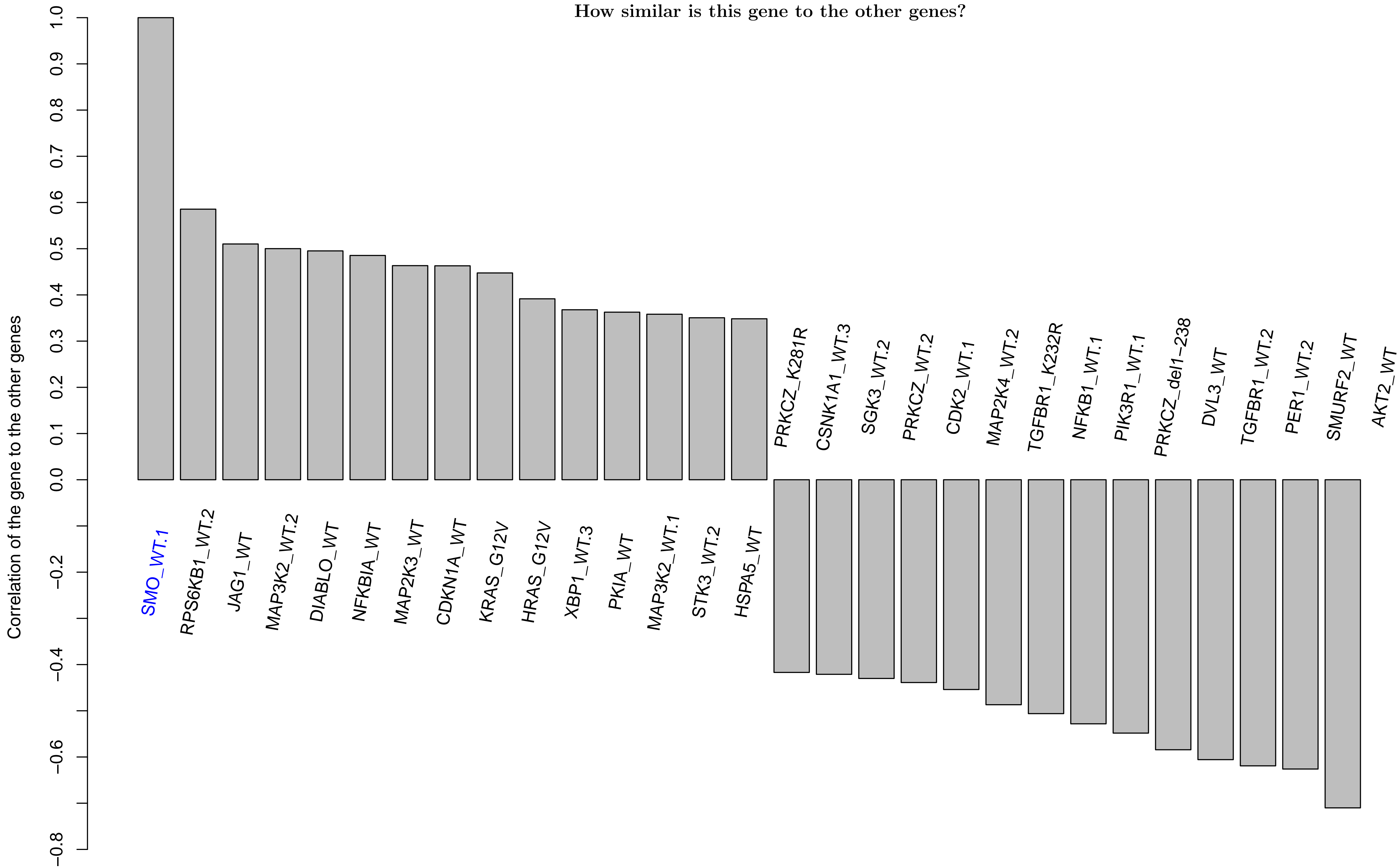
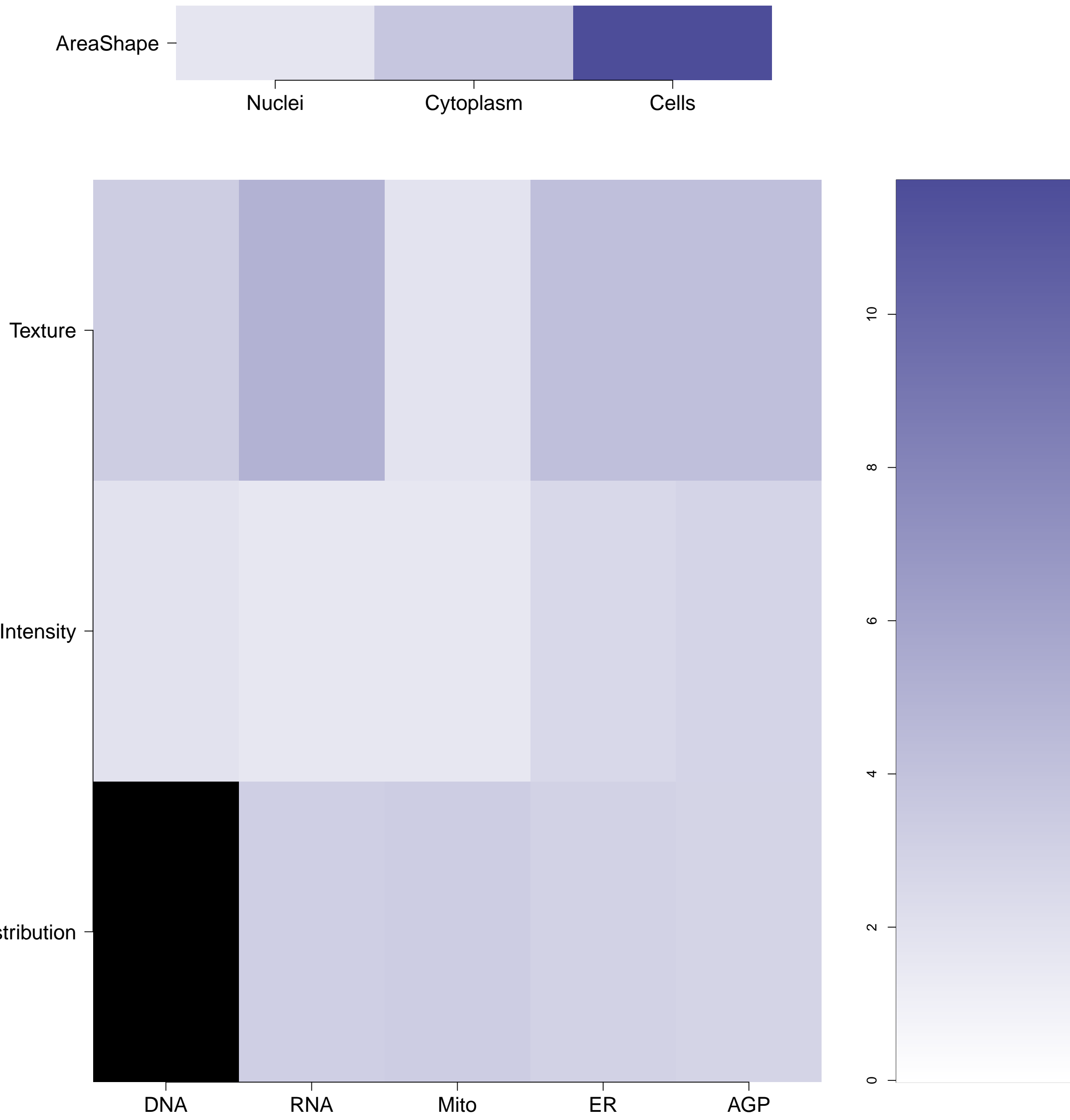


SMO.WT.1 - in Hedgehog

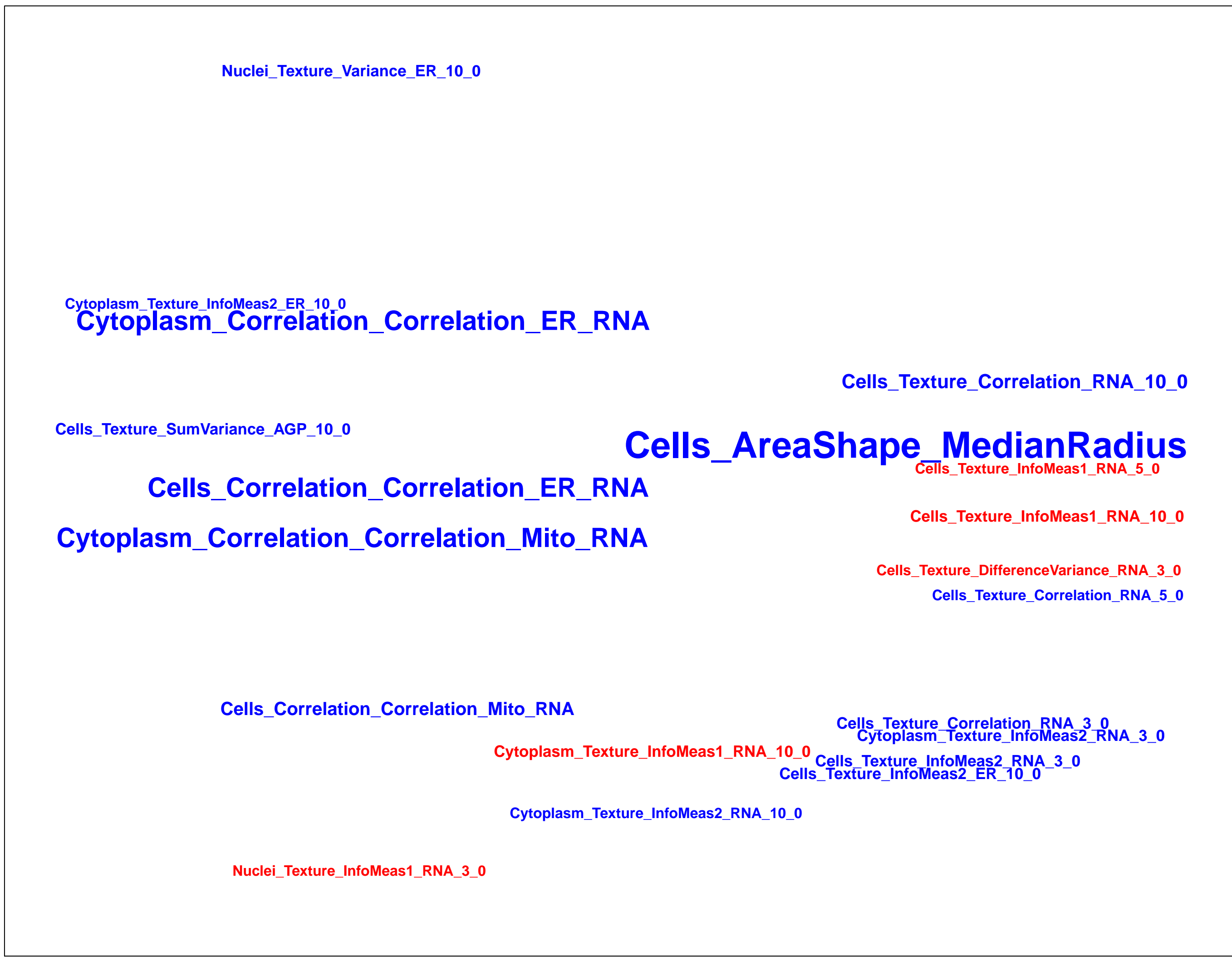
How similar is this gene to the other genes?



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

SMO.WT.1 (41744)

