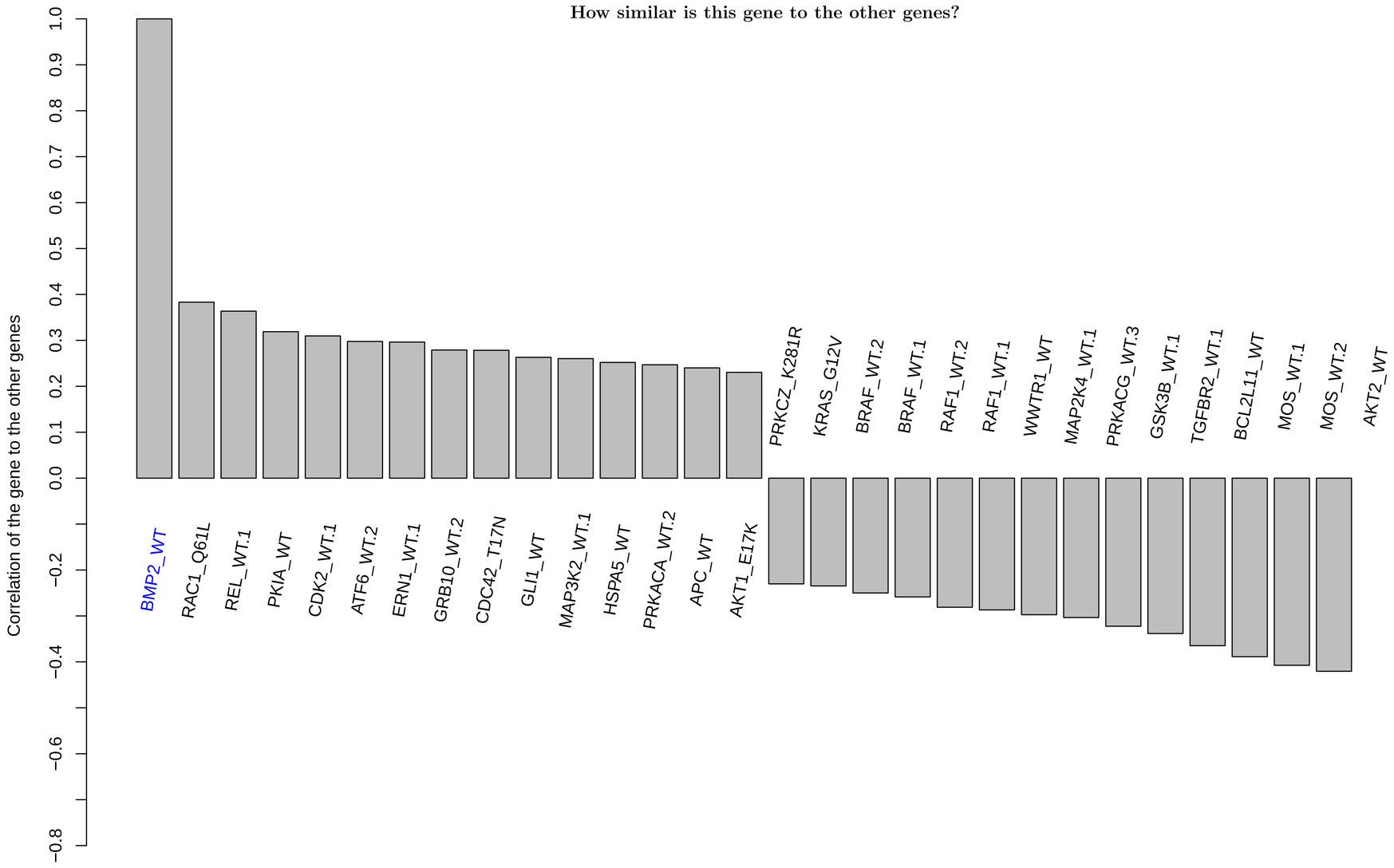
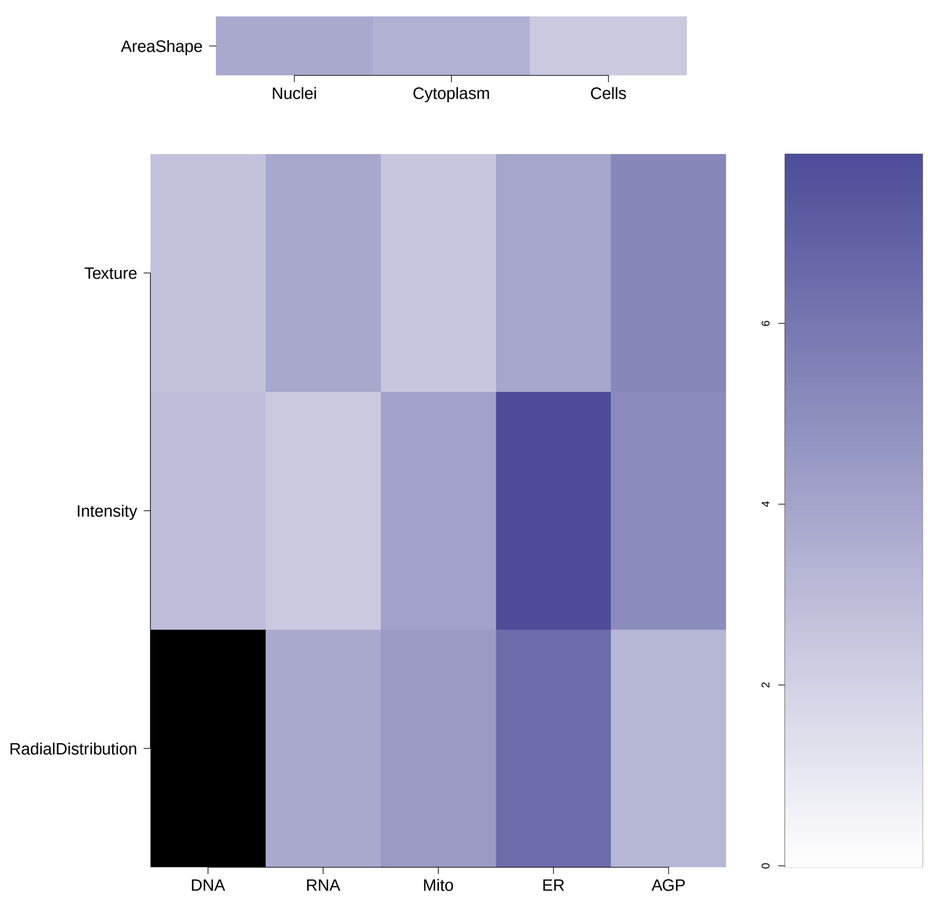
BMP2_WT - in Canonical BMP

How similar is this gene to the other genes?



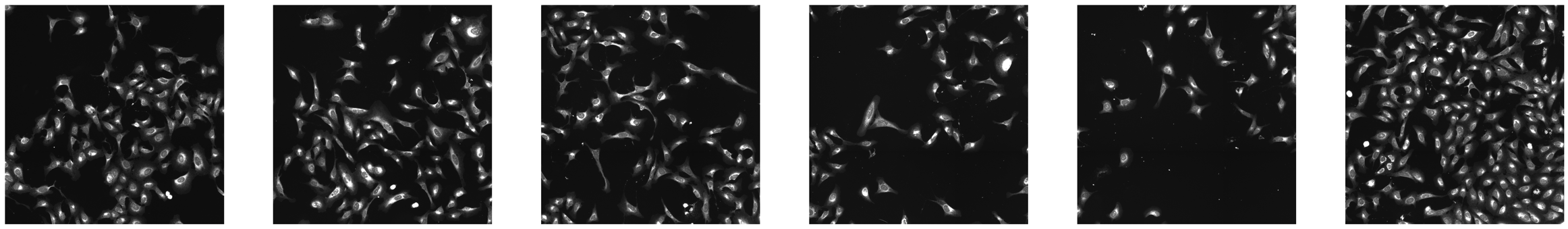
What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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



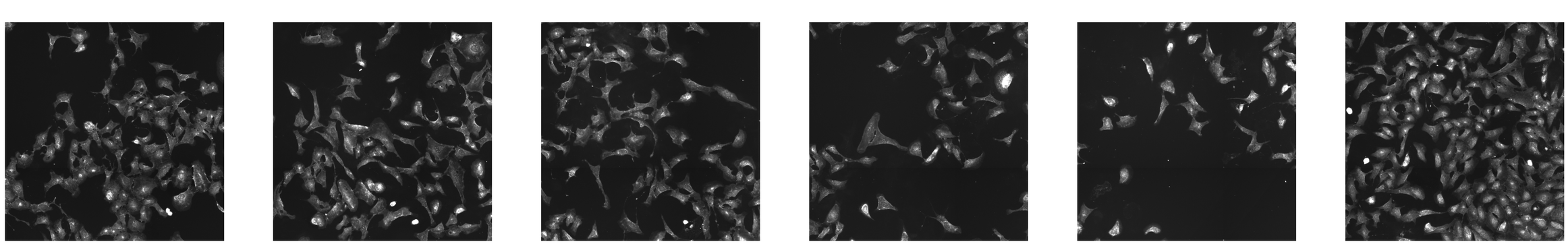
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

Empty | BMP2_WT (41744) | BMP2_WT (41755) | BMP2_WT (41756) | BMP2_WT (41757) | BMP2_WT (41754)

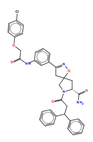
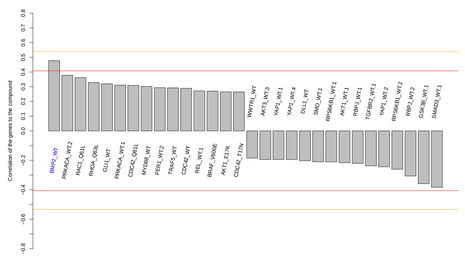
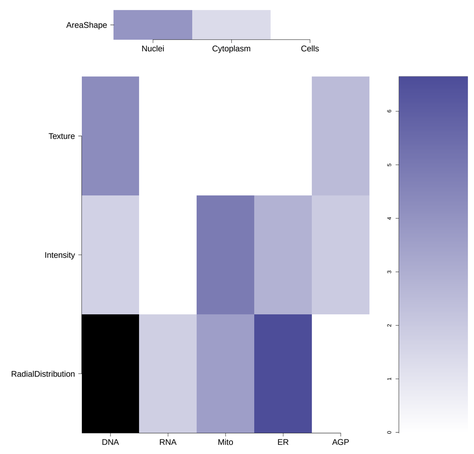
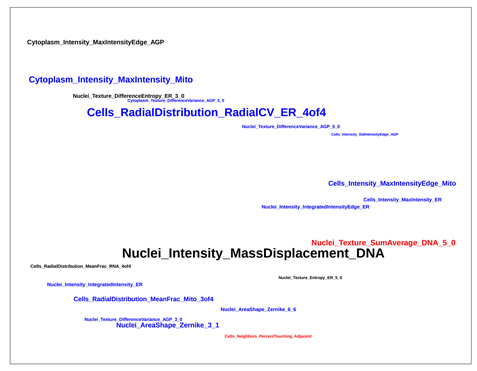
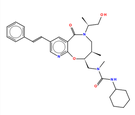
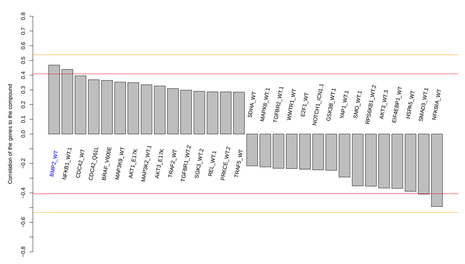
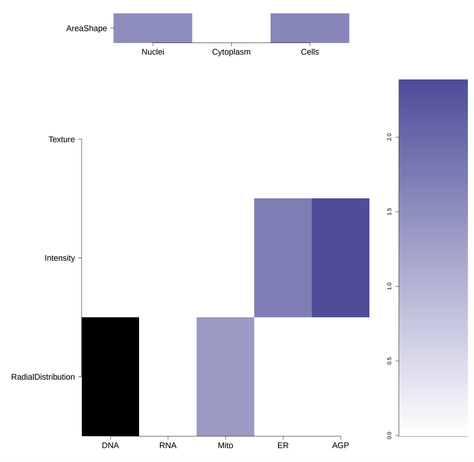
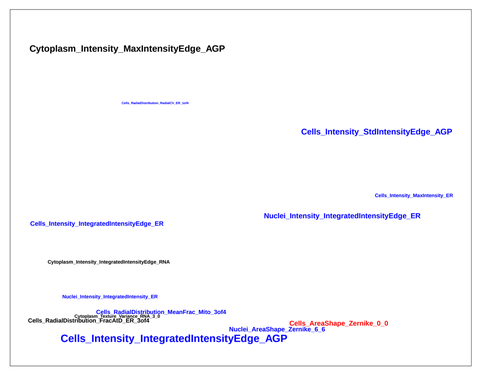
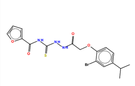
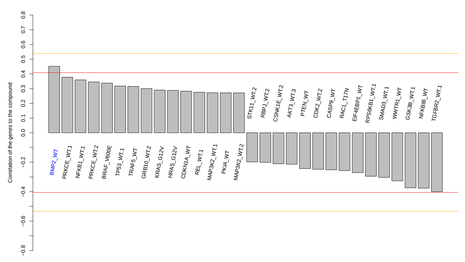
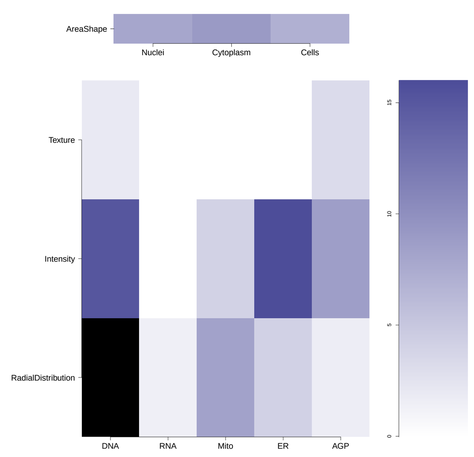
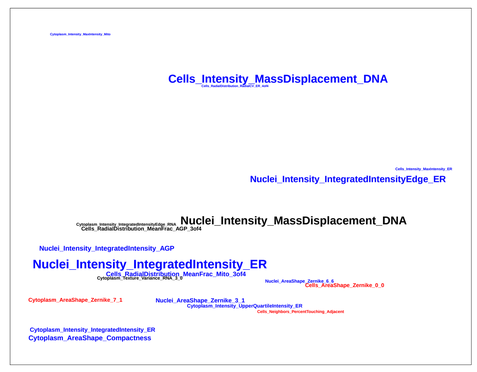
ER

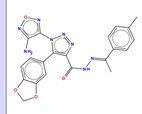
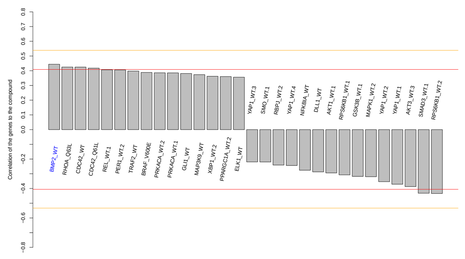
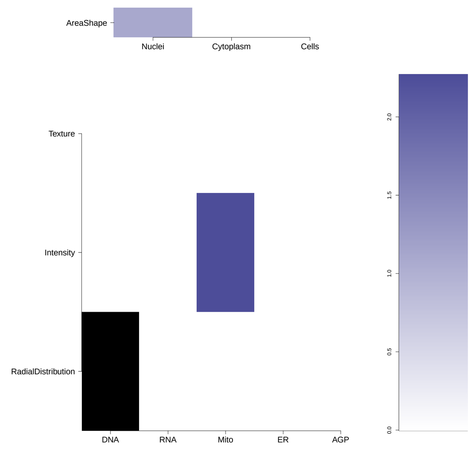
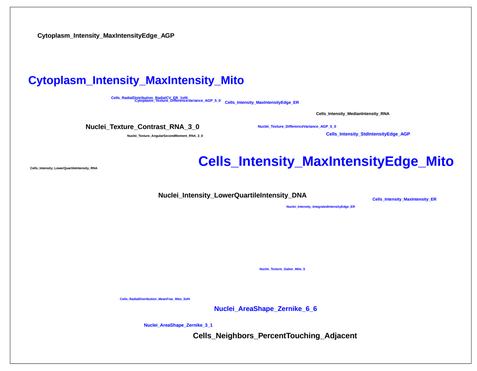
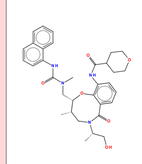
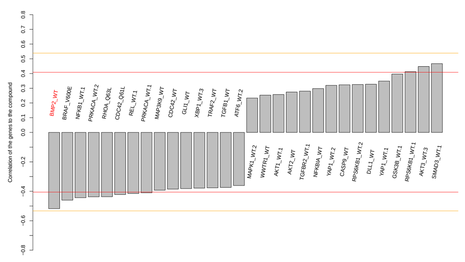
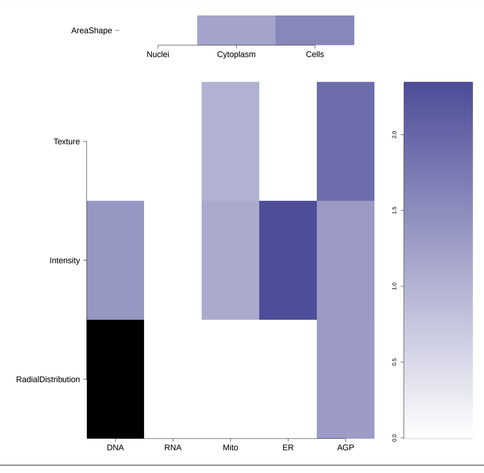
