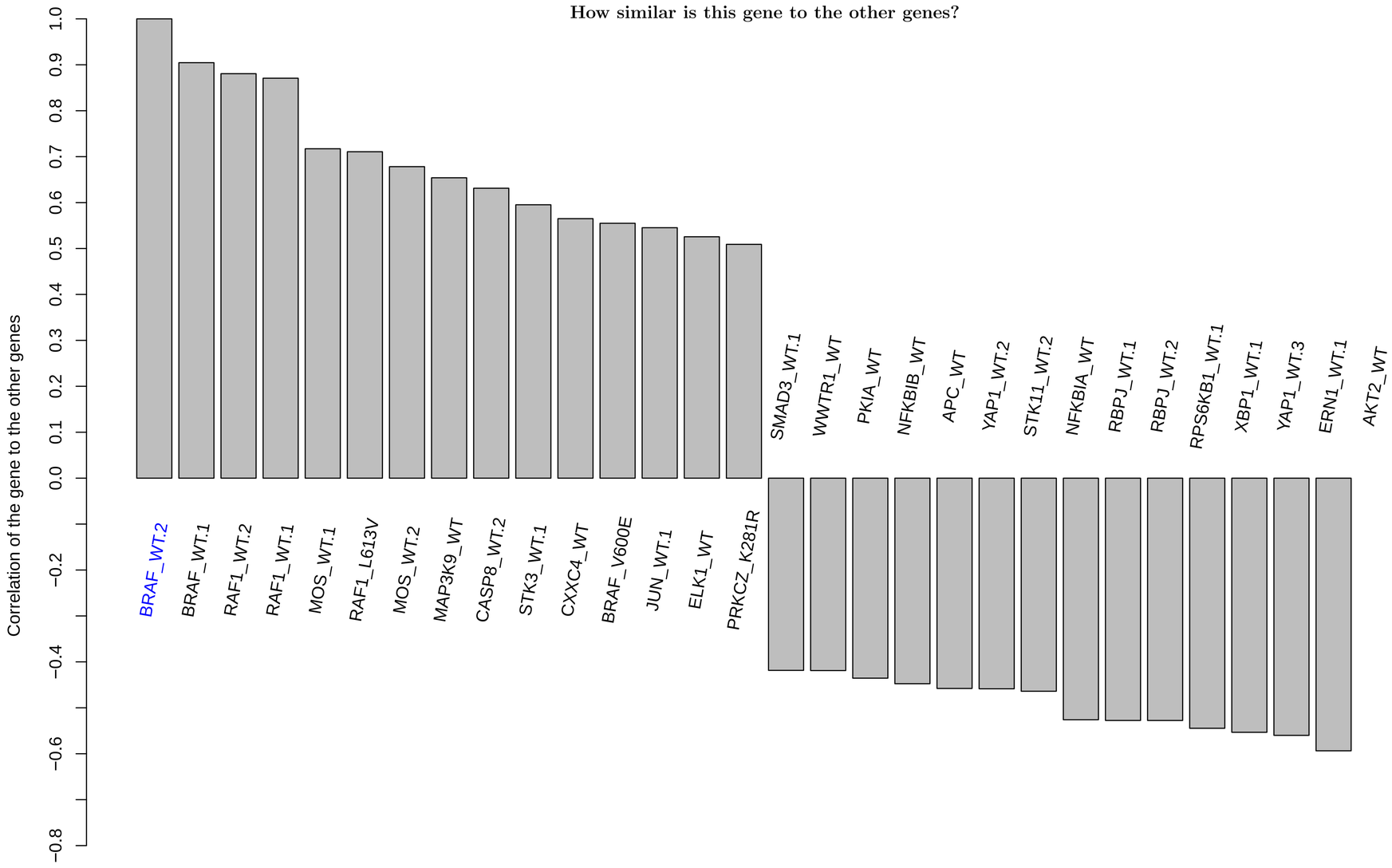
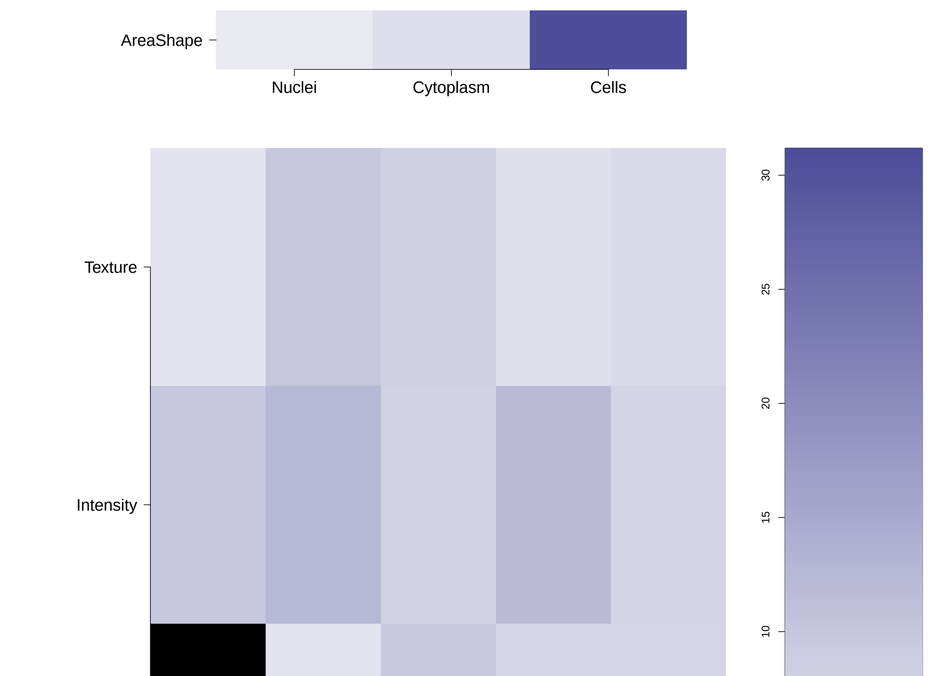
CONFIDENTIAL, contact the Imaging Platform to collaborate on the findings herein

BRAF_WT.2 - in Canonical MAPK

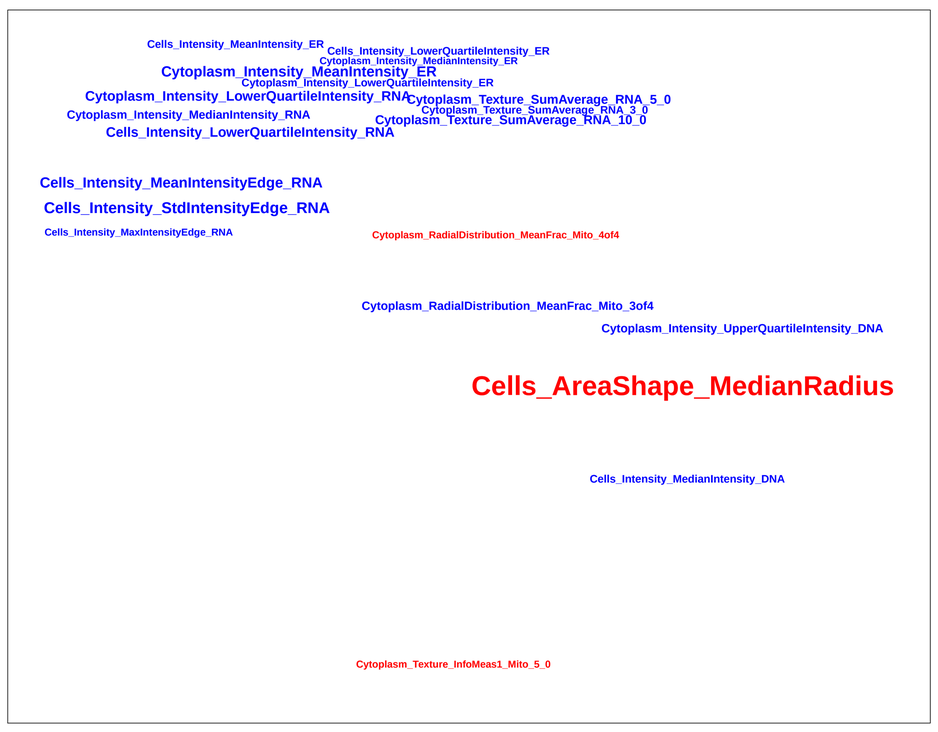
How similar is this gene to the other genes?

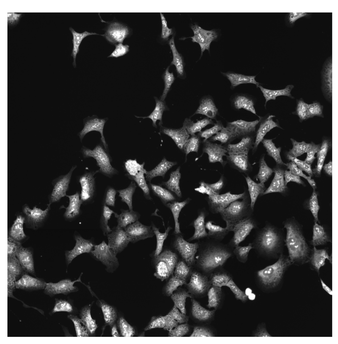
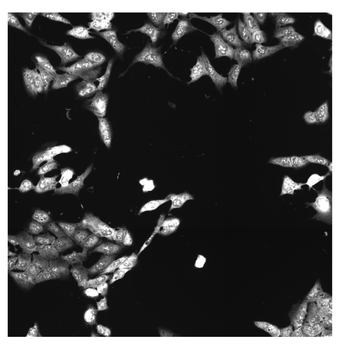
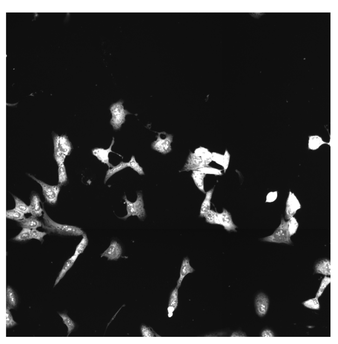
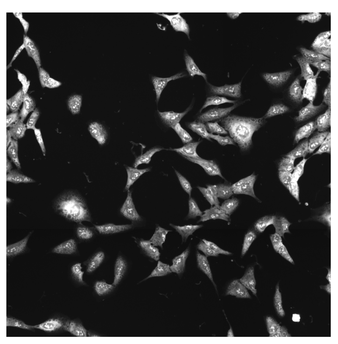
