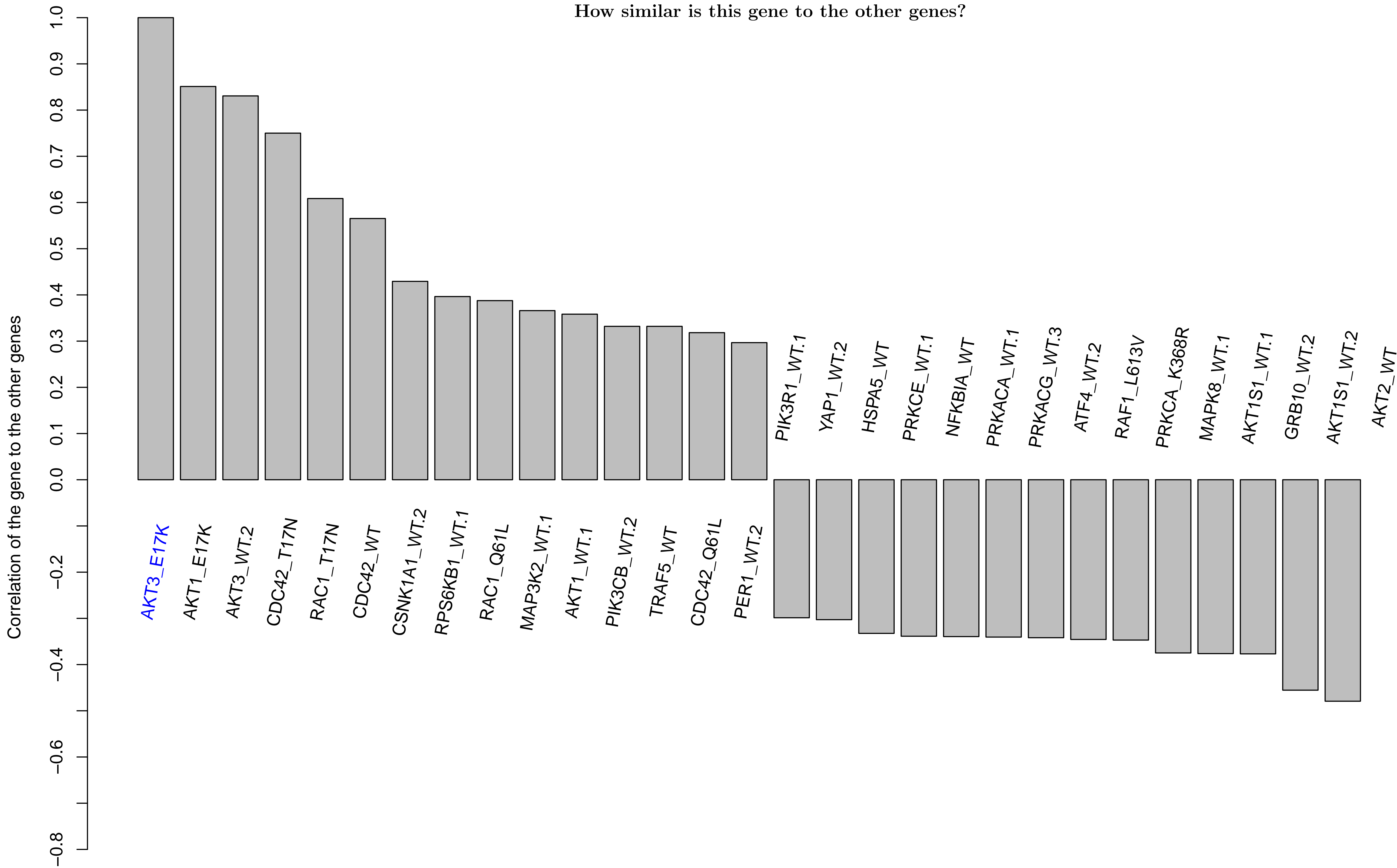
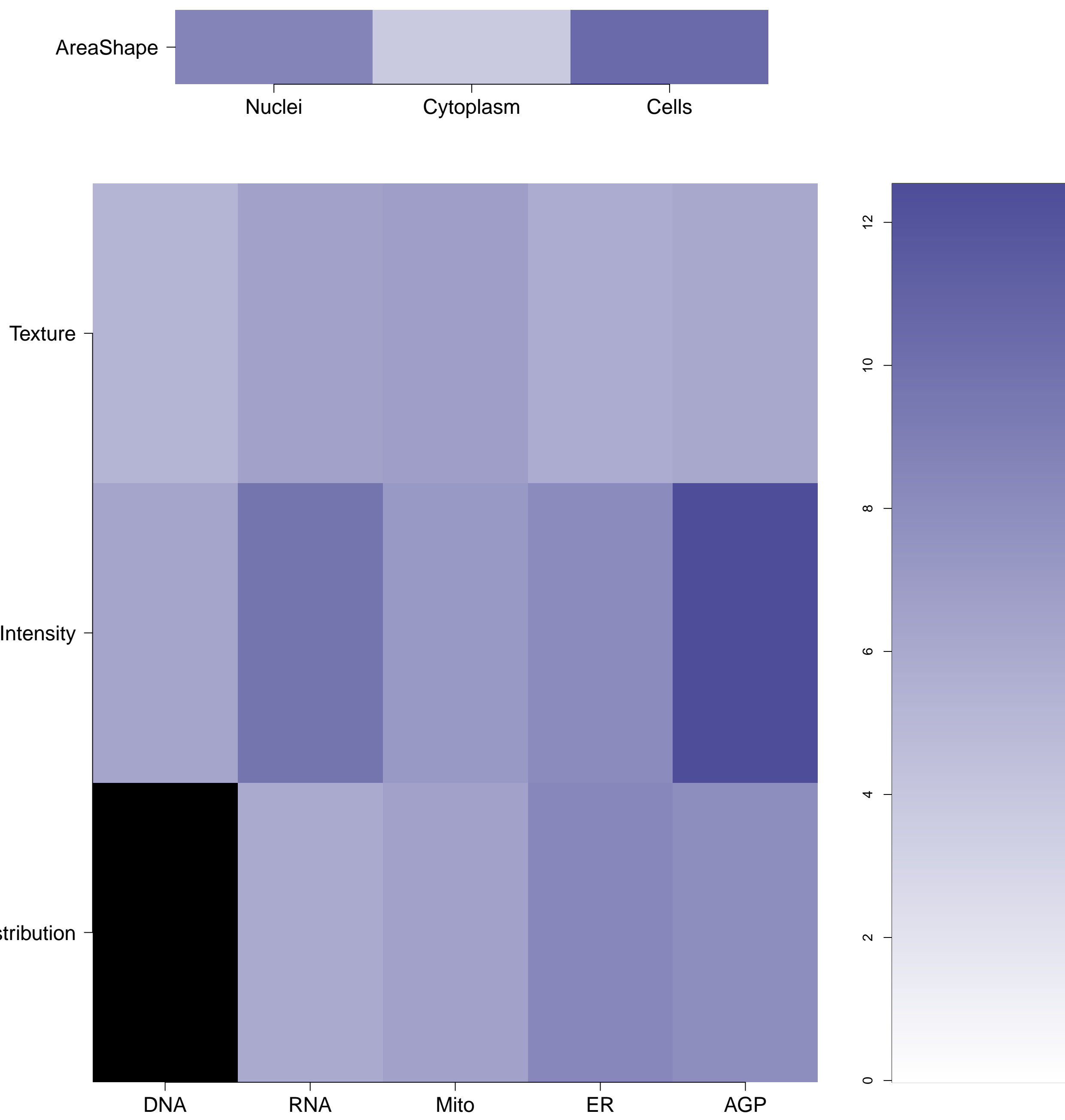


AKT3.E17K - in Canonical PI3K/AKT

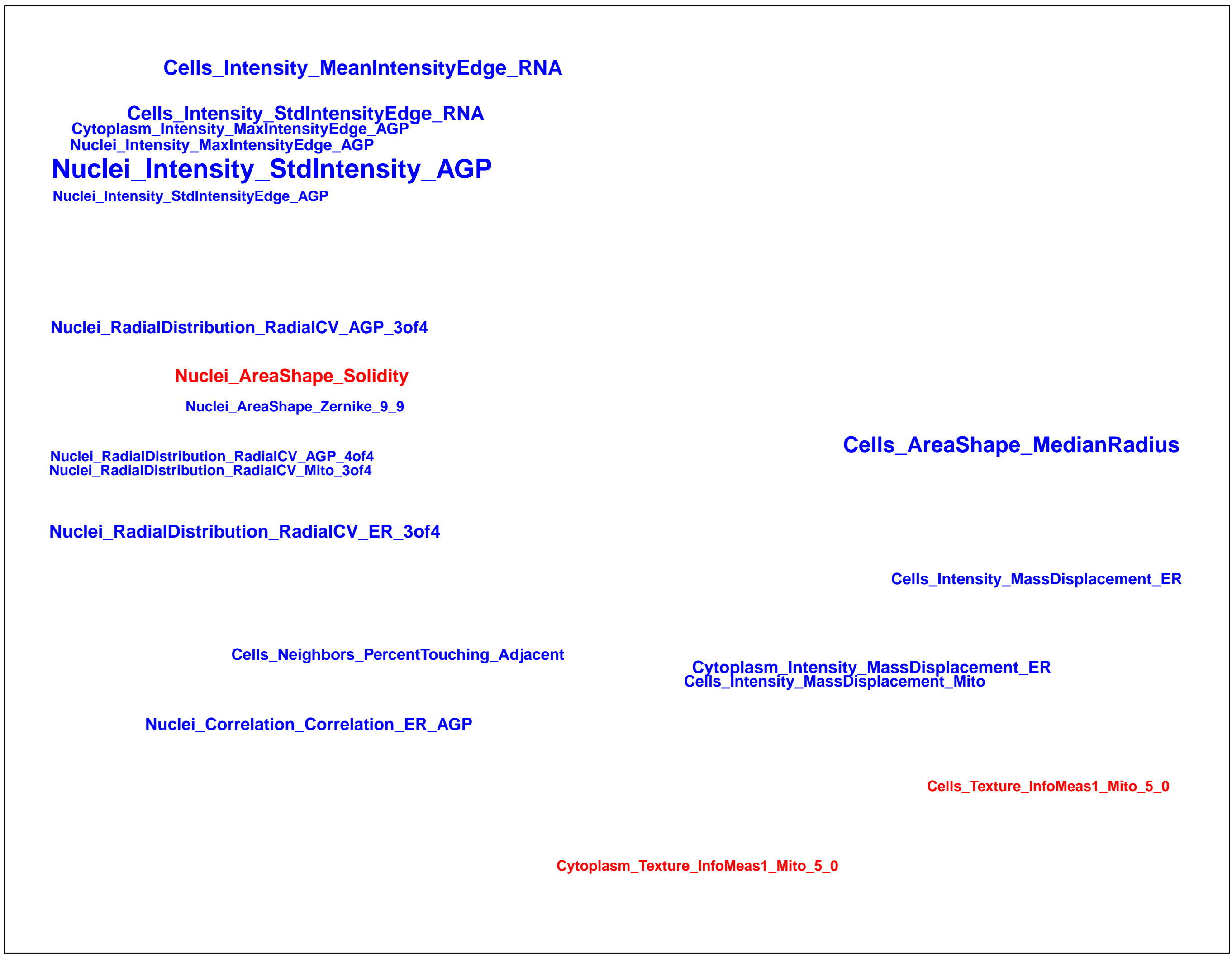
How similar is this gene to the other genes?



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

AKT3.E17K (41744)