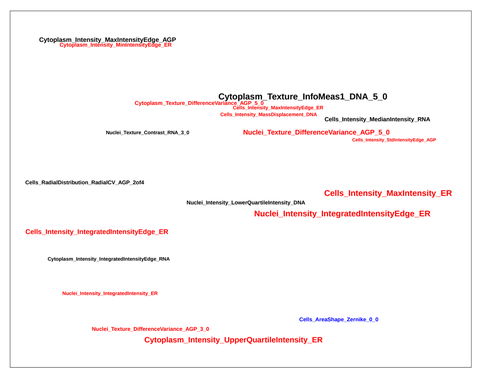
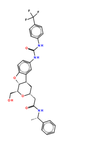
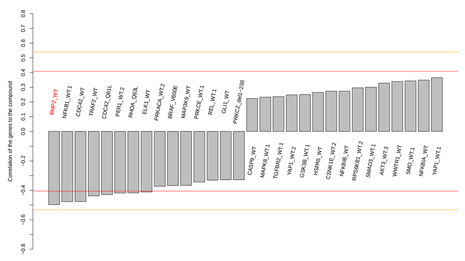
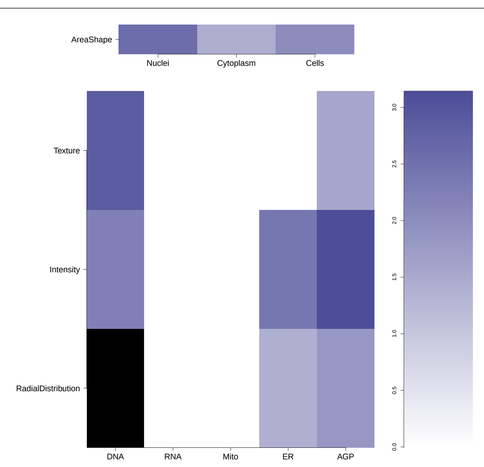
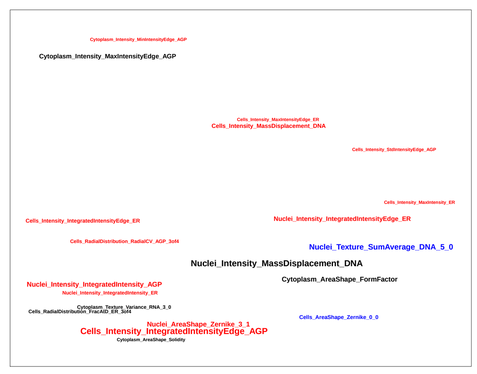
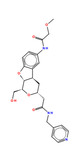
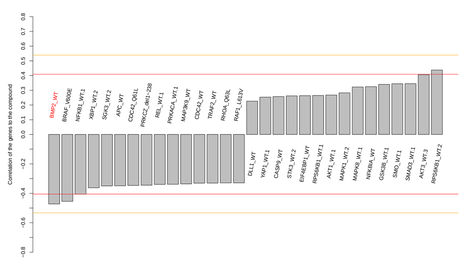
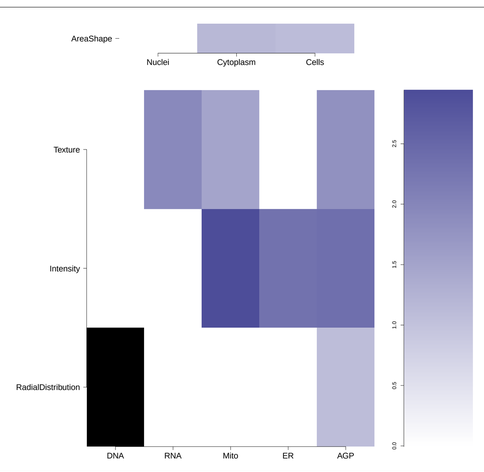
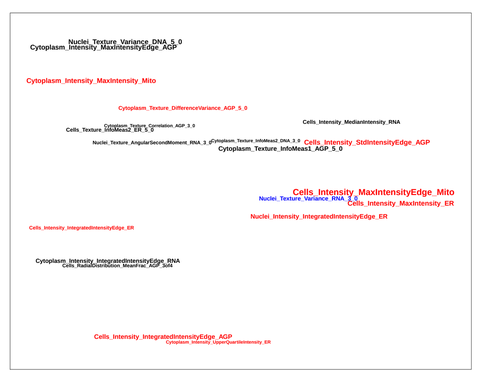
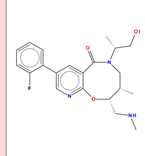
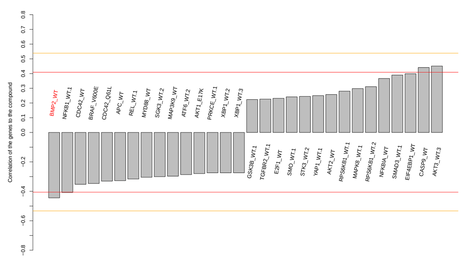
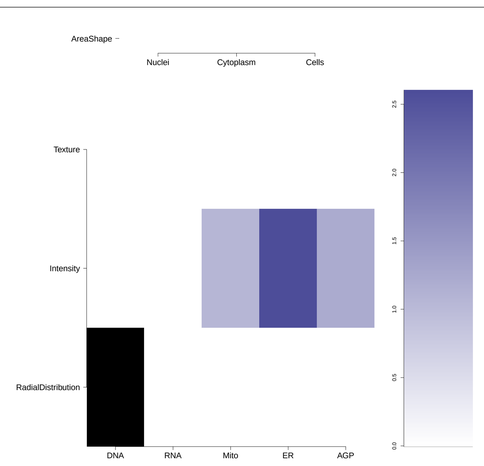
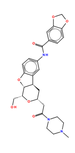
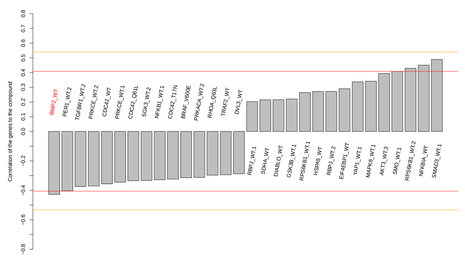
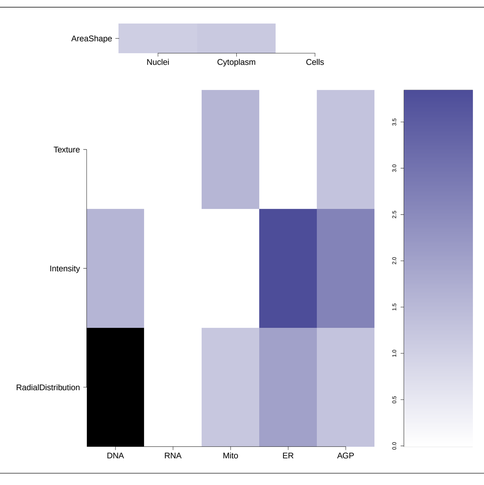
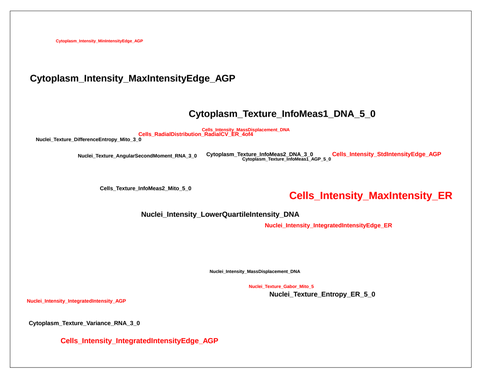


AGP



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-A14101427-001-05-1 MLS000562099 SMR000390702 BDBM95146 HMS2227I13 PubChem CID : 16682037		0.61 (in 4 replicates)	0.48	NA				Total number of assays tested in: 553. Active in the following assays: • uHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346) • uHTS identification of small molecule inhibitors of the thioesterase domain of fatty acid synthase via a fluorescence intensity assay (AID 602261) • uHTS identification of inhibitors of NadD in a Colorimetric assay (AID 602399) • Single concentration confirmation of uHTS inhibitor hits from NadD in a