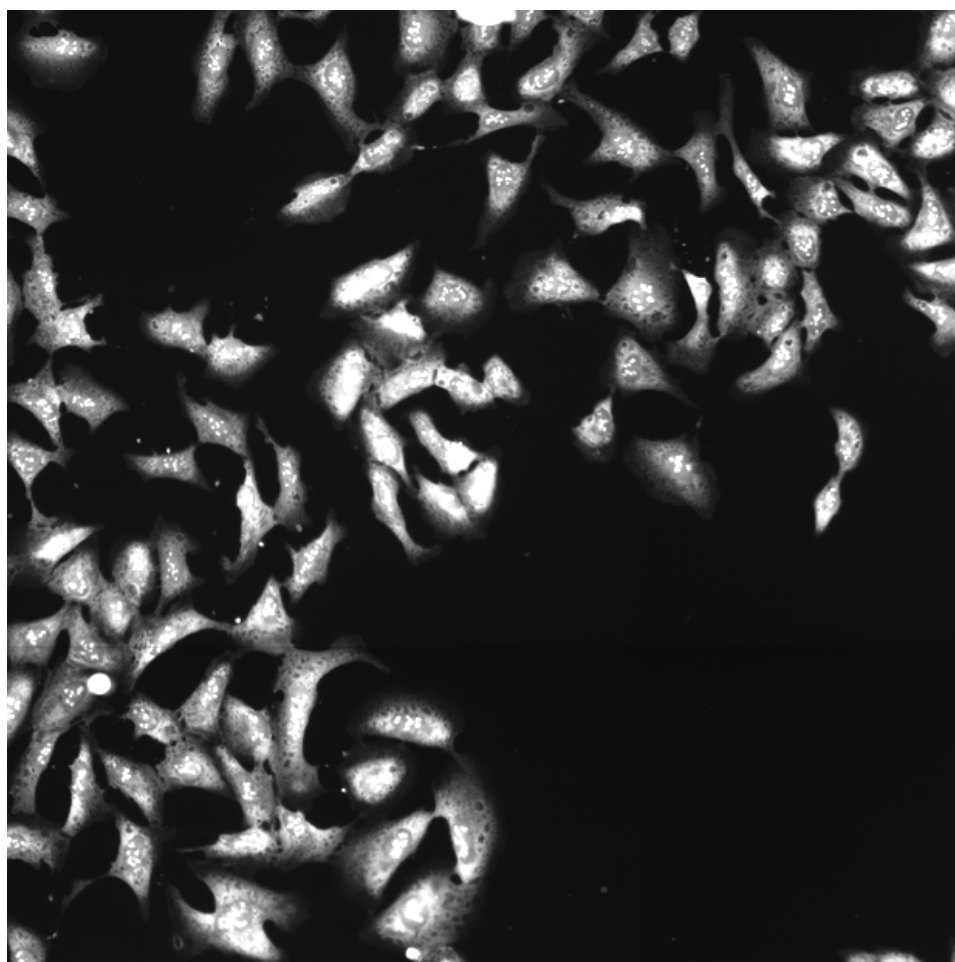
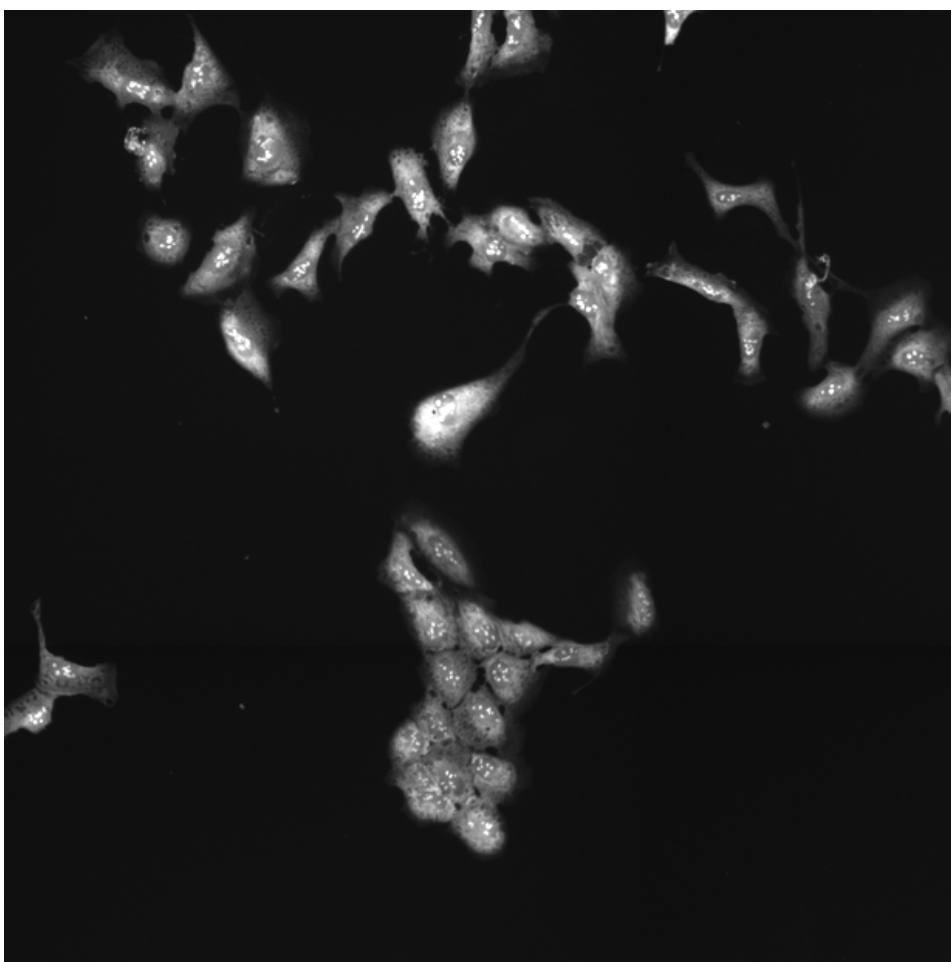
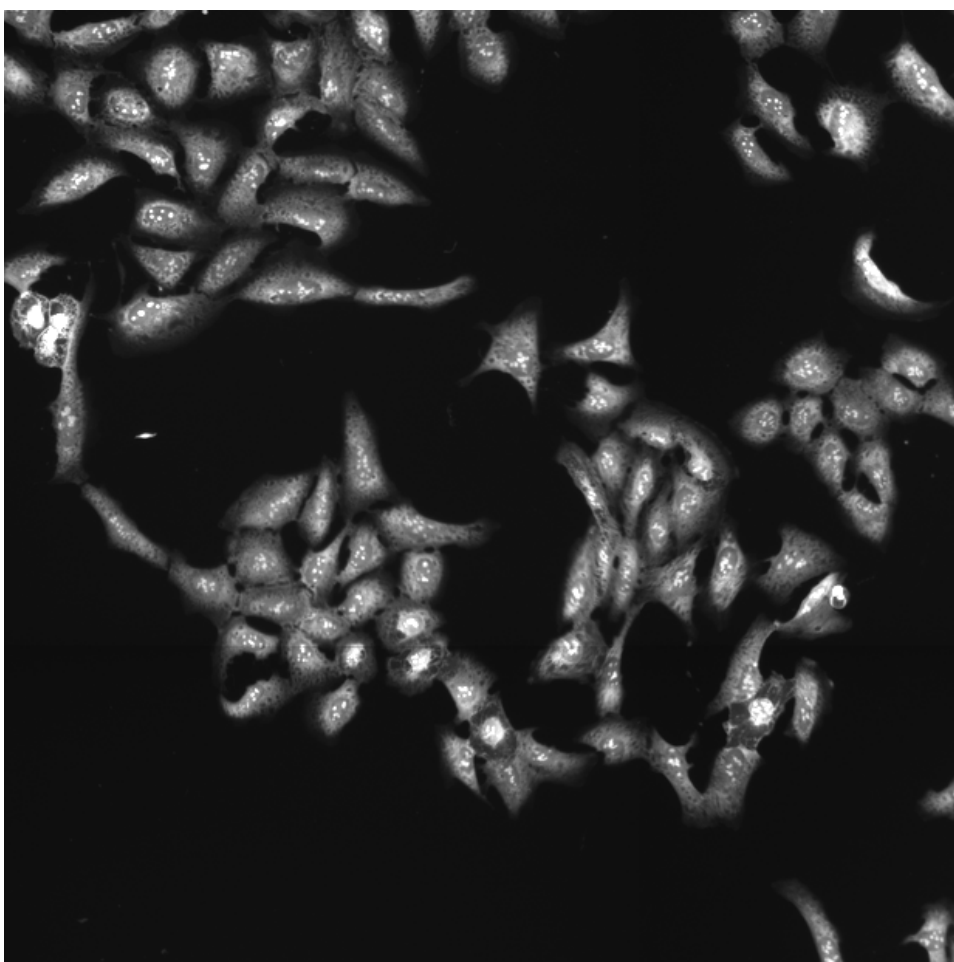
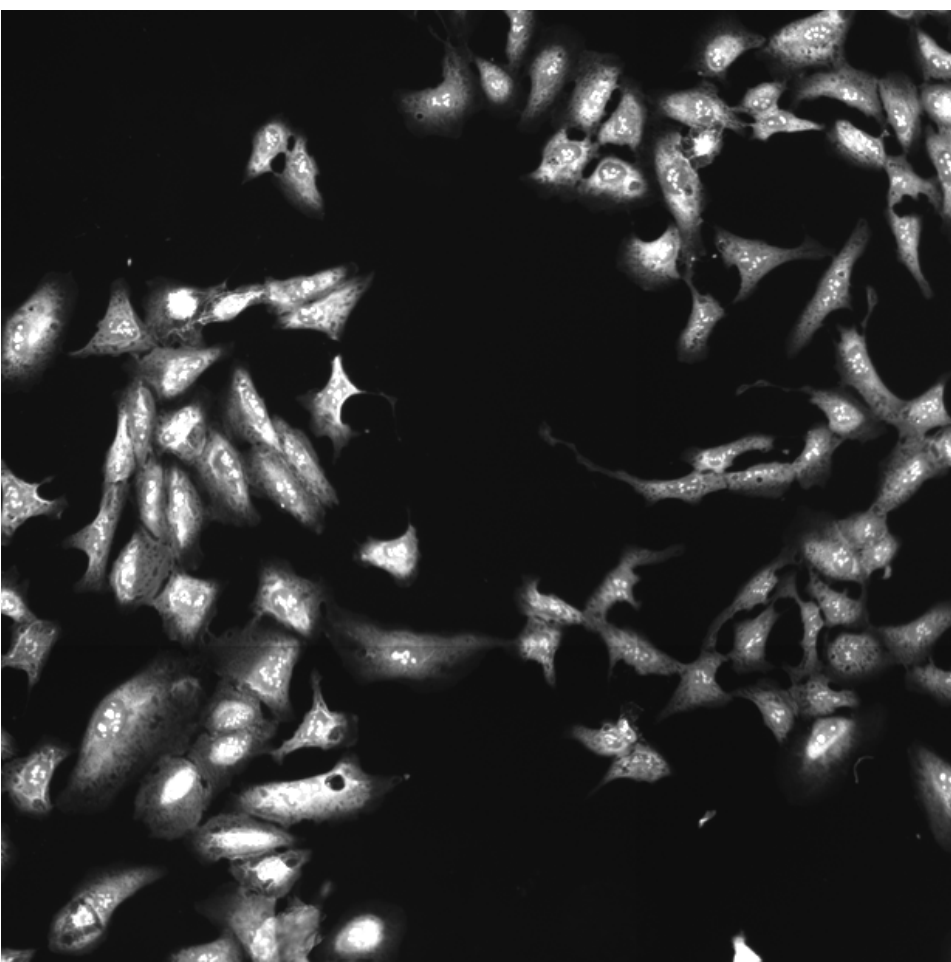
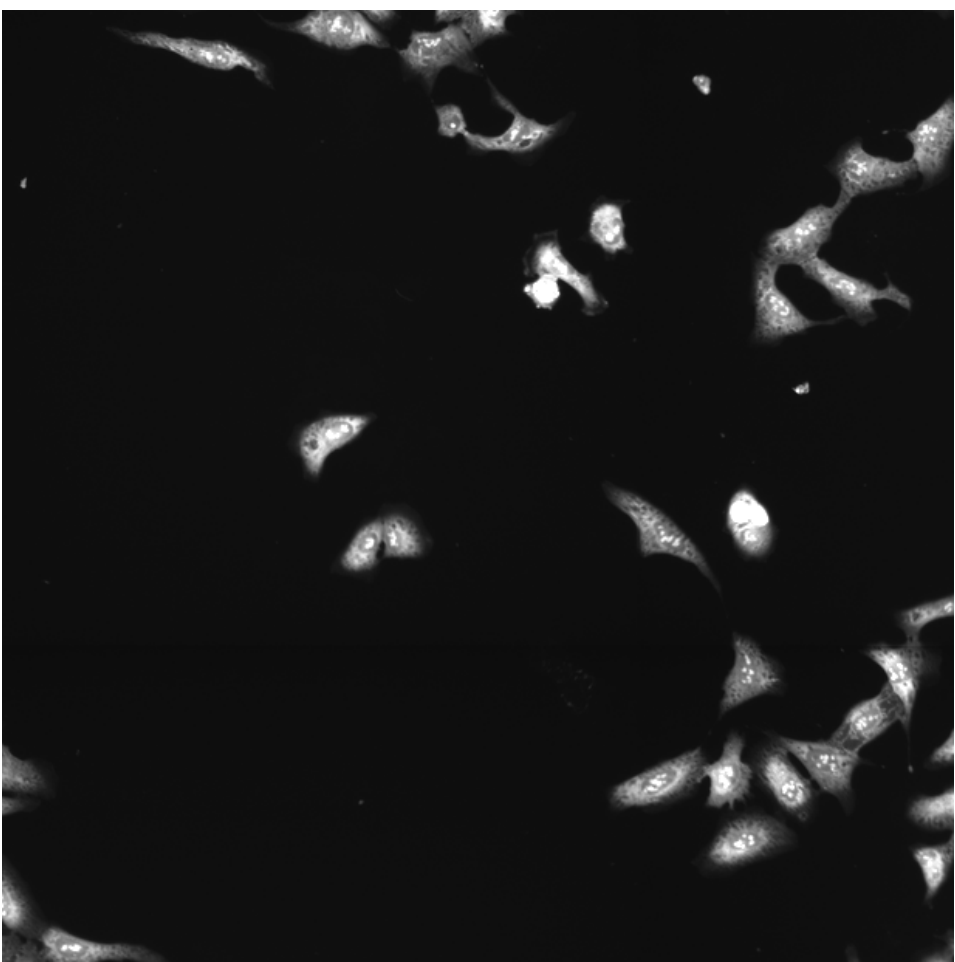
SMO.WT.1 (41755)

SMO.WT.1 (41756)