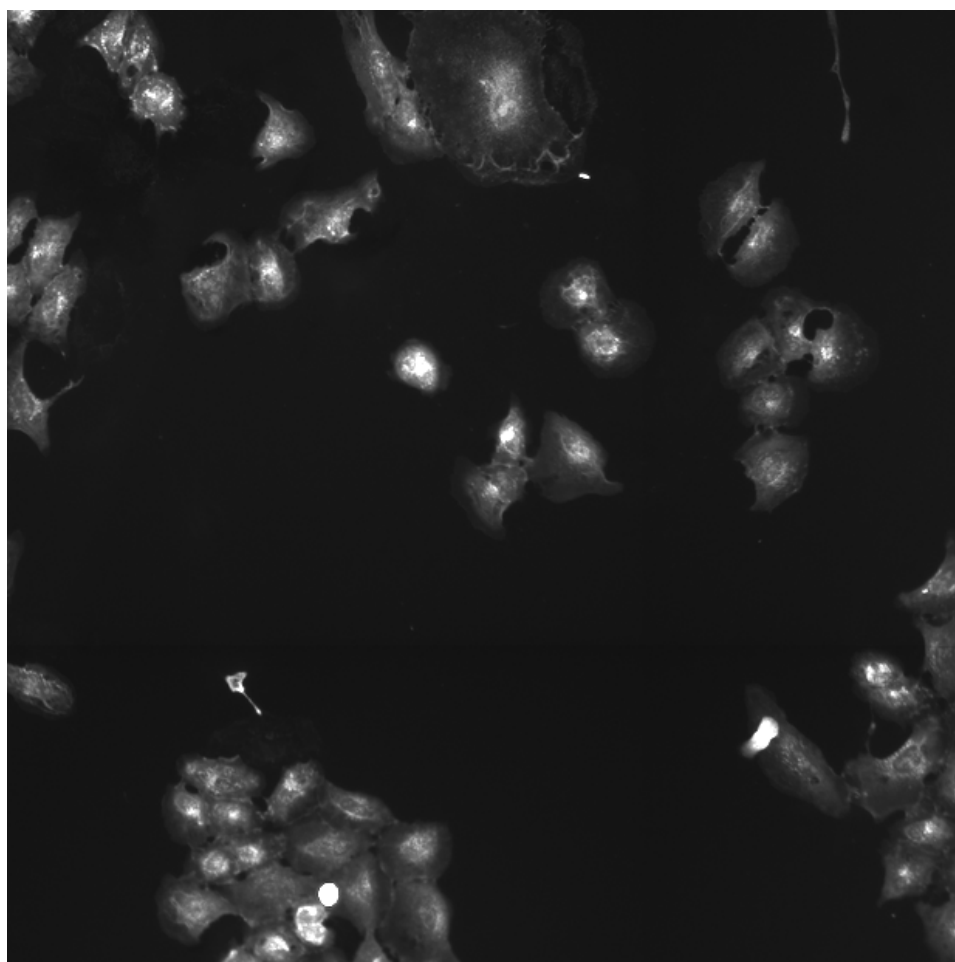
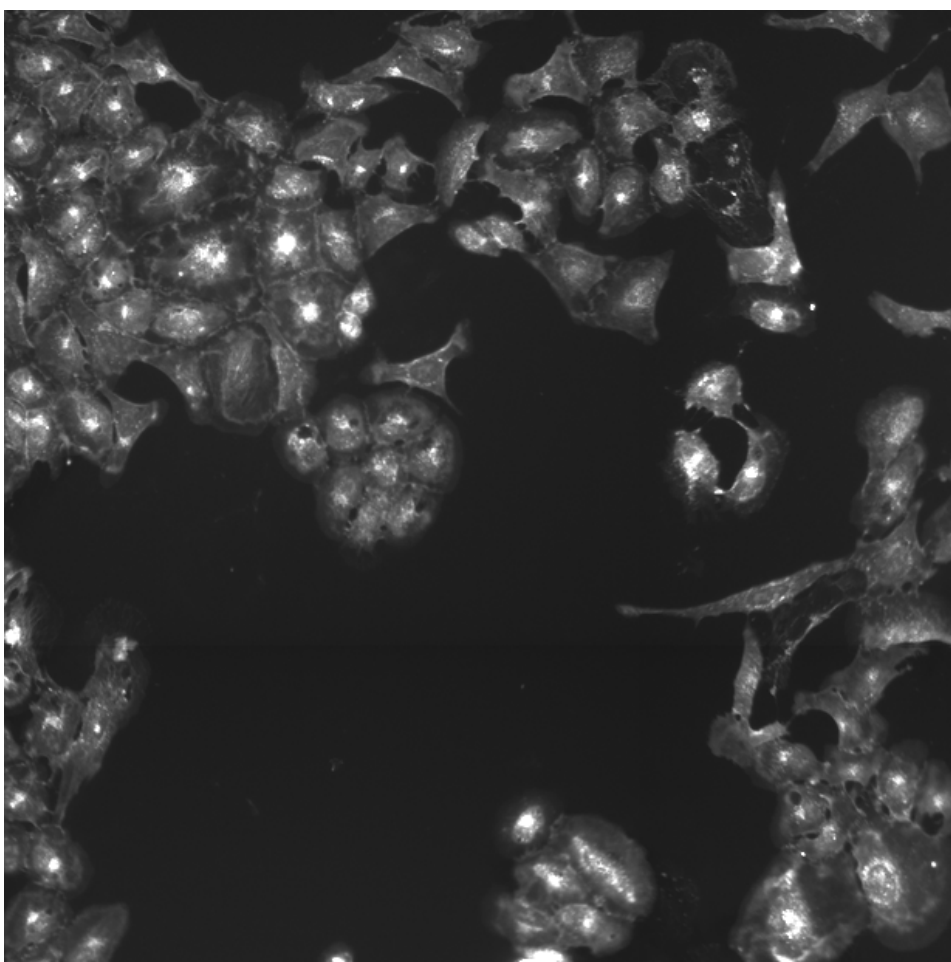
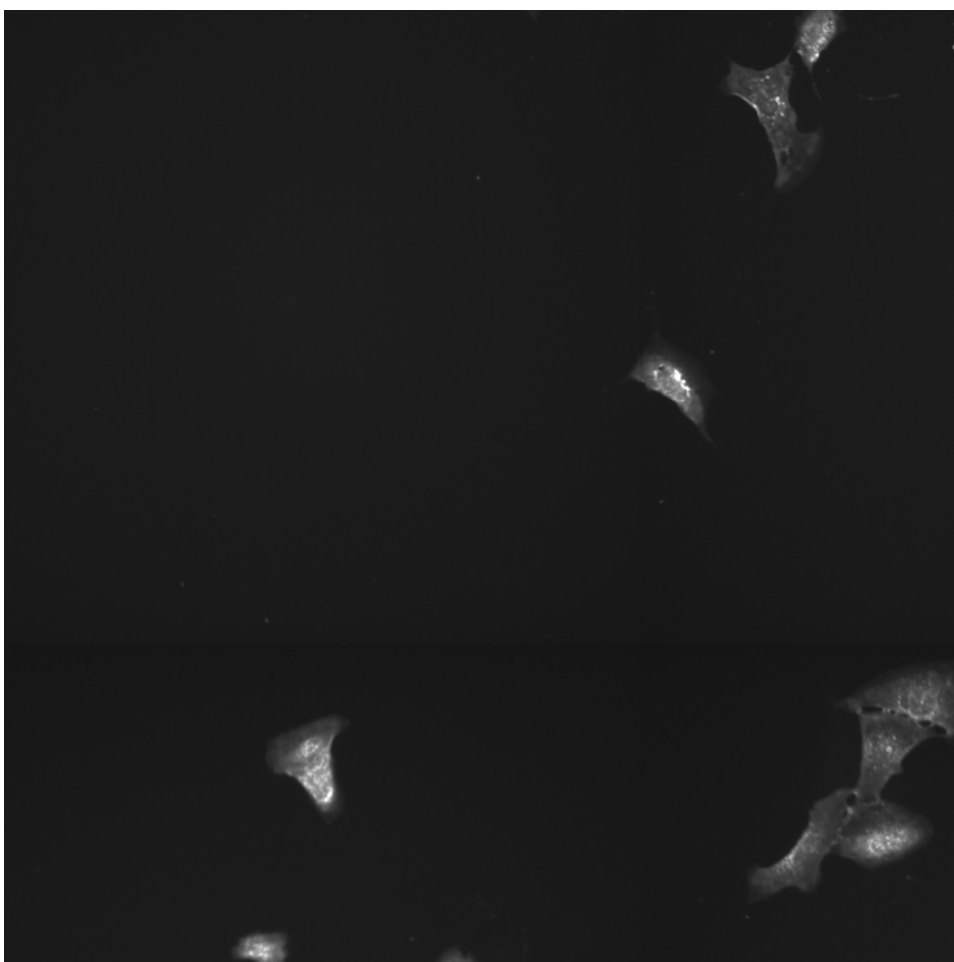
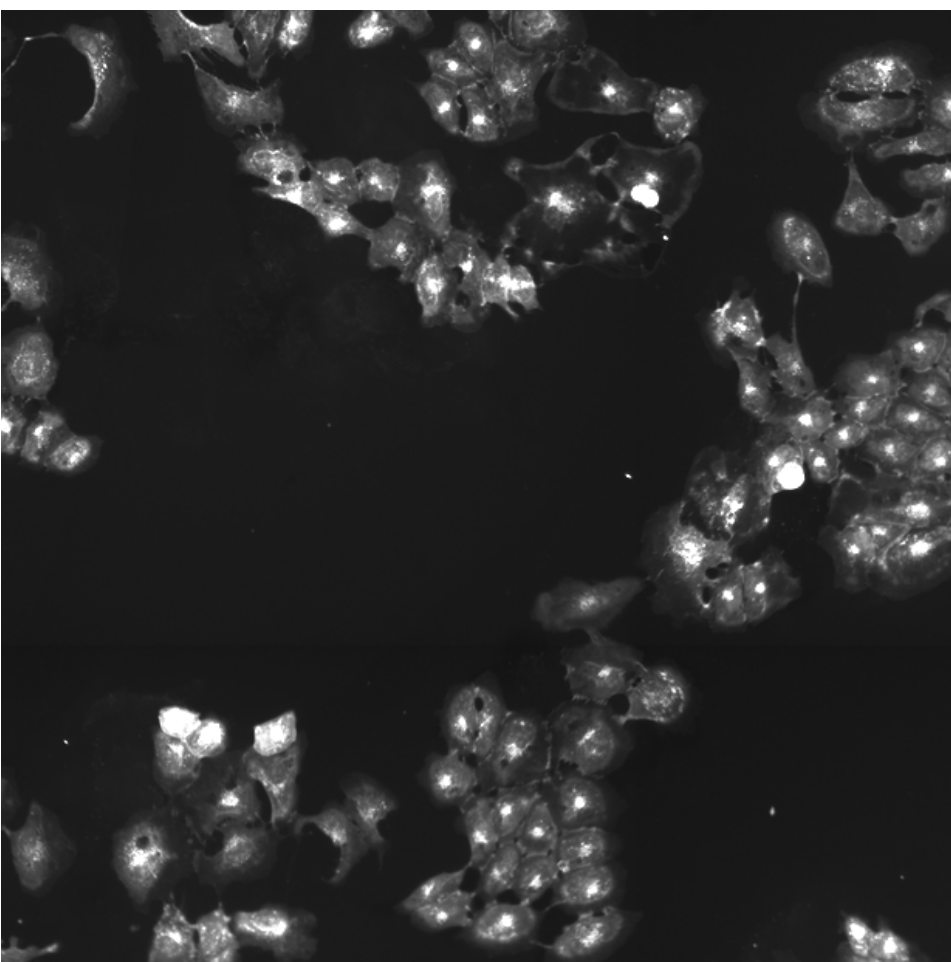
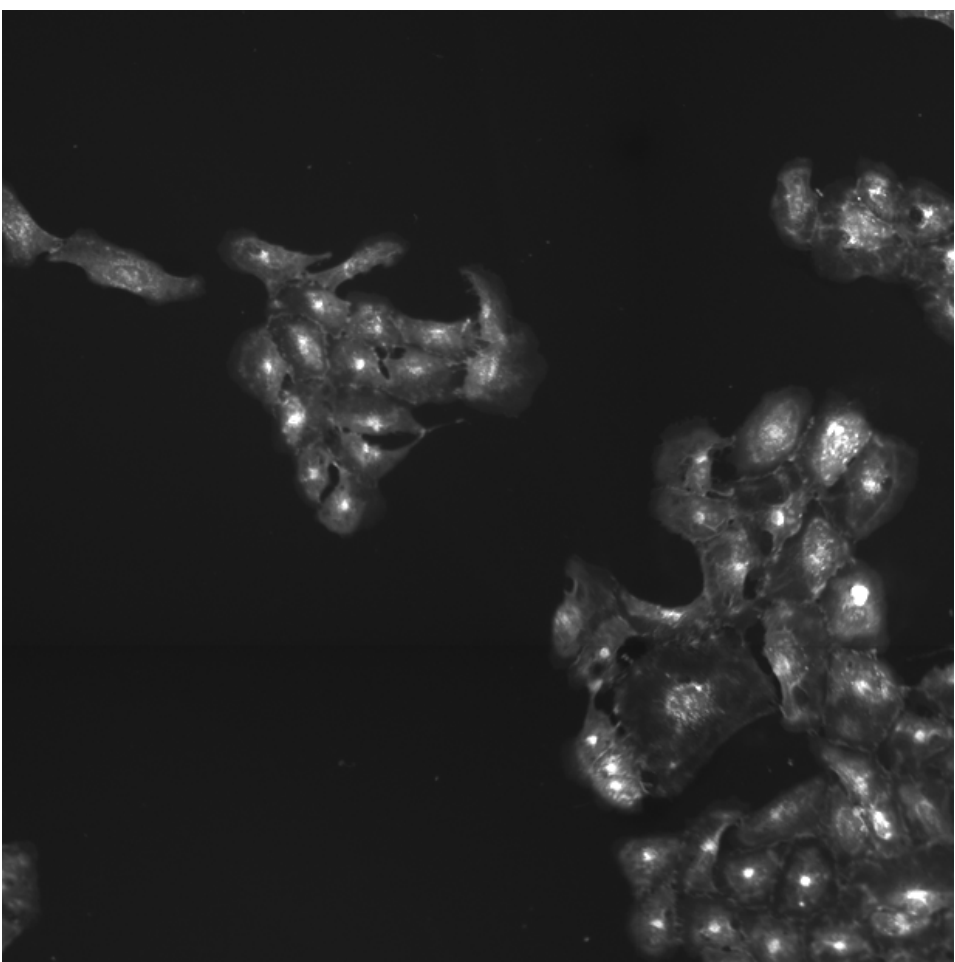
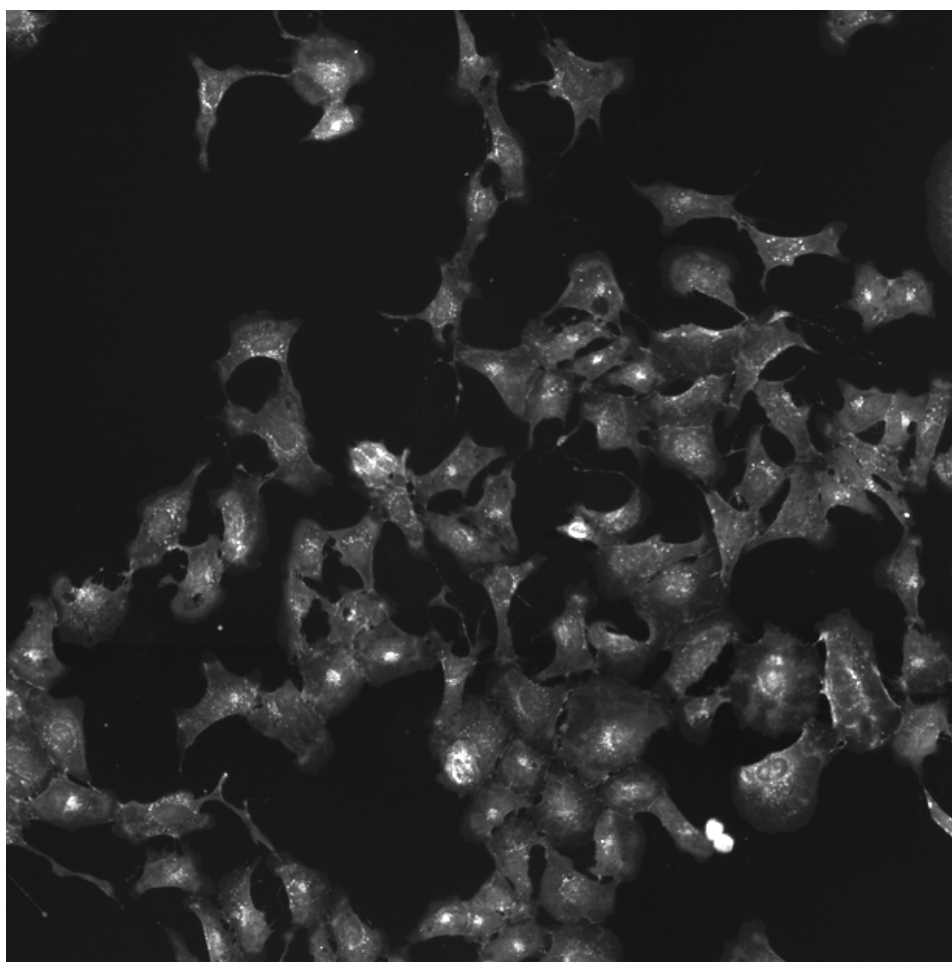
AKT3.E17K (41755)

AKT3.E17K (41756)

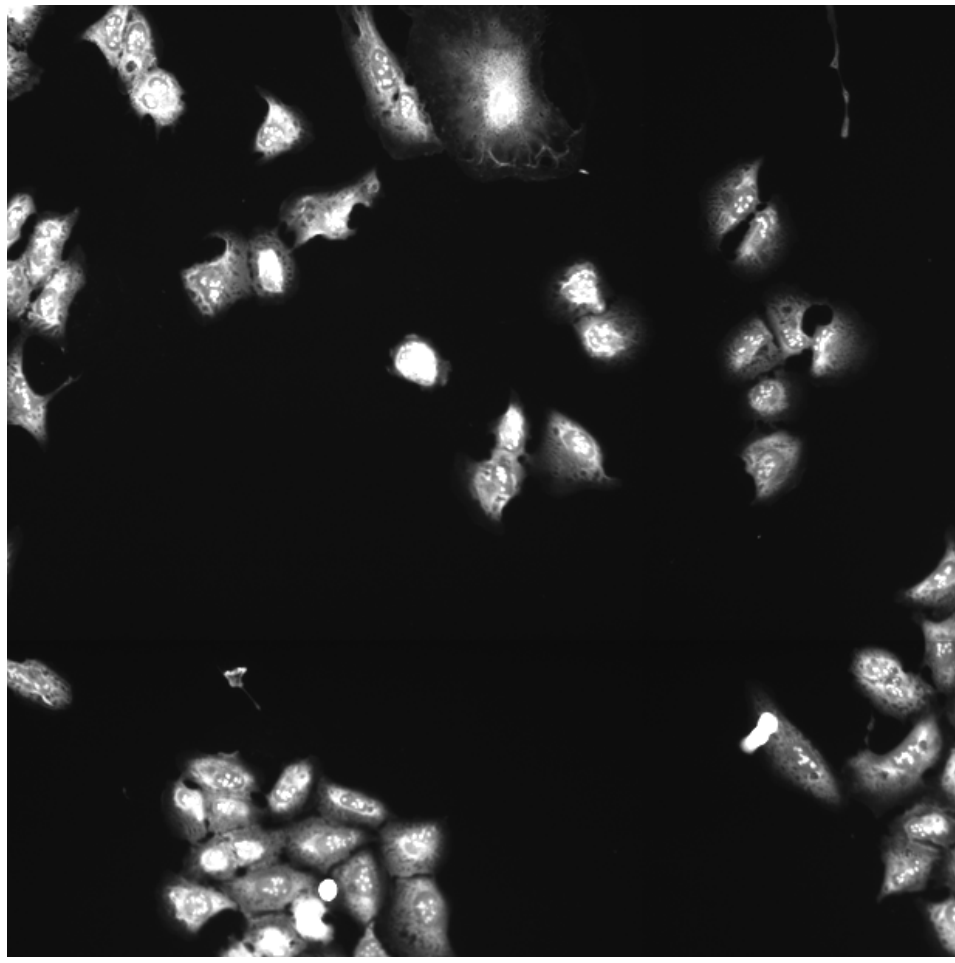
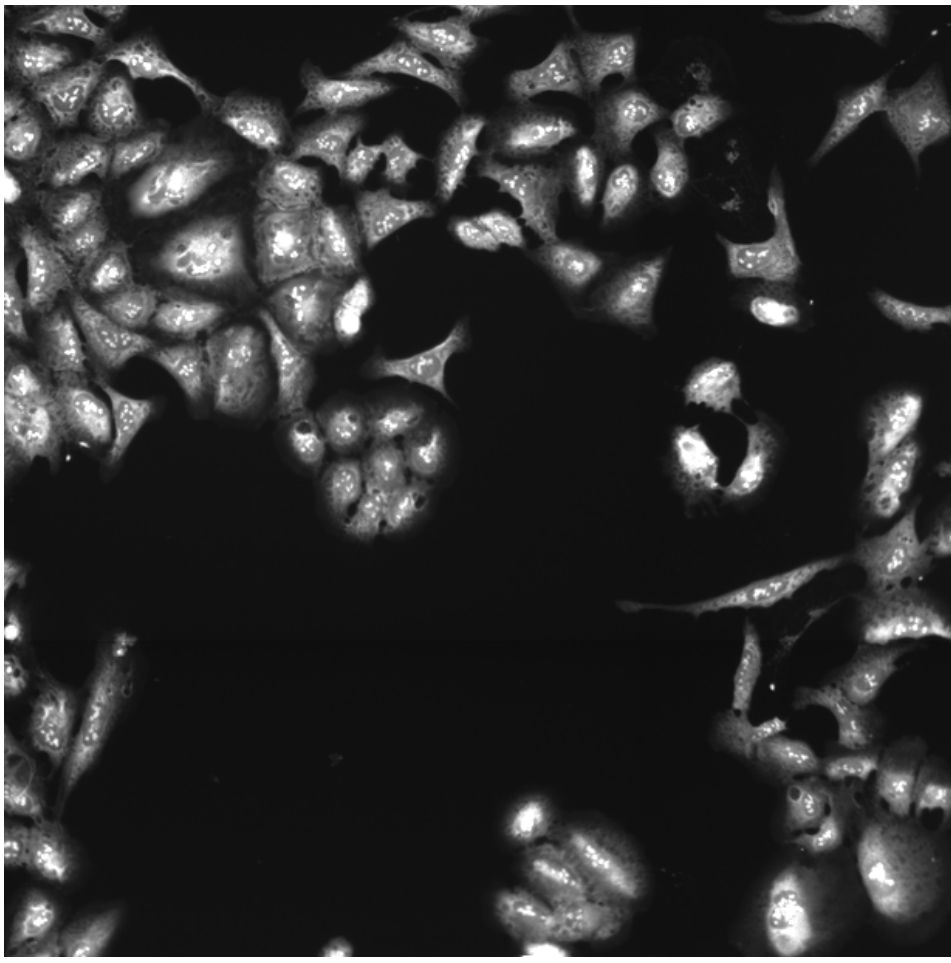
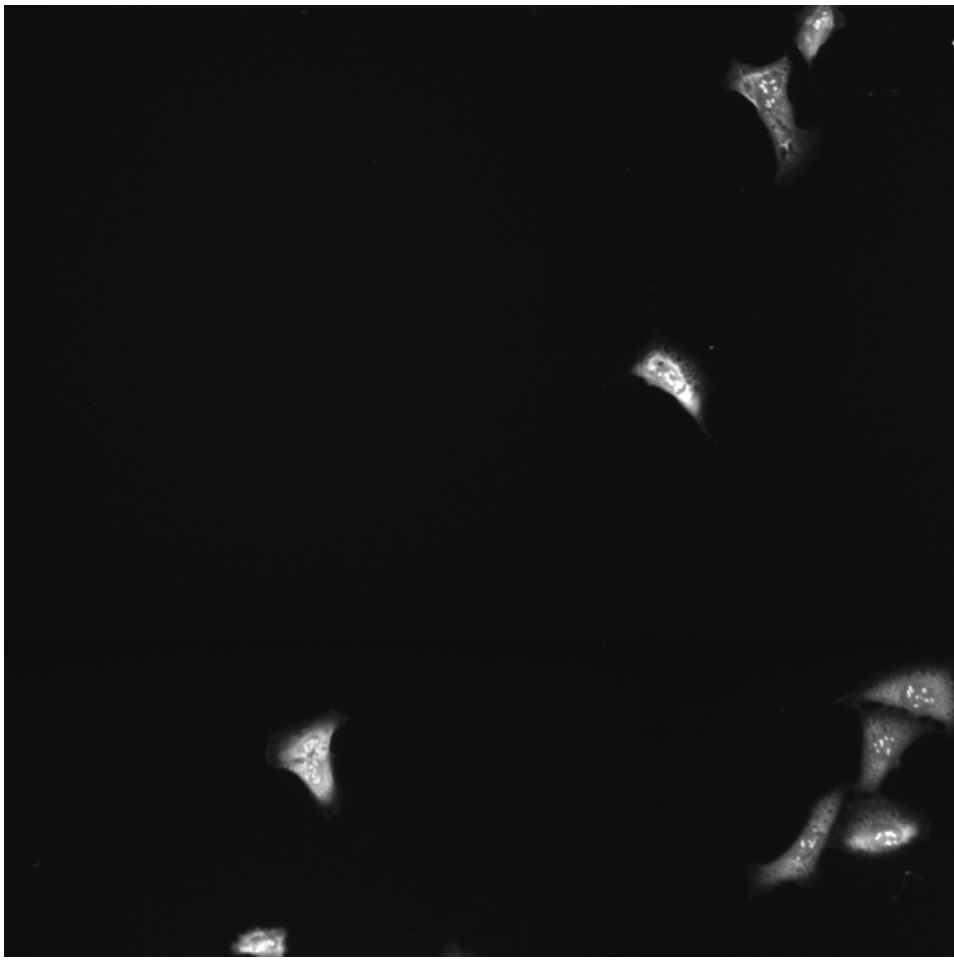
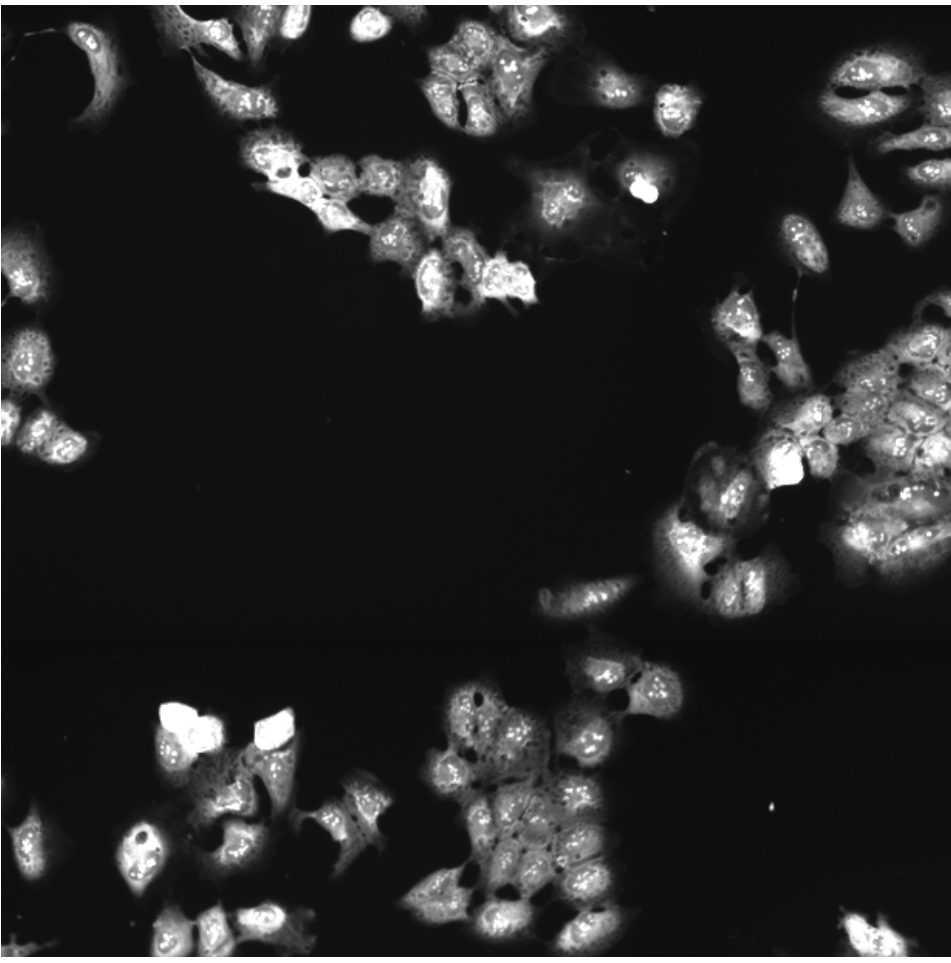
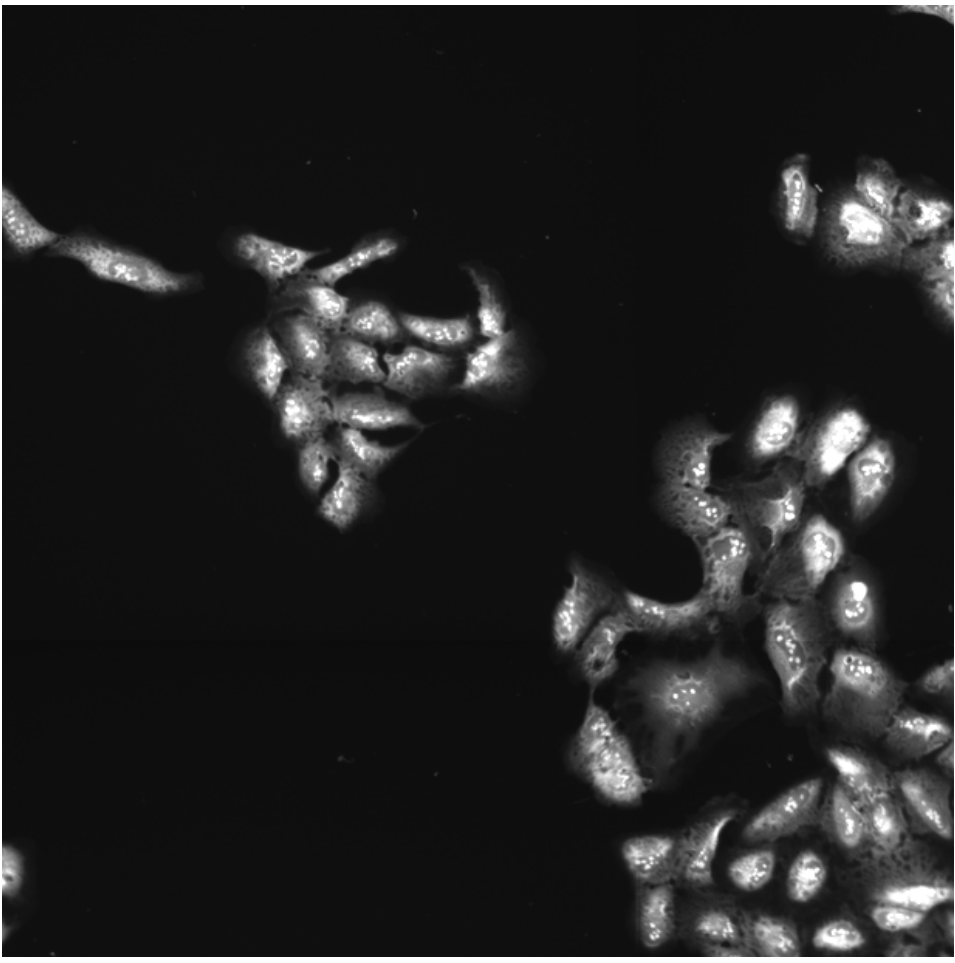
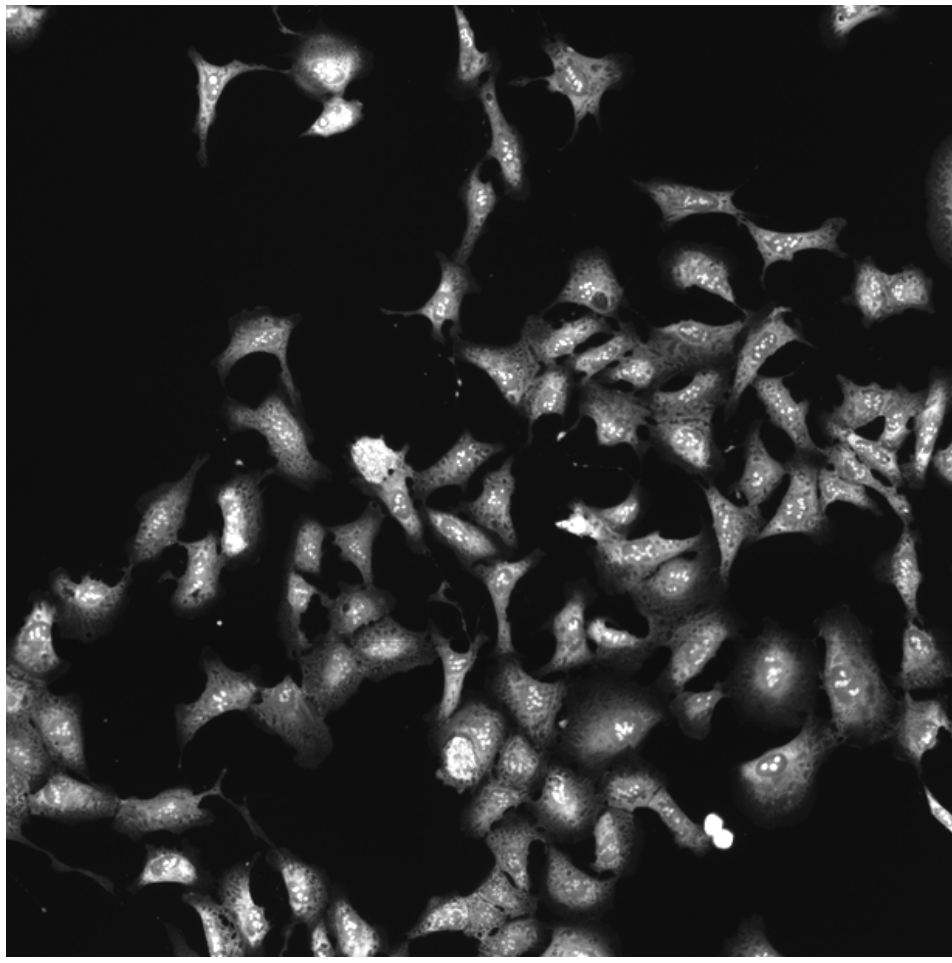
AKT3.E17K (41757)