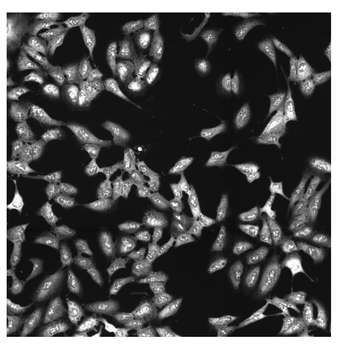
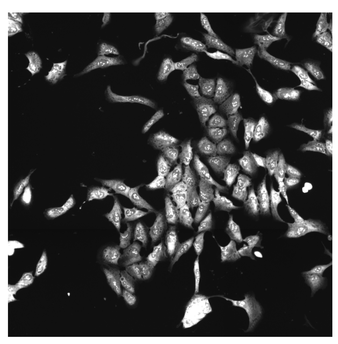
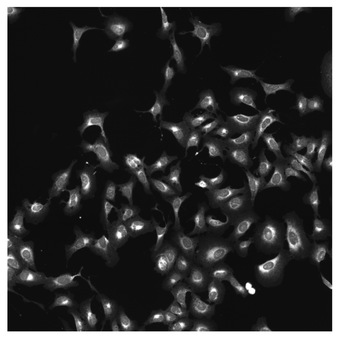
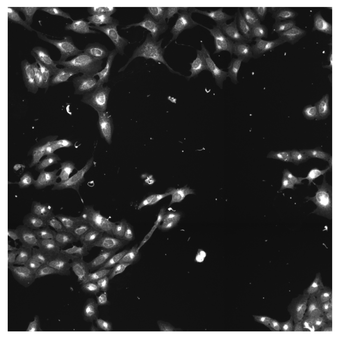
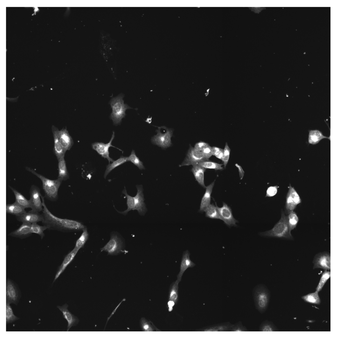
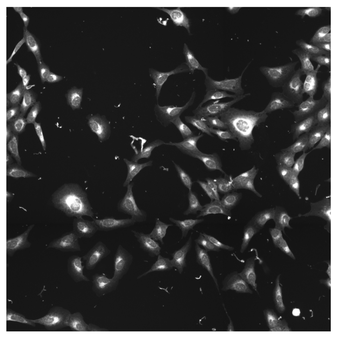
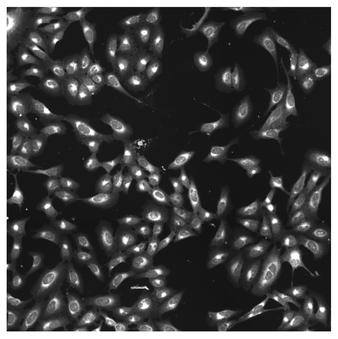
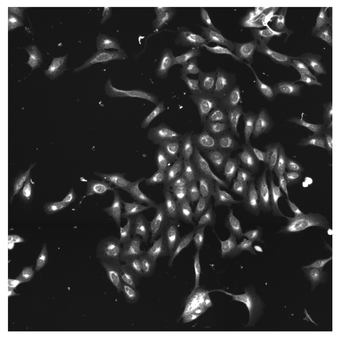


What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the category

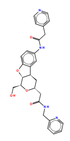
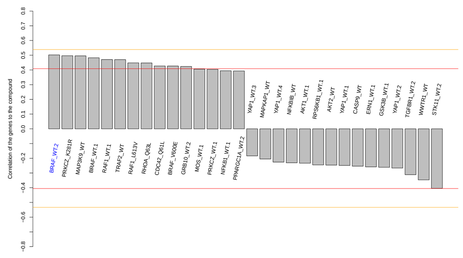