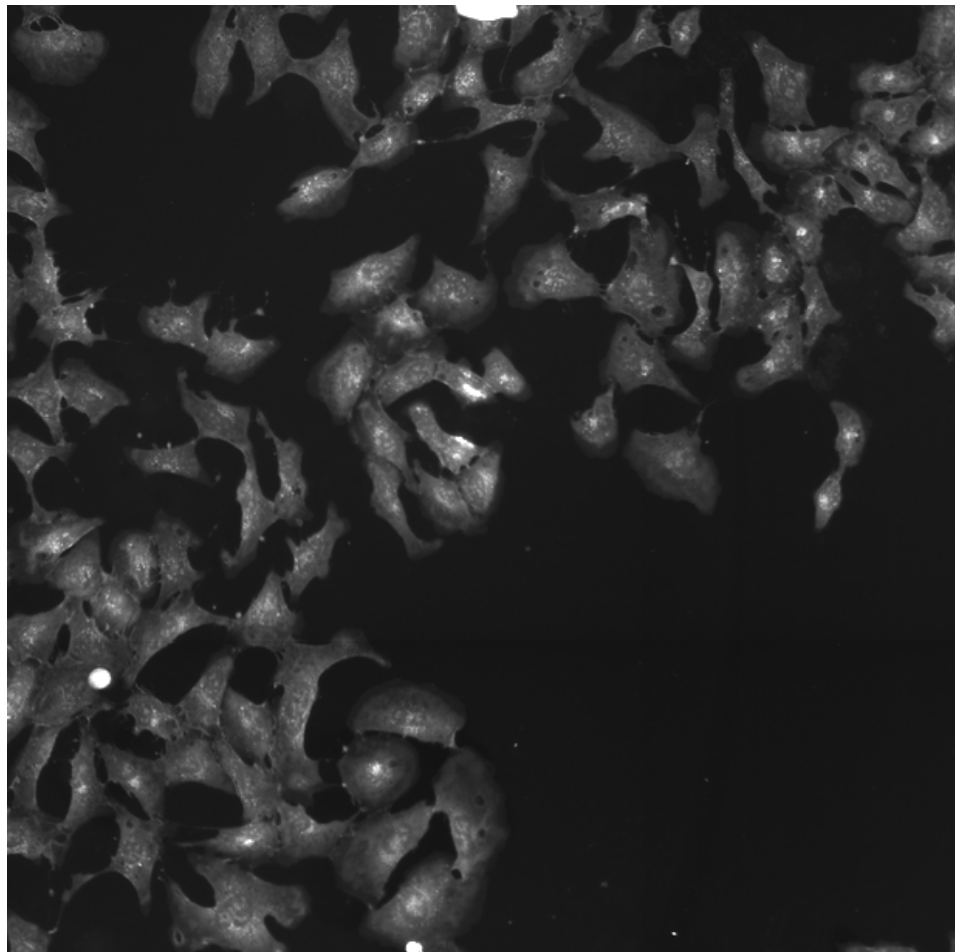
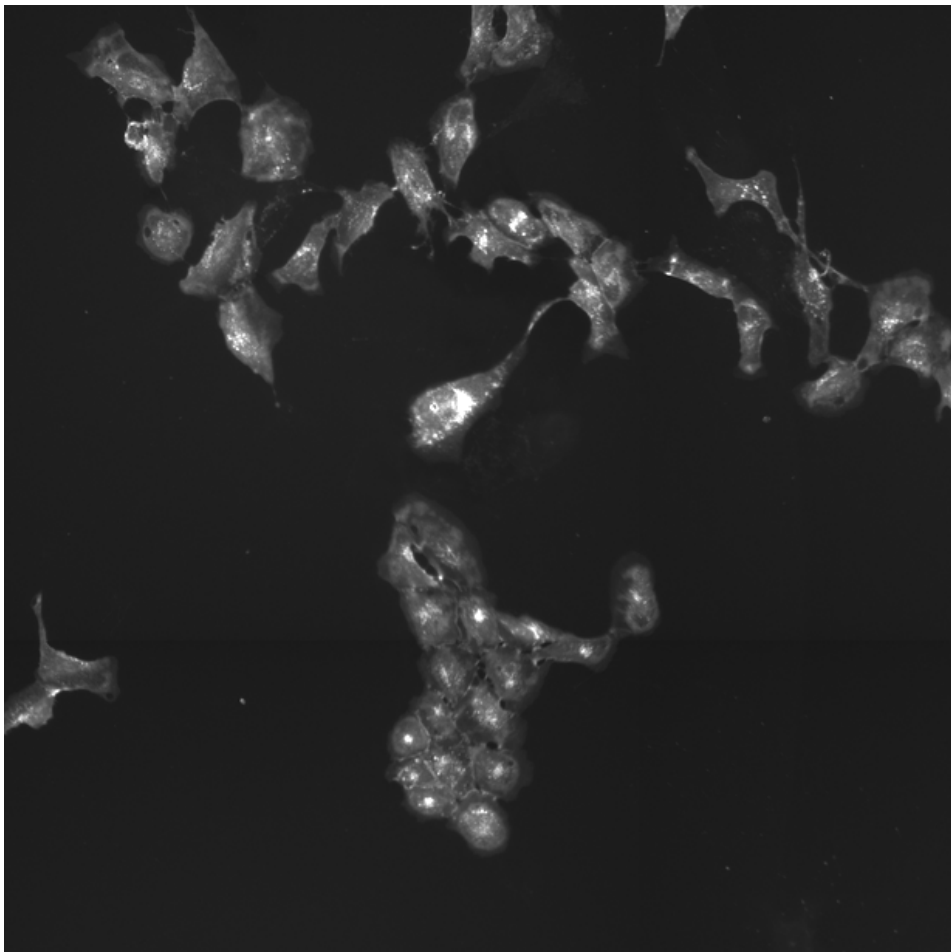
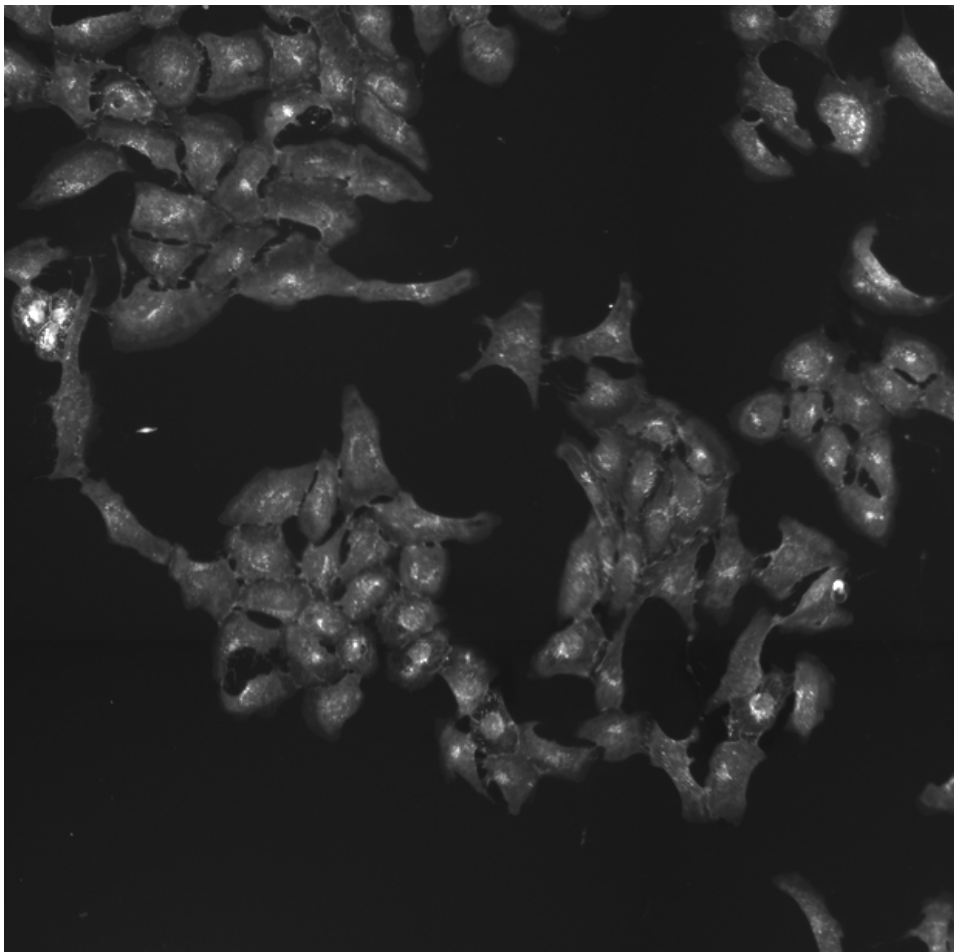
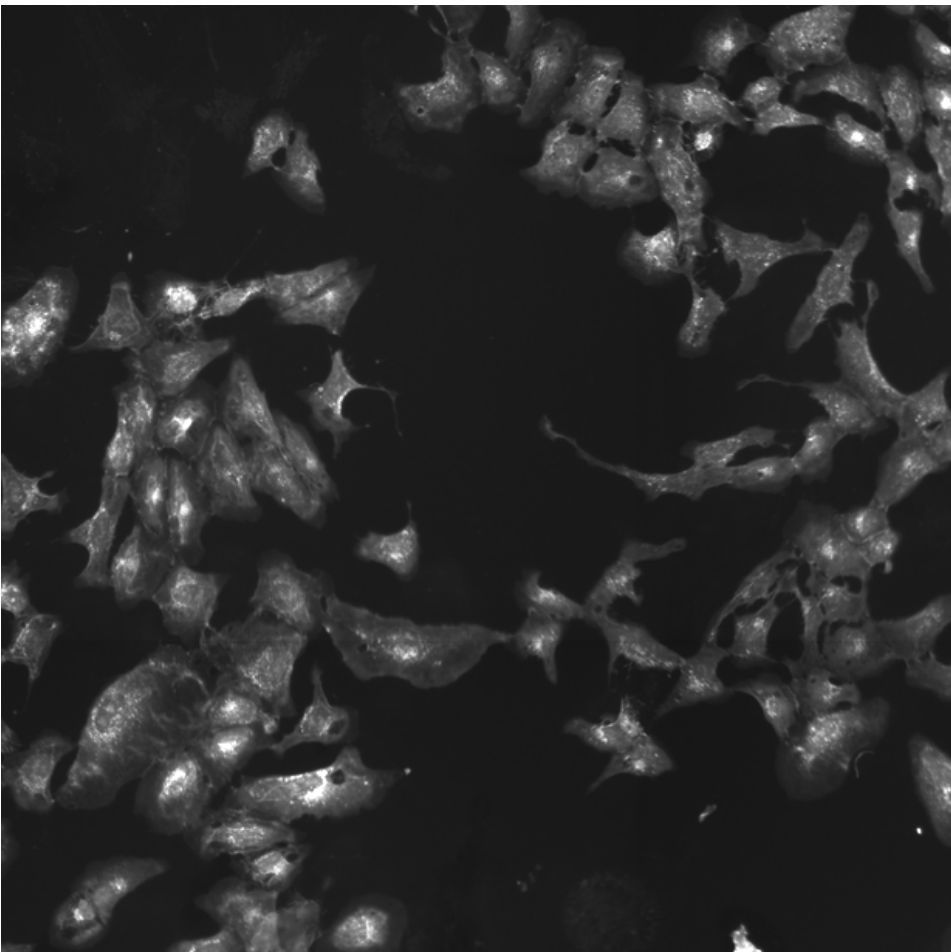
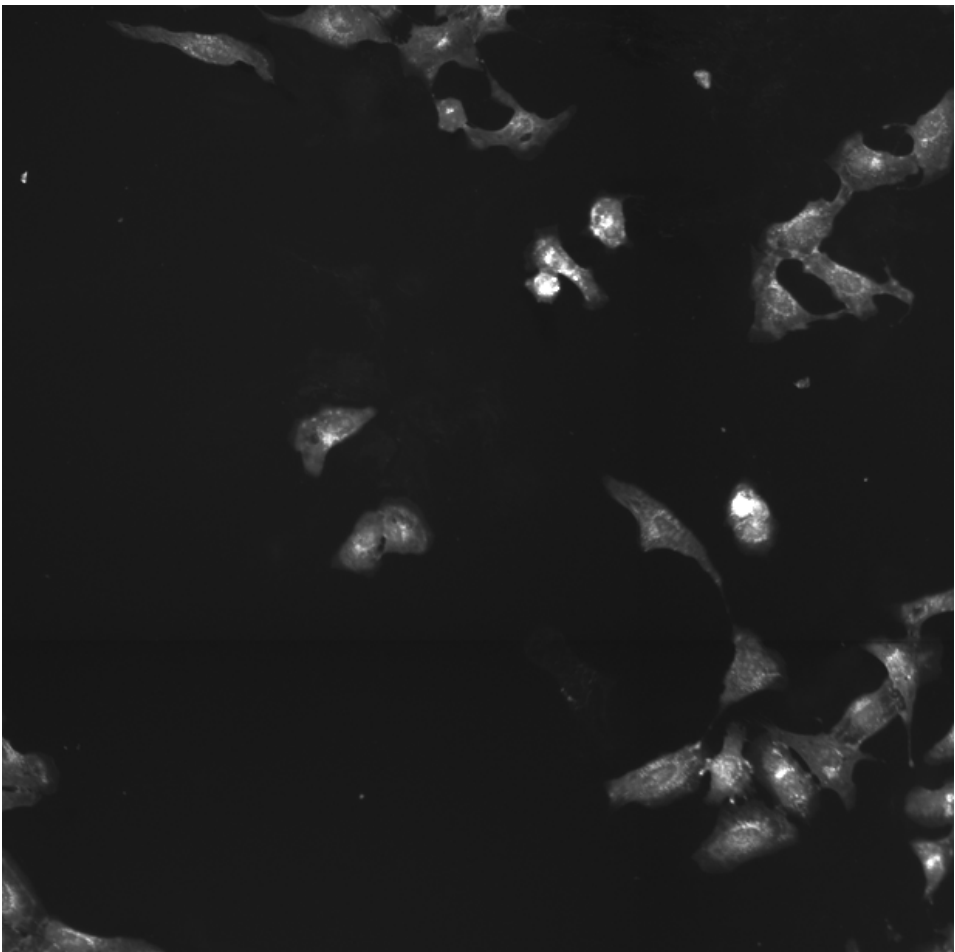
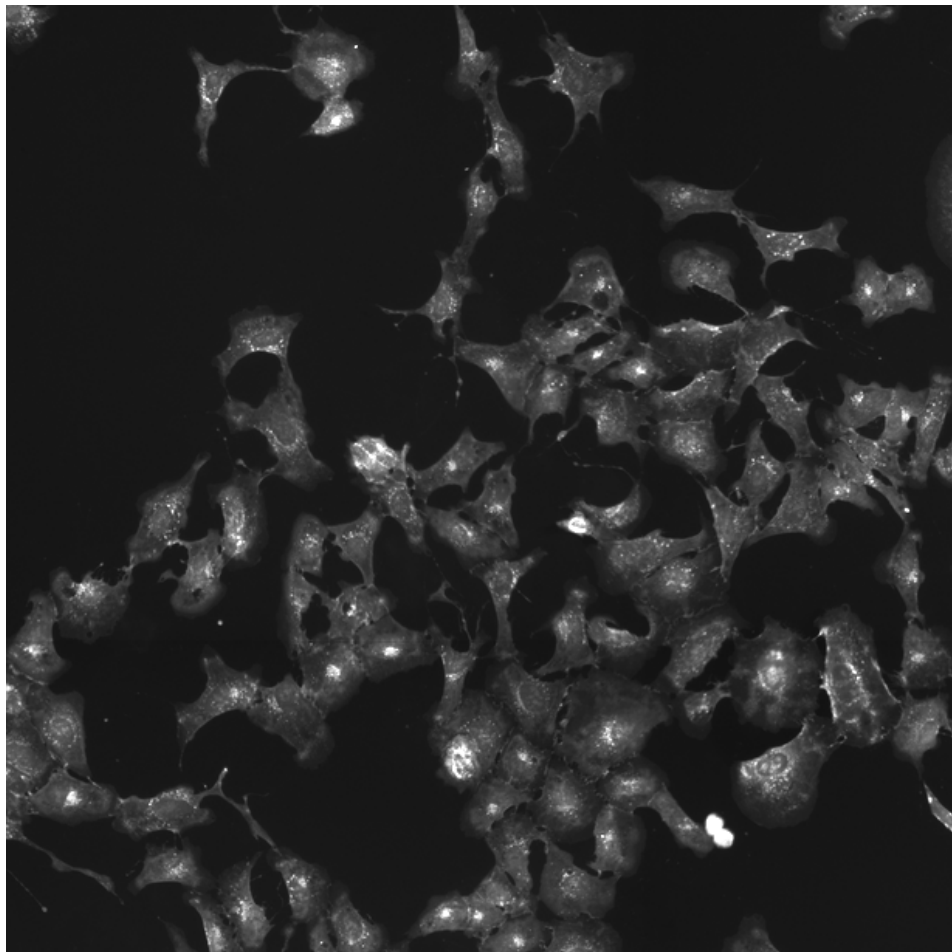
SMO.WT.1 (41757)

SMO.WT.1 (41754)

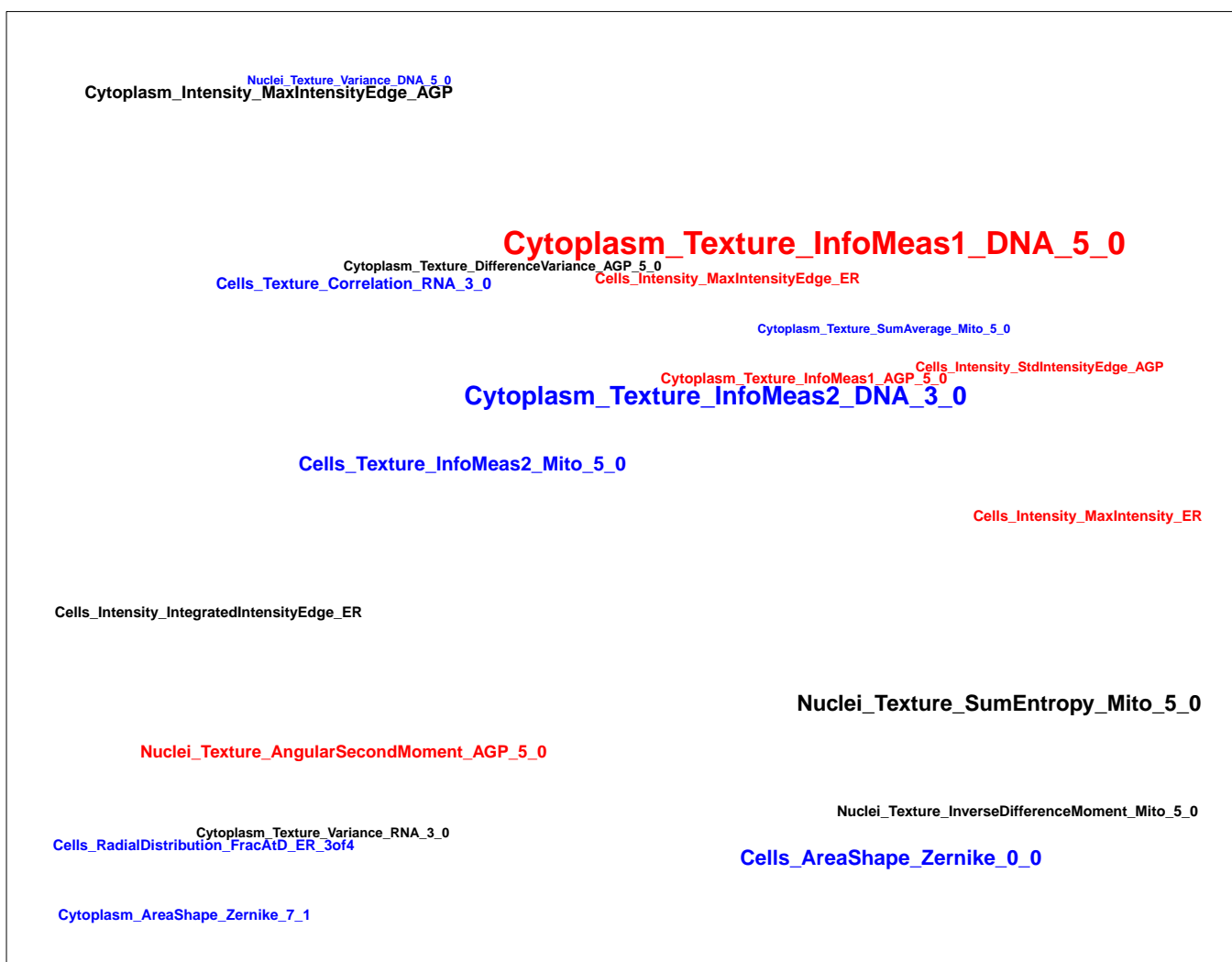
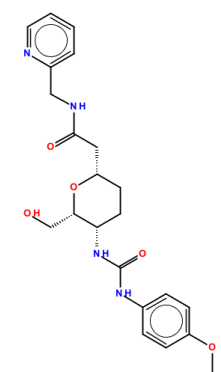
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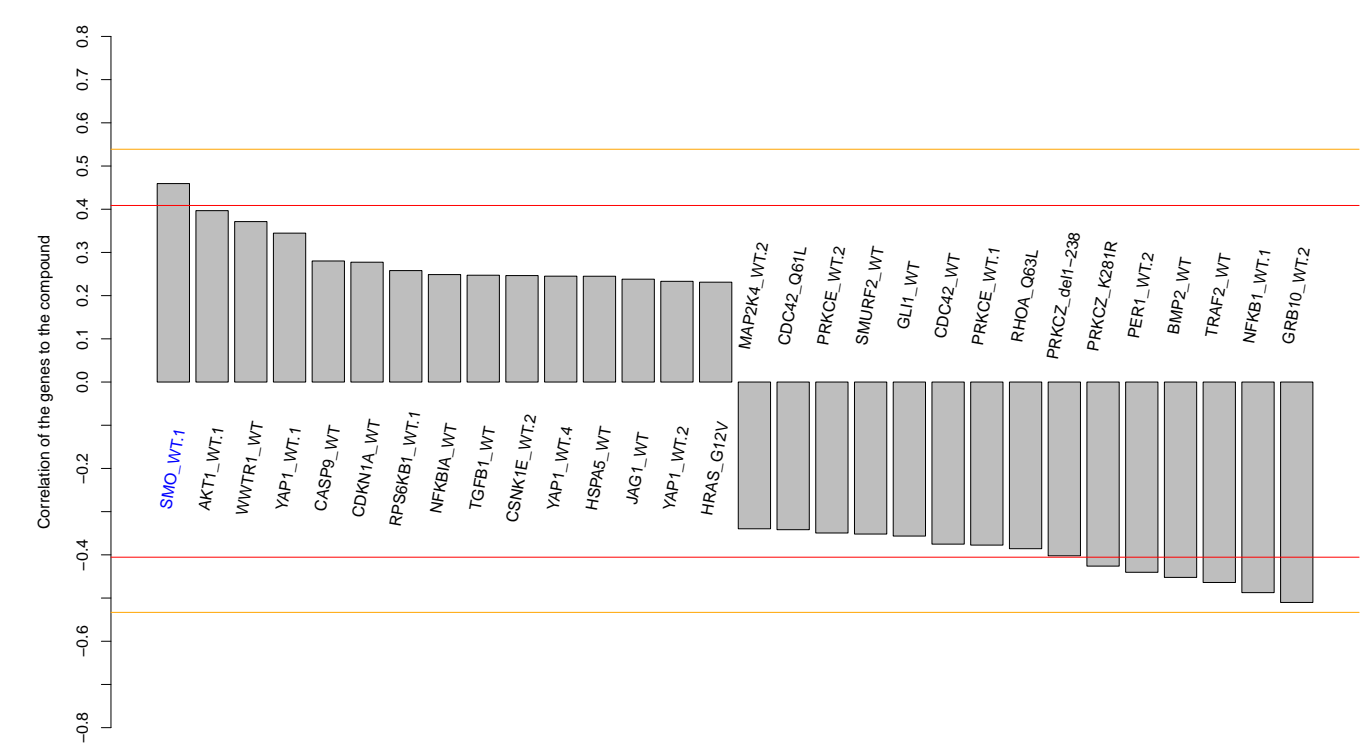


