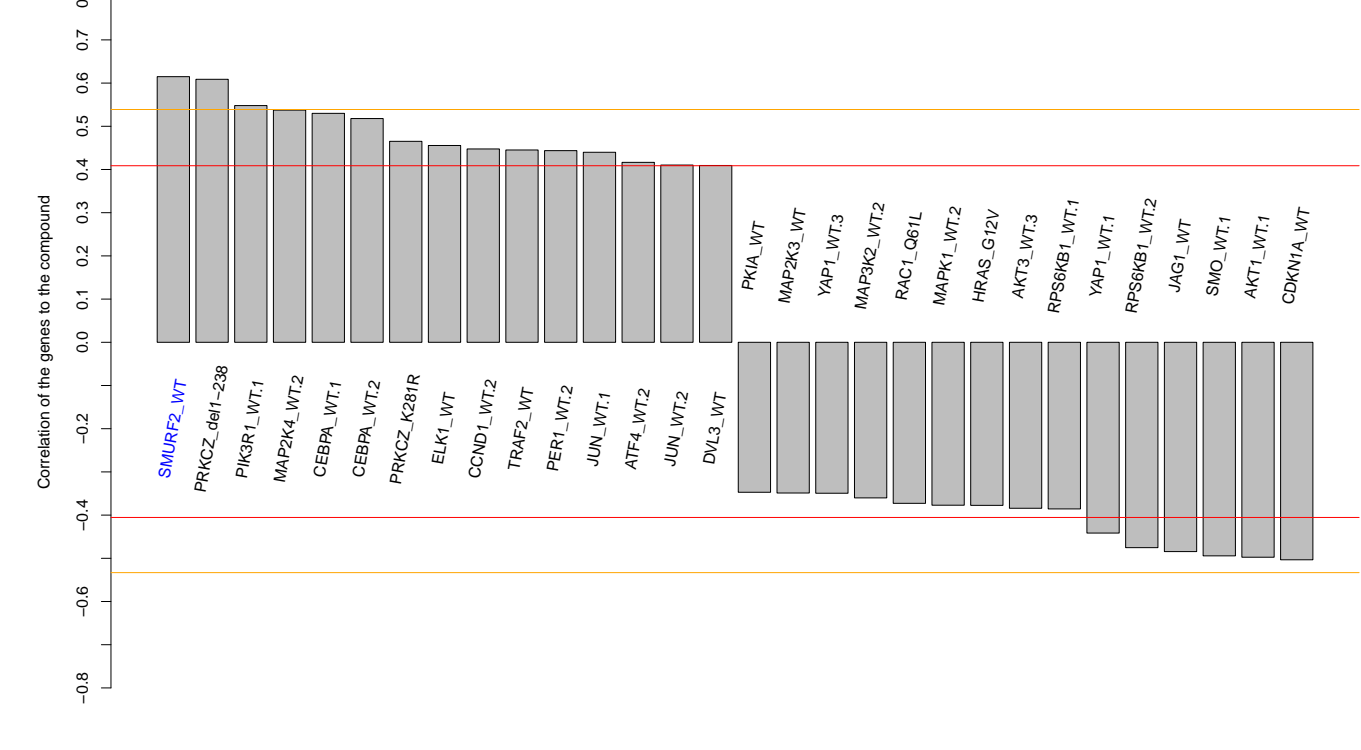
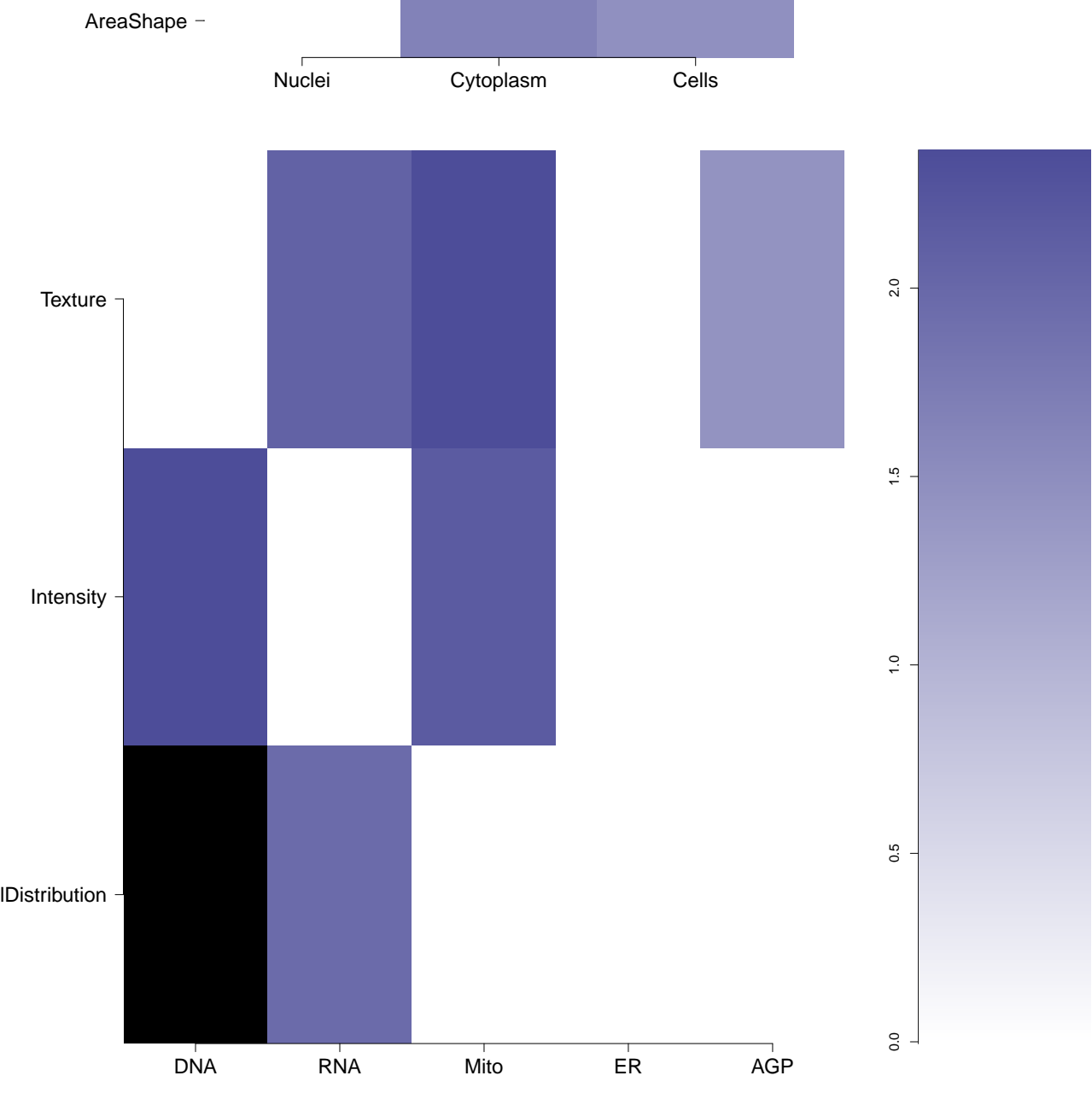
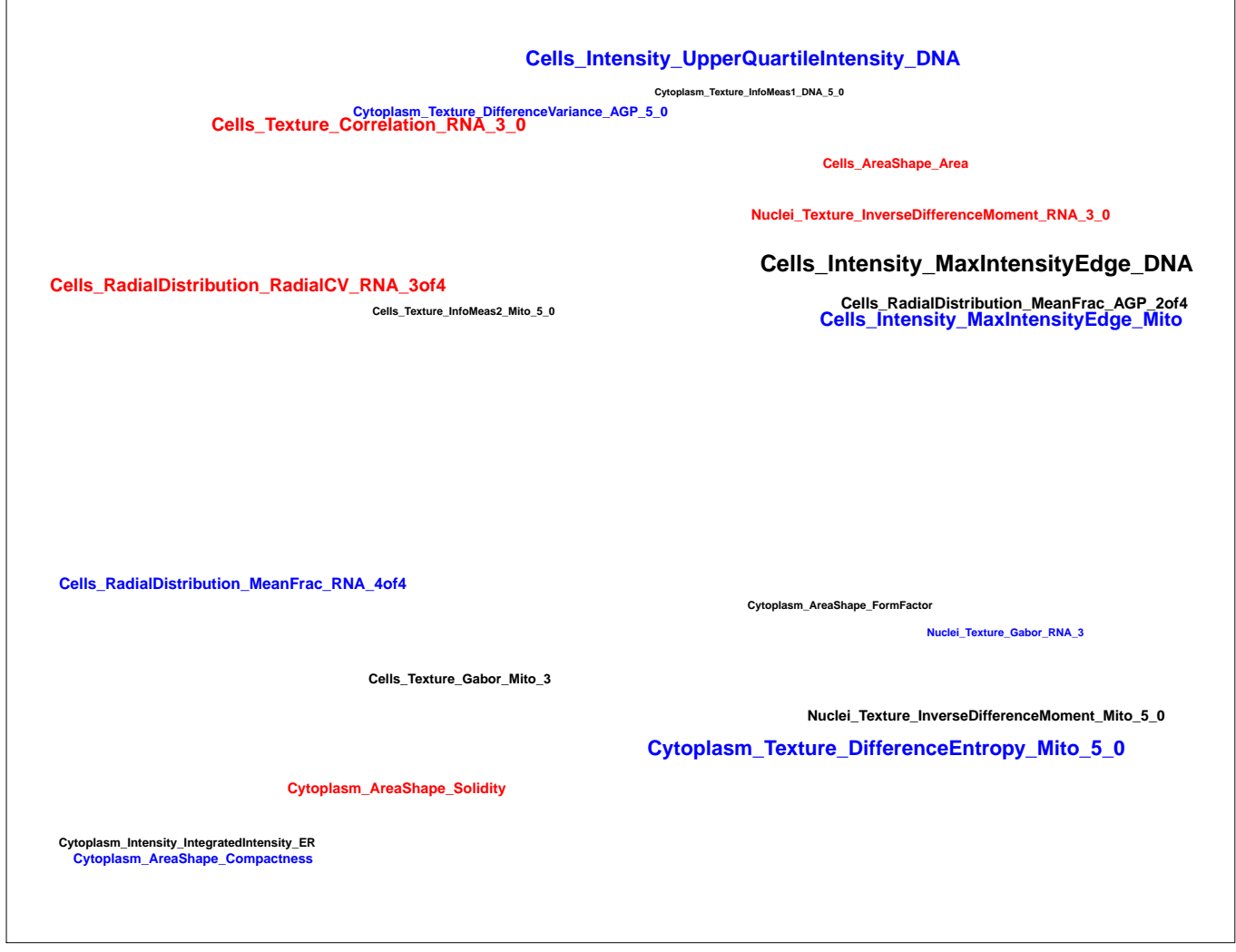
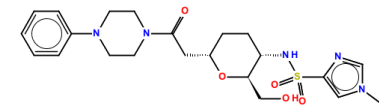
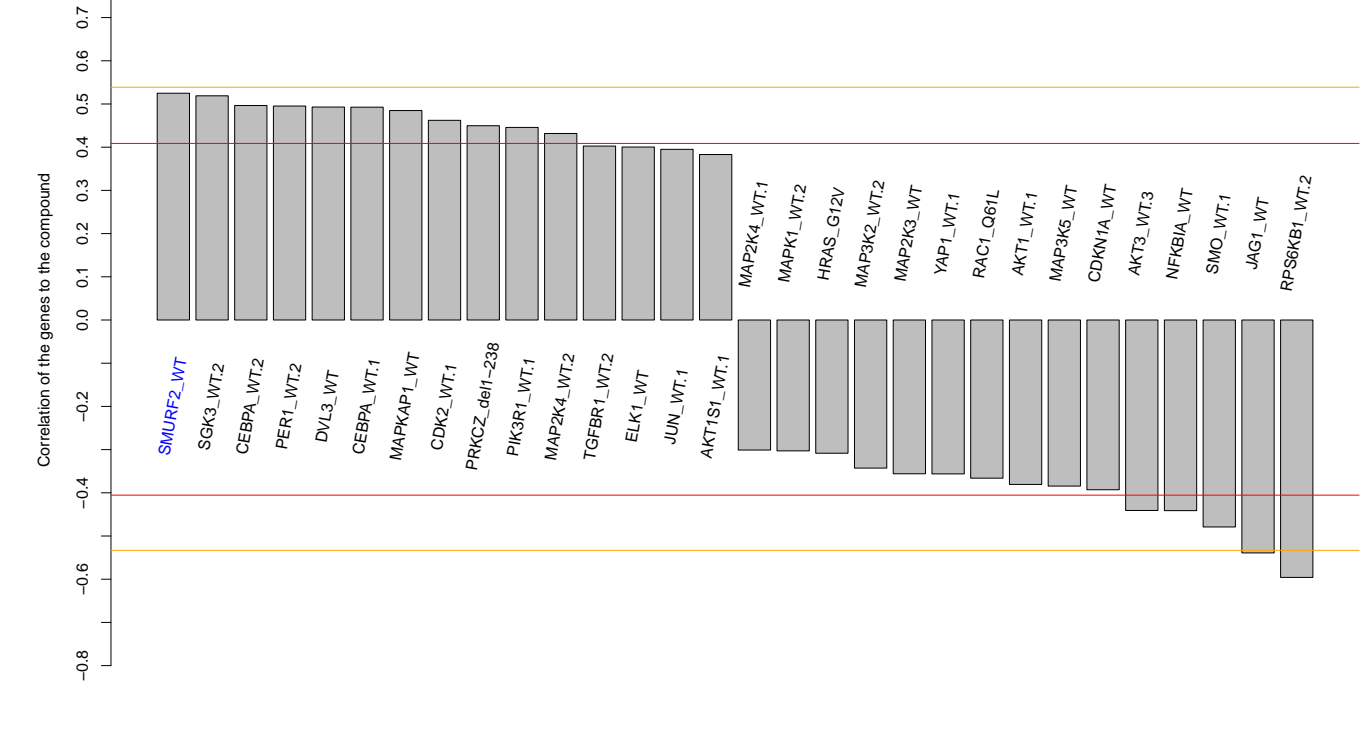
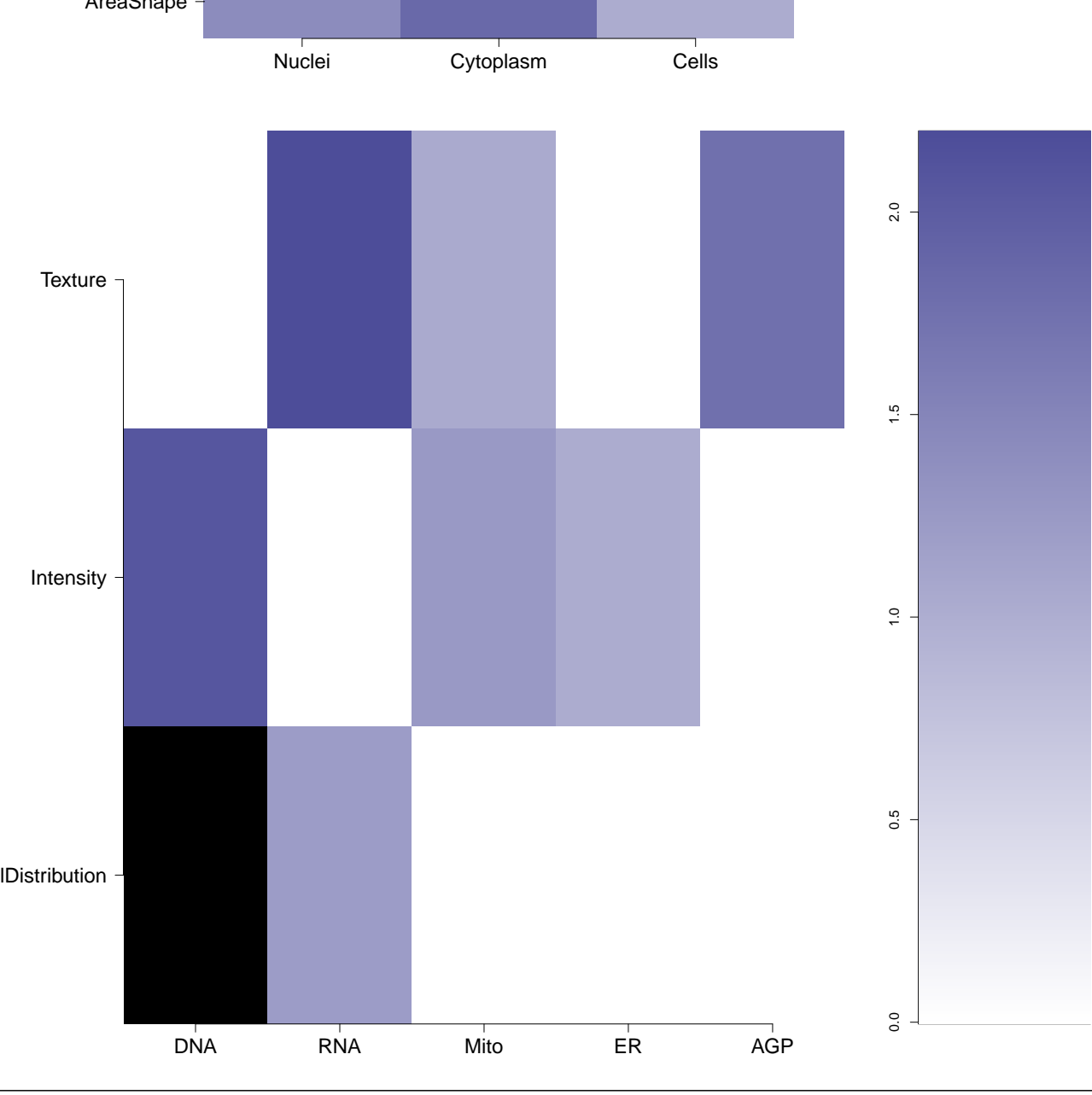
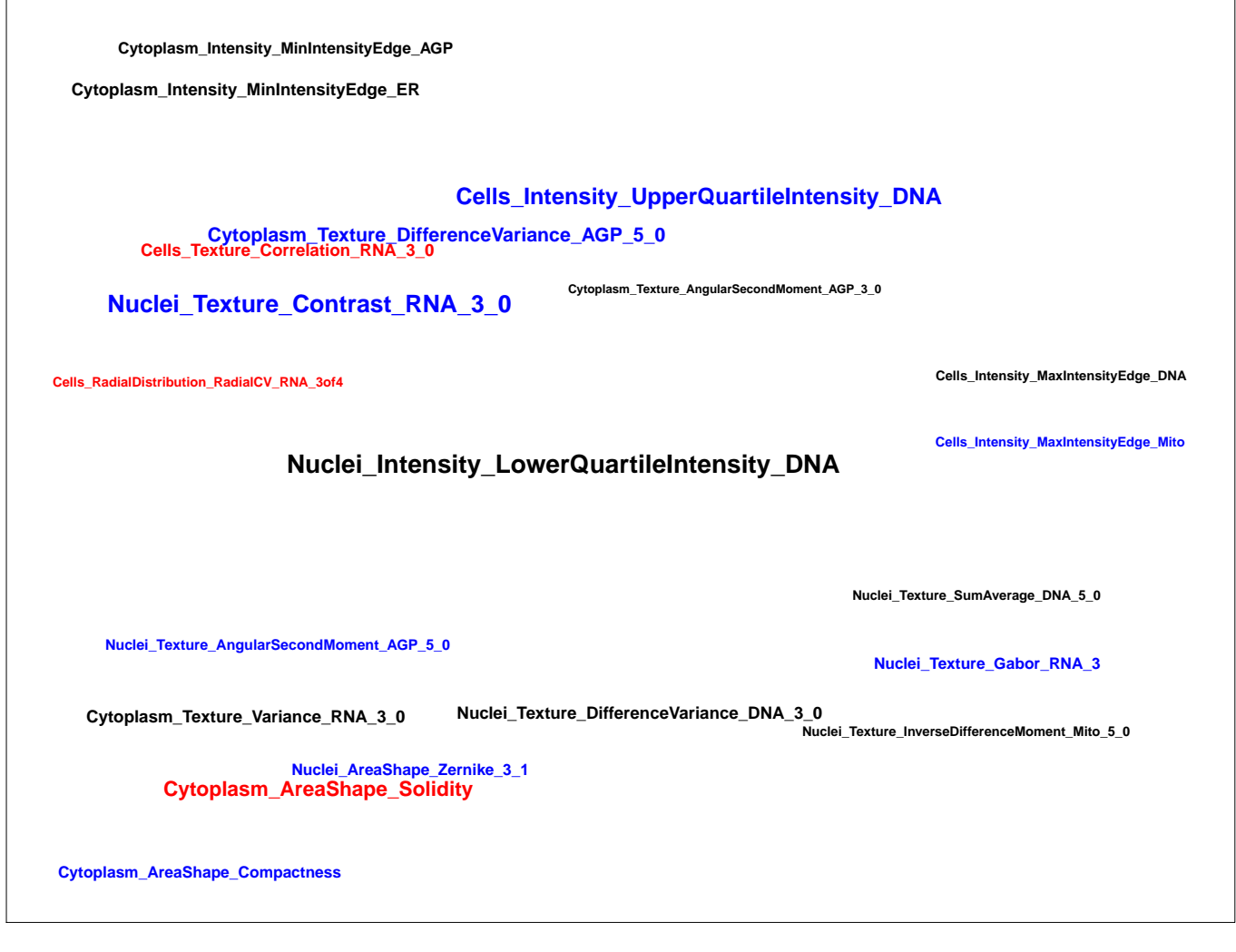
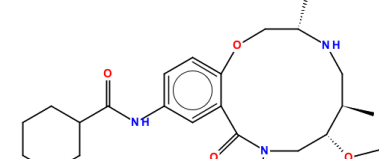
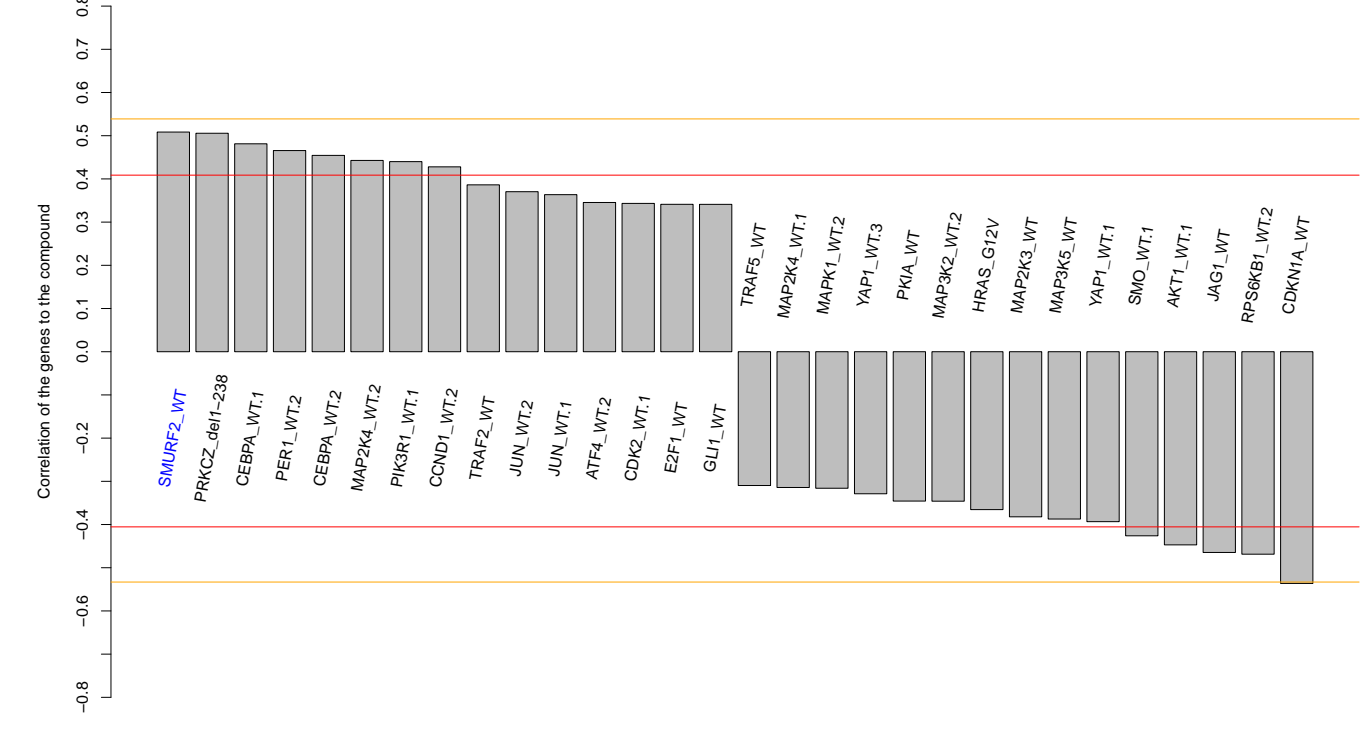
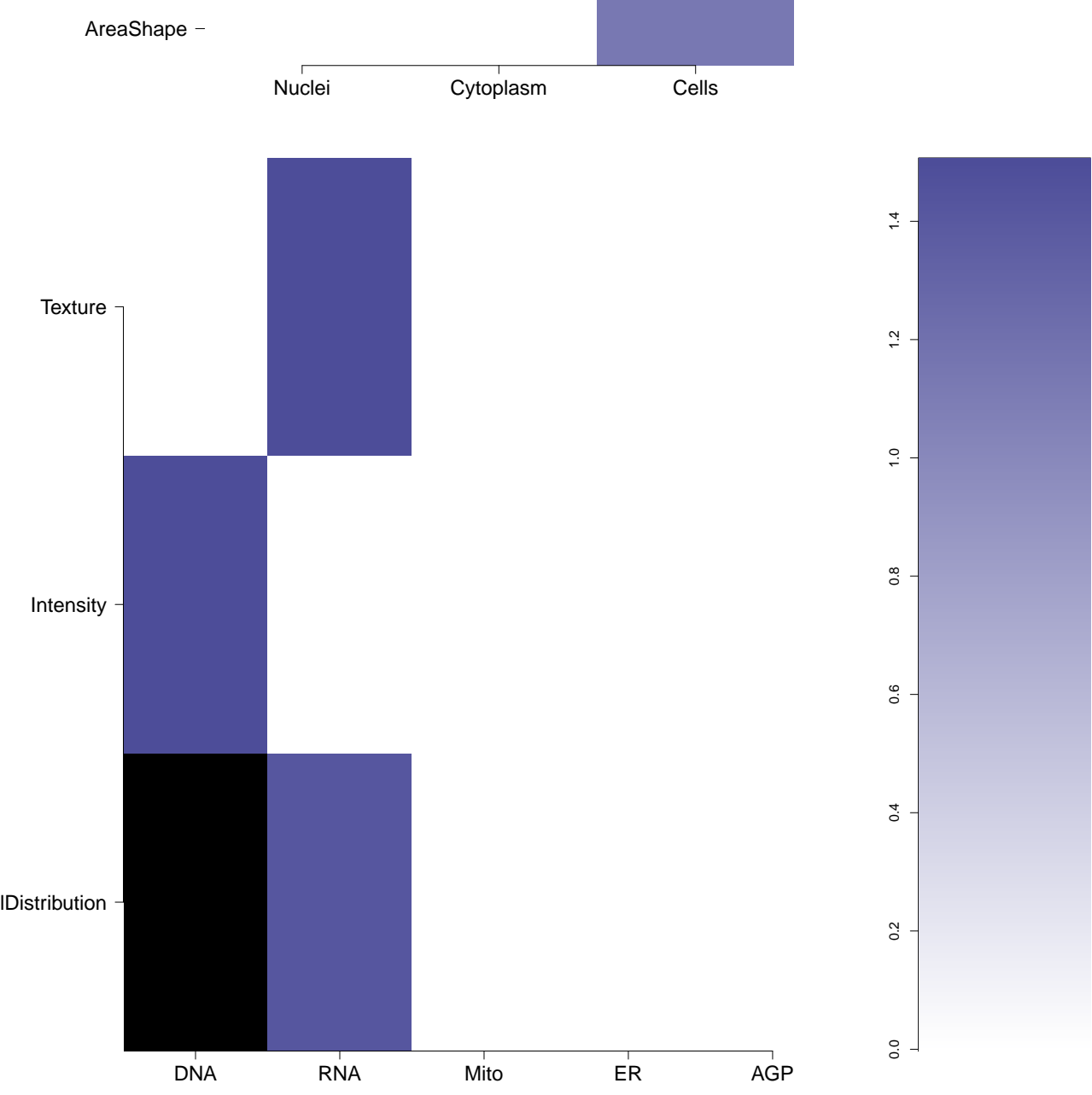

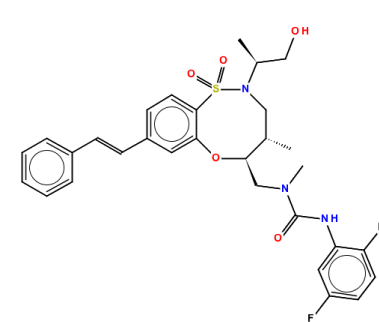
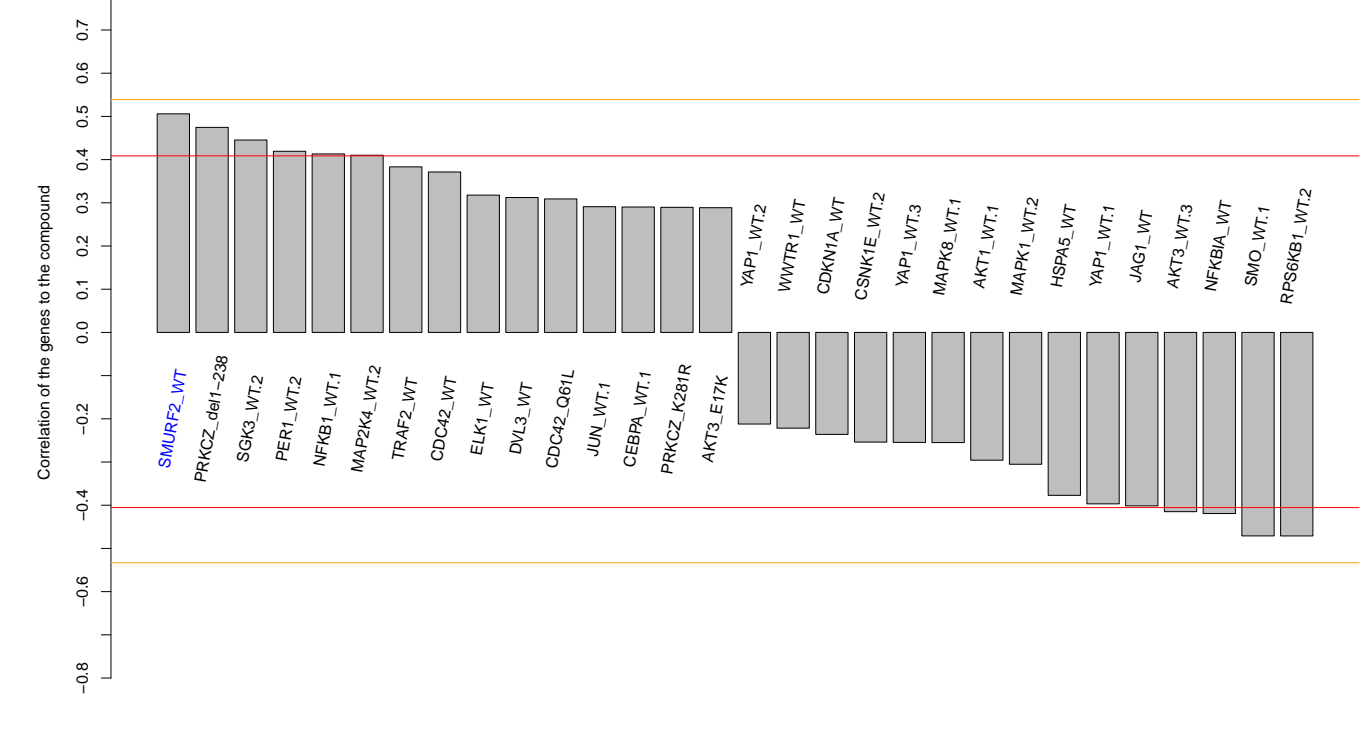
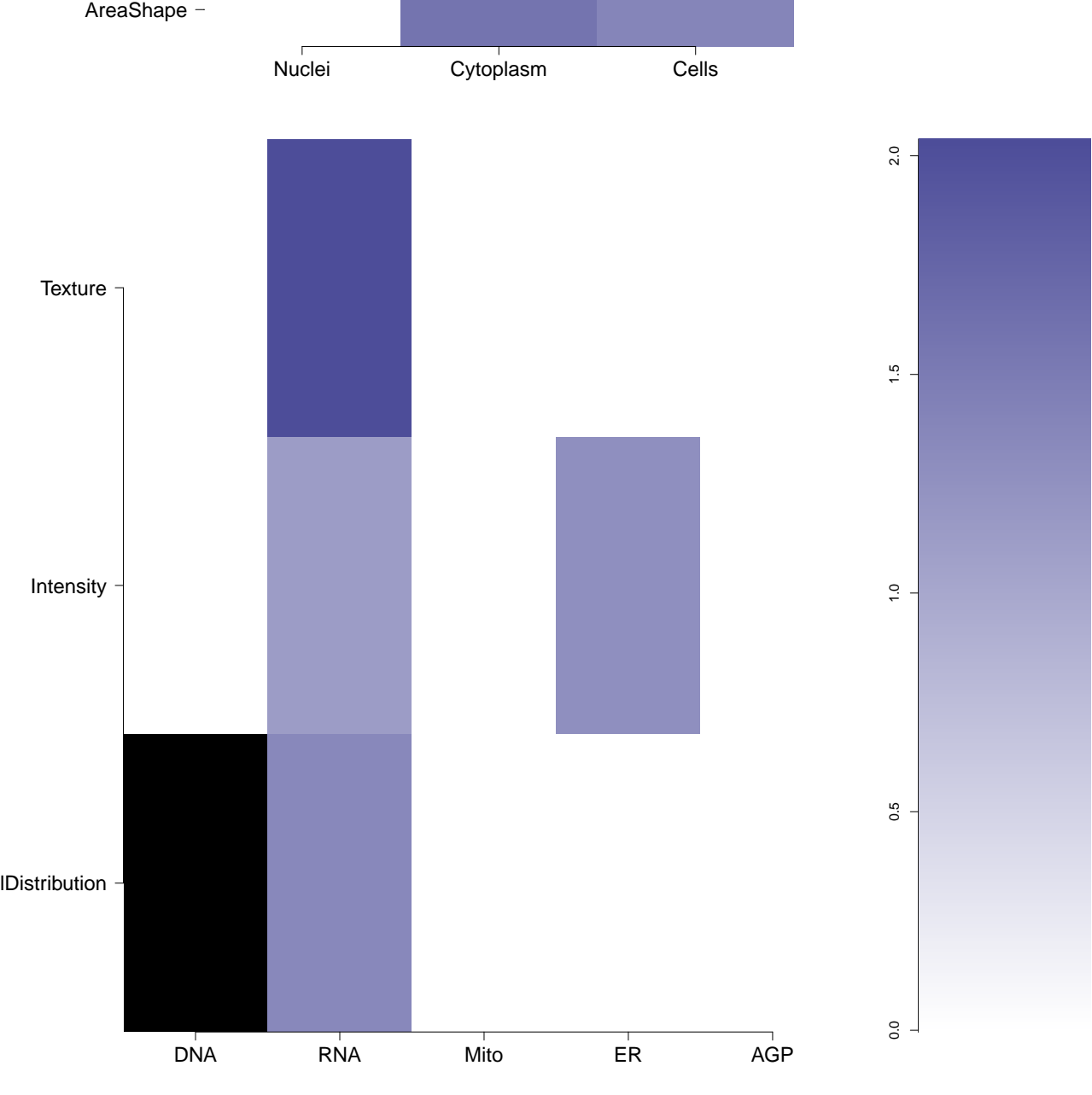
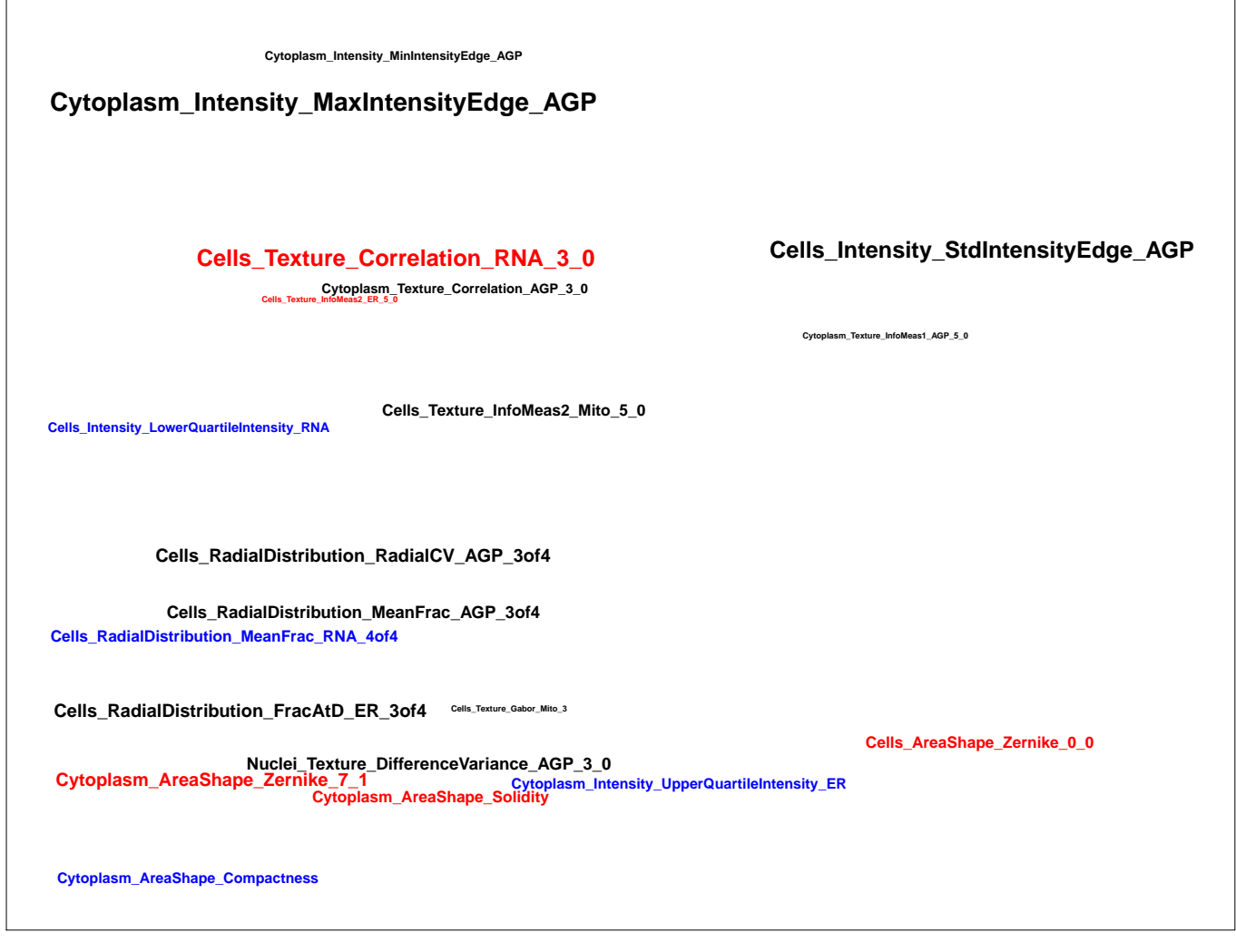
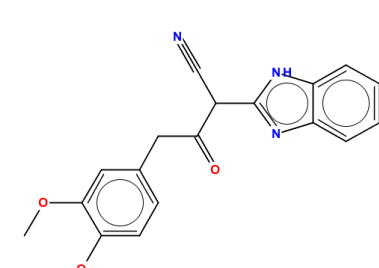
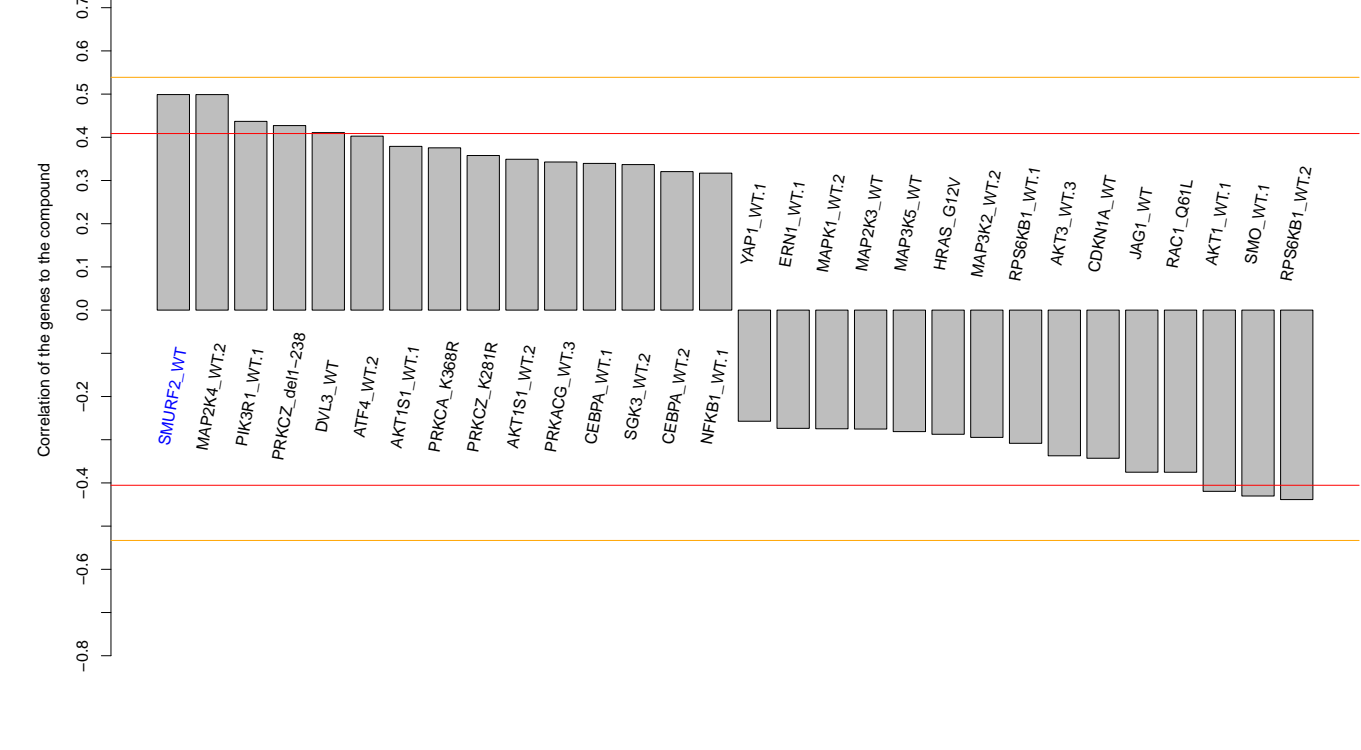
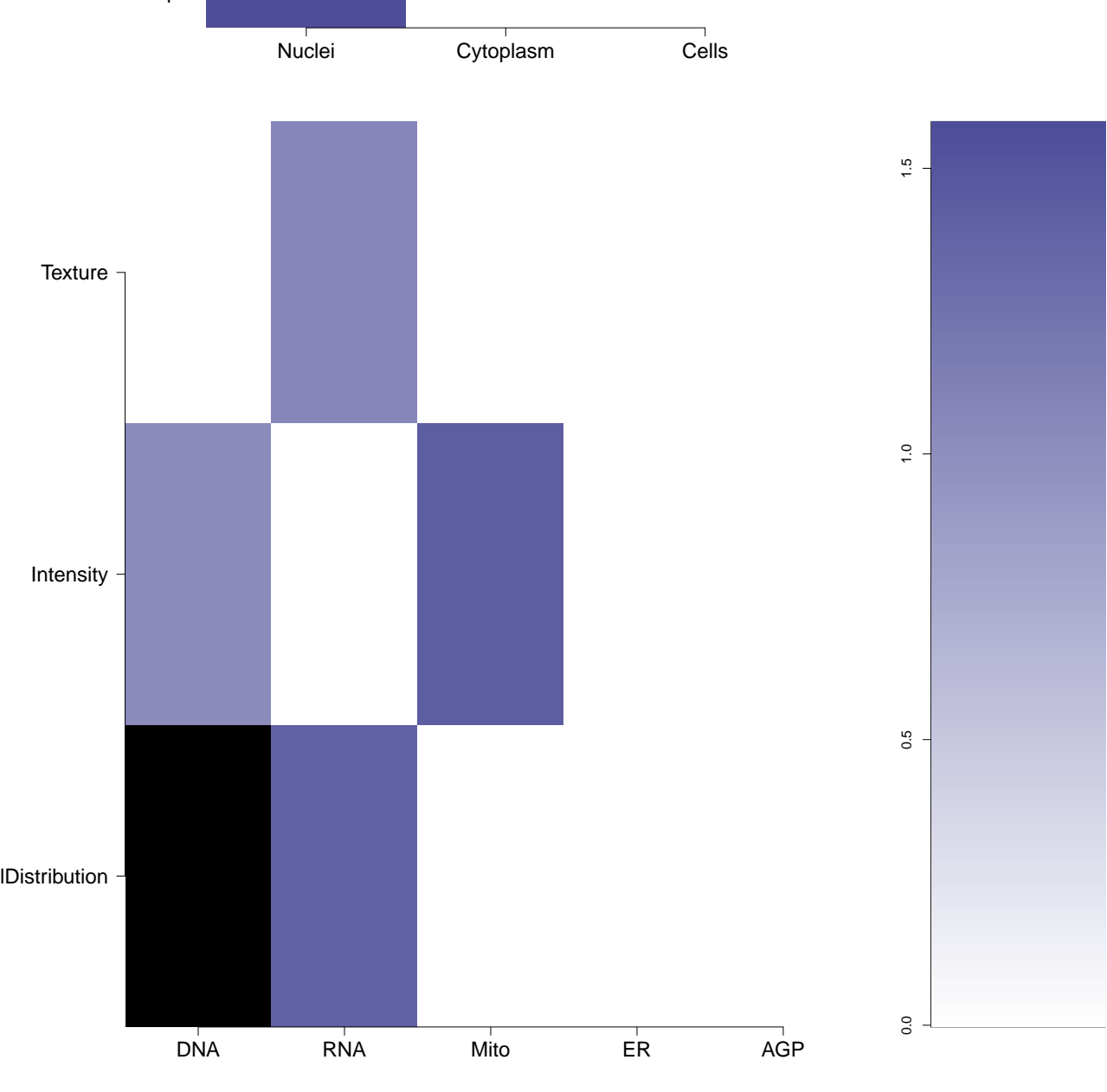

RNA



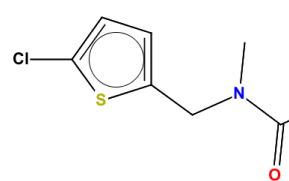
ER



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
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<p>BRD-K22606571-001-05-1</p> <p>ZINC02277811</p> <p>AC1LCZ96</p> <p>MLS000079219</p> <p>HMS2426D20</p> <p>ZINC2277811</p> <p>STK759250</p> <p>SMR000035371</p> <p>ST049350</p> <p>PubChem CID : 658691</p>		<p>NA (in 1 replicates)</p>	<p>0.62</p>	<p>NA</p>				<p>Total number of assays tested