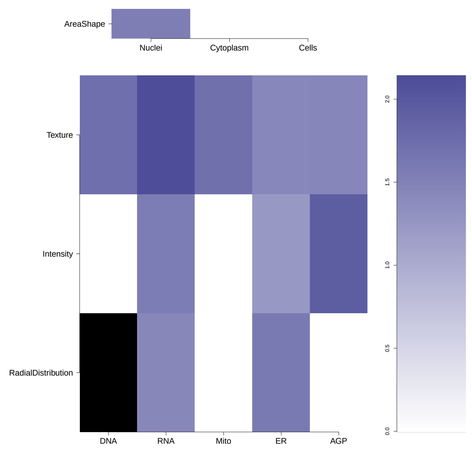
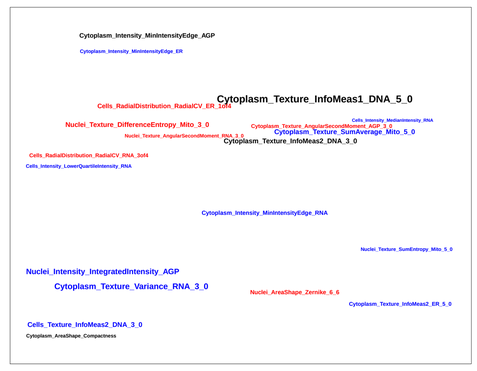
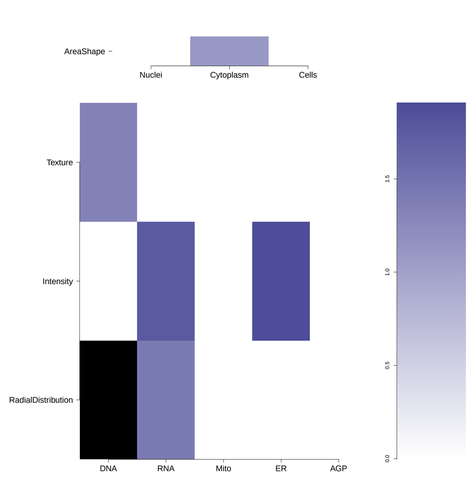
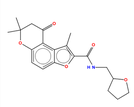
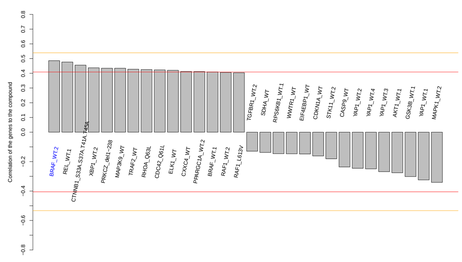
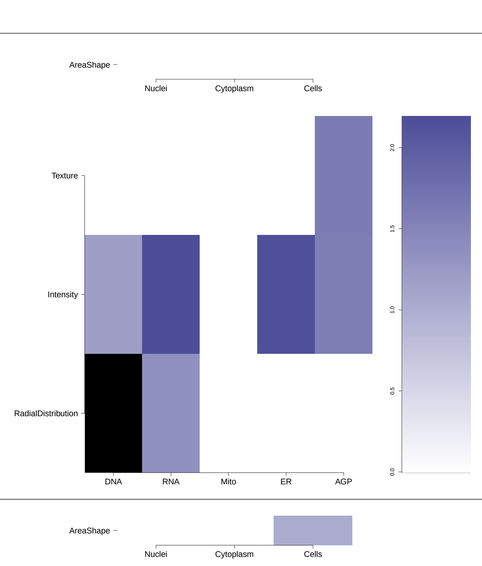
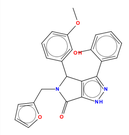
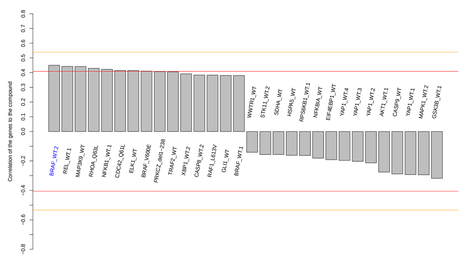
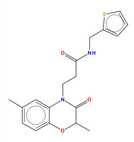
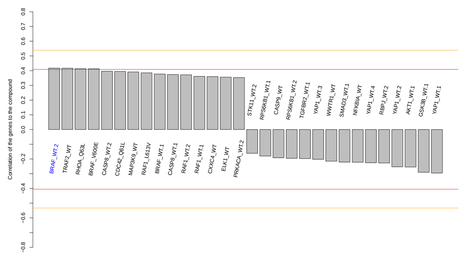
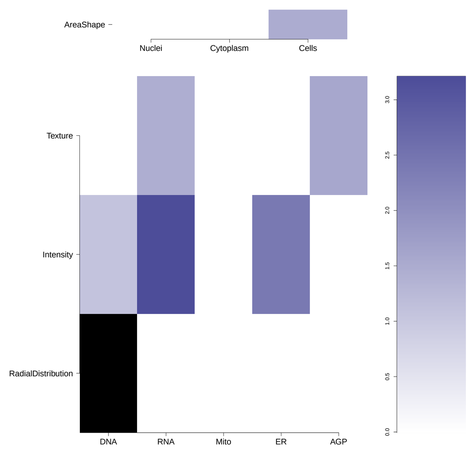