Colorimetric assay (AID 624309) • Dose response confirmation of uHTS inhibitor hits from NadD in a Colorimetric assay (AID 624317) • Dose response confirmation of uHTS inhibitor hits from NadD in a Colorimetric assay - Set 2 (AID 651709) • Fluorescence-based biochemical primary high throughput assay to identify inhibitors of T-cell receptor (TCR)-CD3 interaction using a TAMRA-labeled TCR probe (AID 651800) • Fluorescence-based biochemical primary high throughput confirmation assay to identify inhibitors of T-cell receptor (TCR)-CD3 interaction using a TAMRA-labeled TCR probe (AID 652036) • QFRET-based biochemical primary high throughput screening assay to identify exosite inhibitors of ADAM10. (AID 720582) • QFRET-based biochemical primary high throughput screening assay to identify exosite inhibitors of ADAM17. (AID 720648) • Counterscreen for exosite inhibitors of ADAM17: Fluorescence resonance energy transfer (FRET)-based biochemical high throughput screening assay to identify inhibitors of ADAM10 (AID 743256) • QFRET-based biochemical high throughput confirmation assay to identify exosite inhibitors of ADAM17 (AID 743257)
BRD-K05837079-001-01-9 PubChem CID : 54619482		0.67 (in 4 replicates)	0.47	0.806				Total number of assays tested in: 36.