in: 760. Active in the following assays:</p> <ul style="list-style-type: none"> Human A549 Lung Tumor Cell Growth Inhibition Assay (AID 371) CYP2C9 Assay (AID 777) qHTS Assay for Identification of Small Molecule Antagonists for Hypoxia Response Element Signaling Pathway (AID 915) Multiplexed high-throughput screen for small molecule regulators of RGS family protein interactions, specifically RGS16-Galphao. (AID 1441) Multiplexed high-throughput screen for small molecule regulators of RGS family protein interactions. (AID 1504) qHTS Multiplex Assay to Identify Dual Action Probes in a Cell Model of Huntington: Aggregate Formation (GFP) (AID 1688) Primary cell-based screen for identification of compounds that inhibit the Choline Transporter (CHT) (AID 488975) Confirmatory screen for compounds that inhibit the Choline Transporter (CHT) (AID 49321) Nrf2 qHTS screen for inhibitors (AID 504444) Dose responses of compounds that inhibit the Choline Transporter (CHT) - 5 point CRC (AID 504840) Dose responses of compounds that inhibit the Choline Transporter (CHT) - 10 point CRC (AID 588401) A Quantitative High throughput Screen to Identify Chemical Modulators of PINK1 Expression (AID 624263) qHTS for Antagonists of gsp, the Etiologic Mutation Responsible for Fibrous Dysplasia/McCune-Albright Syndrome: qHTS (AID 624288) Counterscreen of compound fluorescence effects on High-throughput multiplex microsphere screening for inhibitors of toxin protease (AID 624483) 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 inhibitors of the Choline Transporter (CHT) (AID 1053196)
<p>BRD-K12559526-001-01-9</p> <p>PubChem CID : 44494504</p>		<p>0.72 (in 4 replicates)</p>	<p>0.61</p>	<p>NA</p>				<p>Total number of assays tested in: 43.</p>
<p>BRD-K14896981-001-01-1</p> <p>PubChem CID : 54641286</p>		<p>NA (in 1 replicates)</p>	<p>0.52</p>	<p>NA</p>				<p>Total number of assays tested in: 40.</p>
<p>BRD-K75037209-001-01-4</p> <p>PubChem CID : 54632498</p>		<p>0.53 (in 4 replicates)</p>	<p>0.51</p>	<p>0.948</p>				<p>Total number of assays tested in: 35.</p>
<p>BRD-K57075511-001-01-9</p> <p>PubChem CID : 54619425</p>		<p>0.67 (in 4 replicates)</p>	<p>0.51</p>	<p>0.087</p>				<p>Total number of assays tested in: 21.</p>