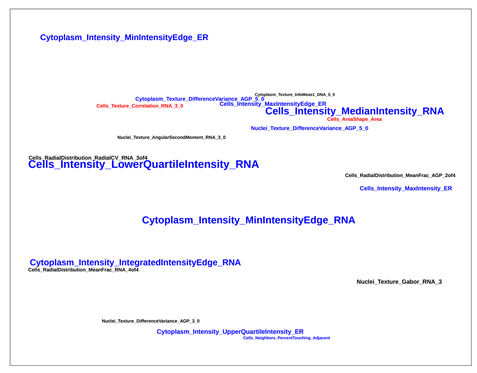
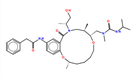
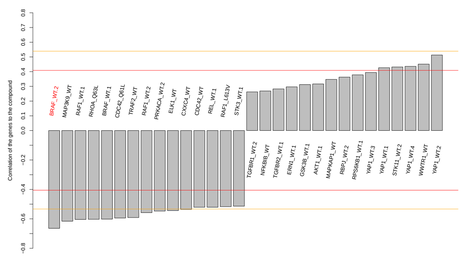
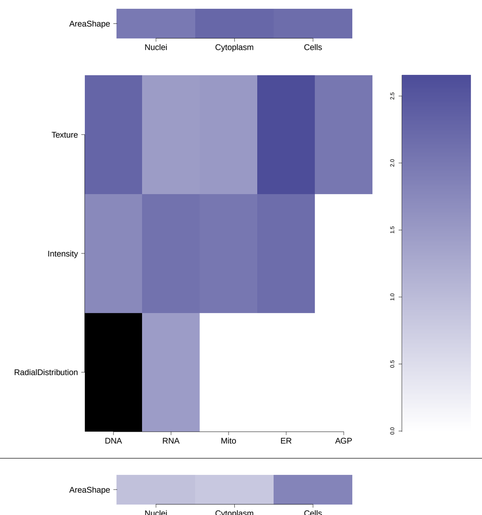
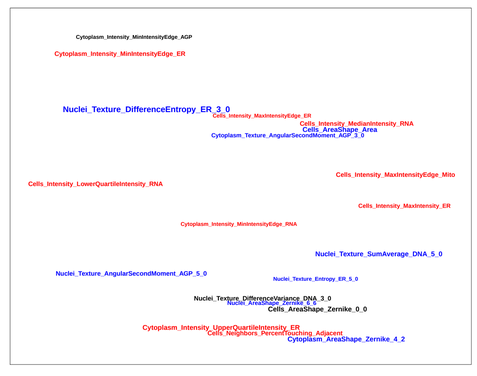
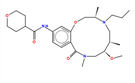
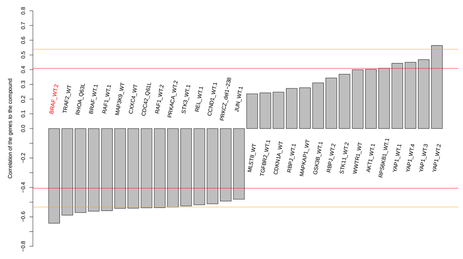
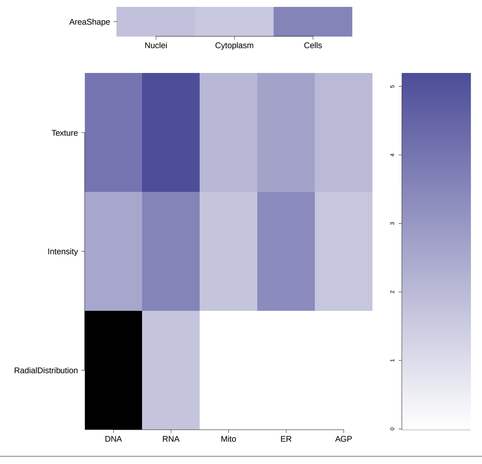


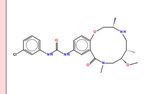
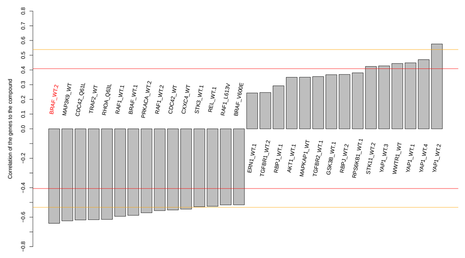
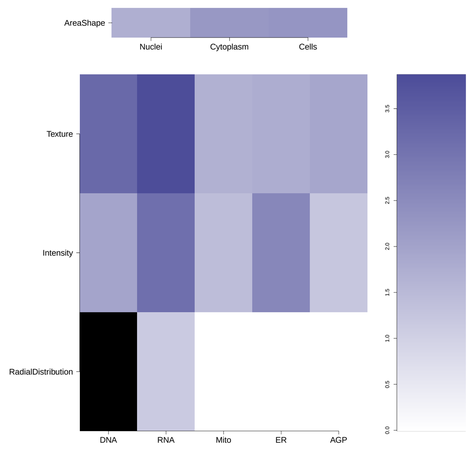
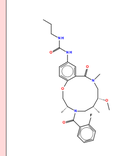