BRD-K19627923-001-06-5 ZINC02861299 AC1M3KZK MLS001123891 ARONIS007219 HMS2981H15 ZINC2861299 STL062931 SMR000668548 ST096138 ST50524693 PubChem CID : 2214566		0.56 (in 4 replicates)	0.45	NA				Total number of assays tested in: 502. Active in the following assays: • 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) • High Throughput Screen of 100,000 compound library to Identify Inhibitors of Mycobacterium tuberculosis H37Rv (AID 1949) • 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 high-throughput screening assay for identification of compounds that potentiate/activate KCNQ1 potassium channels (AID 2648) • 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) • Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of human platelet-activating factor acetylhydrolase 1B, catalytic subunit 3 (PAFAH1B3) (AID 492972) • Counter screen assay of the parental CHO cells for identification of compounds that potentiate KCNQ1 potassium channels (AID 493006) • Validation assay for identification of compounds that potentiate KCNQ1 potassium channels (AID 493007) • Specificity screen assay against KCNQ2 for identification of compounds that potentiate KCNQ1 potassium channels (AID 493009) • 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 Brca1/Bard1 BiLC Counterscreen assay. (AID 504668) • Vero 76 Cytoxicity Assay for VEEV Compounds (AID 588719) • A Cell-Based Confirmatory Screen for Compounds that Inhibit VEEV, TC-83 (AID 588727) • Fluorescence-based cell-based primary high throughput screening assay to identify agonists of the human trace amine associated receptor 1 (TAAR1) (AID 624467) • Fluorescence-based cell-based primary high throughput confirmation assay to identify agonists of the human trace amine associated receptor 1 (TAAR1) (AID 651783) • Counterscreen for agonists of the human trace amine associated receptor 1 (hTAAR1): Fluorescence-based cell-based high throughput screening assay to identify nonselective agonists (AID 651787) • Counterscreen for agonists of the human trace amine associated receptor 1 (hTAAR1): Fluorescence-based cell-based high throughput screening assay to identify hTAAR1 agonists that also desensitize TAAR1 receptor response. (AID 651951) • Counterscreen for agonists of the human trace amine associated receptor 1 (hTAAR1): Fluorescence-based cell-based high throughput screening assay to identify nonselective Ga16 antagonists (AID 651952) • qHTS of TDP-43 Inhibitors (AID 652104)