<p>BRD-A20463452-001-05-5</p> <p>SMR000105694</p> <p>MLS000109755</p> <p>AC1NSJ88</p> <p>MLS002540323</p> <p>HMS2277D19</p> <p>ZINC5578862</p> <p>STK094158</p> <p>STL043492</p> <p>ZINC05578862</p> <p>BAS 01816577</p> <p>6062-72-2</p> <p>PubChem CID : 5310613</p>		<p>0.59 (in 4 replicates)</p>	<p>0.50</p>	<p>0.024</p>				<p>Total number of assays tested in: 772. Active in the following assays:</p> <ul style="list-style-type: none"> Luminescent assay for HTS discovery of chemical activators of placental alkaline phosphatase (AID 696) CYP2C9 Assay (AID 777) qHTS for inhibitors of BCR gamma transcriptional activity (AID 2551) Heat Shock Factor-1 (HSF-1) Measured in Cell-Based System Using Plate Reader - 2038-01 Activator.SinglePoint.HTS.Activity (AID 504408)

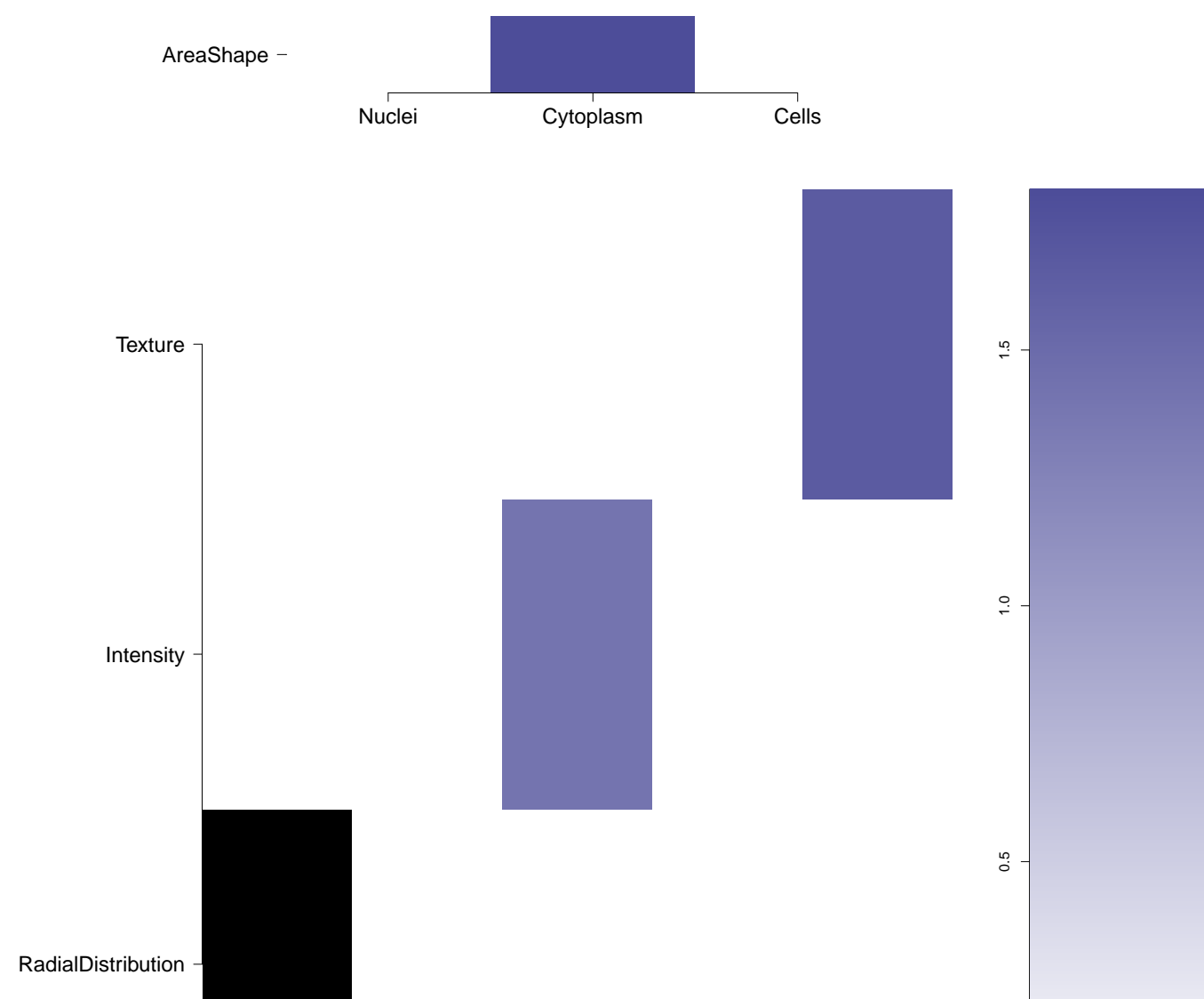
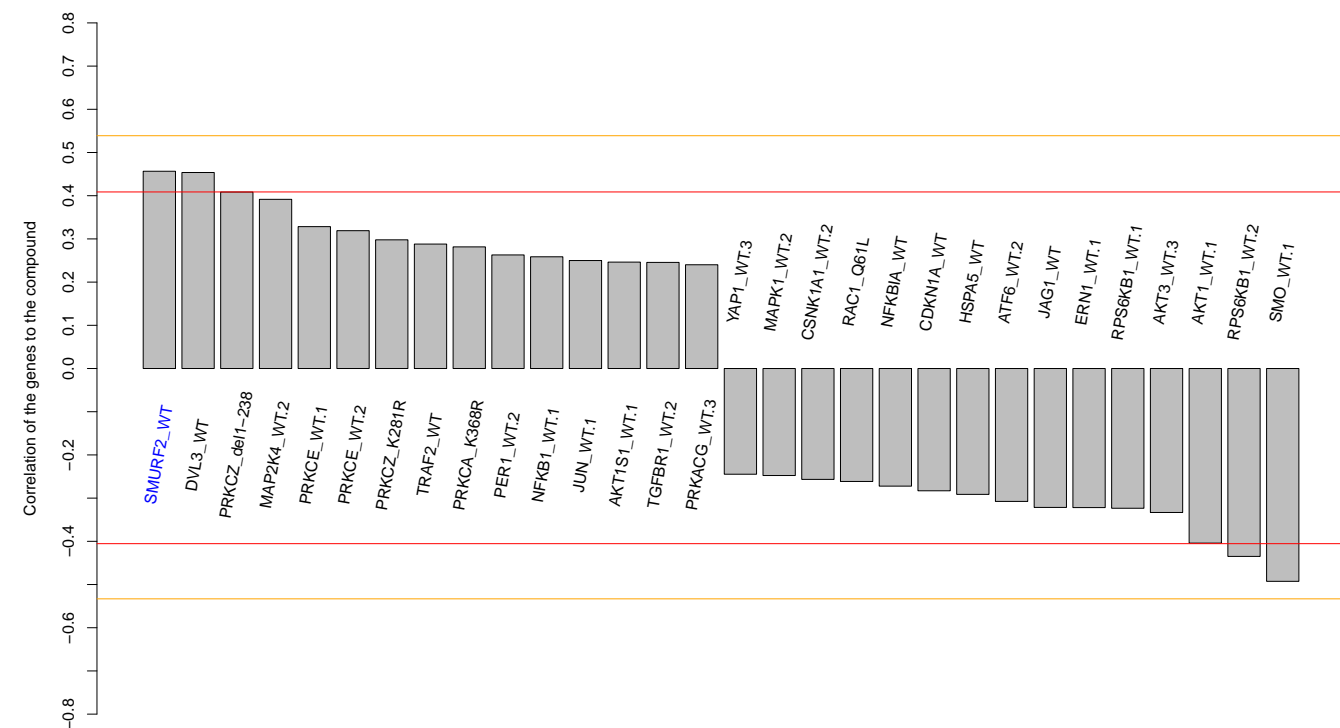
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NA (in 1 replicates)

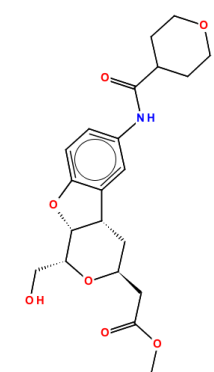
0.46

NA



- Total number of assays tested in: 647. Active in the following assays:
- qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030)
 - Leishmania major promastigote HTS (AID 1063)
 - HCS to Identify Inhibitors of Dynein Mediated Cargo Transport on Microtubules. (AID 1381)