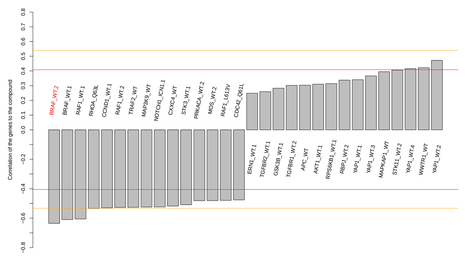
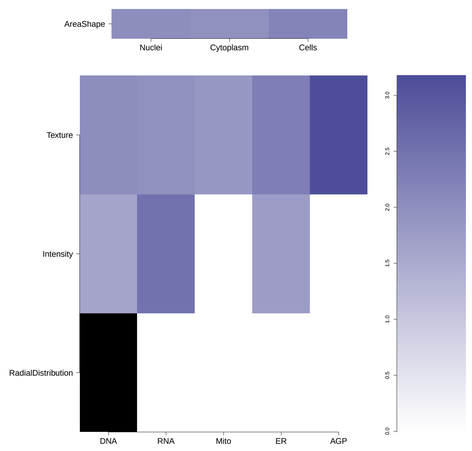
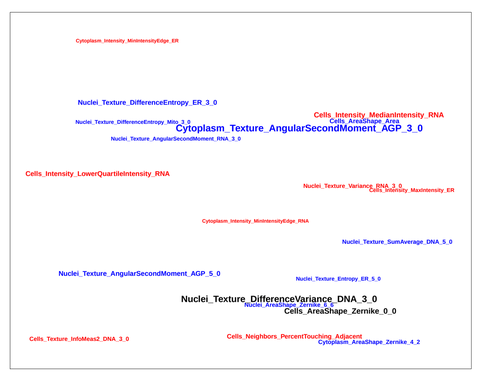
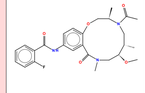
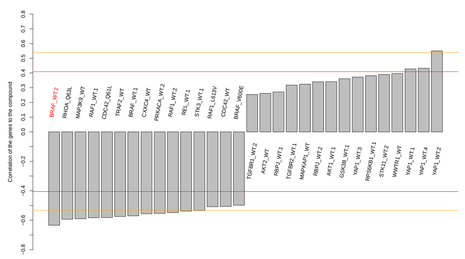
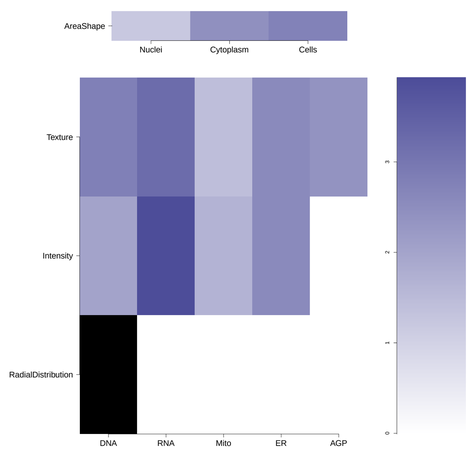
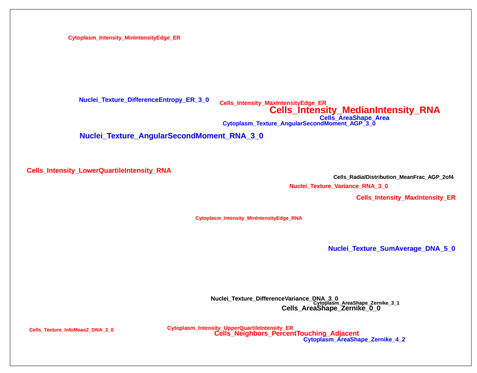
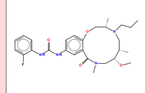
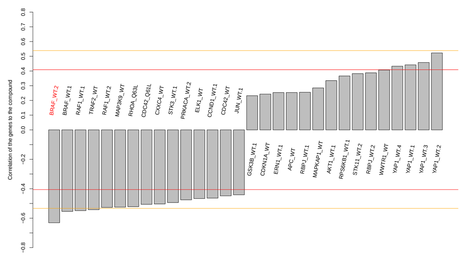
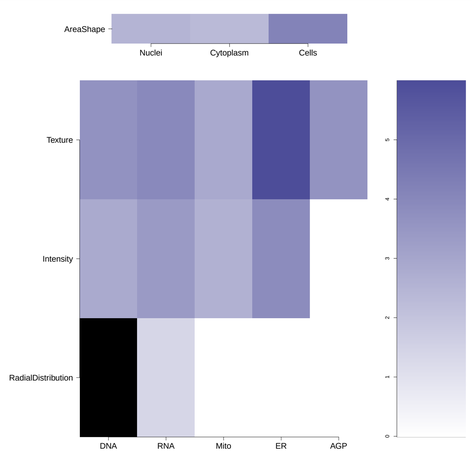
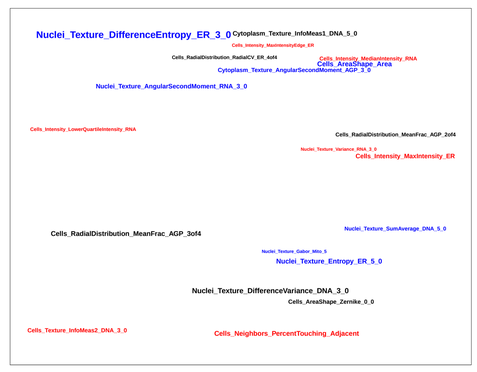