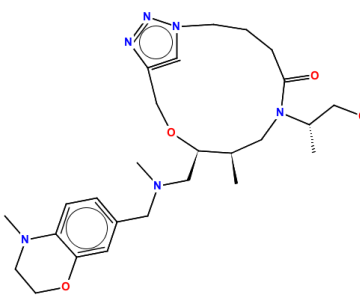
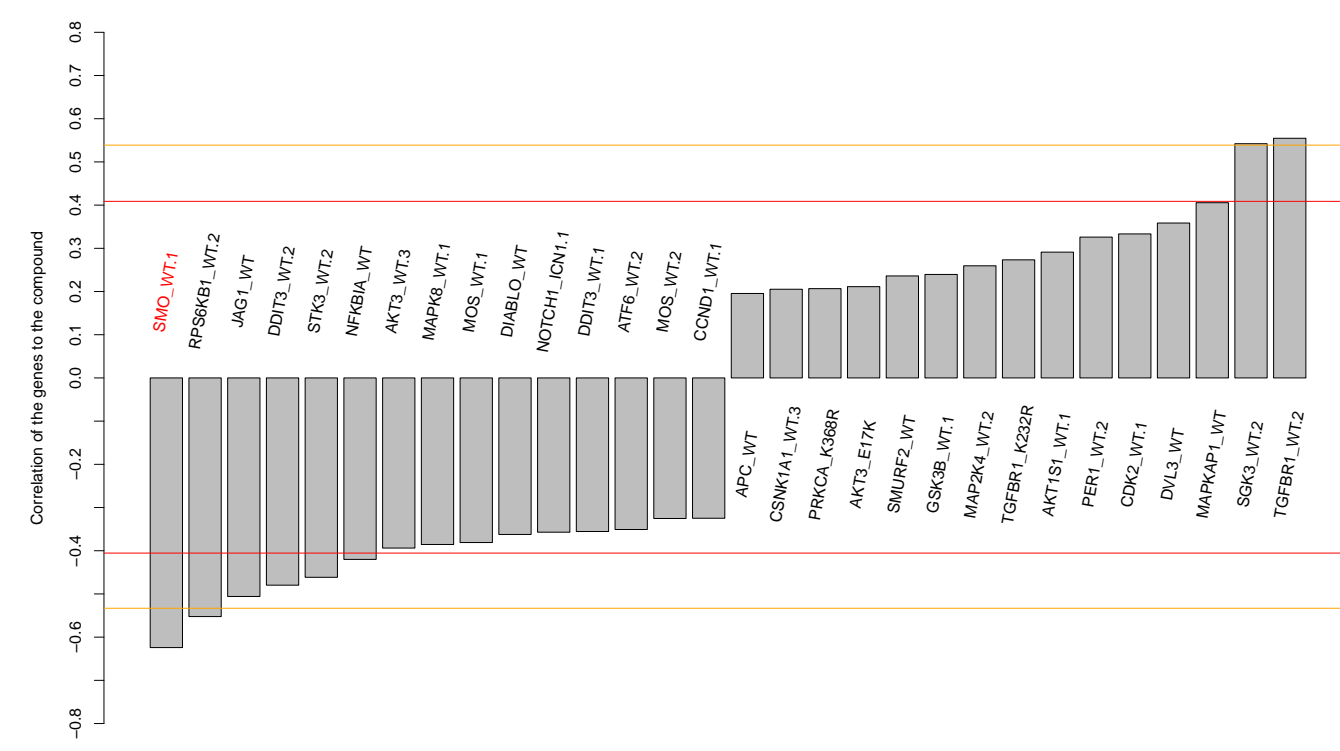
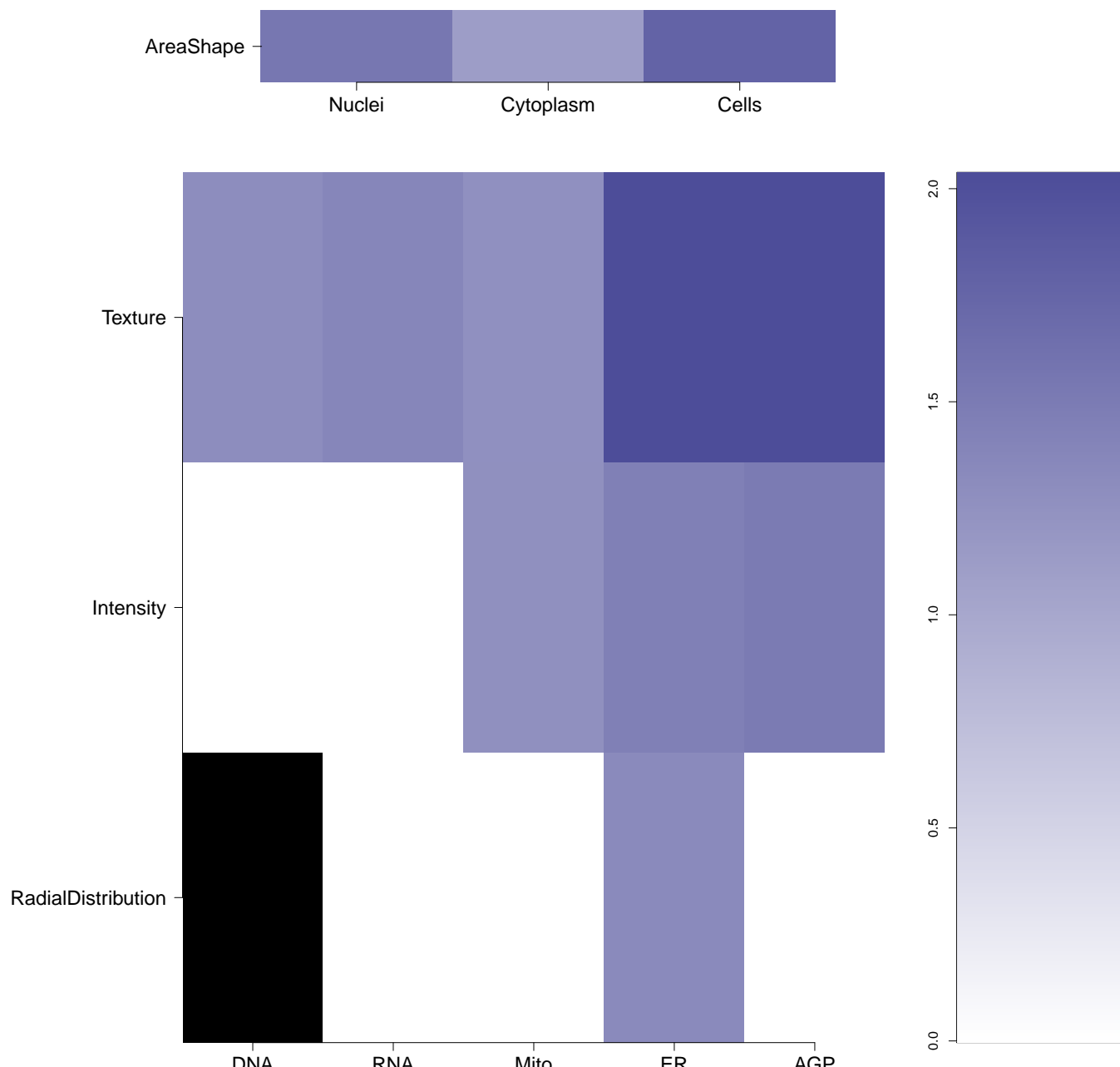