 - nHTS luminescence assay for the identification of compounds that inhibit NOD1 (AID 1578)
 - Luminescence Cell-Based/Microorganism Primary HTS to Identify Inhibitors of T.Cruzi Replication (AID 1885)
 - Luminescence Cell-Based Dose Response HTS to Identify Compounds Cytotoxic to BJ-TERT RAS-Independent Fibroblast (AID 1933)
 - Luminescence Cell-Based Dose Response HTS to Identify Compounds Cytotoxic to DRD Non-Viral Oncogenic Fibroblast (AID 1934)
 - 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)
 - Fluorescence polarization-based biochemical high throughput confirmation assay for inhibitors of the oxidoreductase glutathione S-transferase omega 1(GSTO1). (AID 2176)
 - Fluorescence Cell-Free Homogenous Primary HTS to Identify Inhibitors of RecA Intein Splicing Activity (AID 2221)
 - qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)
 - HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732)
 - Fluorescence Cell-Free Homogeneous Counter Screen to Identify Inhibitors of GFP Chromophore Formation (AID 434968)
 - Fluorescence Cell-Free Homogeneous Dose Retest to Identify Inhibitors of RecA-Intein Splicing Activity (AID 435010)
 - A Cell Based Secondary Assay To Explore Cytotoxicity of Compounds that Inhibit Mycobacterium Tuberculosis (AID 435019)
 - Fluorescence Cell-Free Homogeneous Secondary Screen to Identify Inhibitors of DnaB-Intein Splicing Activity (AID 449749)
 - Fluorescence Cell-Free Homogeneous Secondary Screen to Identify Non-Covalent Inhibitors of RecA-Intein Splicing Activity (AID 449750)
 - High Throughput Screening Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in TH9 Media (AID 449762)
 - A High Throughput Confirmatory Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in the absence of Glycerol (AID 449764)
 - HCS to Identify Inhibitors of Dynein Mediated Cargo Transport on Microtubules: Confirmation Assay (AID 463116)
 - Concentration-Response Confirmation Assays for HCS to Identify Inhibitors of Dynein Mediated Cargo Transport on Microtubules (AID 463136)
 - nHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346)
 - qHTS Assay for the Inhibitors of Schistosoma Mansonii Peroxiredoxins (AID 485364)
 - Single concentration confirmation of nHTS for Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 489028)