AKT3.E17K (41754)

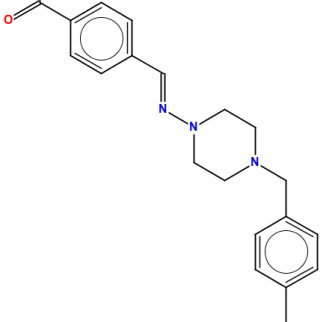
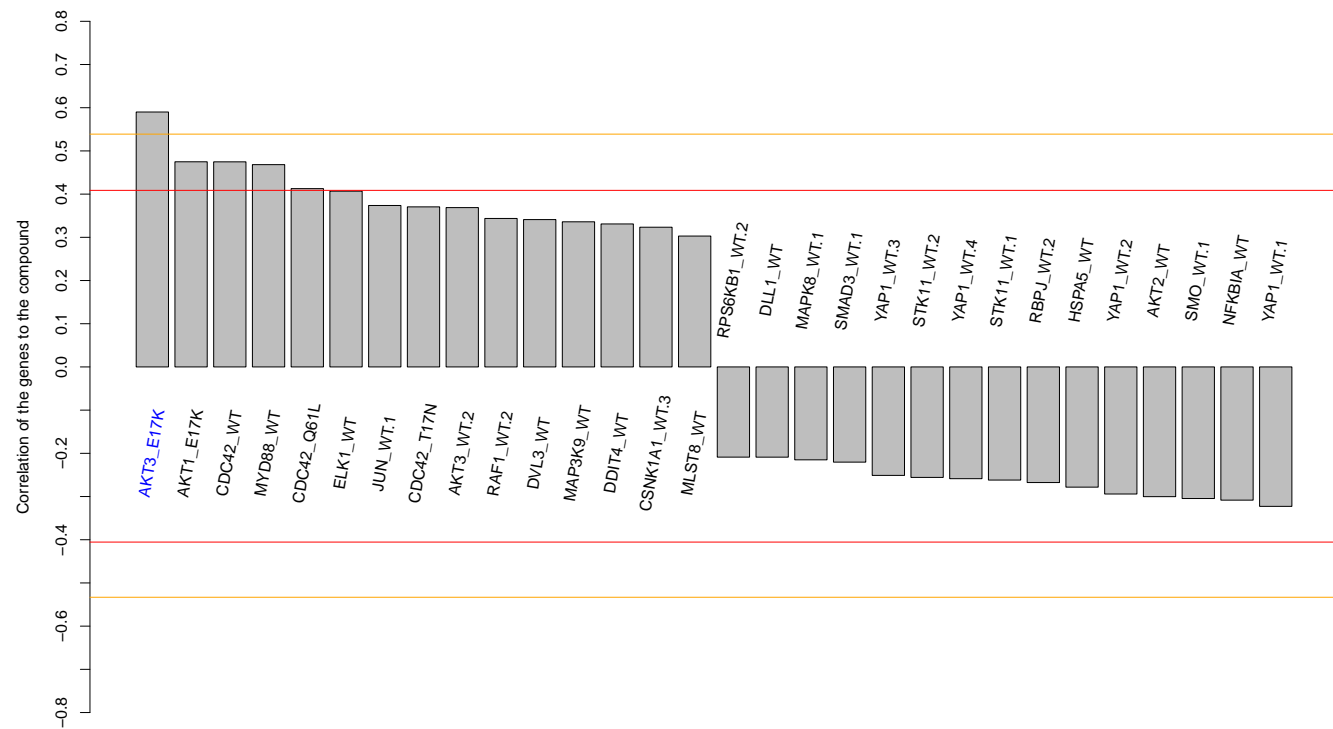
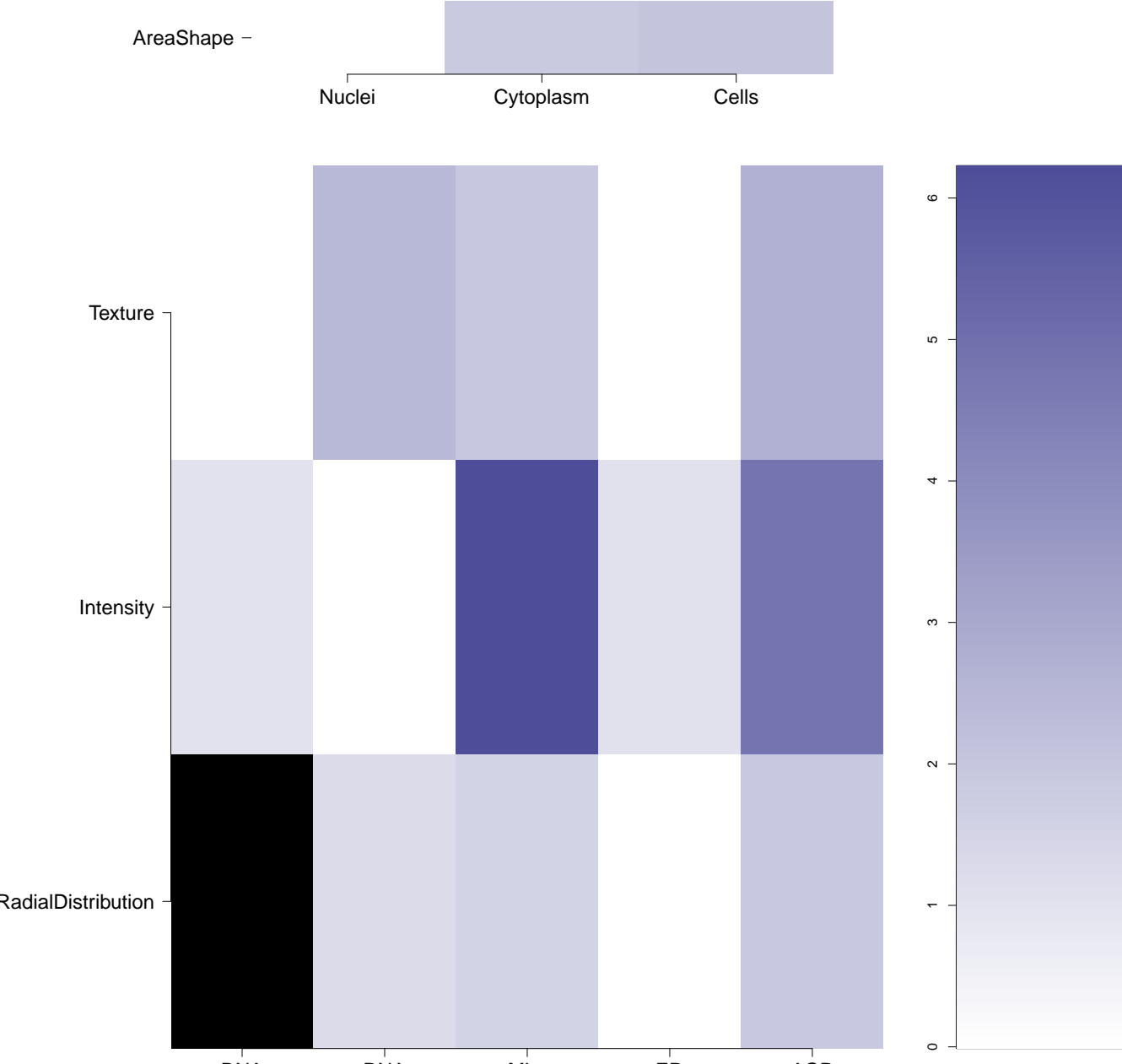
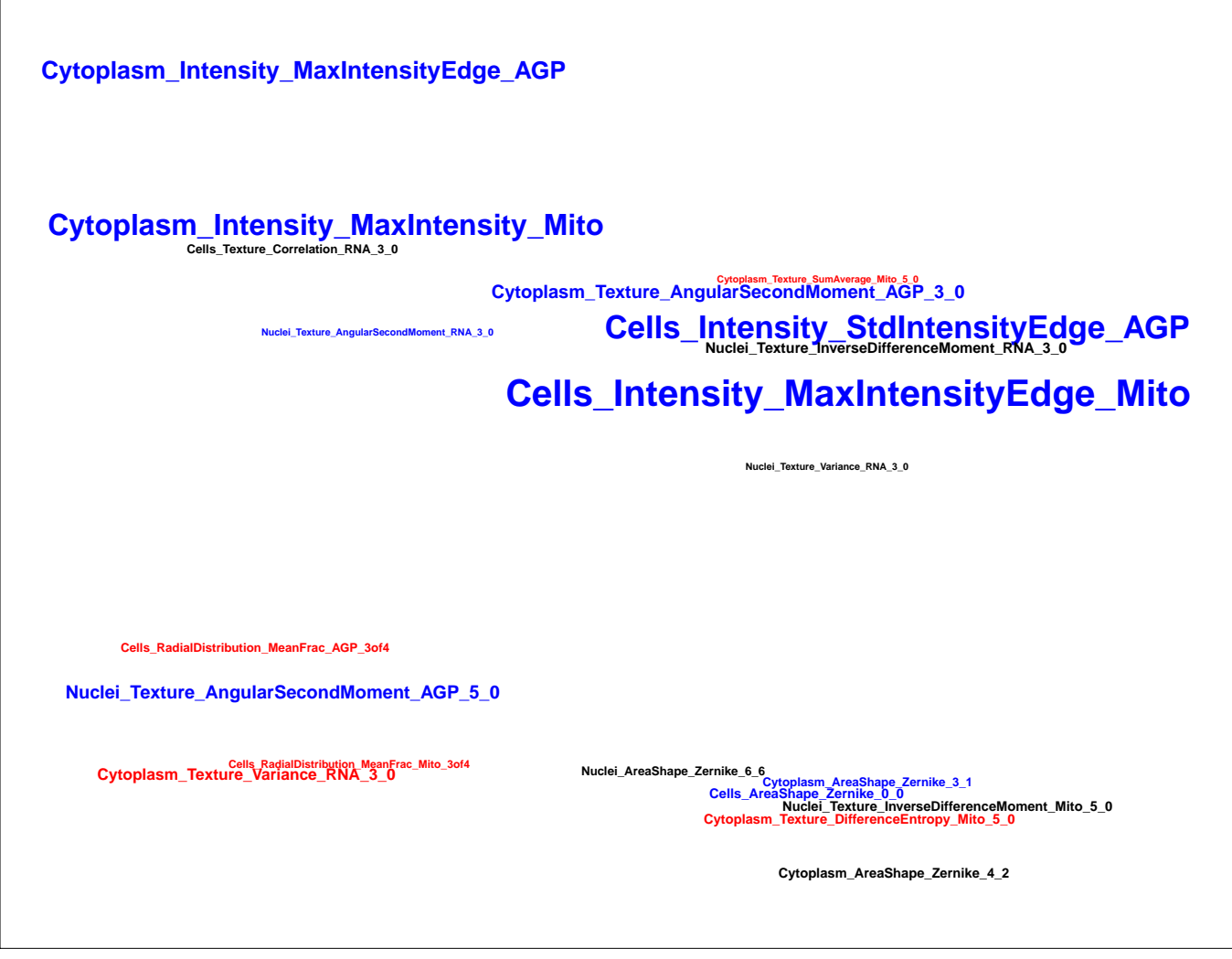
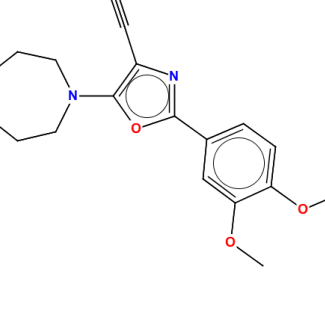
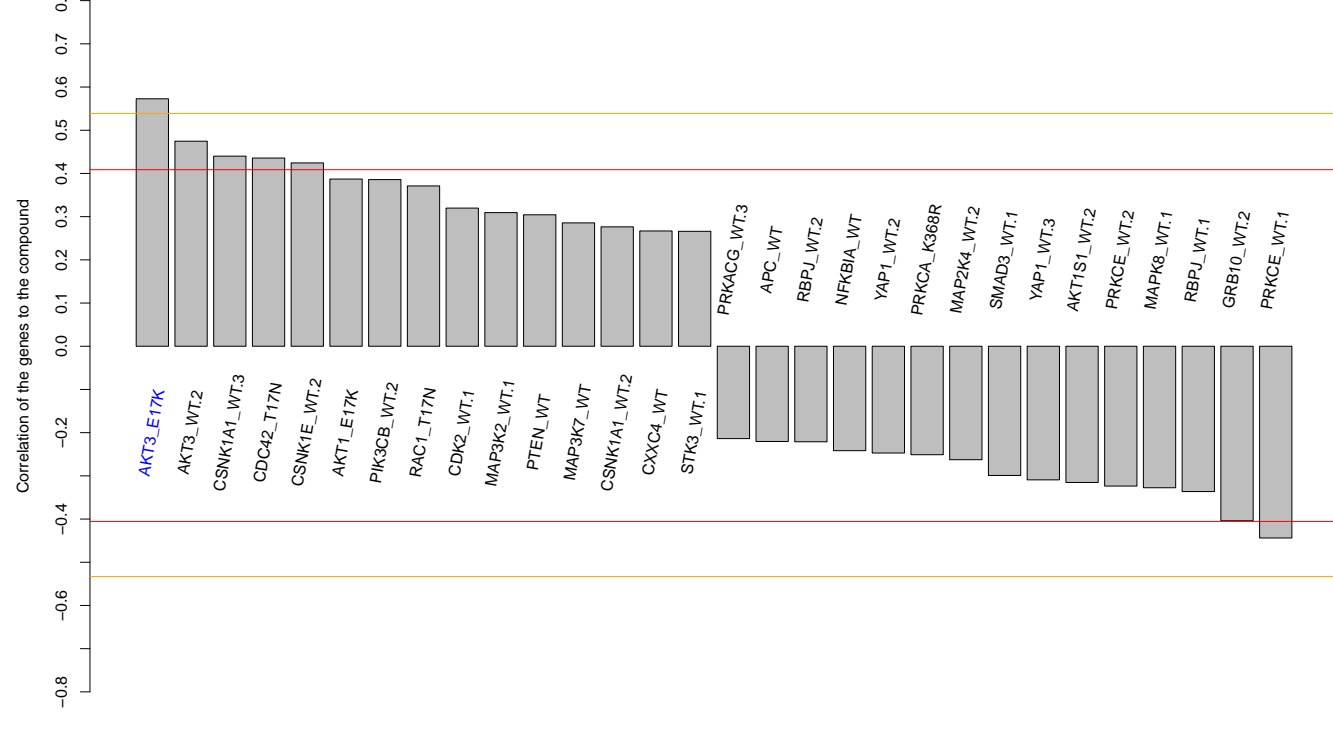
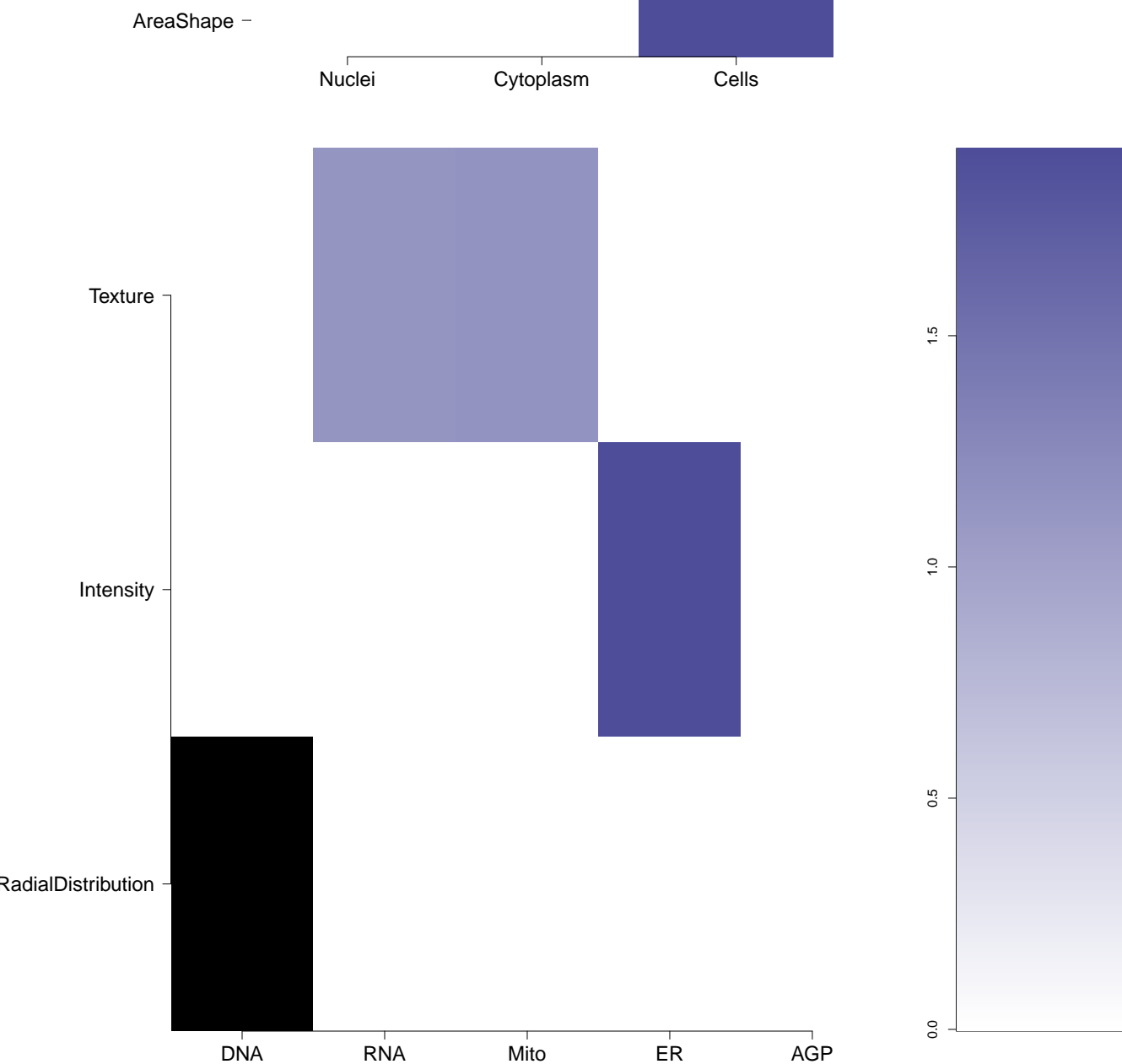