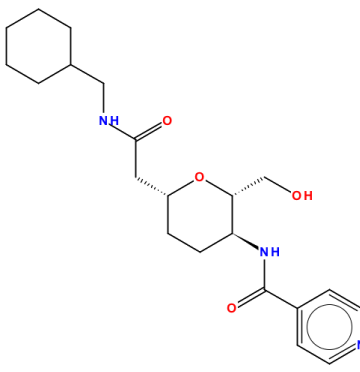
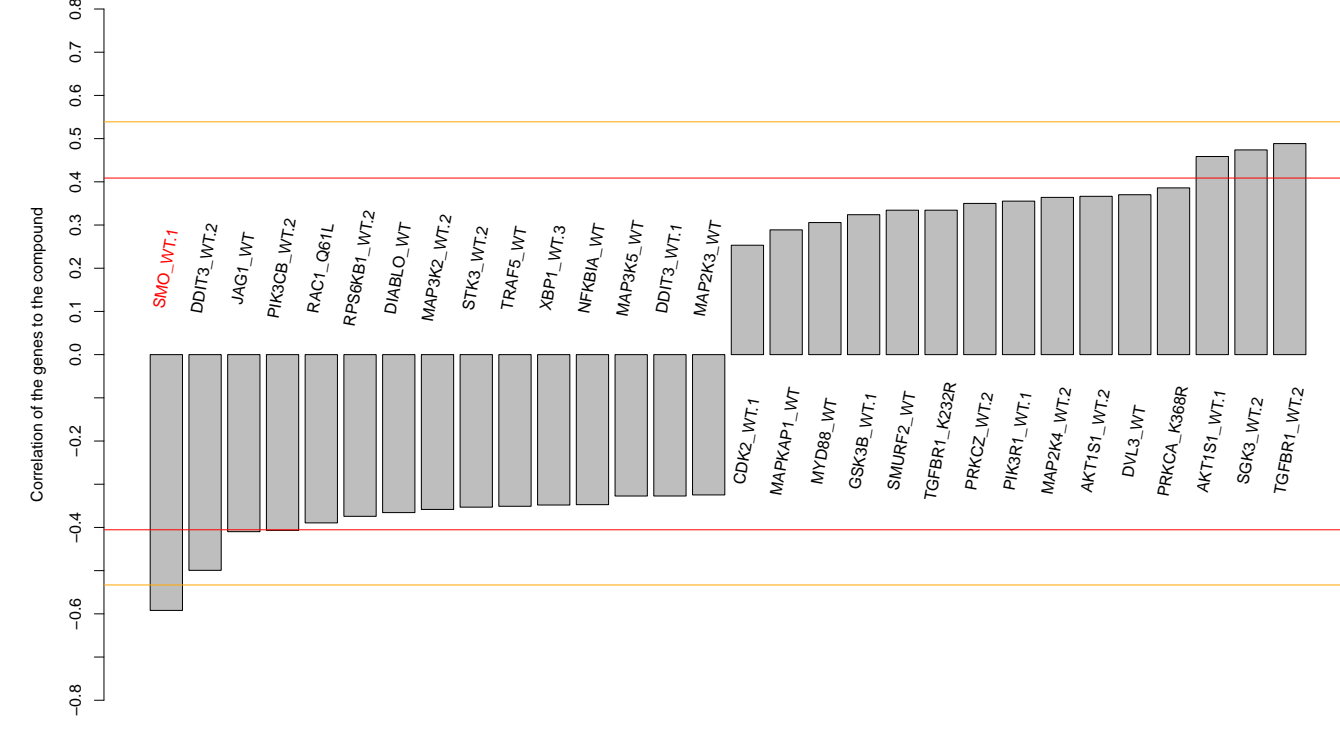
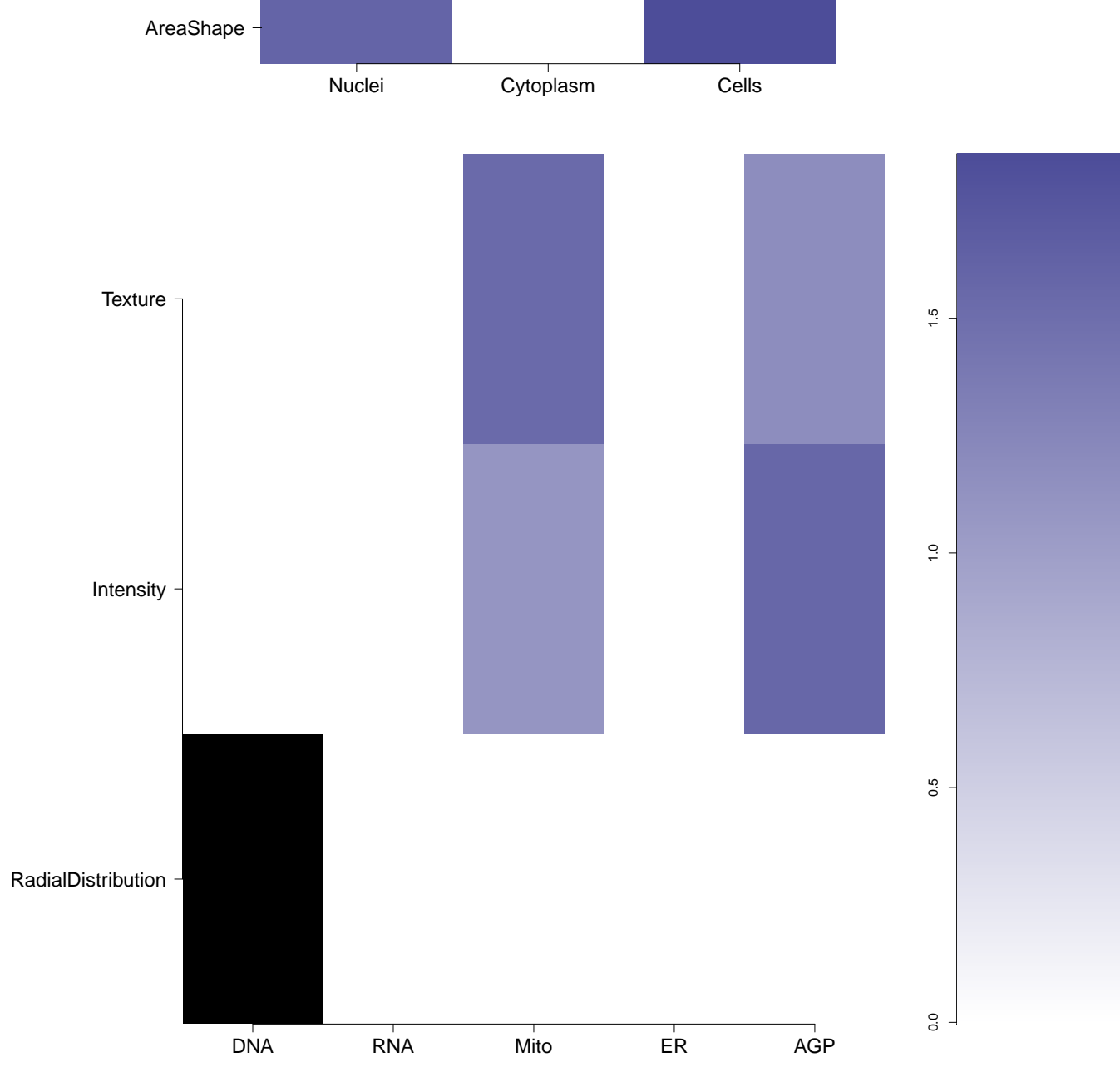
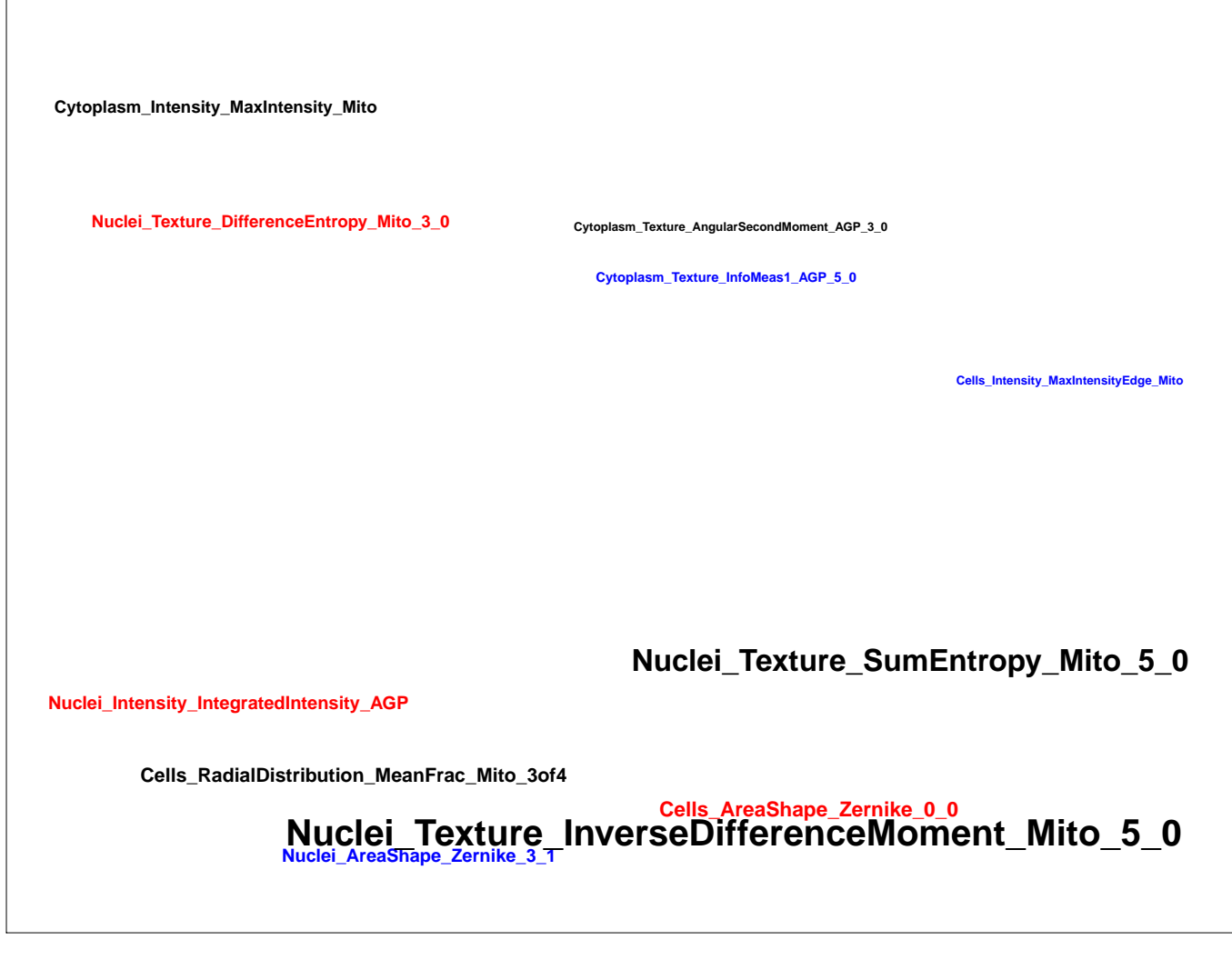
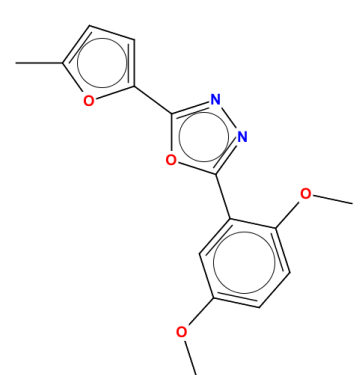
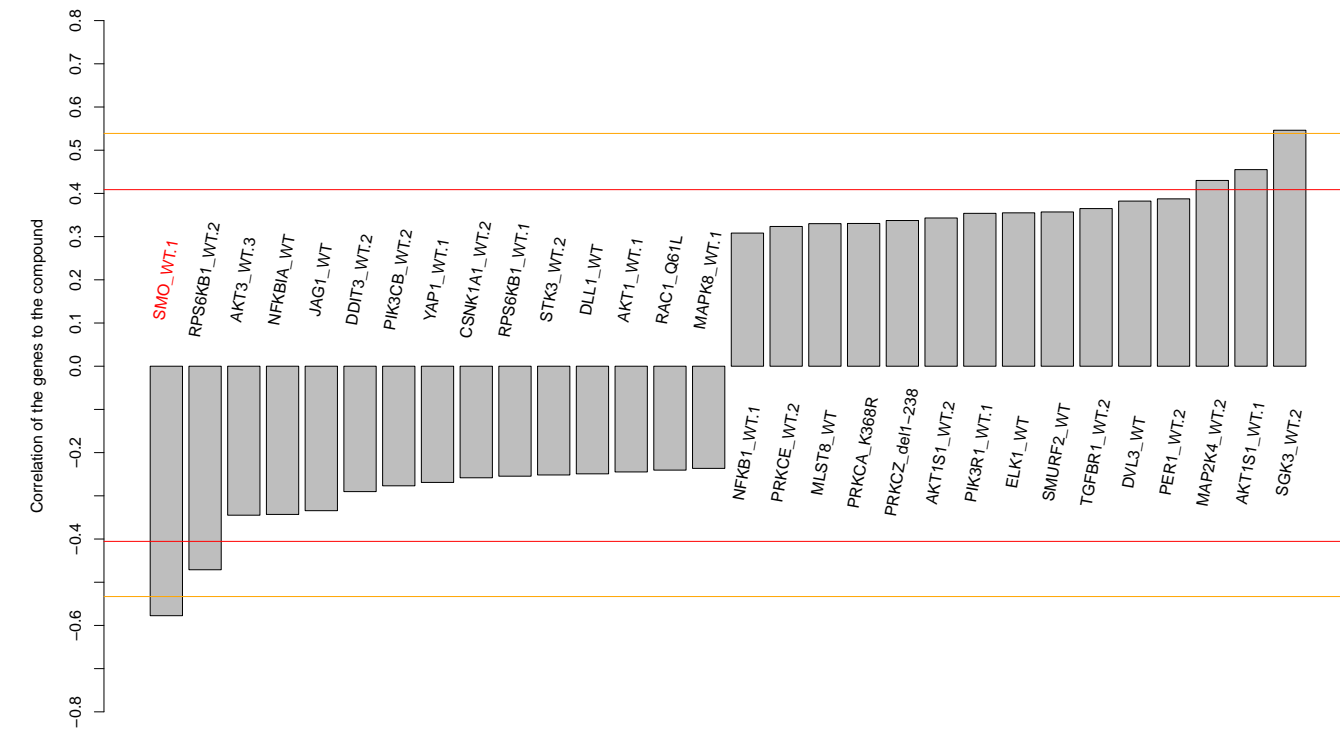
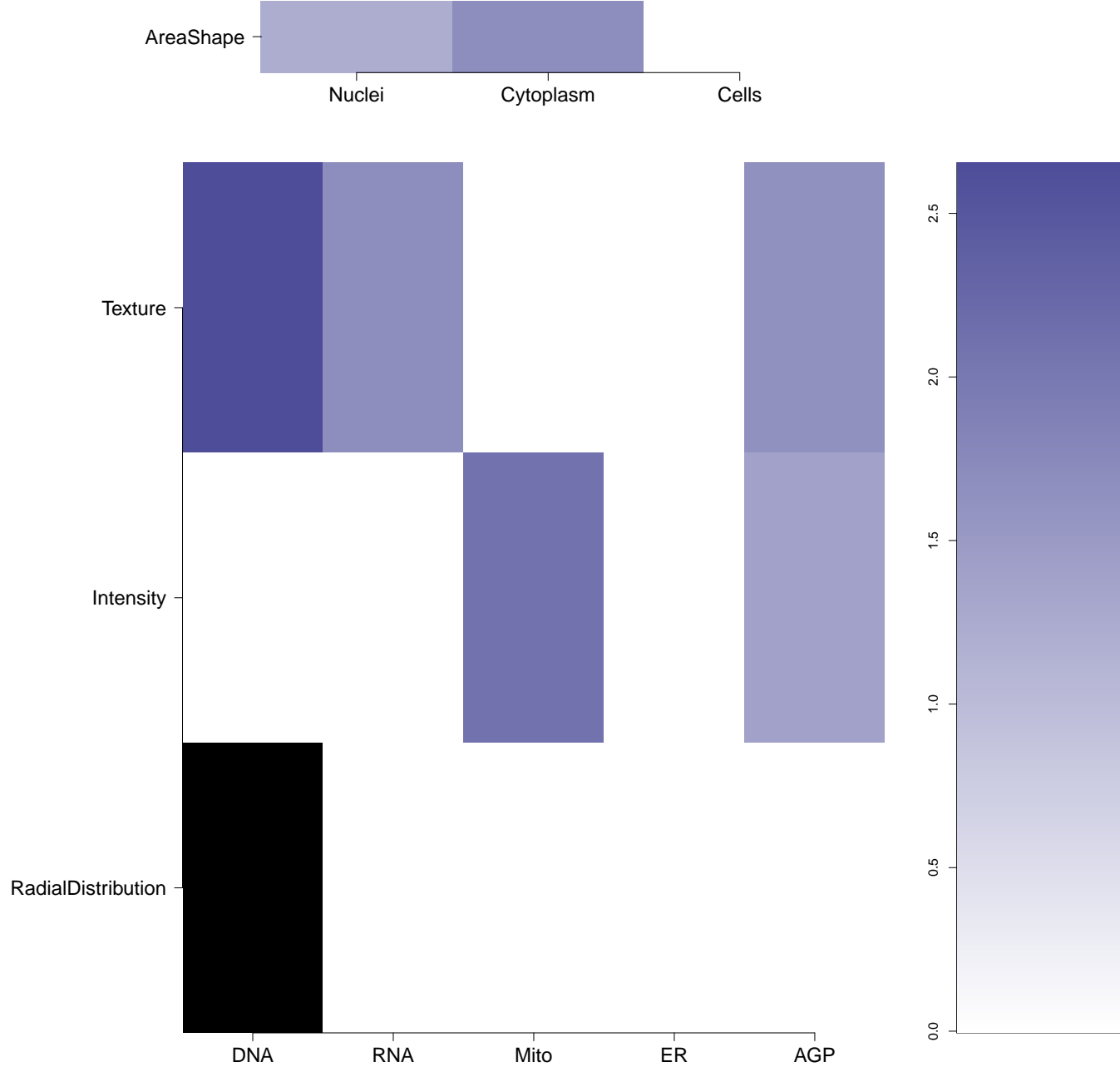