 - Single concentration confirmation of inhibitors of Mdm2/MdmX interaction using a Full-Length Luciferase Counterscreen assay (AID 504607)
 - Single concentration confirmation of inhibitors of Mdm2/MdmX interaction using a Brcal/Bard1 BILC Counterscreen assay. (AID 504668)
 - Primary qHTS for delayed death inhibitors of the malarial parasite plasid, 48 hour incubation (AID 504832)
 - Primary qHTS for delayed death inhibitors of the malarial parasite plasid, 96 hour incubation (AID 504834)
 - qHTS for Inhibitors of binding or entry into cells for Lassa Virus (AID 540256)
 - 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.Dose.CherryPick.Activity (AID 540271)
 - qHTS for Inhibitors of TGF-b (AID 588855)
 - Mammalian cell toxicity counterscreen to identify toxic HSP40 inhibitor compounds in NIH3T3 cells Measured in Cell-Based System Using Plate Reader - 2120-03.Inhibitor.Dose.CherryPick.Activity.Set2 (AID 624265)
 - nHTS identification of small molecule Triacylglycerol inhibitors in a fluorescence assay (AID 651582)
 - qHTS for Inhibitors of ATXN expression (AID 651635)
 - Cell-based secondary assay to test the inhibitory activity of small molecule on Plasmodium falciparum (HB3 strain) survival in red blood cells Measured in Cell-Based System Using Plate Reader - 2120-06.Inhibitor.Dose.CherryPick.Activity (AID 652041)
 - Cell-based secondary assay to test the inhibitory activity of small molecule on Plasmodium falciparum (3D7 strain) survival in red blood cells Measured in Cell-Based System Using Plate Reader - 2120-05.Inhibitor.Dose.CherryPick.Activity (AID 652047)
 - qHTS of TDP-43 Inhibitors (AID 652104)
 - qHTS for induction of synthetic lethality in tumor cells producing 2HG: qHTS for the HT-1080-NT fibrosarcoma cell line (AID 686970)
 - qHTS for induction of synthetic lethality in tumor cells producing 2HG: qHTS for the HT-1080-IDH1KD 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)
 - High Throughput Screening for Foot and Mouth Disease Virus Antivirals (AID 1159524)

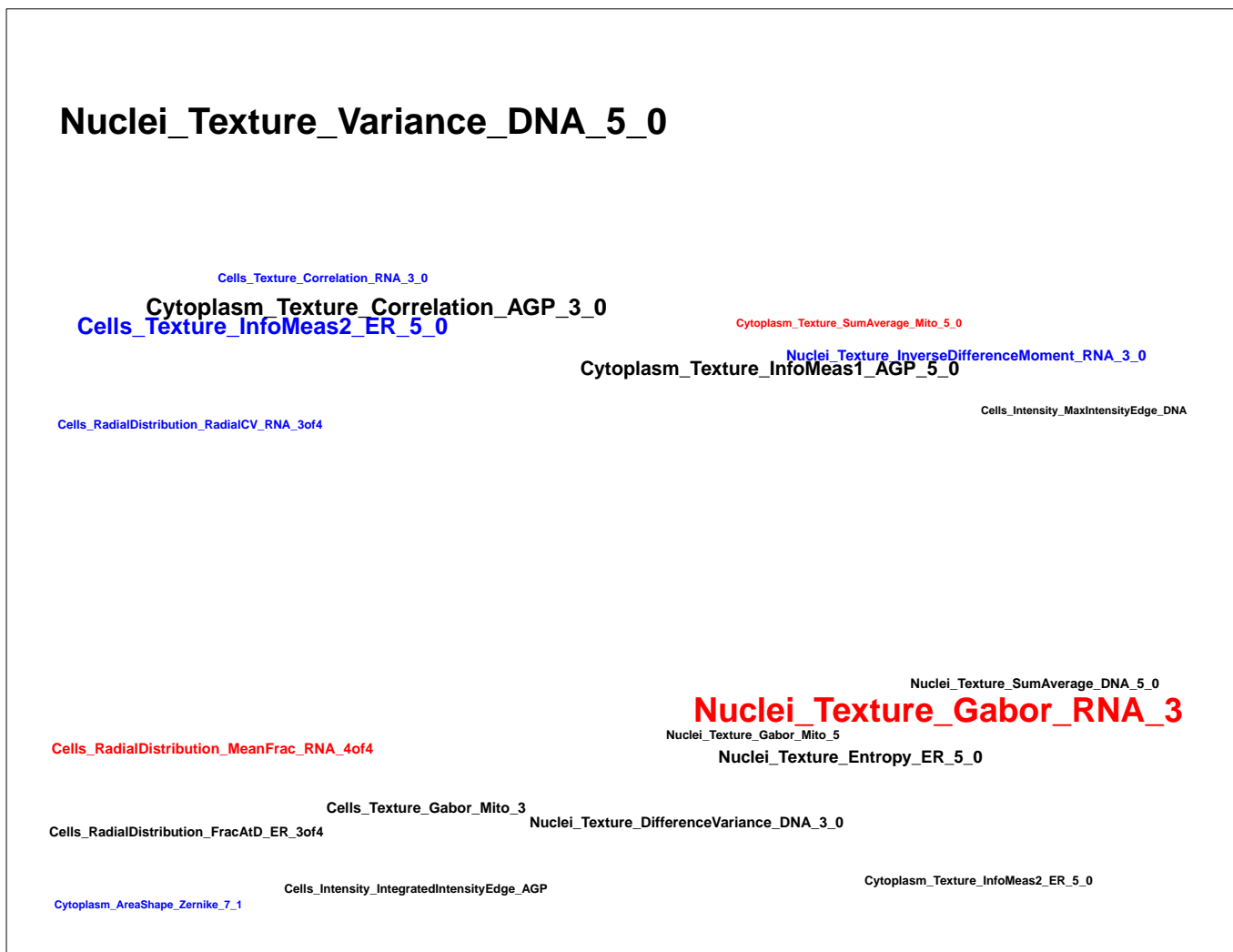
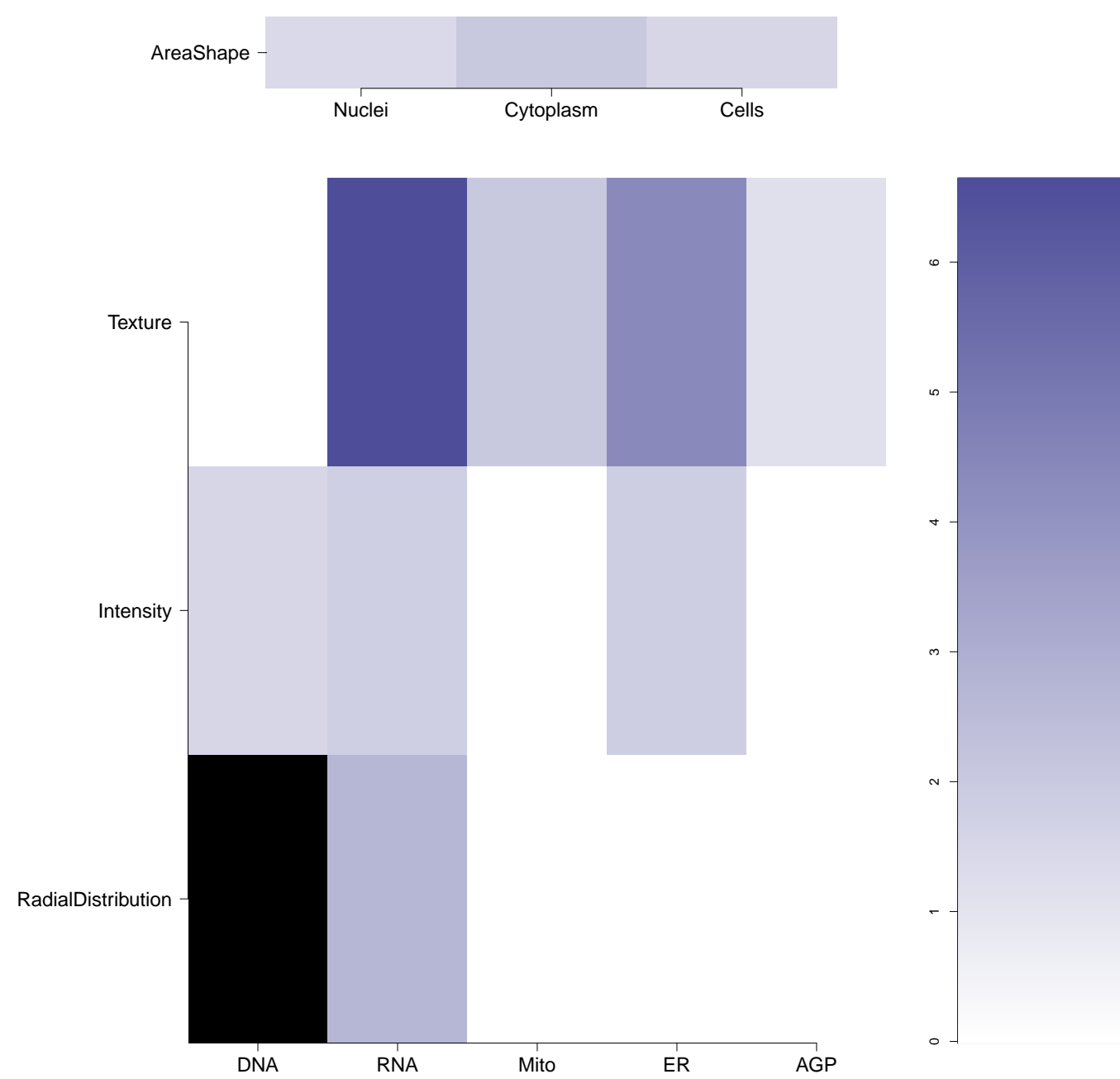
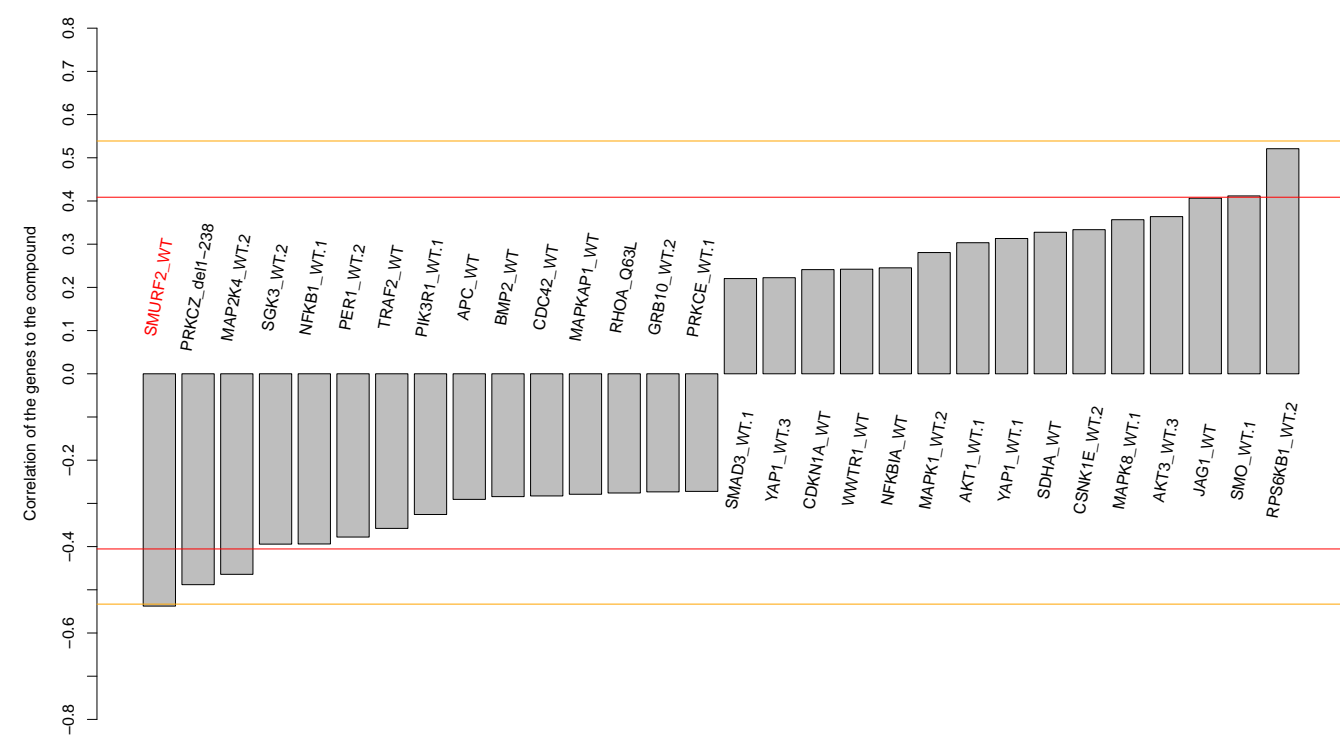
BRD-K28223745-001-01-9
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NA (in 1 replicates)

-0.54

0.850



Total number of assays tested in: 40.