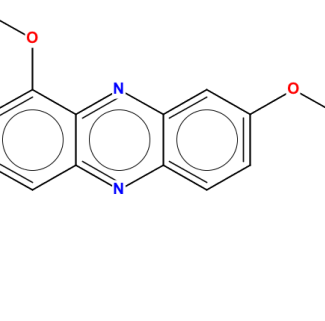
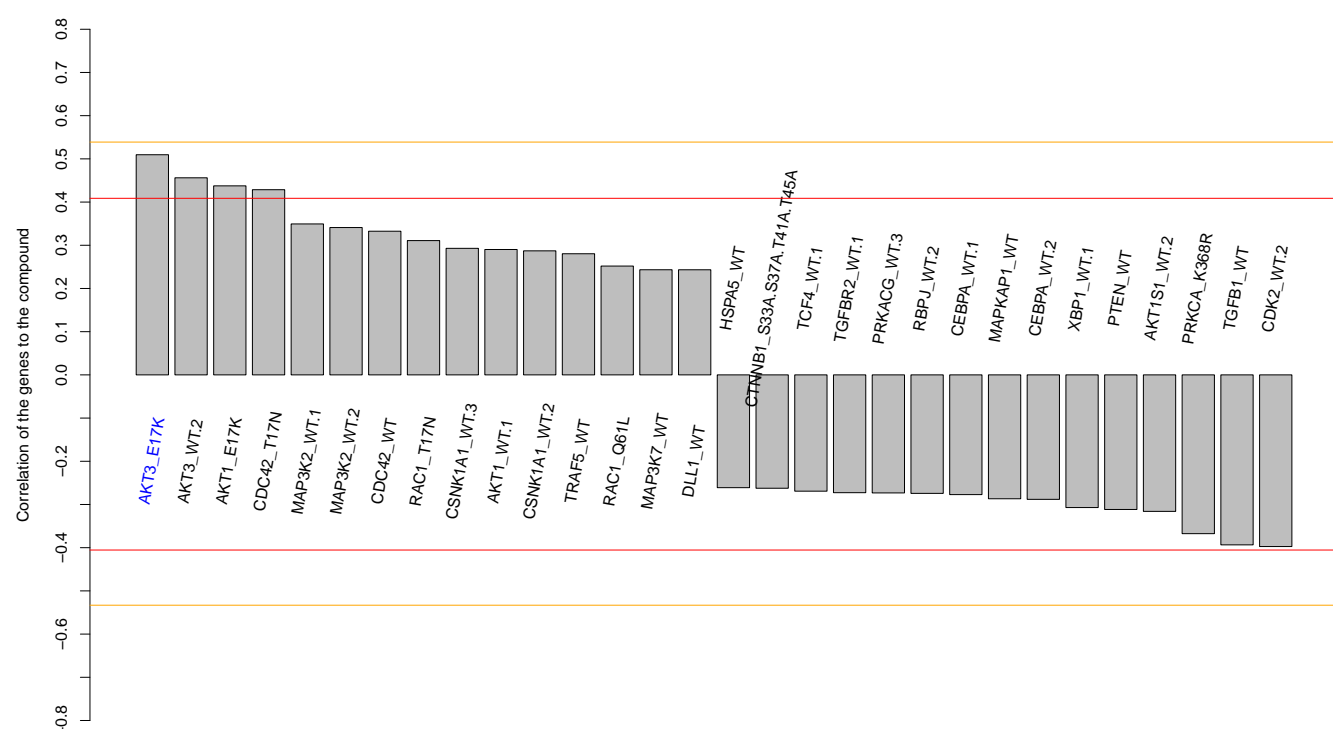
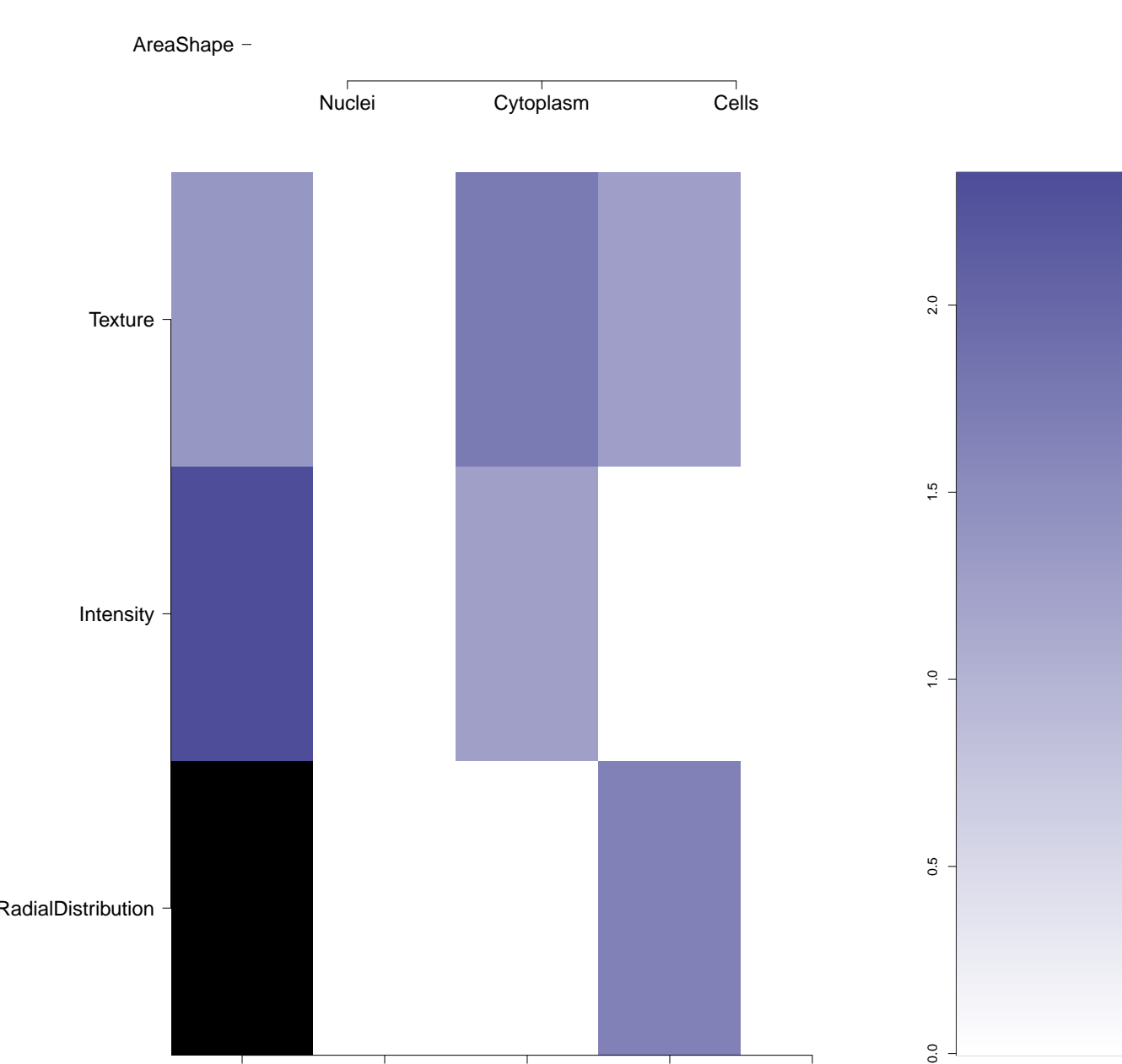
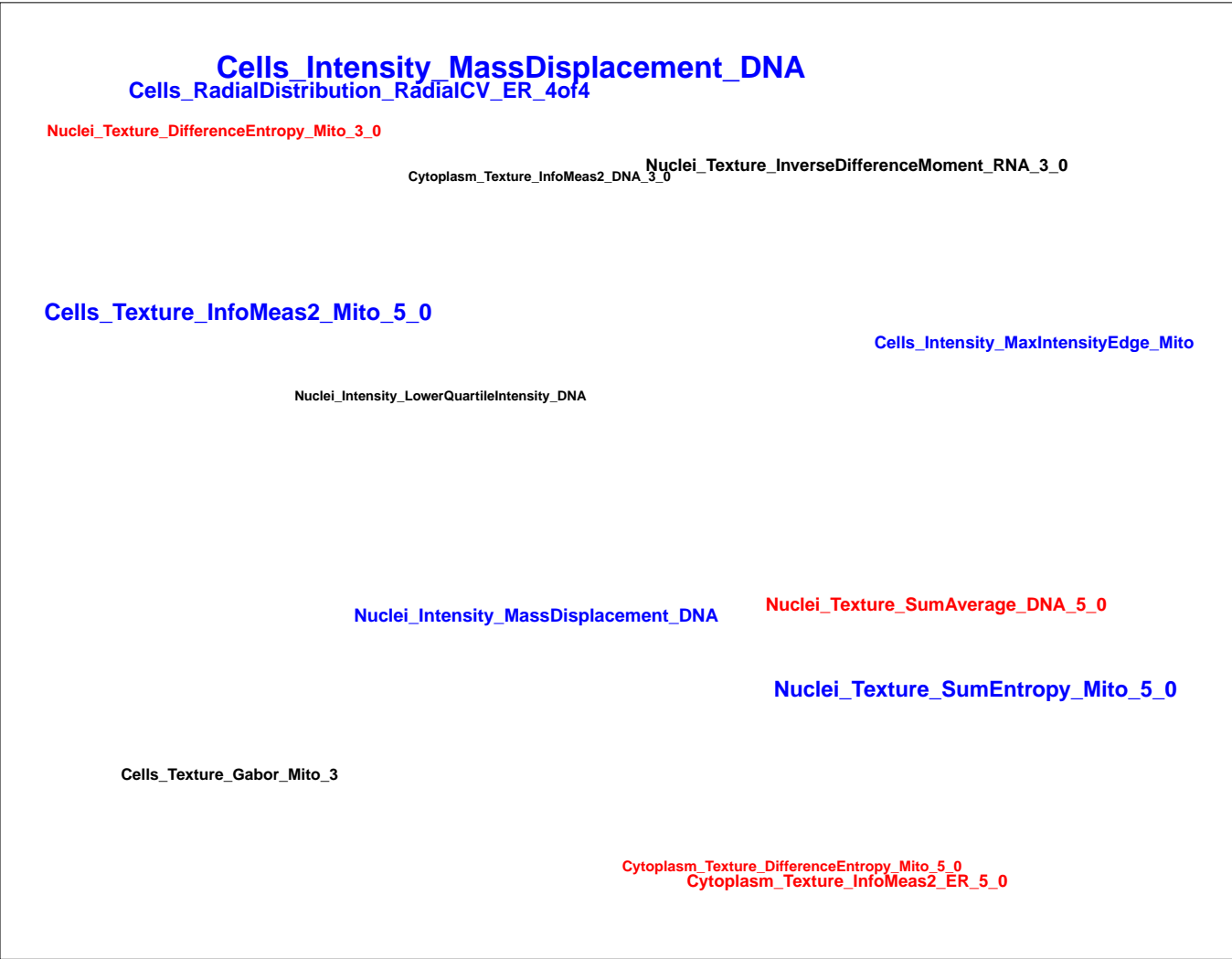
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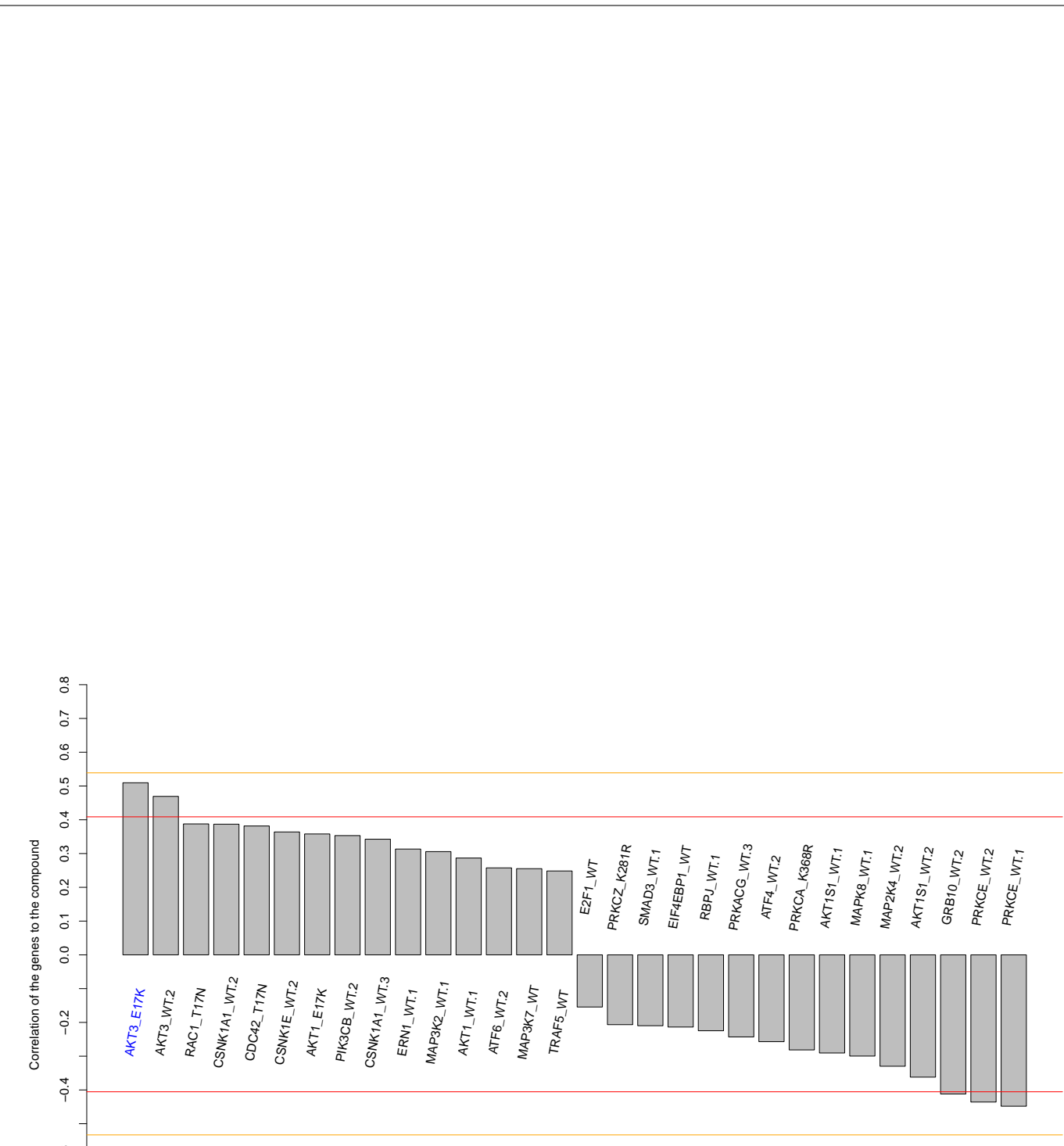
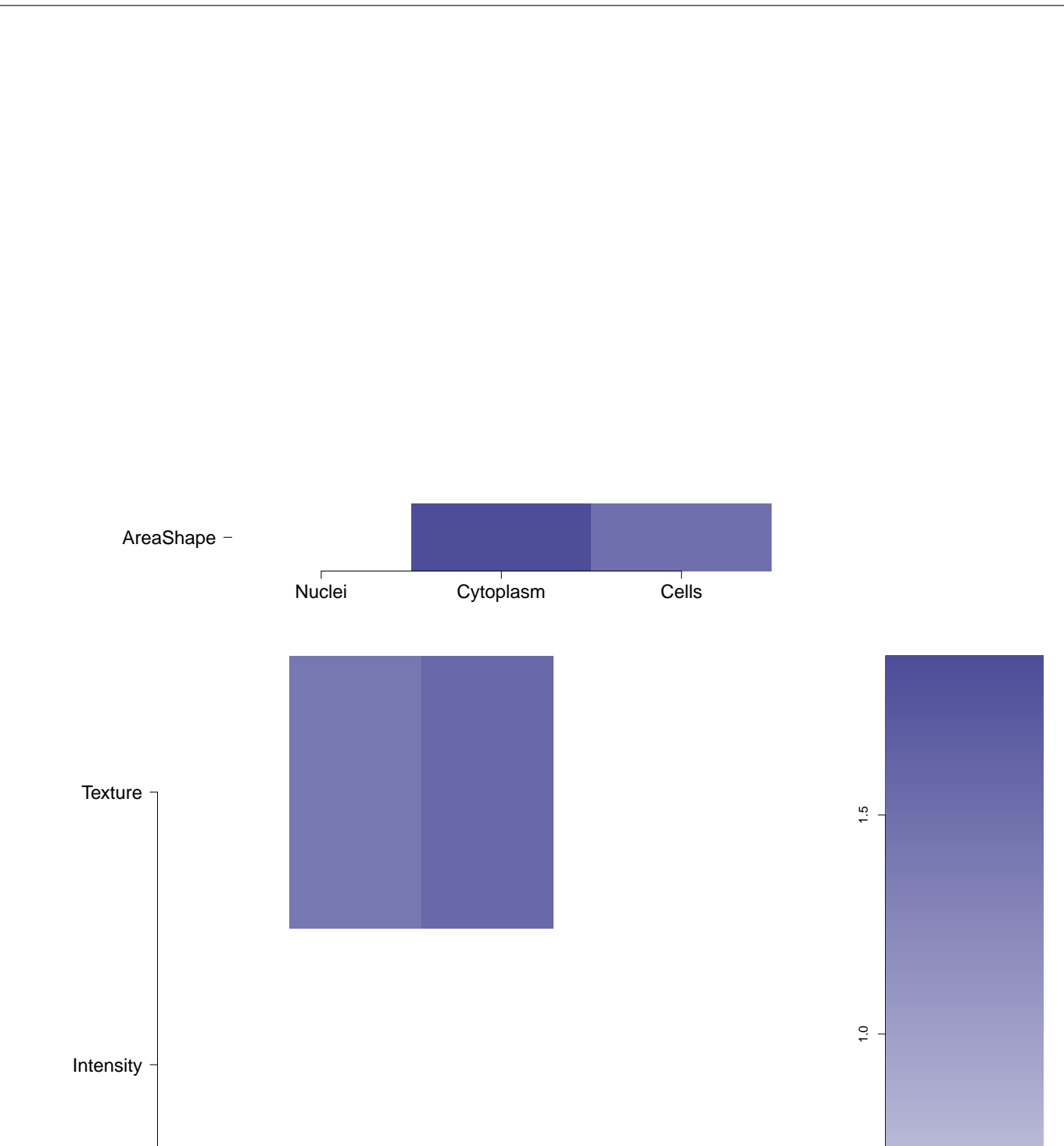