BRD-K36084688-001-05-5 AC1M1Y0X Ambcb7964604 MLS001124994 HMS2986M15 ZINC2722843 CCG-128042 SMR000669362 PubChem CID : 2158358		0.59 (in 4 replicates)	0.45	0.639				Total number of assays tested in: 497. Active in the following assays: • Fluorescence-based biochemical primary high throughput screening assay to identify inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 588726) • Fluorescence-based biochemical high throughput confirmation assay for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 651616) • Fluorescence Intensity-based biochemical primary high throughput screening assay to identify activators of kallikrein-7 (K7) zymogen (AID 652039) • Counterscreen for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis: Fluroescence-based biochemical high throughput Glycerophosphate Dehydrogenase-Triosephosphate Isomerase (GDH-TPI) assay to identify assay artifacts (AID 652141) • Fluorescence Intensity-based biochemical primary high throughput confirmation assay to identify activators of kallikrein-7 (K7) zymogen (AID 686949) • Counterscreen for activators of kallikrein-7 (K7) zymogen: Fluorescence intensity-based biochemical high throughput counterscreen assay for activators that optically interfere with measurement of EDANS-DABCYL fluorescence (AID 686952)

BRD-K57654708-001-06-3 MLS001142650 STL309073 ZINC15895150 SMR000647807 PubChem CID : 9655337		0.59 (in 4 replicates)	0.44	NA				Total number of assays tested in: 493. Active in the following assays: • Activator for delta FosB/delta FosB homodimer Measured in Biochemical System Using Plate Reader - 2072-01_Activator_SinglePoint_HTS_Activity (AID 493131) • Allosteric Agonists of the Human D1 Dopamine Receptor: qHTS (AID 504660) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834) • Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human trace amine associated receptor 1 (TAAR1) (AID 624466) • Fluorescence-based cell-based primary high throughput screening assay to identify agonists of the human trace amine associated receptor 1 (TAAR1) (AID 624467) • Fluorescence-based cell-based primary high throughput confirmation assay to identify agonists of the human trace amine associated receptor 1 (TAAR1) (AID 651783) • Counterscreen for agonists of the human trace amine associated receptor 1 (hTAAR1): Fluorescence-based cell-based high throughput screening assay to identify nonselective agonists (AID 651787) • Counterscreen for agonists of the human trace amine associated receptor 1 (hTAAR1): Fluorescence-based cell-based high throughput screening assay to identify hTAAR1 agonists that also desensitize TAAR1 receptor response. (AID 651951) • Counterscreen for agonists of the human trace amine associated receptor 1 (hTAAR1): Fluorescence-based cell-based high throughput screening assay to identify nonselective Ga16 antagonists (AID 651952)