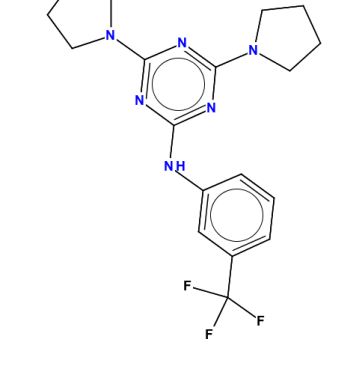
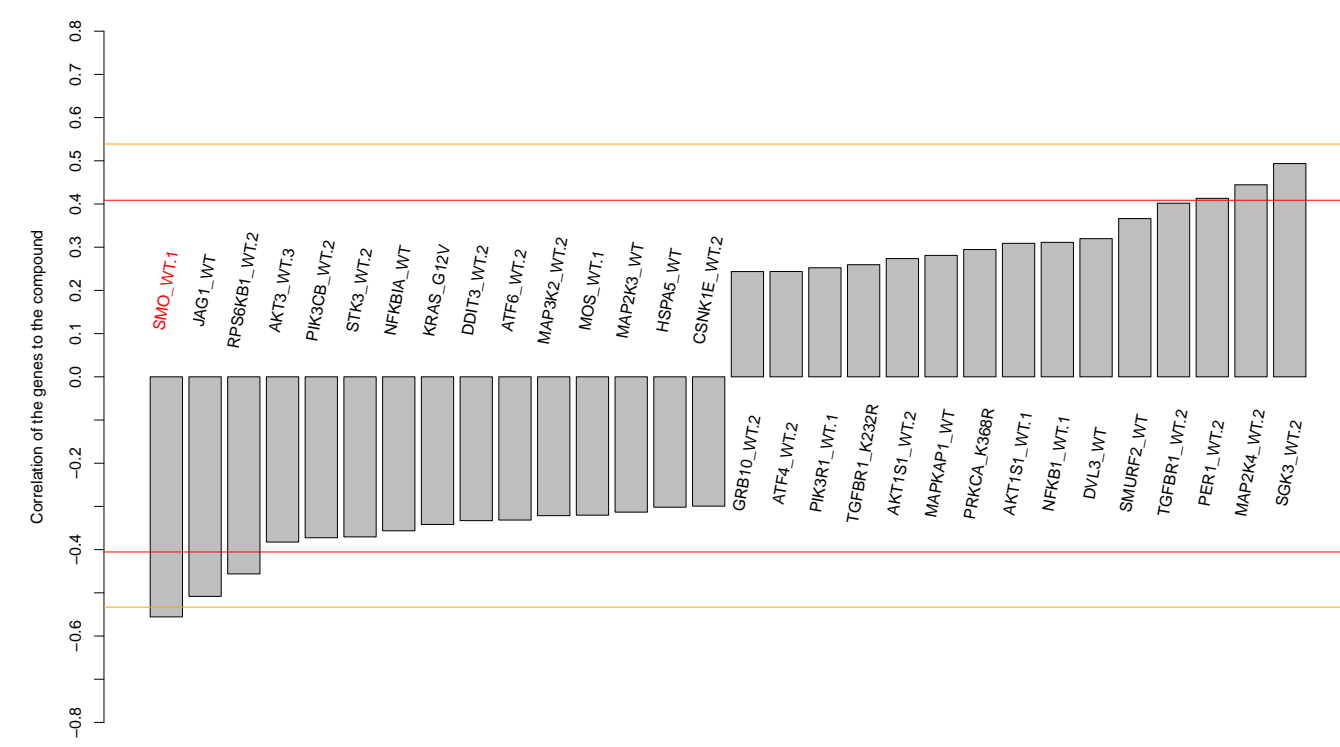
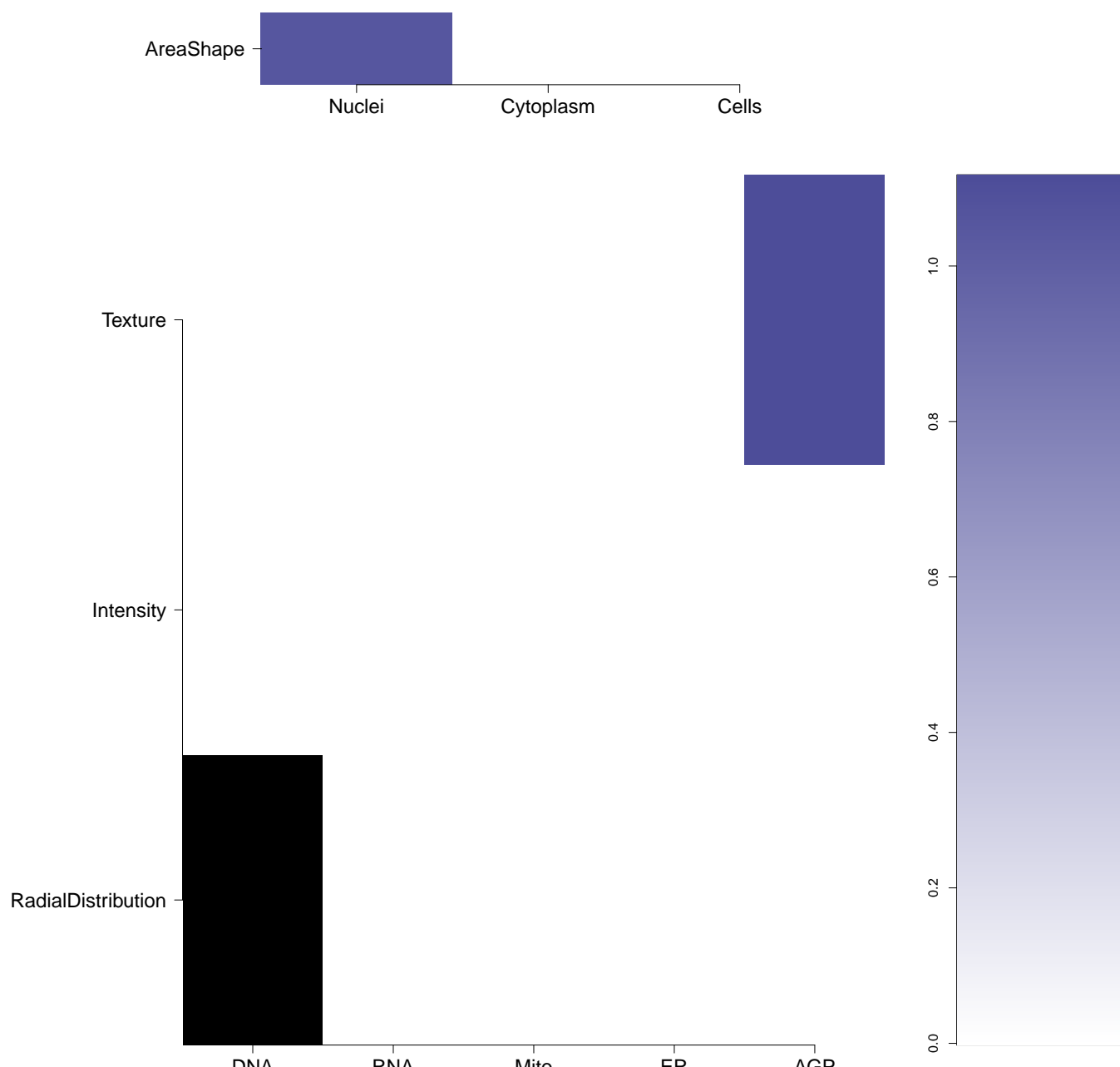
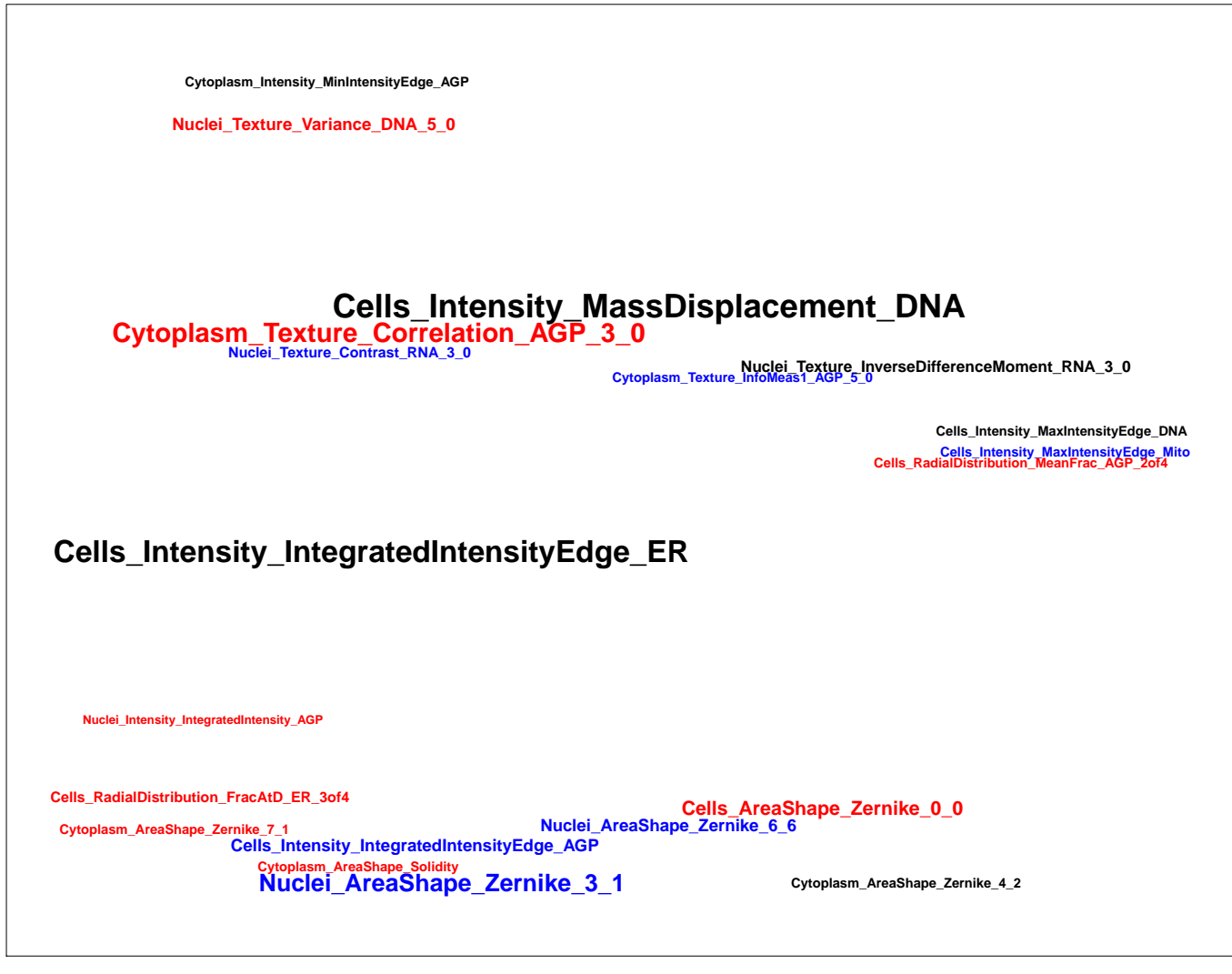
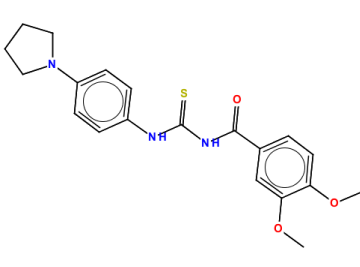
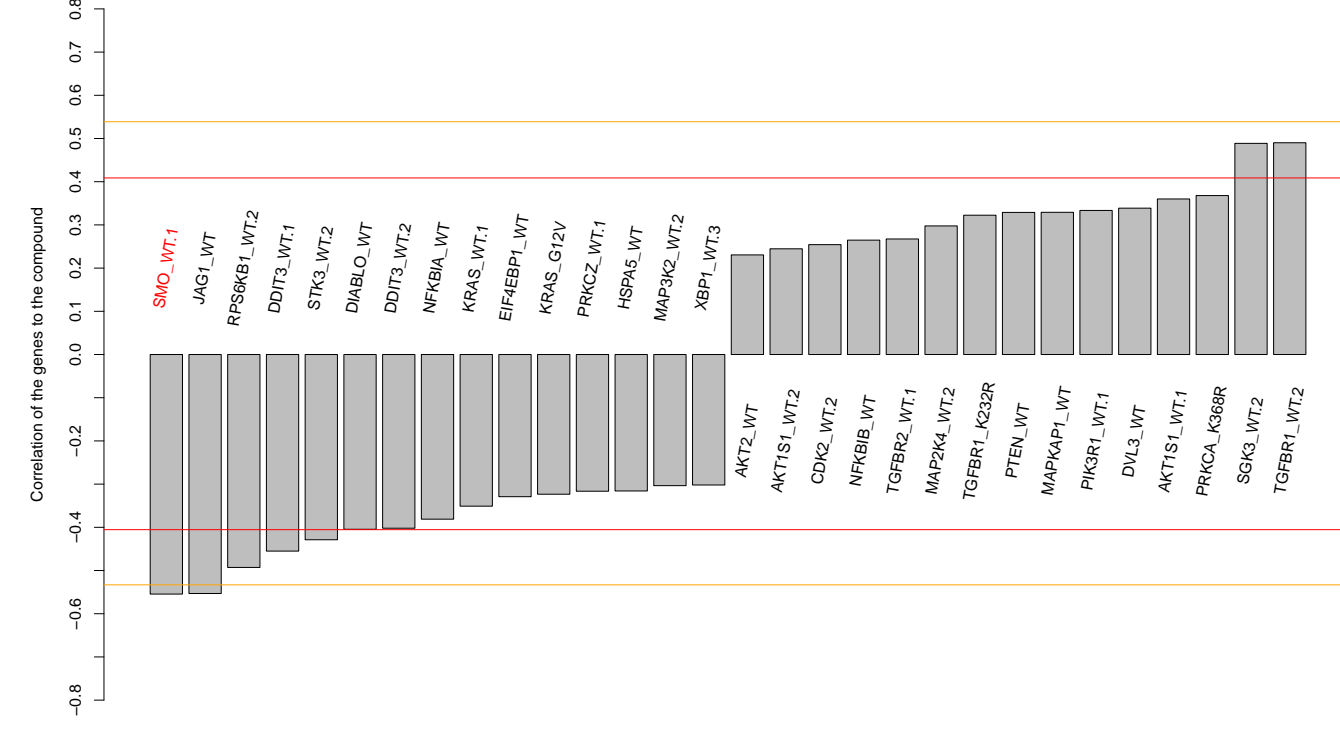
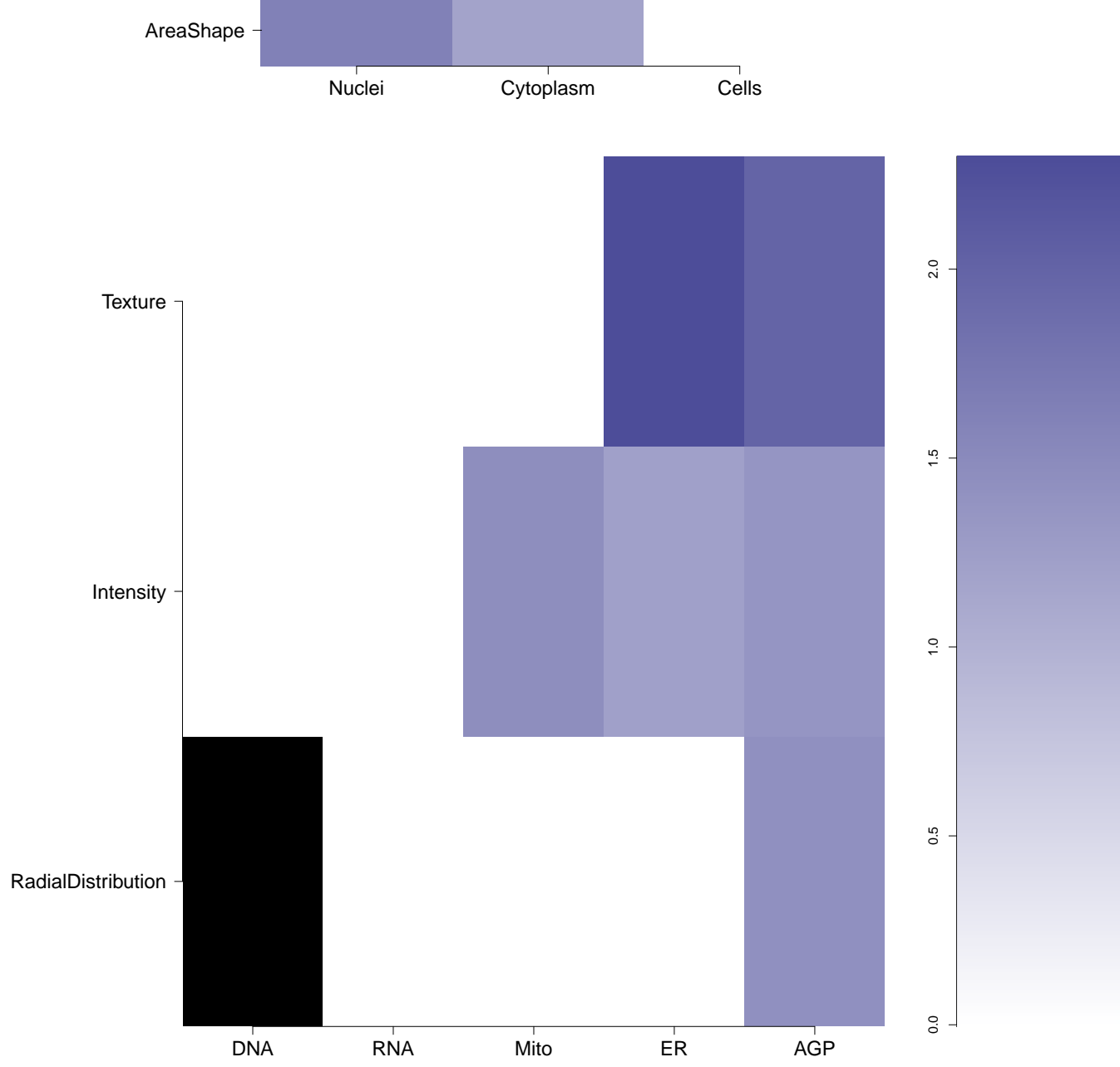