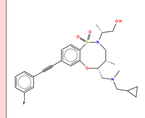
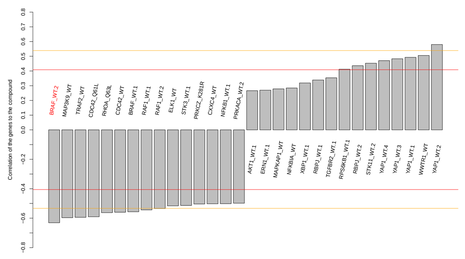
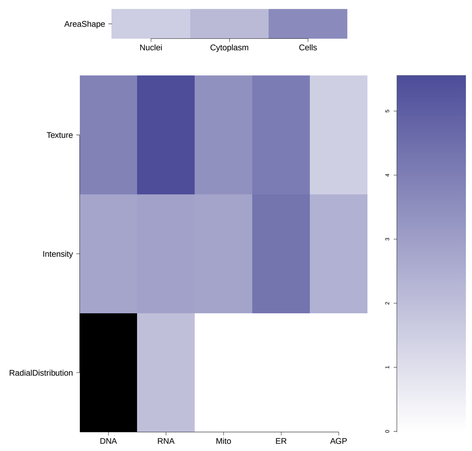
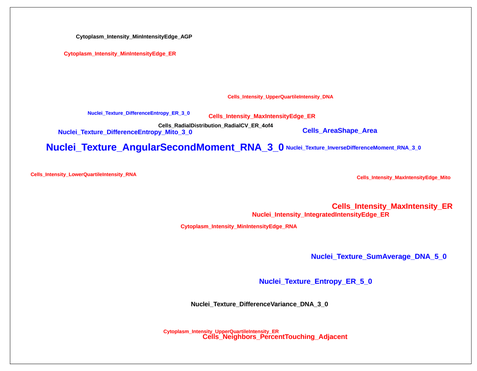
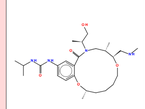
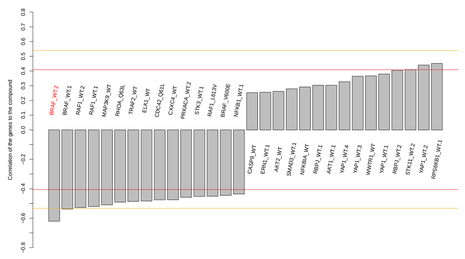
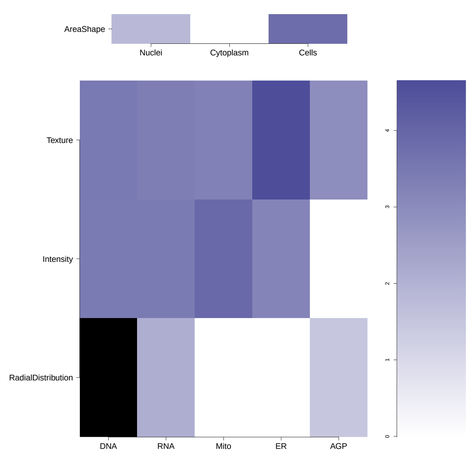
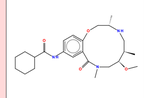
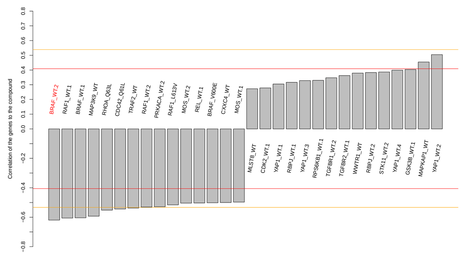
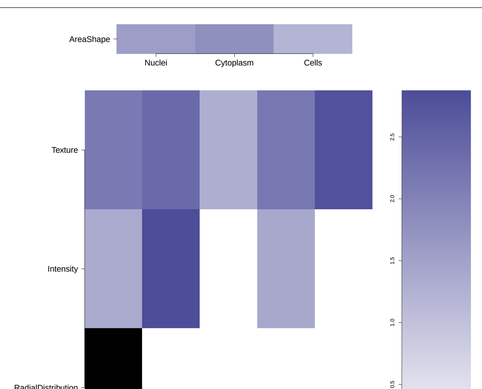
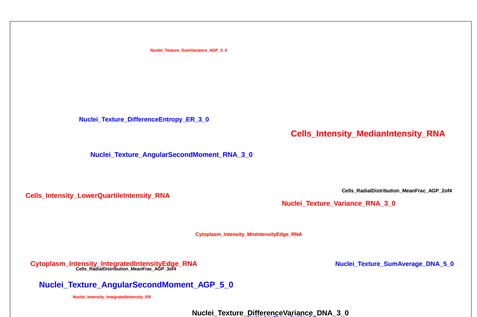