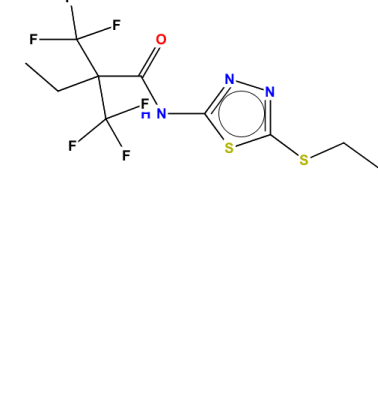
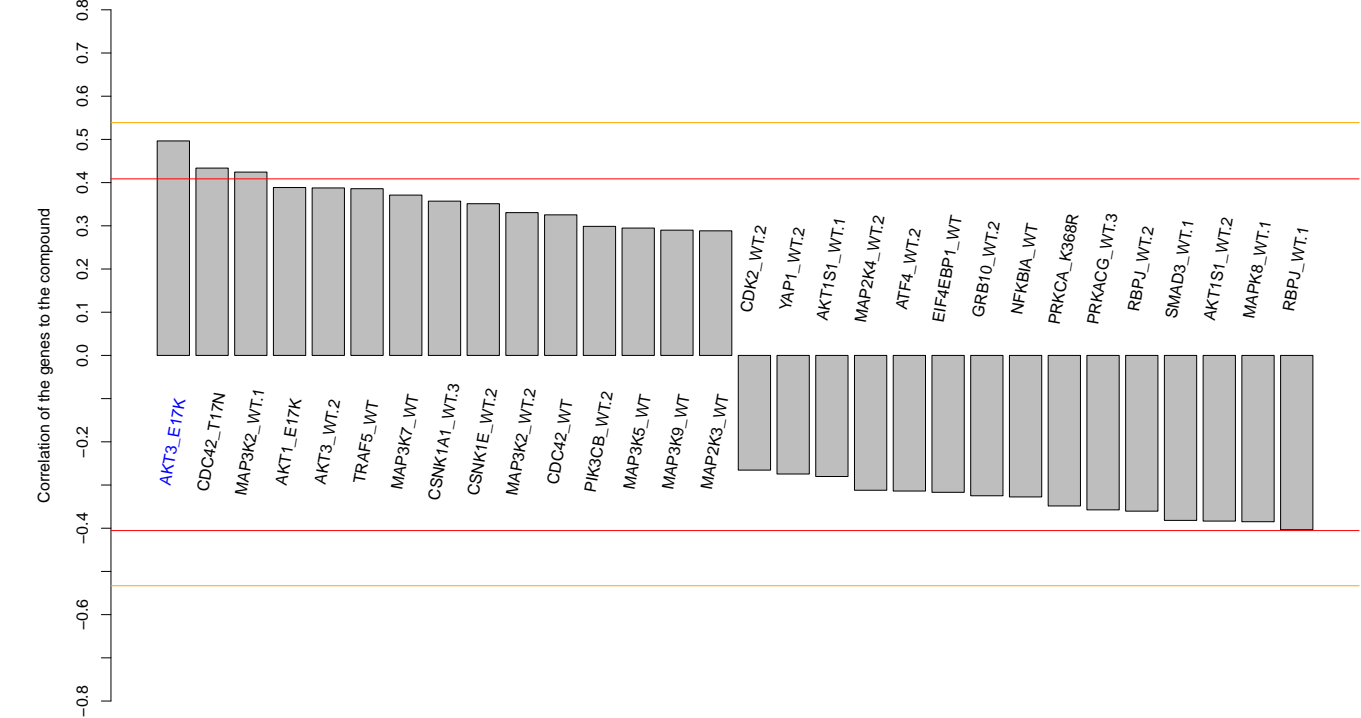
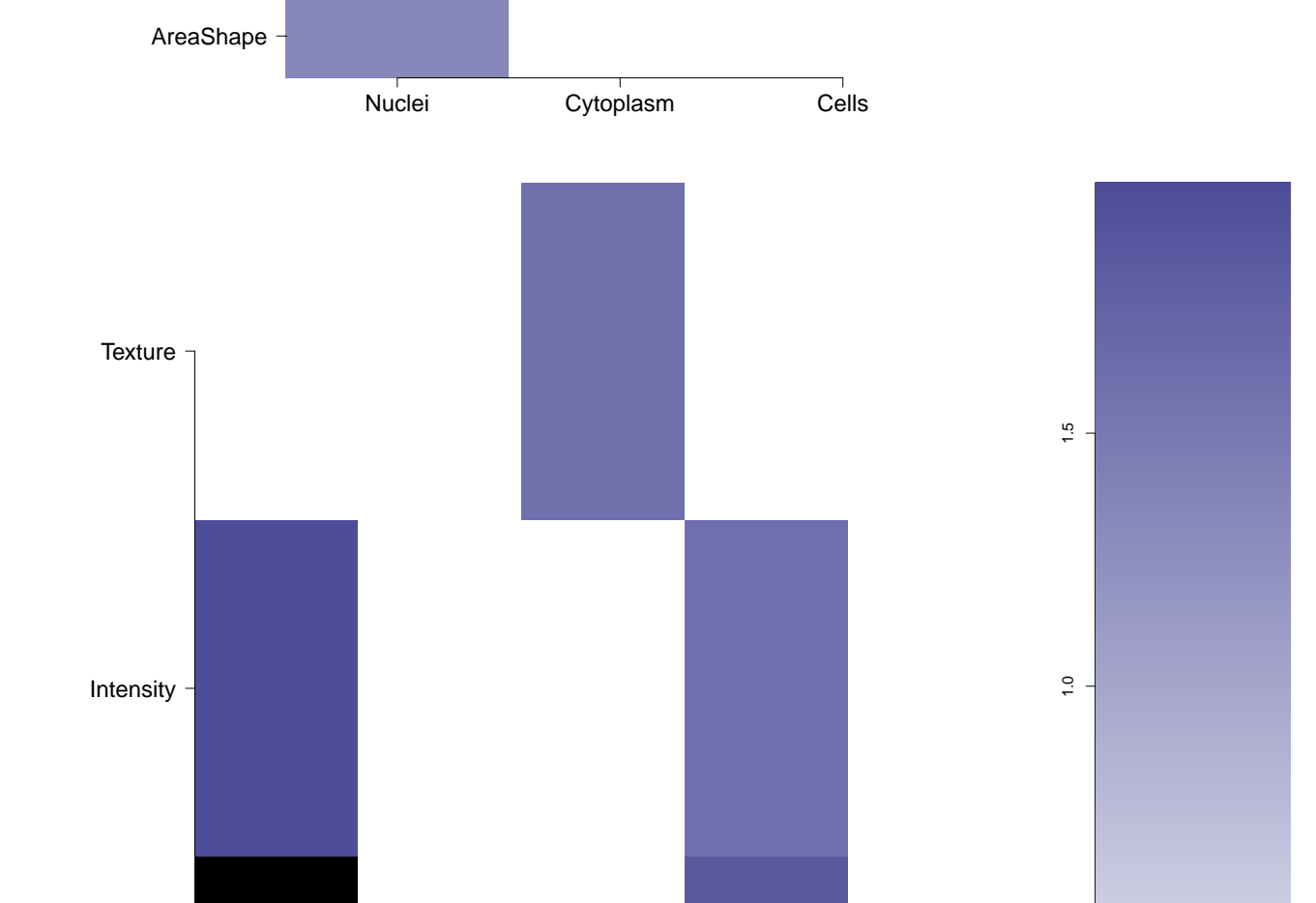
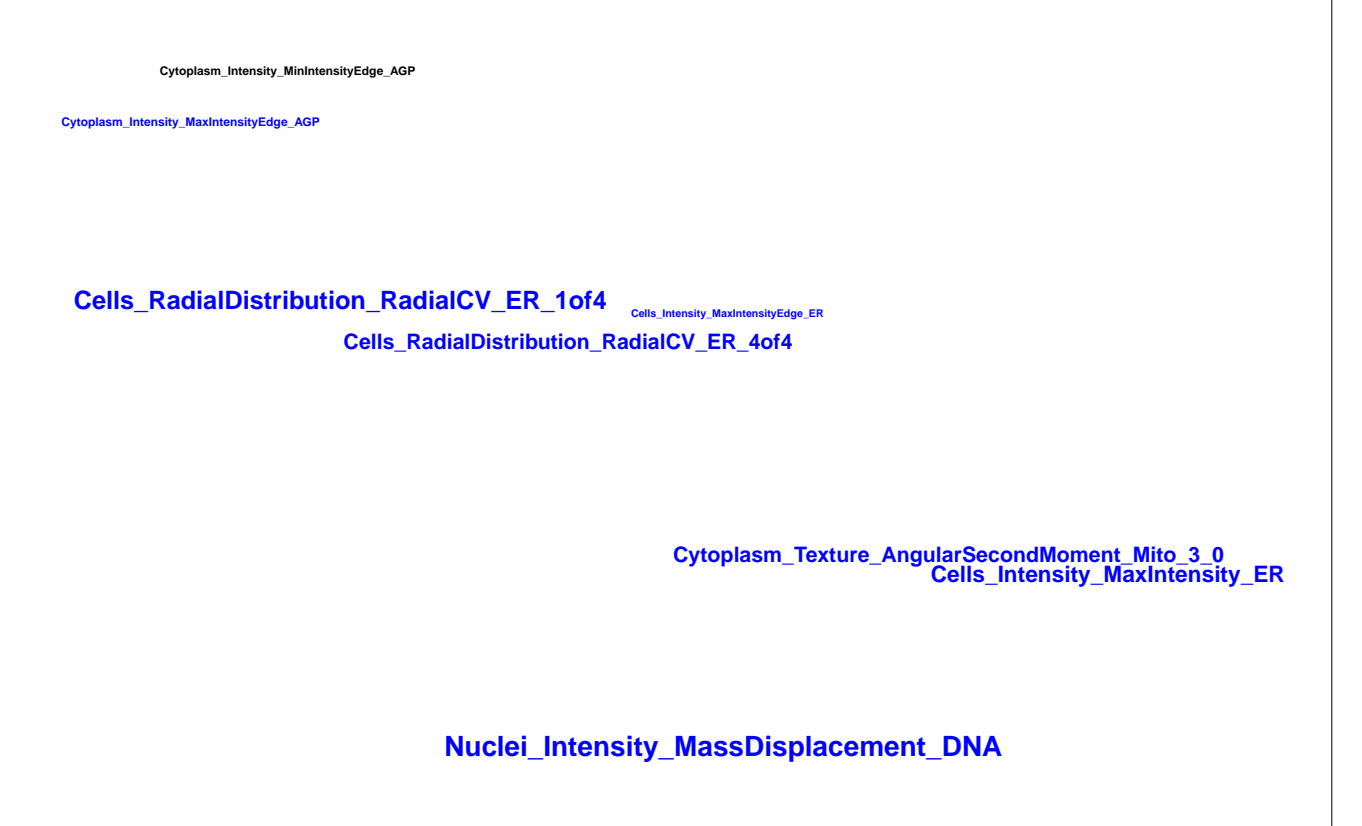
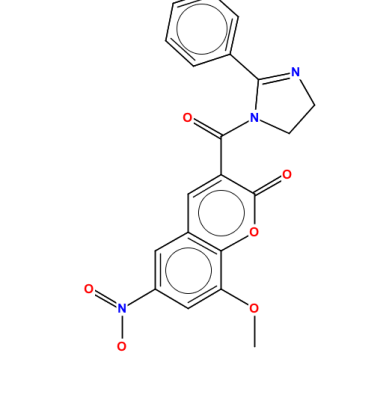
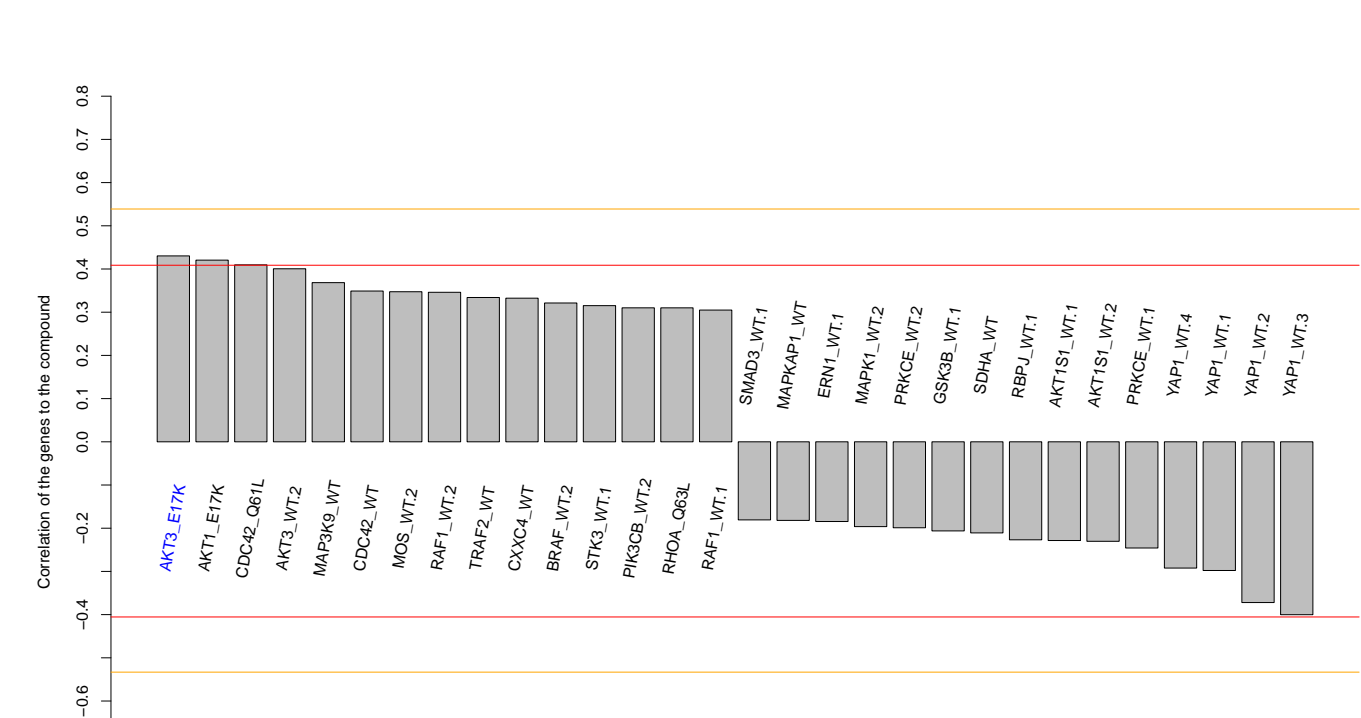
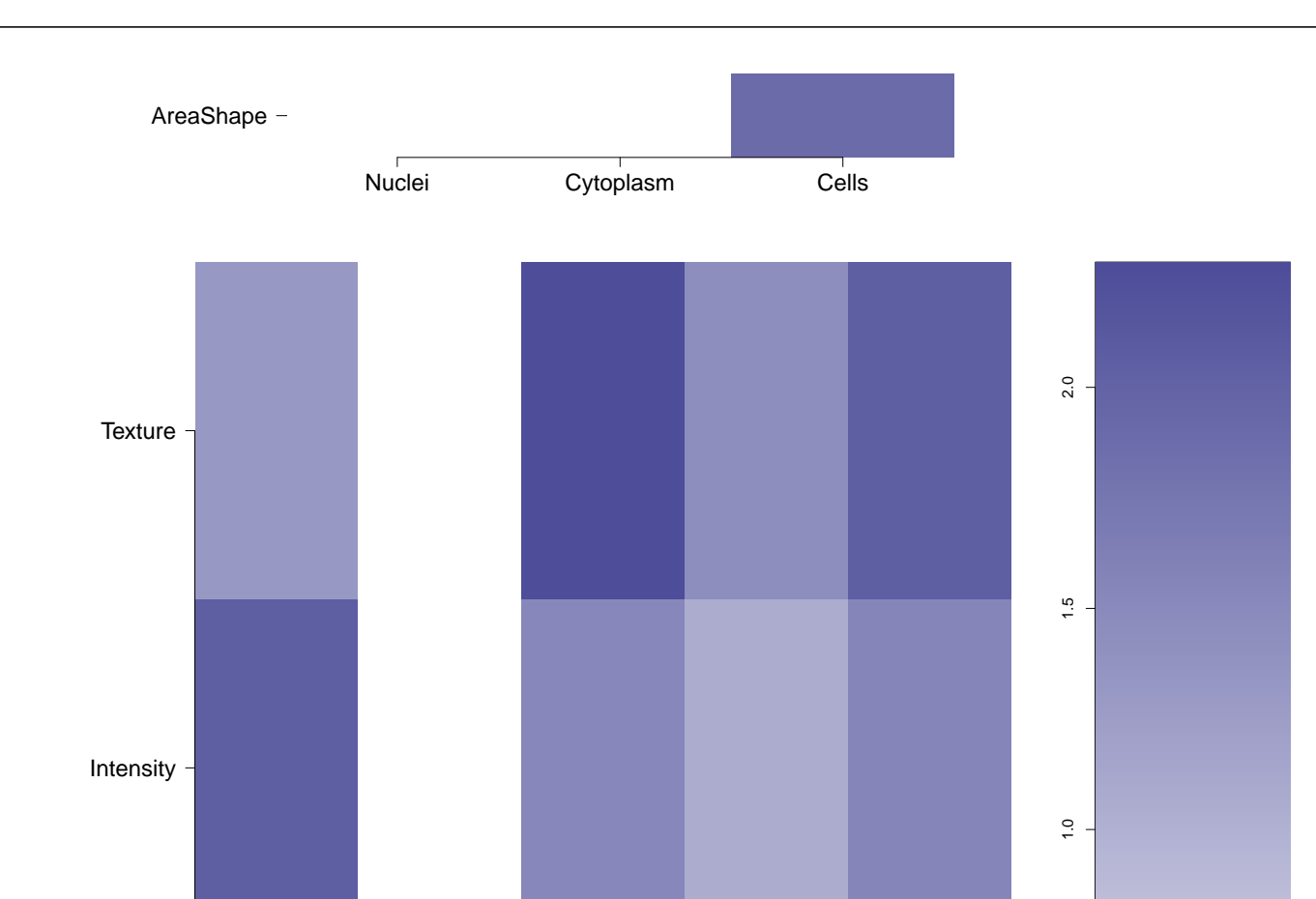
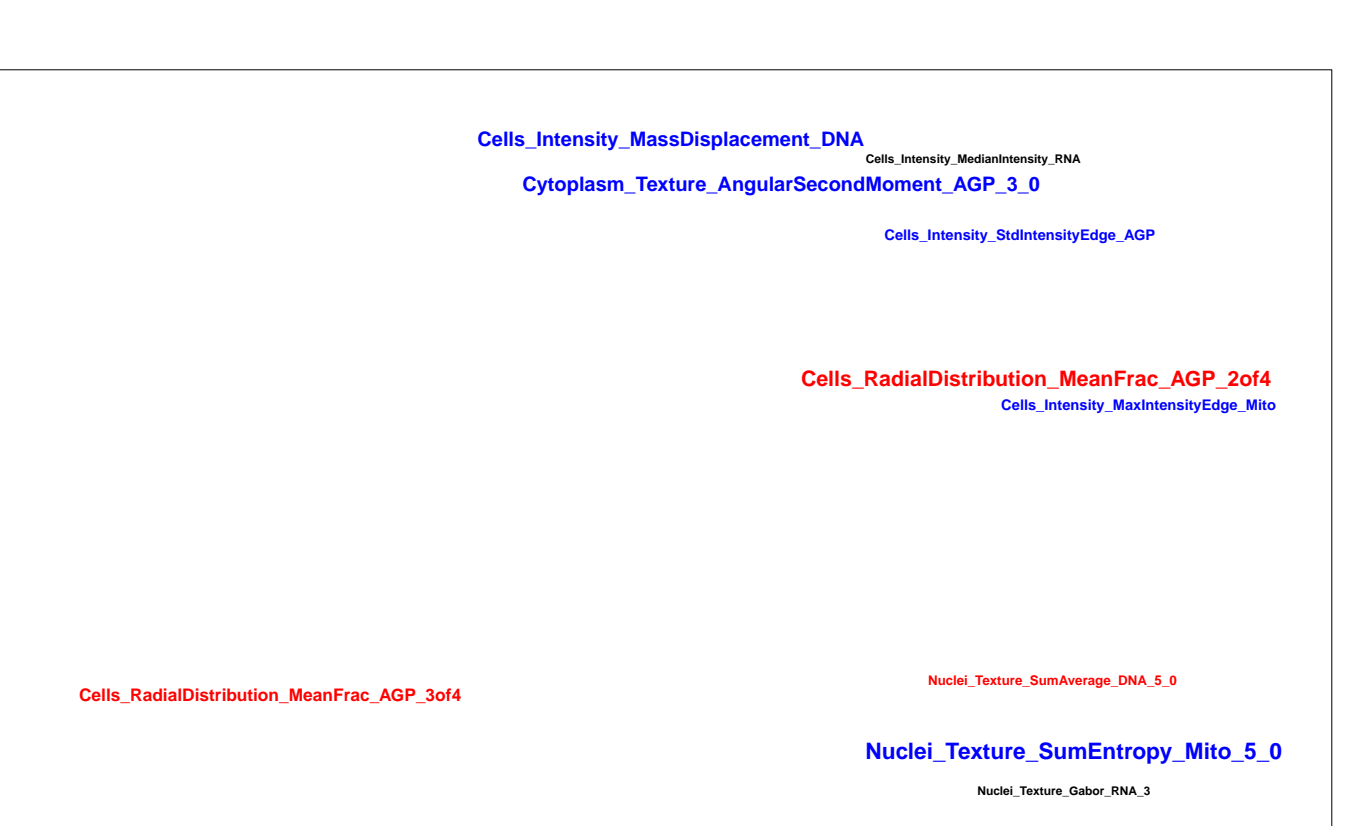
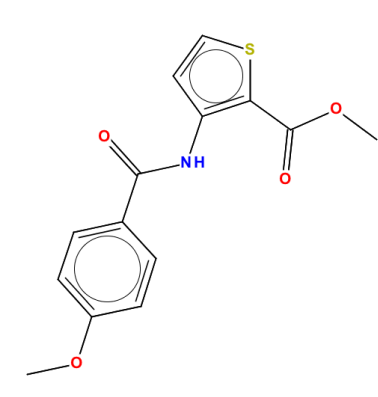