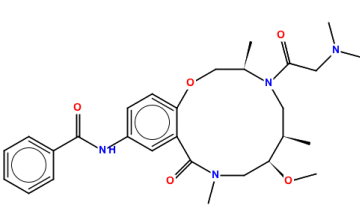
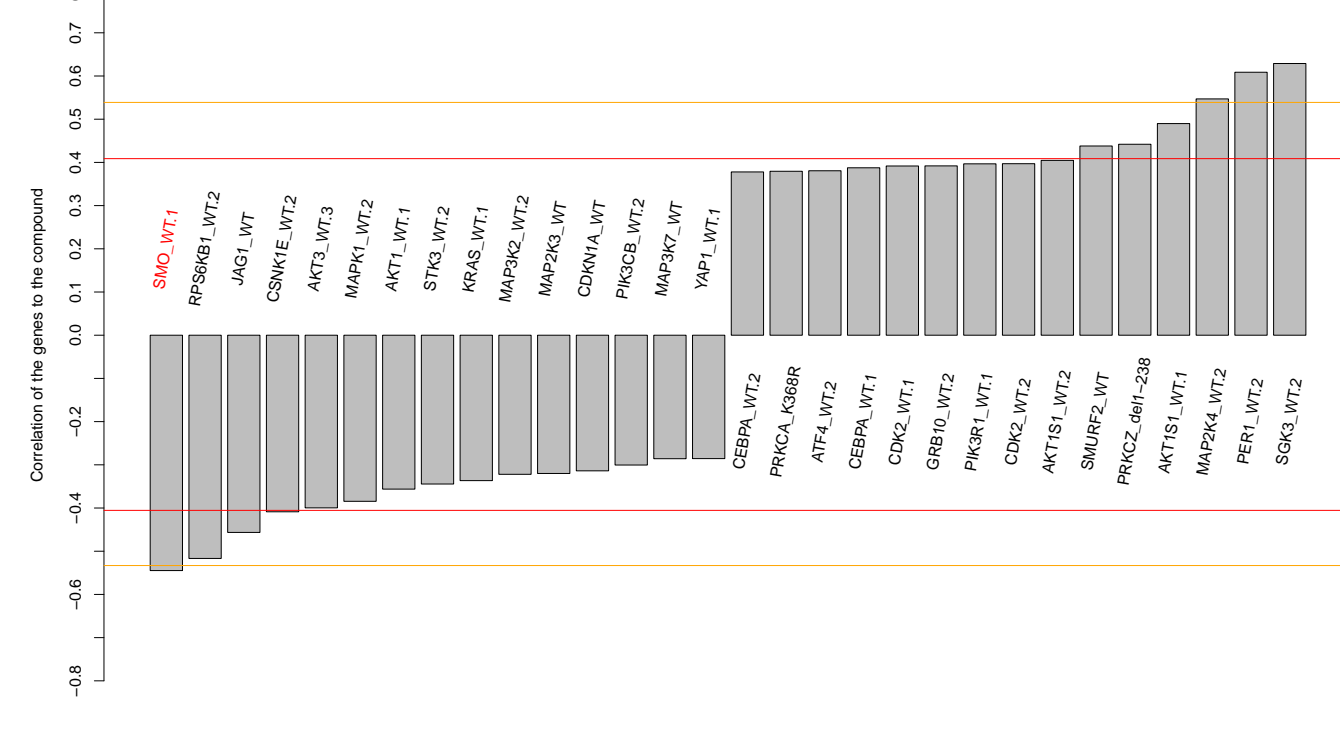
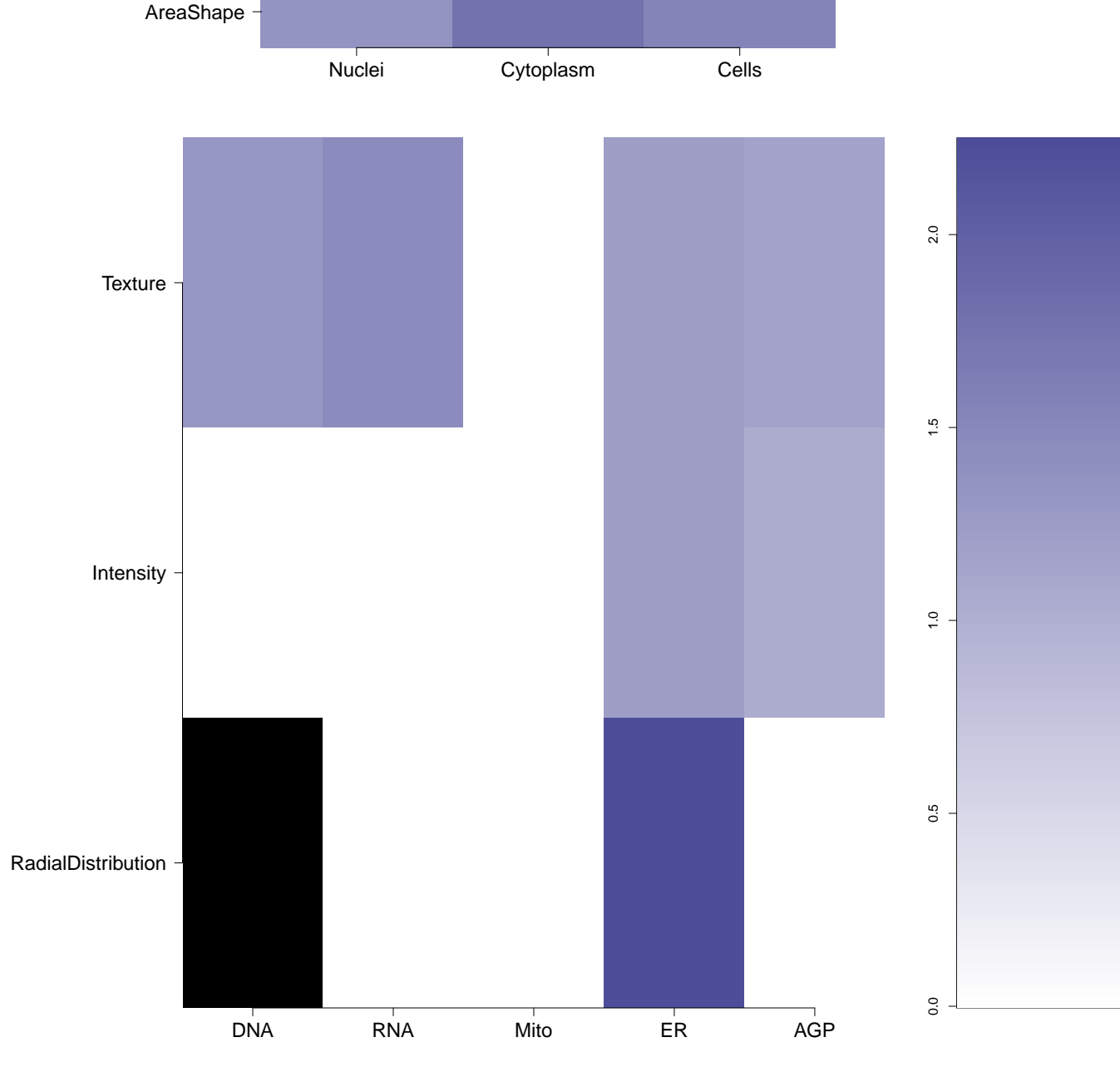

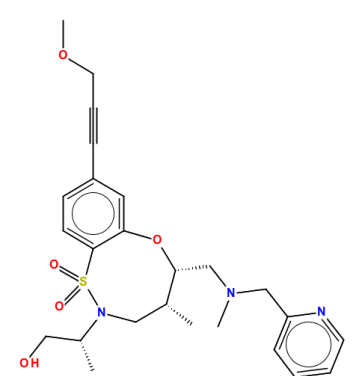
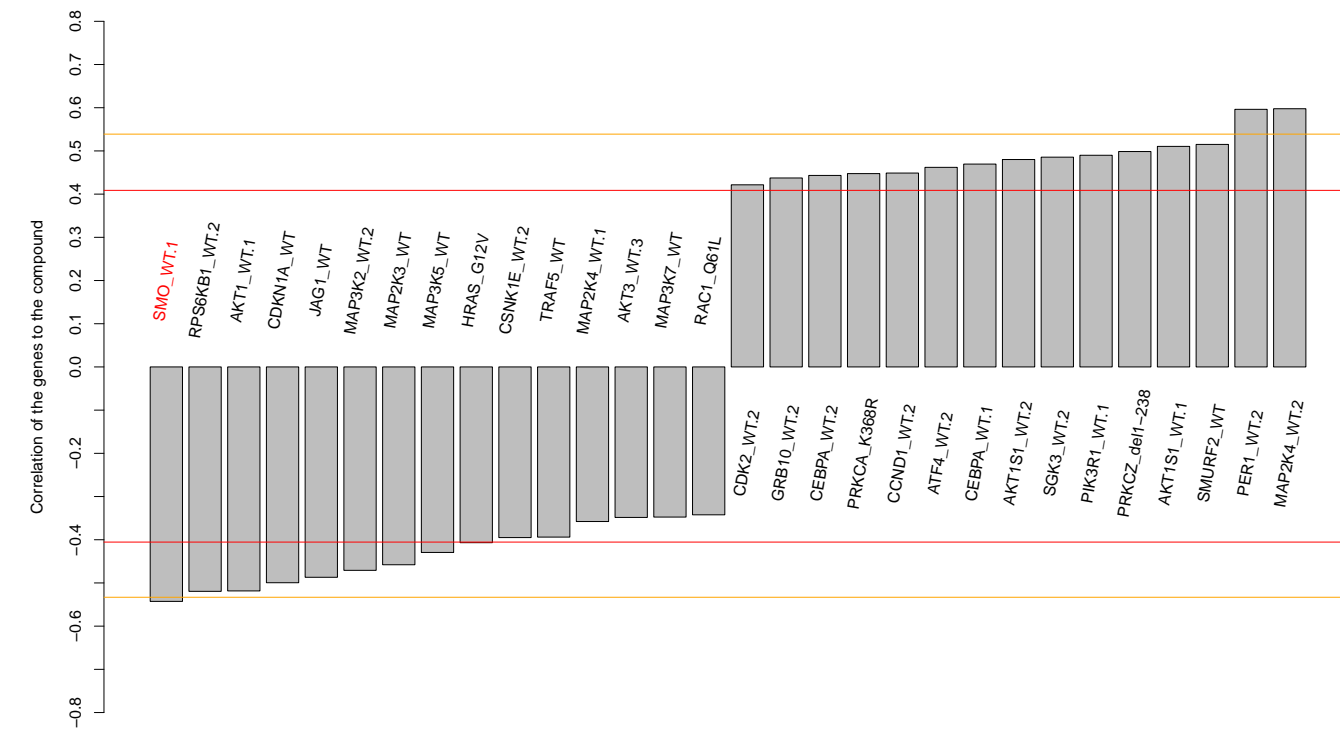
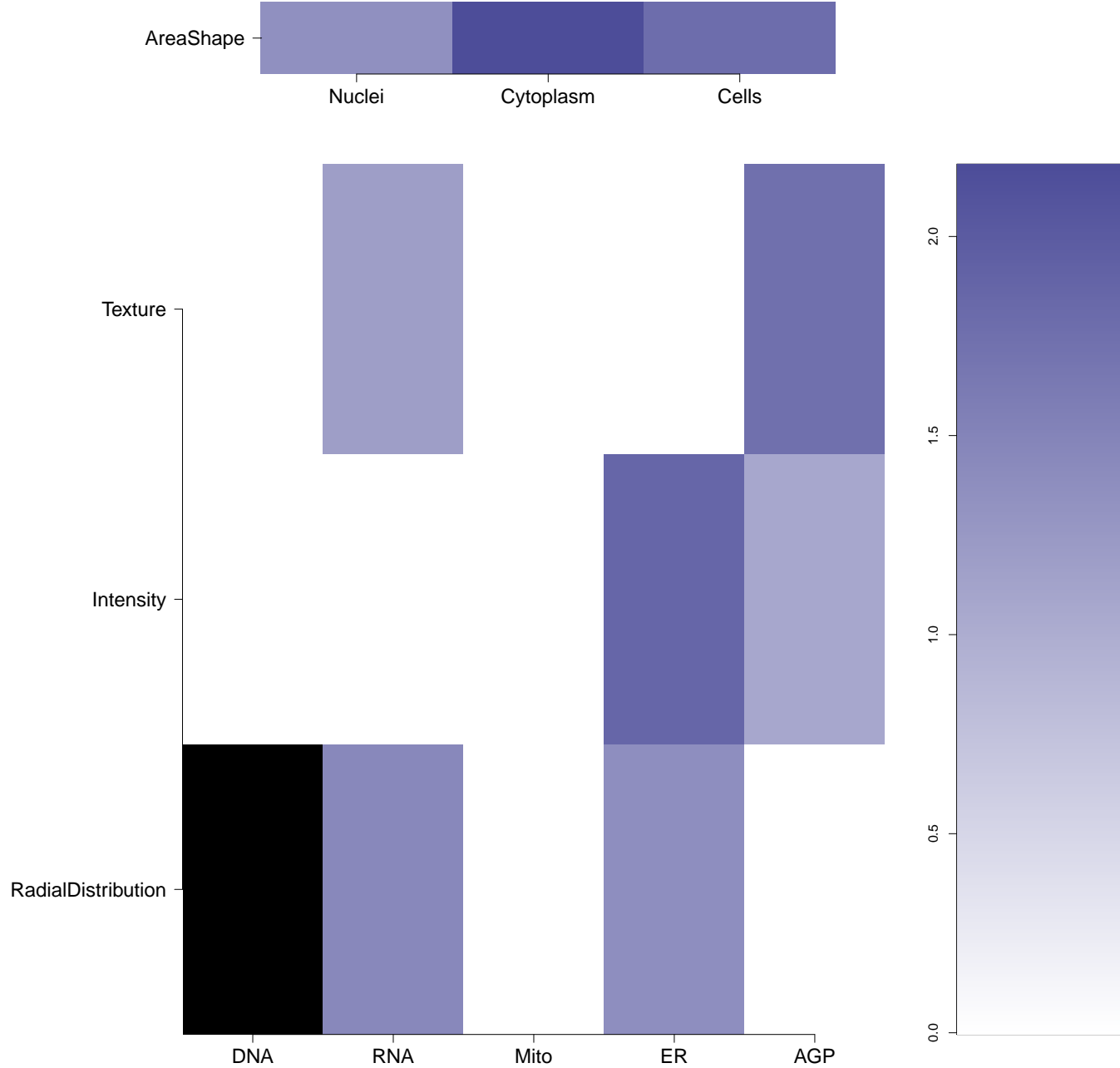

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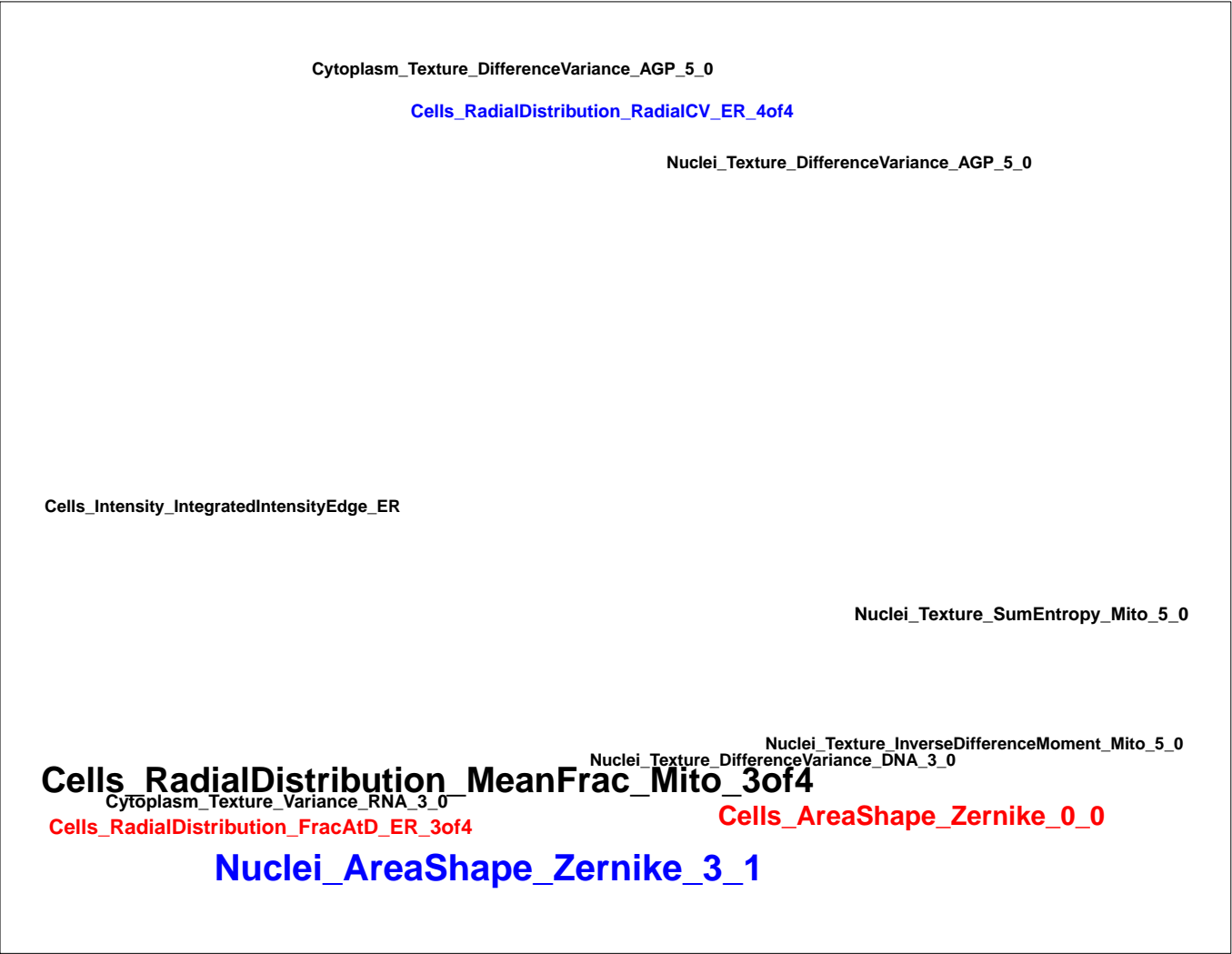
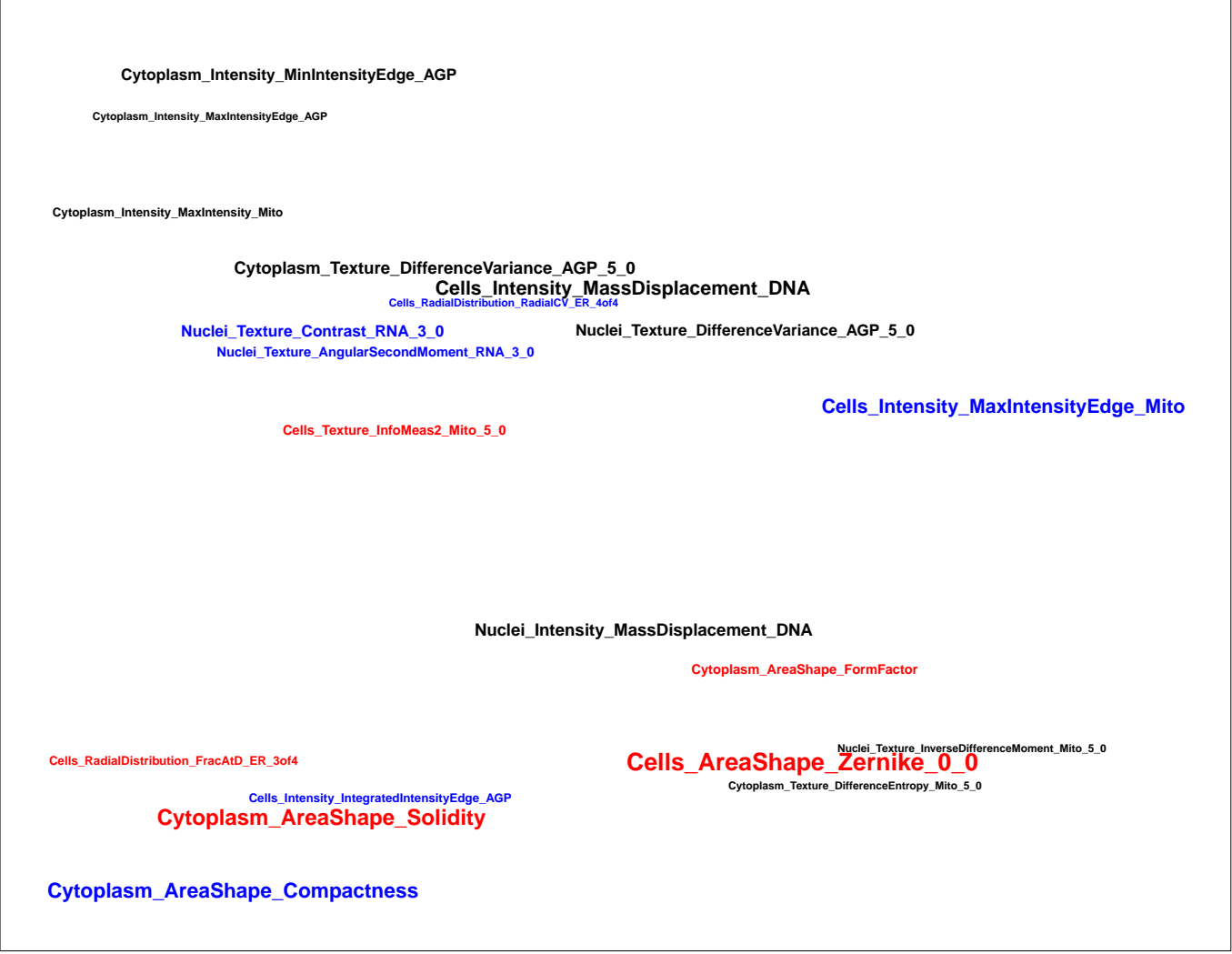


Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.51)	Correlation between compound 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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BRD-K70783031-001-01-2 PubChem CID : 54646032		NA (in 1 replicates)	0.57	0.660				Total number of assays tested in: 43.
BRD-K57588631-001-05-7 MLS000556050 BDBM84375 HMS2396P20 ZINC886616 ASN 02070029 SMR000172457 PubChem CID : 1143072		NA (in 1 replicates)	0.54	NA				Total number of assays tested in: 668. Active in the following assays: <ul style="list-style-type: none">• nHTS identification of compounds inhibiting the binding between the RUNX1 Runt domain and CBFb via a fluorescence resonance energy transfer (FRET) assay. (AID 1496)• nHTS HTFRF assay for identification of inhibitors of SUMOylation (AID 2006)• AlphaScreen confirmatory assay for validation of inhibitors of SUMOylation (AID 2018)• Counterscreen for inhibitors of PP5: fluorescence-based biochemical high throughput primary assay to identify inhibitors of Protein Phosphatase 1 (PP1). (AID 2335)• Fluorescence-based biochemical high throughput confirmation assay to identify inhibitors of Protein Phosphatase 1 (PP1) (AID 2358)• VP16 countercreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546)• qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)• Luminescence-based primary cell-based high throughput screening assay to identify activators of the Aryl Hydrocarbon Receptor (AHR) (AID 2796)• FRET-based cell-based primary high throughput screening assay to identify antagonists of the orexin 1 receptor (OX1R; HCRT1R) (AID 485270)• HTS to identify compounds that promote myeloid differentiation with MLPON compound set (AID 624256)• 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. stercoalis (sDAF-12) (AID 652126)
BRD-K65981470-001-01-7 PubChem CID : 54645815		0.56 (in 2 replicates)	0.51	0.660				Total number of assays tested in: 42.
BRD-K56426074-001-01-4 PubChem CID : 54633236		0.63 (in 4 replicates)	0.51	0.660				Total number of assays tested in: 37. Active in the following assays: <ul style="list-style-type: none">• DENV2 CPE-Based HTS Measured in Cell-Based and Microorganism Combination System Using Plate Reader - 2149-01.Other.SinglePoint.HTS.Activity (AID 651640)
BRD-K38862476-001-01-7 PubChem CID : 54641220		0.71 (in 2 replicates)	0.50	NA				Total number of assays tested in: 39.
BRD-K69930474-001-02-4 MLS003129778 SMR001834224 PubChem CID : 44486341		0.55 (in 3 replicates)	0.49	0.977				Total number of assays tested in: 227. Active in the following assays: <ul style="list-style-type: none">• S100A4: HTS Measured in Biochemical System Using Plate Reader - 7045-01.Inhibitor.SinglePoint.HTS.Activity (AID 652163)

BRD-K51490301-001-05-1 ZINC00674924 AC1LK80Z MLS000700791 ARONIS002536 HMS2558G19 ZINC674924 STK075084 SMR000228764 ST040052 PubChem CID : 1013803		0.57 (in 4 replicates)	0.49	0.771				Total number of assays tested in: 602. Active in the following assays: <ul style="list-style-type: none"> HTS to identify inhibitors of zVAD Induced Cell Death in L929 Cells. (AID 1377) Fluorescence-based biochemical high throughput primary assay to identify inhibitors of phospholipase C isozymes (PLC-beta3). (AID 720704)
BRD-K88467167-001-01-8 PubChem CID : 54638070		0.73 (in 3 replicates)	0.48	0.075				Total number of assays tested in: 35.
BRD-A70267707-003-05-8 MLS000712052 SMR000281819 PubChem CID : 16192715		0.58 (in 4 replicates)	0.46	NA				Total number of assays tested in: 631. Active in the following assays: <ul style="list-style-type: none"> Leishmania major promastigote HTS (AID 1063) Primary cell-based high-throughput screening assay for identification of compounds that inhibit/block inward-rectifying potassium ion channel Kir2.1 (AID 1672) Fluorescence-based primary cell-based high throughput screening assay to identify antagonists of the G-protein coupled receptor 7 (GPR7). (AID 1861) High throughput discovery of novel modulators of ROMK K+ channel activity: Retest of Primary Hits (AID 1917) High throughput discovery of novel modulators of ROMK K+ channel activity: Primary Screen (AID 1918) Fluorescence-based confirmation cell-based high throughput screening assay to identify antagonists of the G-protein coupled receptor 7 (GPR7). (AID 1952) Fluorescence-based counterscreen for antagonists of the G-protein coupled receptor 7 (GPR7): cell-based high throughput screening assay to identify antagonists of the melanin-concentrating hormone receptor 1 (MCHR1). (AID 2148) VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) High throughput screening of inhibitors of transient receptor potential cation channel C6 (TRPC6) (AID 2553) Primary cell-based high-throughput screening assay for identification of compounds that potentiate/activate regulator of G-protein signaling 4 (RGS4) (AID 463111) uHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346) Specificity screen against TRPC4 for compounds that modulate transient receptor potential cation channel C6 (TRPC6) (AID 488927) Confirmatory screen for identification of compounds that inhibit transient receptor potential cation channel C6 (TRPC6) (AID 488960) Single concentration confirmation of uHTS for Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 489028) HTS for Beta-2AR agonists via FAP method (AID 504454) Single concentration confirmation of inhibitors of Mdm2/MdmX interaction using a Full-Length Luciferase Counterscreen assay (AID 504607) Antagonist of Human D 1 Dopamine Receptor: qHTS (AID 504652) Allosteric Agonists of the Human D1 Dopamine Receptor: qHTS (AID 504660) Single concentration confirmation of inhibitors of Mdm2/MdmX interaction using a Bead/Bead BILC Counterscreen assay. (AID 504668) HTS Assay for Peg3 Promoter Inhibitors (AID 588405) Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human M1 muscarinic receptor (CHRM1) (AID 588852) Validation assay for identification of compounds that activate the regulator of G-protein signaling 4 (RGS4) (AID 602282) Counter screen for identification of compounds that activate the regulator of G-protein signaling 4 (RGS4): Non-induced cells with the primary screen assay (AID 602283) uHTS identification of modulators of interaction between CendR and NRP-1 using Fluorescence Polarization assay (AID 602438) uHTS identification of small molecule inhibitors of the mitochondrial permeability transition pore via an absorbance assay (AID 602440) Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human cholinergic receptor, muscarinic 5 (CHRM5) (AID 624040) Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human cholinergic receptor, muscarinic 4 (CHRM4) (AID 624125) qHTS of GLP-1 Receptor Inverse Agonists (Inhibition Mode) (AID 624417) qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820) 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-DBDK 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 KCHN2 3.1: Mutant qHTS (AID 720553) qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta, AlphaLISA Primary Screen (AID 743279)
BRD-K24550549-001-01-7 PubChem CID : 54645874		NA (in 1 replicates)	0.46	0.919				Total number of assays tested in: 42. Active in the following assays: <ul style="list-style-type: none"> ARNT-TACS: AlphaScreen HTS to detect disruption of ARNT/TACS interactions Measured in Biochemical System Using Plate Reader - 2158-01 Inhibitor.SinglePoint.HTS Activity (AID 623870)

BRD-K15234779-001-01-0 PubChem CID : 44489816		0.55 (in 3 replicates)	-0.62	0.815				Total number of assays tested in: 50.
BRD-K56300782-001-01-4 PubChem CID : 54641200		NA (in 1 replicates)	-0.59	NA				Total number of assays tested in: 37.
BRD-K36559317-001-05-5 AC1LD9JP MLS000030586 HMS2409K08 ASN 03157167 SMR000002065 PubChem CID : 644574		NA (in 1 replicates)	-0.58	NA				Total number of assays tested in: 773. Active in the following assays: <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) Profiling the NIH Molecular Libraries Small Molecule Repository: Autofluorescence at 339/460 nm (AID 709) qHTS Assay for Inhibitors of HADH2 (Hydroxyacyl-Coenzyme A Dehydrogenase, Type II) (AID 886) qHTS Assay for Inhibitors of HSD17B4, hydroxysteroid (17-beta) dehydrogenase 4 (AID 889) MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) Primary qHTS for delayed death inhibitors of the malarial parasite plasmod, 48 hour incubation (AID 504832) Fluorescence-based biochemical primary high throughput screening assay to identify inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 588726) qHTS of Nrf2 Activators (AID 624171) Fluorescence-based biochemical high throughput confirmation assay for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 651616) qHTS of TDP-43 Inhibitors (AID 652104) Counterscreen for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis: Fluorescence-based biochemical high throughput Glycero-phosphate Dehydrogenase-Trisphosphate Isomerase (GDB-TPI) assay to identify assay artifacts (AID 652141)
BRD-K90151990-001-06-6 MLS000662211 SMR000293640 F2798-0020 ZINC01110821 AC1LPLEJ BDBM57814 HMS2658J20 ZINC1110821 STL270203 PubChem CID : 1289321		0.52 (in 4 replicates)	-0.56	0.856				Total number of assays tested in: 621. Active in the following assays: <ul style="list-style-type: none"> MLPCN Streptokinase Expression Inhibition (AID 1662) Luminescence Microorganism-Based Dose Confirmation HTS to Identify Compounds Cytotoxic to SK(-)GAS Group A Streptococcus (AID 1900) Luminescence Microorganism-Based Dose Confirmation HTS to Identify Inhibitors of Streptokinase Promotor Activity (AID 1902) Luminescence Microorganism-Based Dose Response HTS to Identify Compounds Cytotoxic to Streptococcus (AID 1915)
BRD-K68627737-001-05-3 MLS000566856 AC1LKHVJ HMS2543J17 ZINC681218 STK390224 ZINC00681218 BAS 03602441 SMR000178061 ST50272858 PubChem CID : 1018666		NA (in 1 replicates)	-0.55	NA				Total number of assays tested in: 638. Active in the following assays: <ul style="list-style-type: none"> Screen for Chemicals that Inhibit the RAM Network (AID 868) qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) Phenotypic HTS multiplex for antifungal efflux pump inhibitors (AID 485275) qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) Antagonist of Human D 1 Dopamine Receptor: qHTS (AID 504652) qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)
BRD-K90460185-001-01-7 PubChem CID : 54634100		0.74 (in 3 replicates)	-0.54	0.069				Total number of assays tested in: 36.
BRD-K31825071-001-01-0 PubChem CID : 54618917		0.60 (in 3 replicates)	-0.54	0.761				Total number of assays tested in: 38.

BRD-K56259876-001-01-9 PubChem CID : 54641223		NA (in 1 replicates)	-0.54	NA				Total number of assays tested in: 38.
BRD-A54114329-001-06-2 AC1MYL1J MLS003902948 HMS2955105 STL057683 ST50178312 T6107104 PubChem CID : 3833515		NA (in 1 replicates)	-0.54	NA				<div>Total number of assays tested in: 501. Active in the following assays:</div> <ul style="list-style-type: none">Fluorescent Polarization Homogeneous Dose Response HTS to Identify Inhibitors of Mex-5 Binding to TCR-2 (AID 1960)Counterscreen for inhibitors of PP5: fluorescence-based biochemical high throughput primary assay to identify inhibitors of Protein Phosphatase 1 (PP1). (AID 2235)TR-FRET-based primary biochemical high throughput screening assay to identify agonists of nuclear receptor subfamily 2, group E, member 3 (NR2E3). (AID 2300)TR-FRET-based biochemical high throughput confirmation assay for agonists of nuclear receptor subfamily 2, group E, member 3 (NR2E3) (AID 2379)qHTS Assay for Agonists of the Relaxin Receptor RXFP1 (AID 2676)Counterscreen for agonists of nuclear receptor subfamily 2, group E, member 3 (NR2E3): TR-FRET-based biochemical high throughput dose response assay to identify agonists of the interaction between peroxisome proliferator-activated receptor gamma (PPARγ) and nuclear receptor co-repressor 2 (NCOR2) (AID 2759)qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)Counterscreen for agonists of nuclear receptor subfamily 2, group E, member 3 (NR2E3): TR-FRET-based biochemical high throughput assay to identify agonists of the interaction between peroxisome proliferator-activated receptor gamma (PPARγ) and nuclear receptor co-repressor 2 (NCOR2) (AID 504787)Inhibitors of Y. pestis Topo-I using cleavage product accumulation Measured in Biochemical System Using Plate Reader - 2123-01 Inhibitor.SinglePoint.HTS.Activity (AID 504884)Inhibitors of Y. pestis Topo-I using cleavage product accumulation Measured in Biochemical System Using Plate Reader - 2123-01 Inhibitor.Dose.CherryPick.Activity (AID 588525)Primary and Confirmatory Screening for Flavivirus Genomic Capping Enzyme Inhibition (AID 588689)A quantitative high throughput screen for small molecules that induce DNA re-replication in MCF 10a normal breast cells. (AID 624296)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)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-K45664515-001-01-1 PubChem CID : 54641261		NA (in 1 replicates)	-0.52	NA				Total number of assays tested in: 39.