BRD-K18462967-001-01-6 PubChem CID : 44490814		0.57 (in 3 replicates)	-0.52	0.361				Total number of assays tested in: 58.
BRD-K10120618-001-01-1 PubChem CID : 54646238		0.67 (in 3 replicates)	-0.50	0.361				Total number of assays tested in: 41. Active in the following assays: • Inhibition of T.cruzi proliferation in culture Measured in Cell-Based System Using Plate Reader - 2138-01_Inhibitor_SinglePoint_CherryPick_Activity (AID 651739) • NIH/3T3 (mouse embryonic fibroblast) toxicity Measured in Cell-Based System Using Plate Reader - 2138-02_Inhibitor_SinglePoint_CherryPick_Activity (AID 651742) • NIH/3T3 (mouse embryonic fibroblast) toxicity Measured in Cell-Based System Using Plate Reader - 2138-02_Inhibitor_SinglePoint_CherryPick_Activity_Set2 (AID 651744)
BRD-K93287182-001-01-4 PubChem CID : 54647721		0.54 (in 3 replicates)	-0.47	NA				Total number of assays tested in: 36.
BRD-K15029434-001-01-1 PubChem CID : 54619134		0.52 (in 4 replicates)	-0.44	0.781				Total number of assays tested in: 39.
BRD-K13137954-001-01-4 PubChem CID : 54646522		0.89 (in 3 replicates)	-0.43	0.361				Total number of assays tested in: 37.