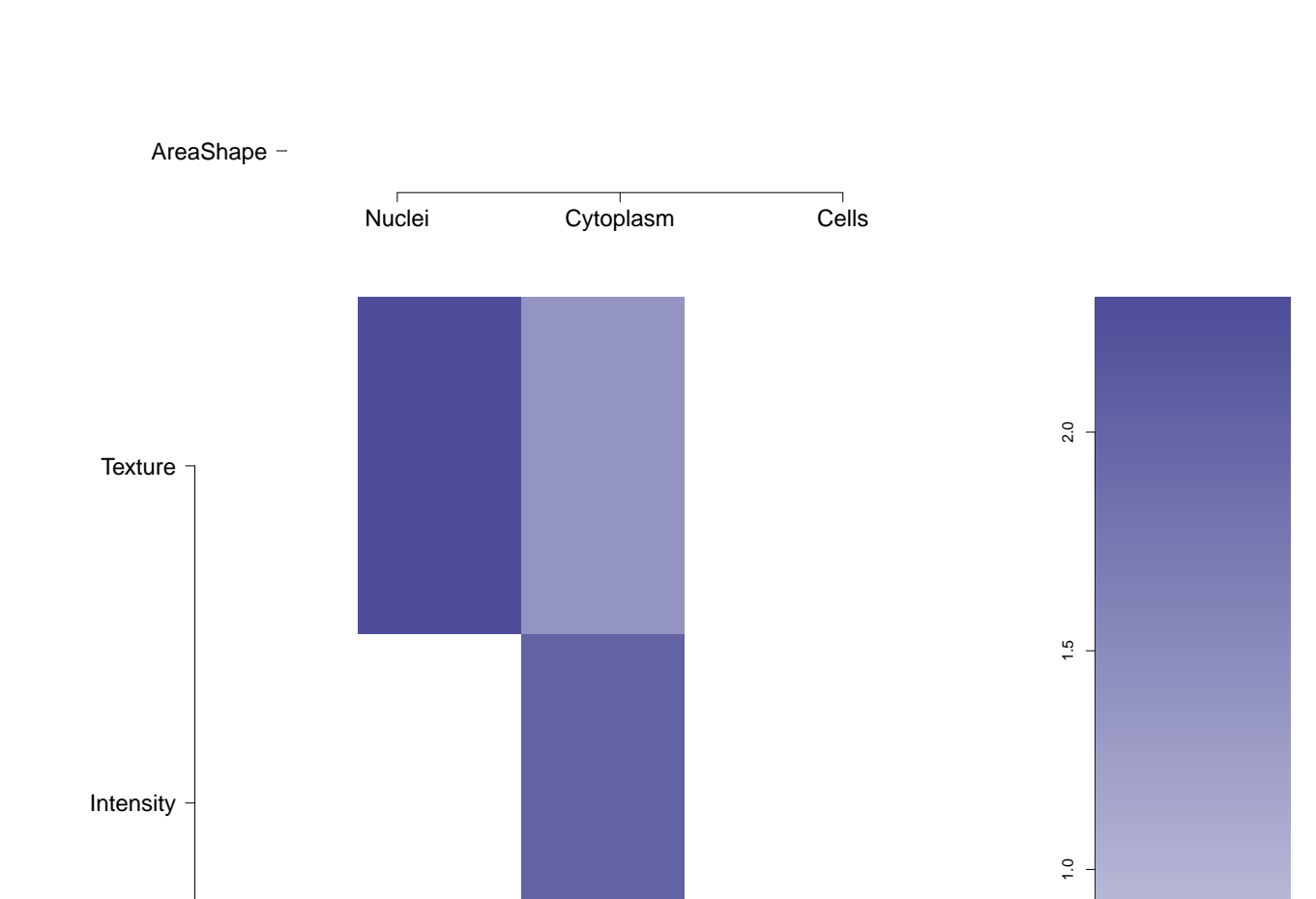
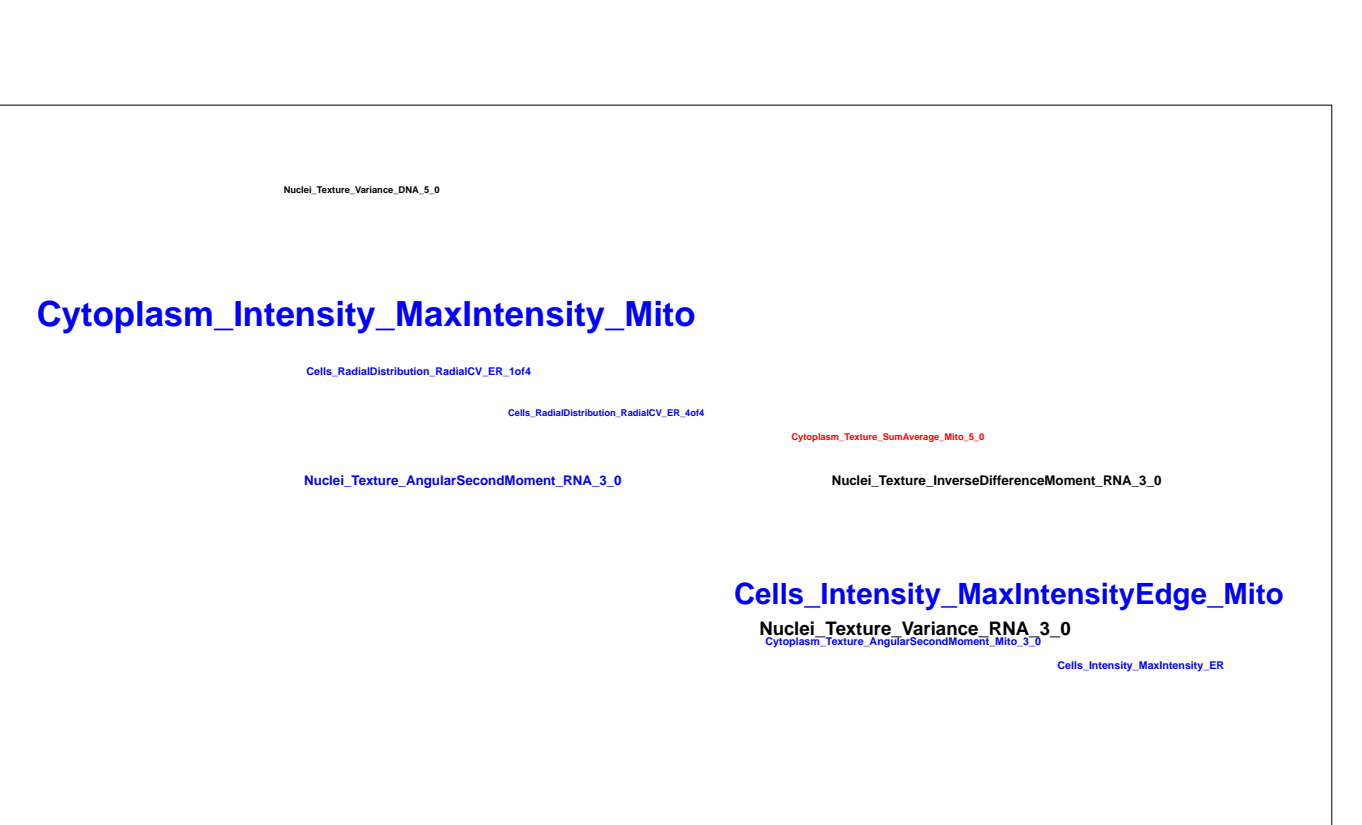
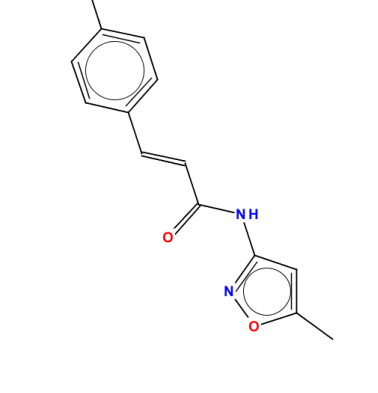
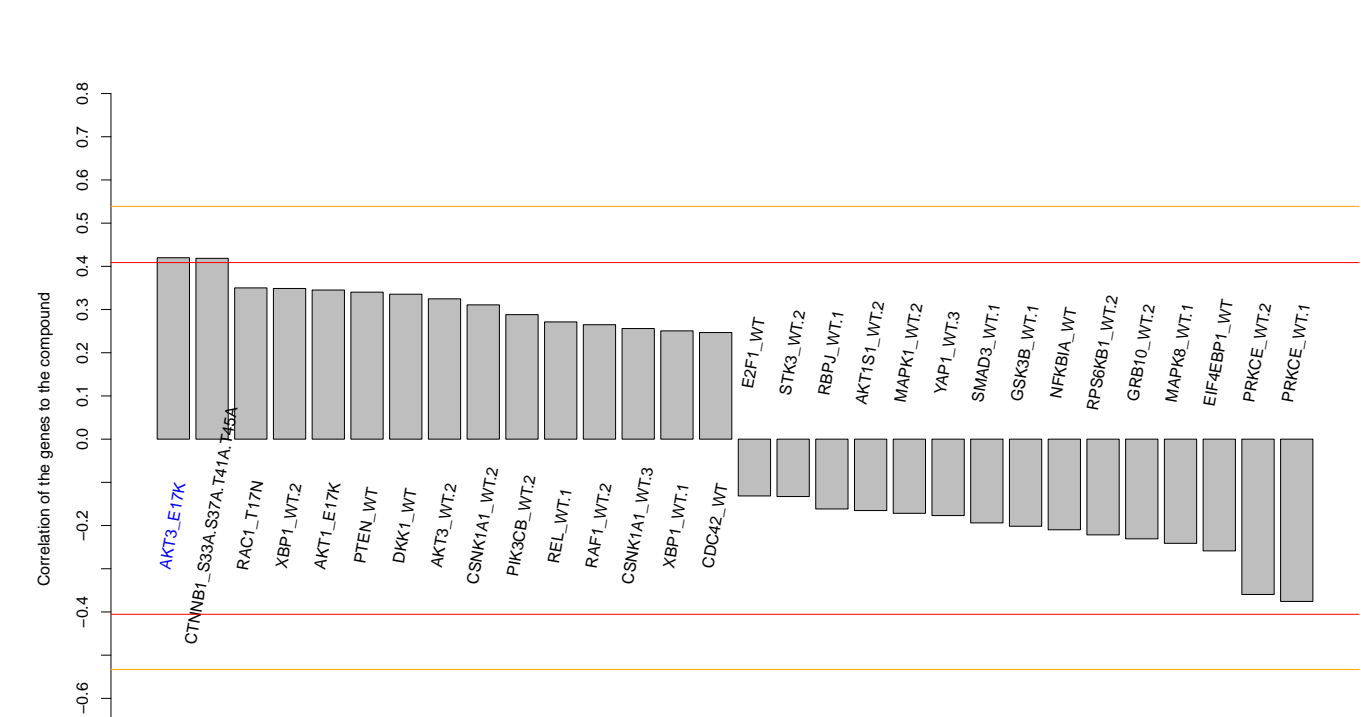
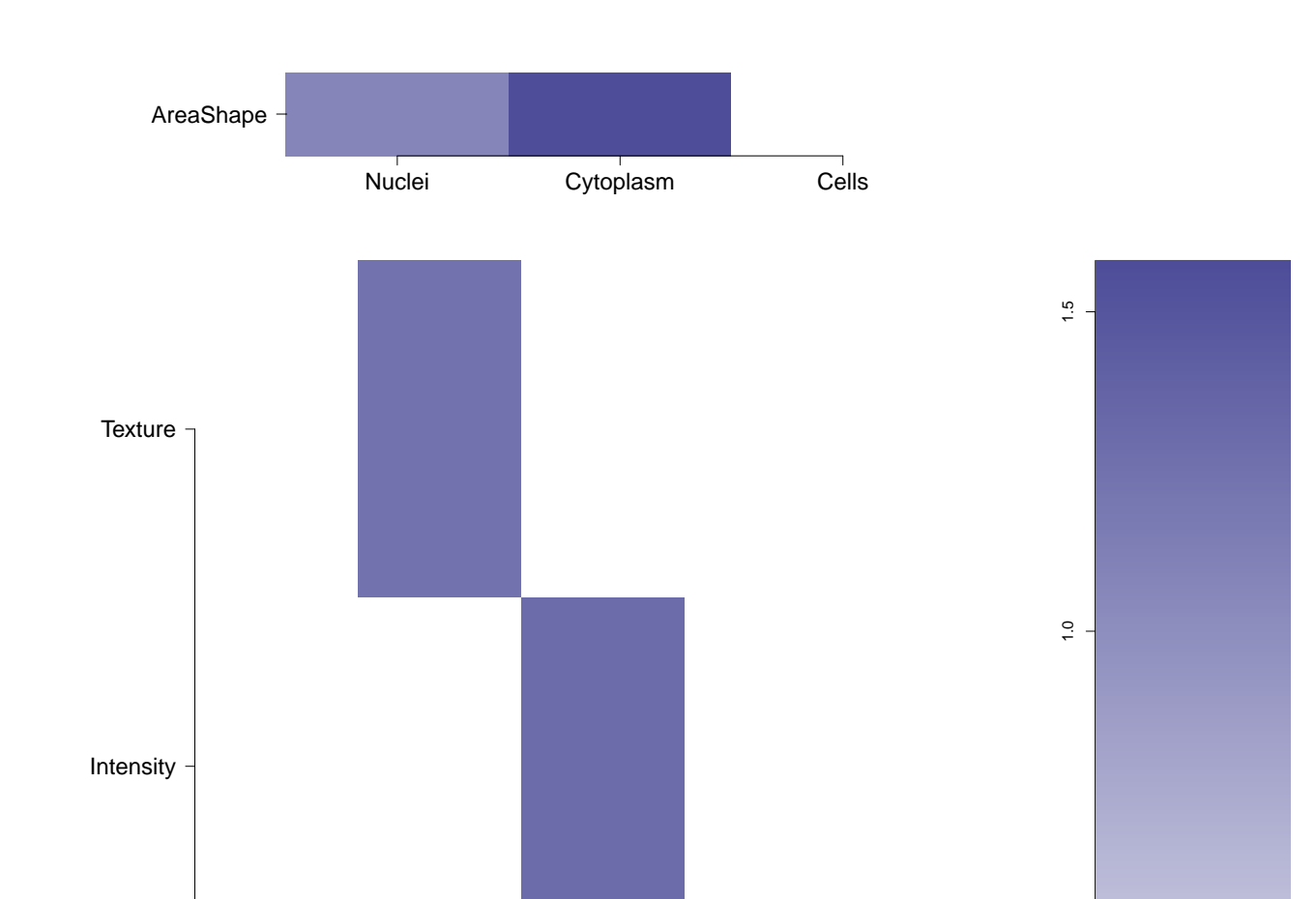