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

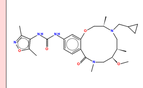
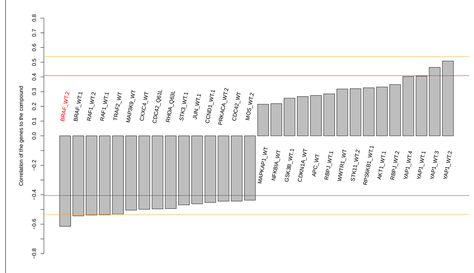
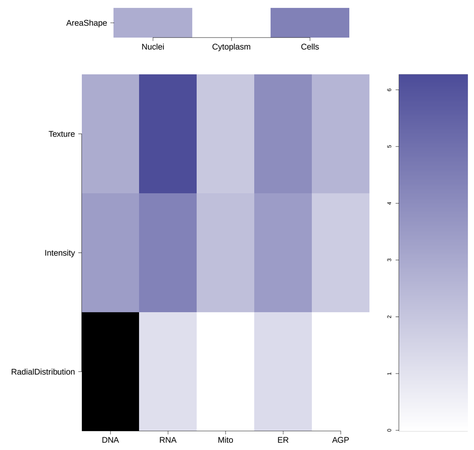


	Empty	BRAF_WT.2 (41744)	BRAF_WT.2 (41755)	BRAF_WT.2 (41756)	BRAF_WT.2 (41757)	BRAF_WT.2 (41754)
RNA						
ER						

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

BRD-K09787095-001-01-2 PubChem CID : 54646572		0.78 (in 4 replicates)	0.50	0.720				Total number of assays tested in: 36.
BRD-A29599024-001-05-6 MLS000093640 SMR000029258 AC1MMHP9 BDBM48136 HMS2167G15 HMS3324K01 CCG-32434 PubChem CID : 3238928		0.61 (in 4 replicates)	0.49	NA				Total number of assays tested in: 748. Active in the following assays: • Primary Cell-based High Throughput Screening assay for activators of the nuclear receptor Steroidogenic Factor 1 (SF-1) (AID 522) • Luminescent HTS for small molecule inhibitors of MT1-MMP transcription (AID 618) • Profiling the NIH Molecular Libraries Small Molecule Repository: Autofluorescence at 339/460 nm (AID 709) • Counter Screen for Luciferase-based Assay Positives (AID 773) • qHTS Assay for Inhibitors of HADH2 (Hydroxyacyl-Coenzyme A Dehydrogenase, Type II) (AID 886) • qHTS Screen for Compounds that Selectively Target Cancer Cells with p53 Mutations: Cytotoxicity of p53ts Cells at the Permissive Temperature (AID 924) • Primary cell-based high throughput screening assay to measure STAT1 activation (AID 932) • Counter Screen for Luciferase-based Primary Inhibition Assays (AID 1006) • High Throughput Screen to Identify Compounds that increase expression of NF-kB in Human Neuronal Cells - Primary Screen (AID 1239) • Confirmation cell-based high throughput screening assay to measure STAT1 activation (AID 1262) • Primary screen for compounds that activate Alzheimer's amyloid precursor (AID 1276) • Counterscreen assay for STAT1 activators: Cell-based high throughput assay to measure STAT3 activation (AID 1316) • Counterscreen for inhibitors of Janus kinase 2 mutant JAK2V617F: Cell-based high throughput assay to identify inhibitors of parental Ba/F3 cell viability. (AID 1486) • 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 profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • uHTS identification of inhibitors of cullin neddylation in a TR-FRET assay (AID 651699) • qHTS Assay for Activators of ClpP (AID 651965) • Luminescence-based cell-based primary high throughput screening assay to identify agonists of the DAF-12 from the parasite H. glycines (hgDAF-12). (AID 687014) • Luminescence-based cell-based high throughput confirmation assay to identify agonists of the DAF-12 from the parasite H. glycines (hgDAF-12). (AID 743050)
BRD-A29599024-001-05-6 MLS000093640 SMR000029258 AC1MMHP9 BDBM48136 HMS2167G15 HMS3324K01 CCG-32434 PubChem CID : 3238928		0.61 (in 4 replicates)	0.49	NA				
BRD-A06221803-001-05-1 MLS000779175 HMS2770E14 SMR000415794 PubChem CID : 16682073		0.53 (in 4 replicates)	0.45	NA				Total number of assays tested in: 571. Active in the following assays: • uHTS Luminescent assay for identification of activators of human intestinal alkaline phosphatase (AID 2524) • qHTS for Inhibitors of mutant isocitrate dehydrogenase 1 (IDH1): qHTS (AID 602179) • qHTS for Inhibitors of mutant isocitrate dehydrogenase 1 (IDH1): Confirmation of Cherrypicks (AID 624002)
BRD-A21569010-001-05-3 SMR000130393 AC1NG6WH MLS000519978 HMS2387M19 EU-0023305 PubChem CID : 4695008		0.54 (in 2 replicates)	0.42	NA				Total number of assays tested in: 679. Active in the following assays: • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732)
BRD-K86621086-001-01-0 PubChem CID : 44494594		0.79 (in 4 replicates)	-0.66	NA				Total number of assays tested in: 50. Active in the following assays: • HTS for the detection of C. neoformans cell lysis via adenylate kinase (AK) release Measured in Microorganism System Using Plate Reader - 2162-01_Inhibitor_SinglePoint_HTS_Activity (AID 651654)
BRD-K34425773-001-01-7 PubChem CID : 54632548		0.85 (in 4 replicates)	-0.64	0.022				Total number of assays tested in: 35.

BRD-K57140889-001-01-5 PubChem CID : 54632228		0.78 (in 4 replicates)	-0.64	0.280				Total number of assays tested in: 35.
BRD-K19019278-001-01-7 PubChem CID : 54631454		0.74 (in 4 replicates)	-0.64	0.280				Total number of assays tested in: 34.
BRD-K92096002-001-01-8 PubChem CID : 54632208		0.68 (in 4 replicates)	-0.63	0.206				Total number of assays tested in: 39. Active in the following assays: • DENV2 CPE-Based HTS Measured in Cell-Based and Microorganism Combination System Using Plate Reader - 2149-01_Other_SinglePoint_HTS_Activity (AID 651640) • MLPCN PGC1a Modulators Measured in Cell-Based System Using Plate Reader - 2139-01_Inhibitor_SinglePoint_HTS_Activity (AID 651687)
BRD-K22246751-001-01-7 PubChem CID : 54631914		0.83 (in 4 replicates)	-0.63	0.280				Total number of assays tested in: 31.
BRD-K13462310-001-01-5 PubChem CID : 54619306		0.88 (in 4 replicates)	-0.63	NA				Total number of assays tested in: 40.
BRD-K46295497-001-01-5 PubChem CID : 44495475		0.65 (in 4 replicates)	-0.62	NA				Total number of assays tested in: 43.
BRD-K16172779-001-01-1 PubChem CID : 54631934		0.76 (in 4 replicates)	-0.62	0.263				Total number of assays tested in: 39. Active in the following assays: • Inhibition of T.cruzi proliferation in culture Measured in Cell-Based System Using Plate Reader - 2138-01_Inhibitor_SinglePoint_HTS_Activity (AID 624255)

BRD-K72464155-001-01-7 PubChem CID : 54632230		0.82 (in 4 replicates)	-0.61	0.280				Total number of assays tested in: 35.