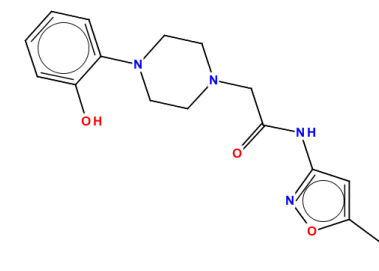
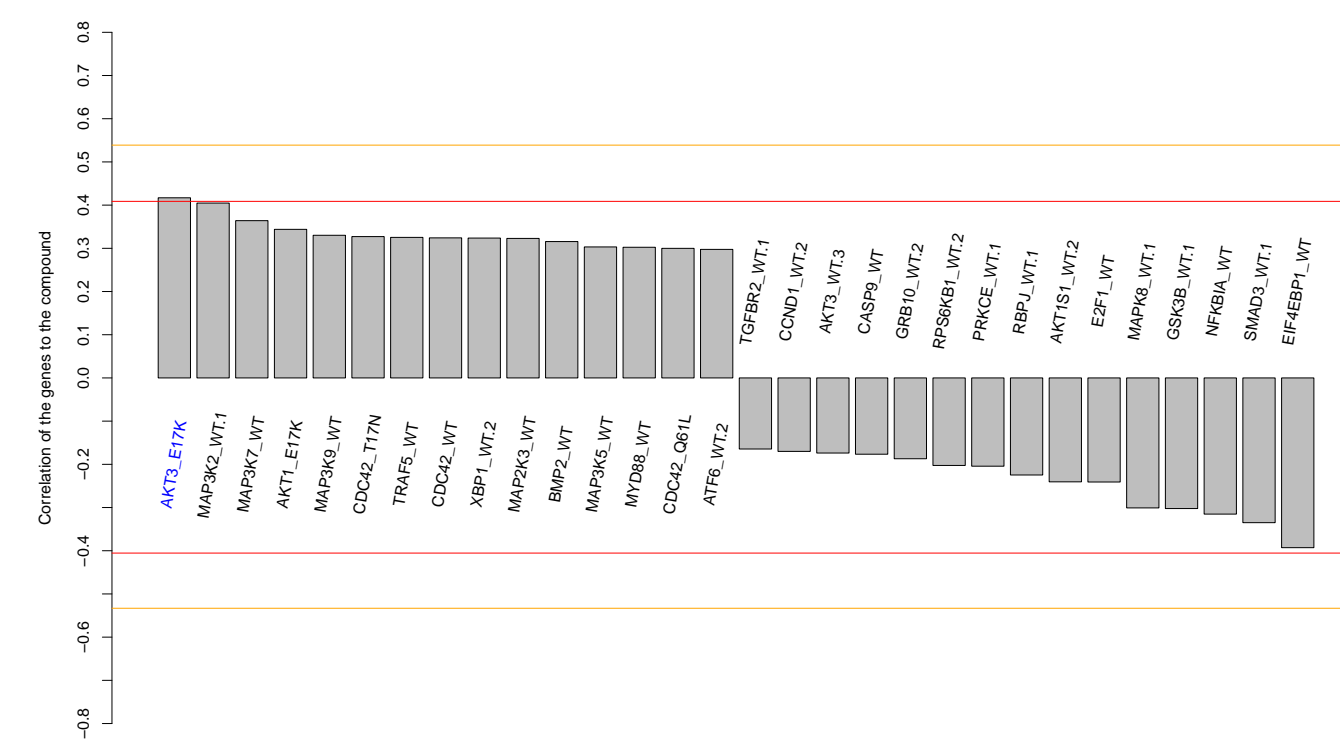

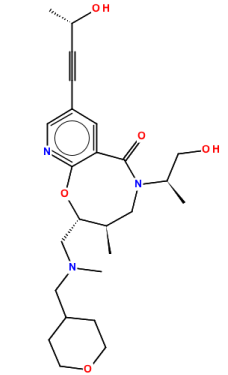

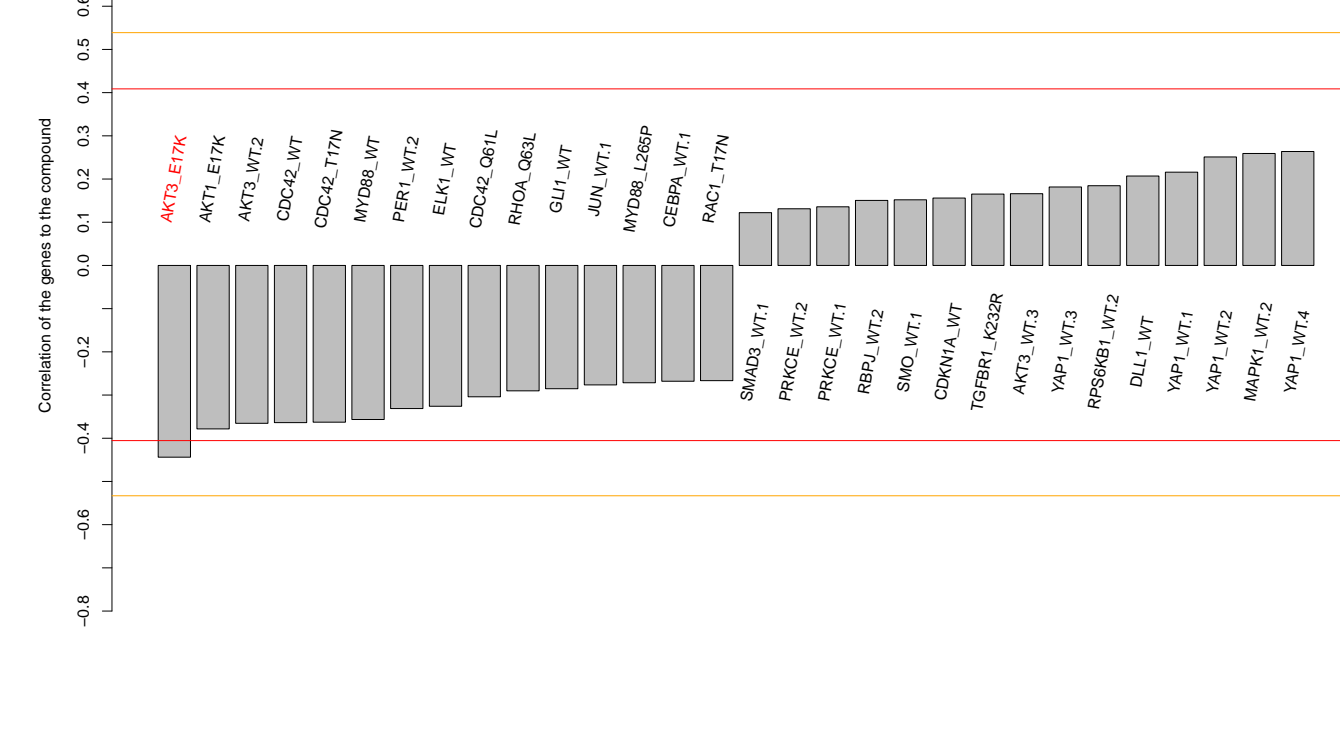
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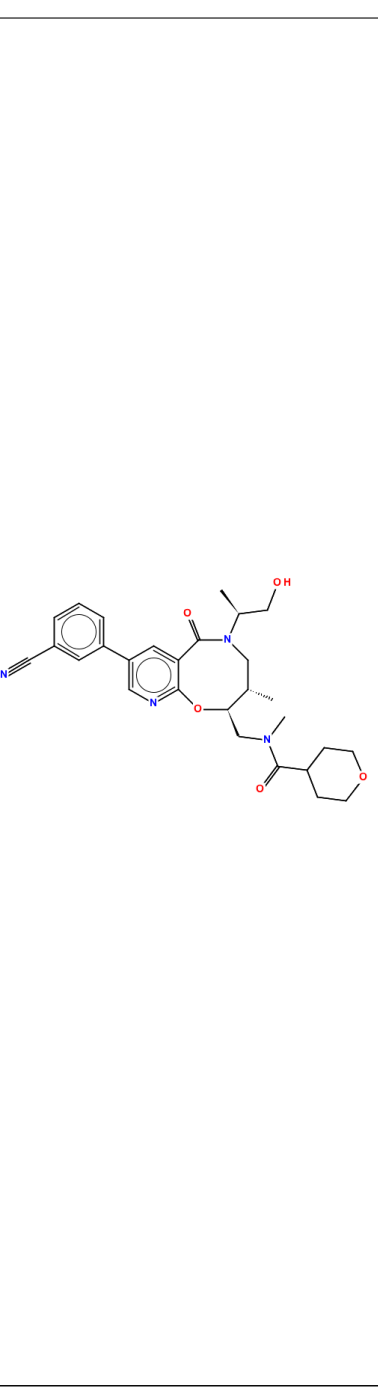
Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.51)	Correlation between compound 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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<div>BRD-K36118155-001-05-5</div> <div>ST50425817</div> <div>MLS000554594</div> <div>AC1NT7O4</div> <div>ZINC13111749</div> <div>BAS 01809698</div> <div>SMR000171974</div> <div>T0504-6972</div> <div>PubChem CID : 5347874</div>		NA (in 1 replicates)	0.59	NA				<div>Total number of assays tested in: 647. Active in the following assays:</div> <ul style="list-style-type: none">• Total Fluorescence Counterscreen for Inhibitors of the Interaction of Thyroid Hormone Receptor and Steroid Receptor Coregulator 2 (AID 1479)• nHTS fluorescence polarization assay for the identification of translation initiation inhibitors (eIF4H) (AID 2012)• qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)
<div>BRD-K11527755-001-05-0</div> <div>MLS000041852</div> <div>AC1LDAZY</div> <div>HMS2472P10</div> <div>ZINC540366</div> <div>STK876139</div> <div>ZINC00540366</div> <div>SMR000044996</div> <div>PubChem CID : 664138</div>		NA (in 1 replicates)	0.57	NA				<div>Total number of assays tested in: 786. Active in the following assays:</div> <ul style="list-style-type: none">• qHTS Assay for Spectroscopic Profiling in 4-MU Spectral Region (AID 589)• qHTS Assay for Spectroscopic Profiling in A350 Spectral Region (AID 590)• Cell signaling CRE-BLA (Fsk stim) (AID 662)• Profiling the NIH Molecular Libraries Small Molecule Repository - Autofluorescence at 330/460 nm (AID 709)• Screening for Modulators of Post-Golgi Transport, Control Strain (AID 738)• CYP2C9 Assay (AID 777)• qHTS Assay for Inhibitors of HSD17B4, hydroxysteroid (17-beta) dehydrogenase 4 (AID 893)• Luminescence Microorganism Primary HTS to Identify Inhibitors of the SUMOylation Pathway Using a Temperature Sensitive Growth Reversal Mutant Mot1-301 (AID 2716)• qHTS Assay for Inhibitors of BAZ2B (AID 504333)• Counterscreen for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis: Absorbance-based biochemical high throughput Glycophosphate Dehydrogenase-Phosphophate Isomerase (GDH-TPI) full deck assay to identify assay artifacts (AID 588335)• Fluorescence-based biochemical primary high throughput screening assay to identify inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 588726)• Inhibition of the MLL-AF4-AF9 Interaction in Pediatric Leukemia Measured in Biochemical System Using Plate Reader - 2160-01.Inhibitor.SinglePoint.HTS.Activity (AID 651704)• qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820)• 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)• HTS for Bacterial rRNA inhibitors Measured in Microorganism-Based System Using Plate Reader - 7056-01.Inhibitor.SinglePoint.HTS.Activity (AID 720706)
<div>BRD-K71919342-001-06-4</div> <div>AC1N4ZAA</div> <div>MLS001003683</div> <div>CTK0B5719</div> <div>HMS2685K03</div> <div>ZINC5257101</div> <div>PL045918</div> <div>SMR000347522</div> <div>14265-35-1</div> <div>PubChem CID : 4136929</div>		NA (in 1 replicates)	0.51	NA				<div>Total number of assays tested in: 652. Active in the following assays:</div> <ul style="list-style-type: none">• Primary cell-based high throughput screening assay to measure STAT1 activation (AID 932)• Counter Screen for Glucose-6-Phosphate Dehydrogenase-based Primary Assay (AID 1020)• qHTS for Inhibitors of Tau Fibril Formation, Thioflavin T Binding (AID 1460)• Primary biochemical high throughput screening assay to identify inhibitors of VIM-2 metallo-beta-lactamase (AID 1527)• MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814)• QFRET-based counterscreen for PFM18AAP inhibitors: biochemical high throughput screening assay to identify inhibitors of the Cathepsin L proteinase (CTSL1). (AID 1906)• 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)• Homogeneous Time-Resolved Fluorescence Resonance Energy Transfer (HTRF) Assay (AID 2073)• Primary biochemical high throughput screening assay to identify inhibitors of BCL2-related protein, long isoform (BCLXL). (AID 2129)• Fluorescence polarization-based biochemical high throughput confirmation assay for inhibitors of the oxidoreductase glutathione S-transferase omega 1(GSTO1). (AID 2176)• Fluorescence Cell-Free Homogeneous Primary HTS to Identify Inhibitors of RcaA Intein Splicing Activity (AID 2221)• Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)• A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315)• qHTS Assay for Inhibitors of Fructose-1,6-bisphosphate Aldolase from Giardia Lamblia (AID 2451)• qHTS Assay for Inhibitors of Fructose-1,6-bisphosphate Aldolase from Giardia Lamblia: Coupling assay counterscreen (AID 2472)• qHTS Assay for Inhibitors of Bloom's syndrome helicase (BLM) (AID 2528)• nHTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 6 (SENPe) (AID 2599)• 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 RcaA-Intein Splicing Activity (AID 435010)• Fluorescence Cell-Free Homogeneous Secondary Screen to Identify Non-Covalent Inhibitors of RcaA-Intein Splicing Activity (AID 449750)• FRET-based cell-based primary high throughput screening assay to identify antagonists of the orexin 1 receptor (OX1R; HCRTR1) (AID 485270)• qHTS Assay for Inhibitors of DNA Polymerase Beta (AID 485314)• qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxisome (AID 485364)• Single concentration confirmation of inhibitors of Sentrin-specific proteases (SENPs) using a Caspase-3 Selectivity assay (AID 488918)• nHTS Fluorescent assay for identification of inhibitors of Apaf-1 (AID 489030)• qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)• nHTS identification of small molecule modulators of myocardial damage (AID 588492)• Primary and Confirmatory Screening for Flavivirus Genomic Capping Enzyme Inhibition (AID 588689)• nHTS identification of modulators of interaction between CendR and NRP-1 using Fluorescence Polarization assay (AID 602438)• A quantitative high throughput screen for small molecules that induce DNA re-replication in MCF 10a normal breast cells. (AID 624296)• qHTS of TDP-43 Inhibitors (AID 652104)• VEID(2) R110 Enzymatic Primary HTS to identify Inhibitors of Caspase 6 Measured in Biochemical System Using Plate Reader - 7052-01.Inhibitor.SinglePoint.HTS.Activity.Set2 (AID 686966)• VEID(2) R110 Enzymatic Primary HTS to identify Inhibitors of Caspase 6 Measured in Biochemical System Using Plate Reader - 7052-01.Inhibitor.Dose.CherryPick Activity (AID 720632)• Development of Small Molecule Probes of the Histone Methyltransferase, NSD2 Measured in Biochemical System Using Plate Reader - 7053-01.Inhibitor.SinglePoint.HTS.Activity.Set2 (AID 743445)

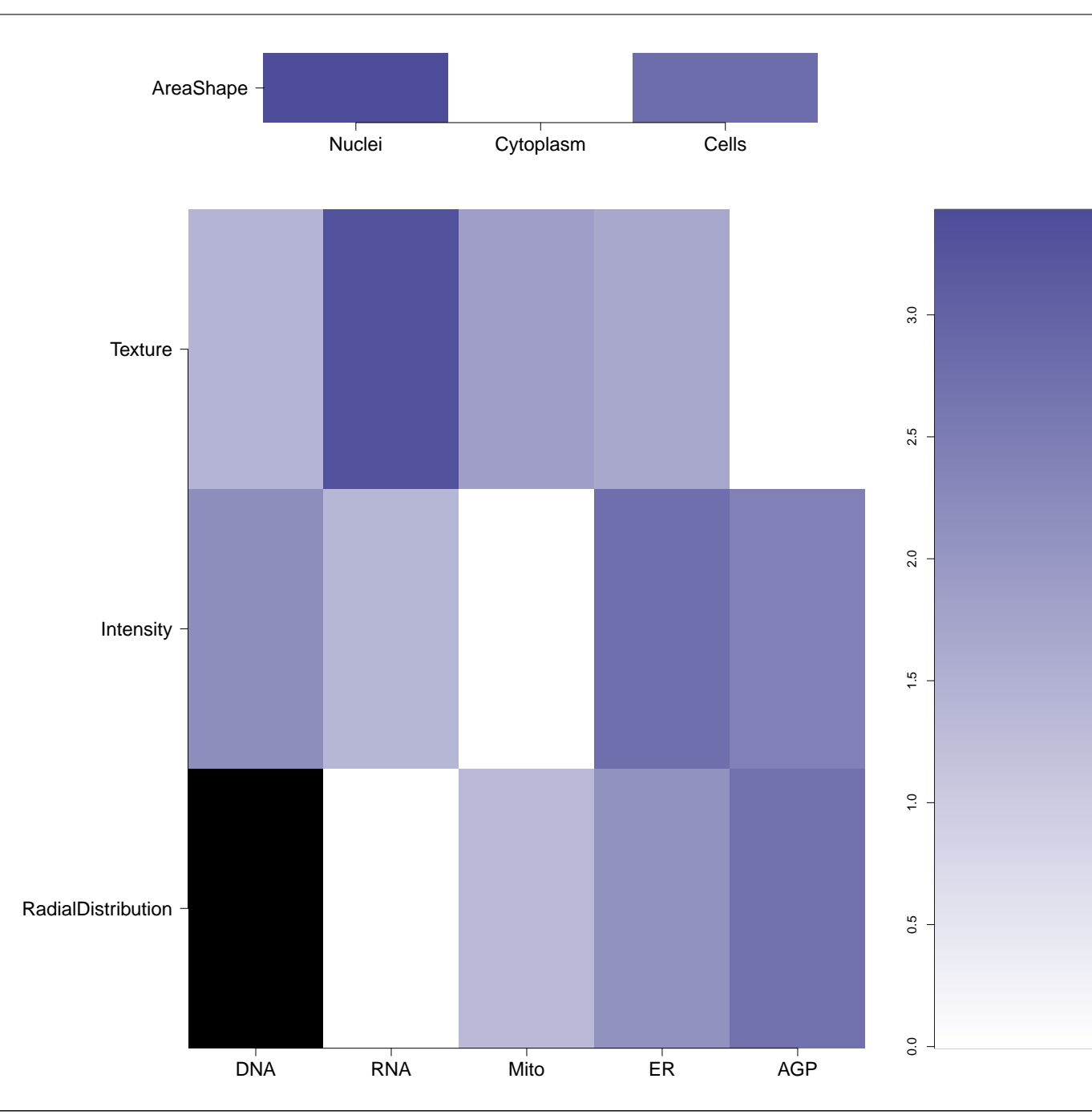
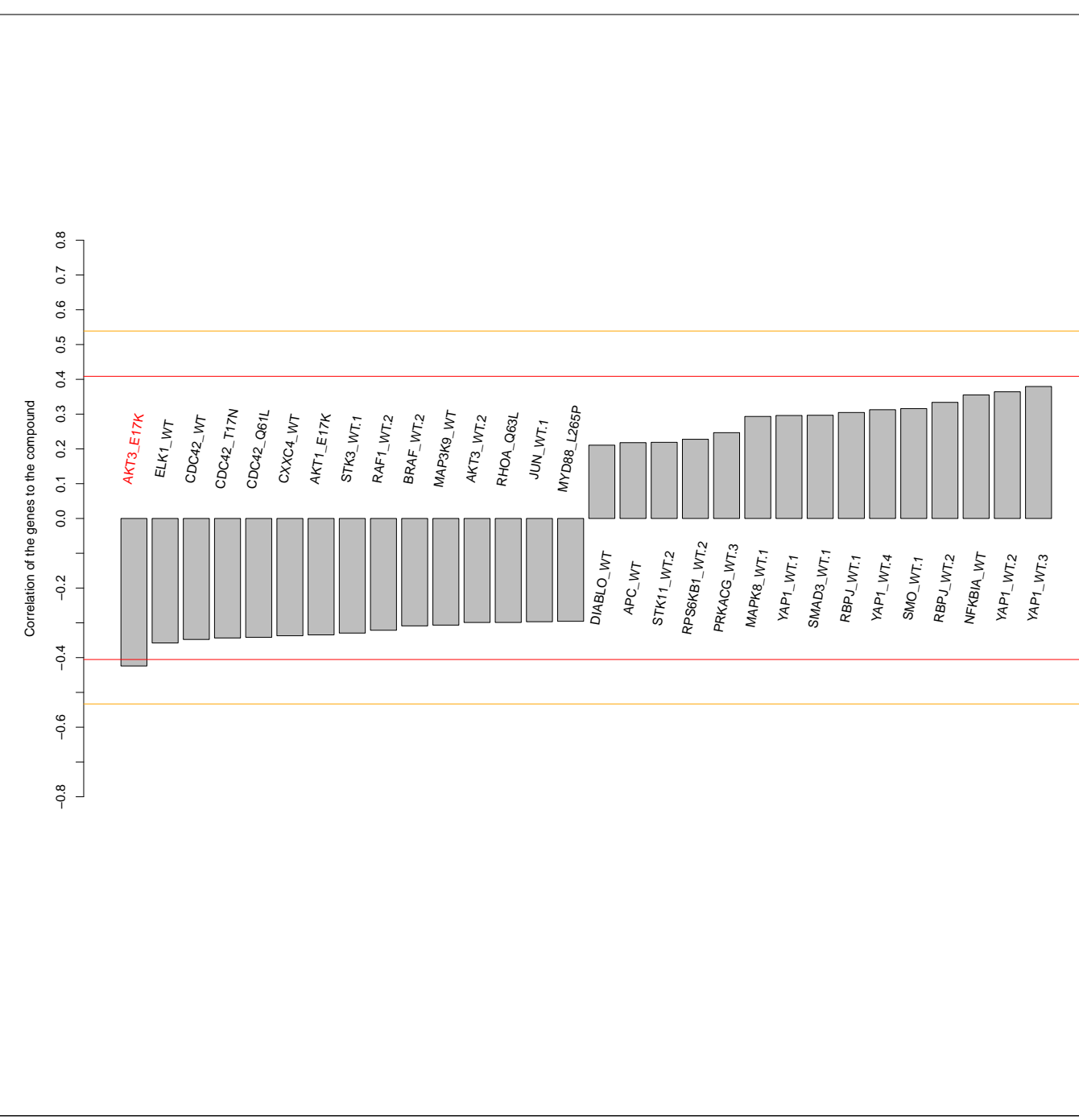
<p>BRD-A86600680-001-05-7</p> <p>MLS000771752</p> <p>SMR000376414</p> <p>T5238383</p> <p>AC1N9VJE</p> <p>BDBM83381</p> <p>HMS2674P08</p> <p>PubChem CID : 4391932</p>		<p>0.66 (in 4 replicates)</p>	<p>0.51</p>	<p>NA</p>				<p>Total number of assays tested in: 639. Active in the following assays:</p> <ul style="list-style-type: none"> Primary cell-based screen for identification of compounds that activate transient receptor potential cation channel C4 (TRPC4). (AID 2237) Confirmatory screen for identification of compounds that activate transient receptor potential cation channel C4 (TRPC4) (AID 2426) Second confirmatory screen for identification of compounds that activate transient receptor potential cation channel C4 (TRPC4) (AID 2461) VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) Confirmation dose response assay for compounds that activate transient receptor potential cation channel C4 (TRPC4) (AID 434937) HTS Assay for Allosteric Antagonists of the Human D2 Dopamine Receptor: Primary Screen for Antagonists (AID 485344) Luminescence-based cell-based primary high throughput screening assay to identify agonists of heterodimerization of the mu 1 (OPRM1) and delta 1 (OPRD1) opioid receptors (AID 504326) Luminescence-based cell-based high throughput confirmation assay for agonists of heterodimerization of the mu 1 (OPRM1) and delta 1 (OPRD1) opioid receptors (AID 504904) Luminescence-based cell-based high throughput dose response assay for agonists of heterodimerization of the mu 1 (OPRM1) and delta 1 (OPRD1) opioid receptors (AID 588407) Counterscreen for agonists of heterodimerization of the mu 1 (OPRM1) and delta 1 (OPRD1) opioid receptors: Luminescence-based cell-based high throughput dose response assay to identify agonists of OPRM1 homodimerization (AID 588435) qHTS of D3 Dopamine Receptor Antagonist: qHTS (AID 652054)
<p>BRD-K71554049-001-05-7</p> <p>SMR000040587</p> <p>MLS000038692</p> <p>MLS002581479</p> <p>AC1LD134</p> <p>HMS2185N19</p> <p>STK373260</p> <p>ZINC17028721</p> <p>ST50908384</p> <p>PubChem CID : 659529</p>		<p>0.56 (in 4 replicates)</p>	<p>0.50</p>	<p>0.680</p>				<p>Total number of assays tested in: 700. Active in the following assays:</p> <ul style="list-style-type: none"> Human A549 Lung Tumor Cell Growth Inhibition Assay (AID 371) Human H69AR Lung Tumor Cell Growth Inhibition Assay - 86K Screen (AID 598) Modulators of Post-Golgi Transport - 1536-well pilot screen (AID 637) CYP2C9 Assay (AID 777) Primary cell-based high-throughput screening assay to identify antagonists of Galanin Receptor 2 (GALR2) (AID 828) qHTS Assay for Identification of Small Molecule Antagonists for Hypoxia Response Element Signaling Pathway (AID 915) VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) Primary cell-based screen for identification of compounds that inhibit the Choline Transporter (CHT) (AID 488975) qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) qHTS for Inhibitors of binding or entry into cells for Lassa Virus (AID 540256) uHTS identification of antagonists of the CRF-binding protein and CRF-R2 receptor complex (AID 588475) Primary cell-based high-throughput screening for identification of compounds that inhibit/block calcium-activated chloride channels (TMEM16A) (AID 588511) uHTS identification of small molecule inhibitors of the mitochondrial permeability transition pore via an absorbance assay (AID 602449) Single concentration confirmation of uHTS inhibitor hits of the mitochondrial permeability transition pore via a fluorescent based assay (AID 624504) qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)
<p>BRD-K62243466-001-05-2</p> <p>ST50169543</p> <p>AC1LO6N4</p> <p>MLS000679960</p> <p>HMS2772M06</p> <p>ZINC19618851</p> <p>SMR000296836</p> <p>PubChem CID : 1258313</p>		<p>NA (in 1 replicates)</p>	<p>0.43</p>	<p>NA</p>				<p>Total number of assays tested in: 630. Active in the following assays:</p> <ul style="list-style-type: none"> Screen for Chemicals that Inhibit the RAM Network (AID 868) Fluorescence-based biochemical high throughput primary assay to identify inhibitors of Trypanosoma brucei RNA editing ligase 1 (TRELI1) (AID 1117264)
<p>BRD-K76563814-001-05-6</p> <p>MLS000063023</p> <p>SMR000071802</p> <p>ST50927941</p> <p>AC1LHUQ3</p> <p>BDBM42815</p> <p>HMS2377G21</p> <p>ZINC375431</p> <p>STK438188</p> <p>ZINC00375431</p> <p>MS-0797</p> <p>T6249234</p> <p>PubChem CID : 844198</p>		<p>0.59 (in 4 replicates)</p>	<p>0.43</p>	<p>NA</p>				<p>Total number of assays tested in: 794. Active in the following assays:</p> <ul style="list-style-type: none"> Screening for Modulators of Post-Golgi Transport, Control Strain (AID 738) Primary biochemical high-throughput screening assay for inhibitors of the c-Jun N-Terminal Kinase 3 (JNK3) (AID 746) Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of tRNA 2'-phosphotransferase (TPT1). (AID 1962) FRET-based cell-based primary high throughput screening assay to identify antagonists of the orexin 1 receptor (OX1R; HCRT1R) (AID 485270) Homogeneous Time Resolved Fluorescence (HTRF)-based cell-based high throughput confirmation assay for antagonists of the orexin 1 receptor (OX1R; HCRT1R) (AID 492964) Screen for inhibitors of the SWI/SNF chromatin remodeling complex, (eSAF) 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) Screen for inhibitors of the SWI/SNF chromatin remodeling complex, (eSAF) in mouse embryonic stem cells with Luciferase reporter assay Measured in Cell-Based System Using Plate Reader - 2141-01.Inhibitor.Dose.CherryPick.Activity (AID 651717) Luminescence-based cell-based primary high throughput screening assay to identify activators of the function of SWI/SNF related, matrix associated, actin associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2, BRM) (AID 652017)
<p>BRD-K87186428-001-05-1</p> <p>ST50928709</p> <p>SMR000142857</p> <p>AC1LI6FB</p> <p>MLS000535422</p> <p>HMS2324O16</p> <p>ZINC476540</p> <p>STK438435</p> <p>ZINC00476540</p> <p>PubChem CID : 898593</p>		<p>0.68 (in 4 replicates)</p>	<p>0.42</p>	<p>NA</p>				<p>Total number of assays tested in: 687. Active in the following assays:</p> <ul style="list-style-type: none"> Primary cell-based high throughput screening assay to measure STAT1 activation (AID 932) MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) Cytochrome panel assay with activity outcomes (AID 1851) Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) qHTS Assay for Rab9 Promoter Activators (AID 485297) qHTS Assay for NPC1 Promoter Activators (AID 485313) Luminescence-based cell-based primary high throughput screening assay to identify biased ligands of the melanocortin 4 receptor (MC4R): agonists of MC4R (AID 540308) Wnt/Beta-catenin HTS Measured in Cell-Based System Using Plate Reader - 2161-01.Activator.SinglePoint.HTS.Activity (AID 743398)

BRD-K50757825-001-05-1 T5335472 SMR000064595 MLS000055913 MLS002634835 HMS2564E11 HMS2394D20 ZINC58163966 PubChem CID : 2530022		0.59 (in 4 replicates)	0.42	NA				Total number of assays tested in: 752. Active in the following assays: <ul style="list-style-type: none"> qHTS Assay for Inhibitors and Activators of Human alpha-Glucosidase Cleavage of Glycogen (AID 2100) qHTS Assay for Inhibitors of JMJD2A-Tutor Domain (AID 504339) 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. sterco-ralis (ssDAF-12) (AID 652126)
BRD-K20739802-001-05-3 ZINC03348724 MLS00038628 AC1M7E04 HMS2564E11 ZINC3348724 SMR000254801 T0518-6895 PubChem CID : 2465640		NA (in 1 replicates)	0.41	NA				Total number of assays tested in: 645. Active in the following assays: <ul style="list-style-type: none"> Luminescence-based cell-based primary high throughput screening assay to identify biased ligands of the melanocortin 4 receptor (MC4R): agonists (AID 540308) qHTS of D3 Dopamine Receptor Antagonist: qHTS (AID 652054) qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504)
BRD-K27824357-001-01-4 PubChem CID : 54618409		0.71 (in 4 replicates)	-0.52	0.102				Total number of assays tested in: 37.
BRD-K09779552-001-01-5 PubChem CID : 54618116		0.68 (in 4 replicates)	-0.50	0.111				Total number of assays tested in: 43. Active in the following assays: <ul style="list-style-type: none"> HTS for the detection of C. neoformans cell lysis via adenylyate kinase (AK) release Measured in Microorganism System Using Plate Reader - 2162-01.Inhibitor.SinglePoint.HTS Activity (AID 651654)
BRD-K57304954-001-01-7 PubChem CID : 44495672		0.53 (in 3 replicates)	-0.47	0.317				Total number of assays tested in: 47.
BRD-K40837535-001-01-4 PubChem CID : 54618433		0.55 (in 4 replicates)	-0.44	0.182				Total number of assays tested in: 42.
BRD-K44245916-001-01-5 PubChem CID : 54618395		0.79 (in 4 replicates)	-0.44	0.320				Total number of assays tested in: 38.

BRD-K14409255-001-01-2
PubChem CID : 54618701



0.63 (in 3 replicates)



Total number of assays tested in: 40.