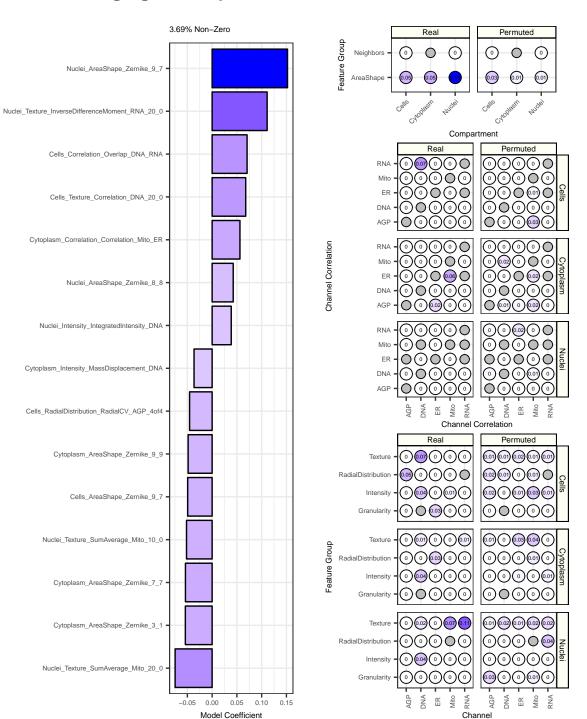
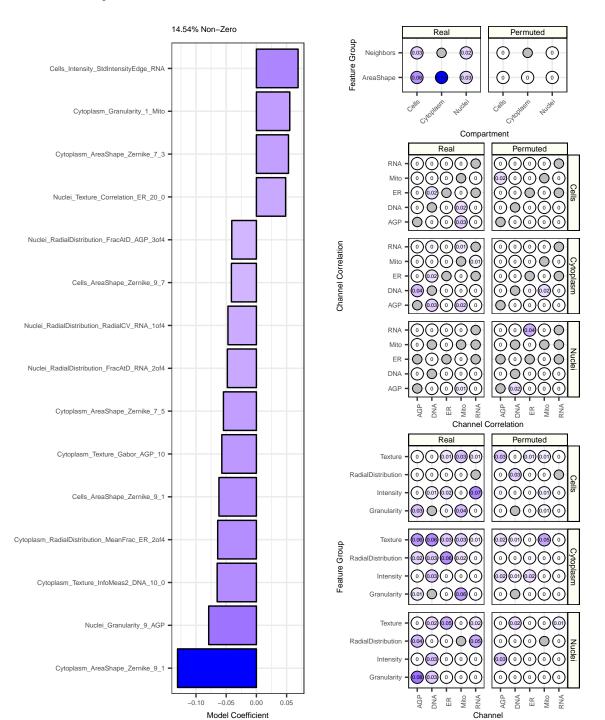
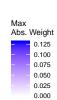
# ALL - % High gH2AX Spots



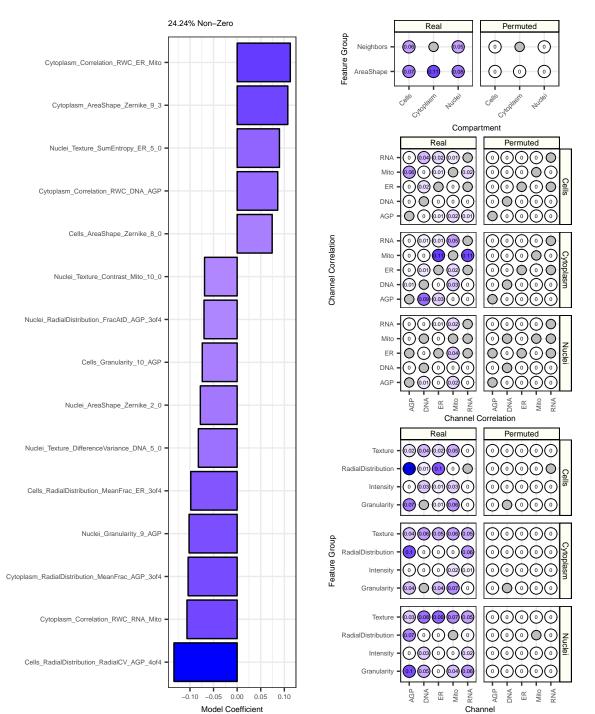


### ALL - Polynuclear



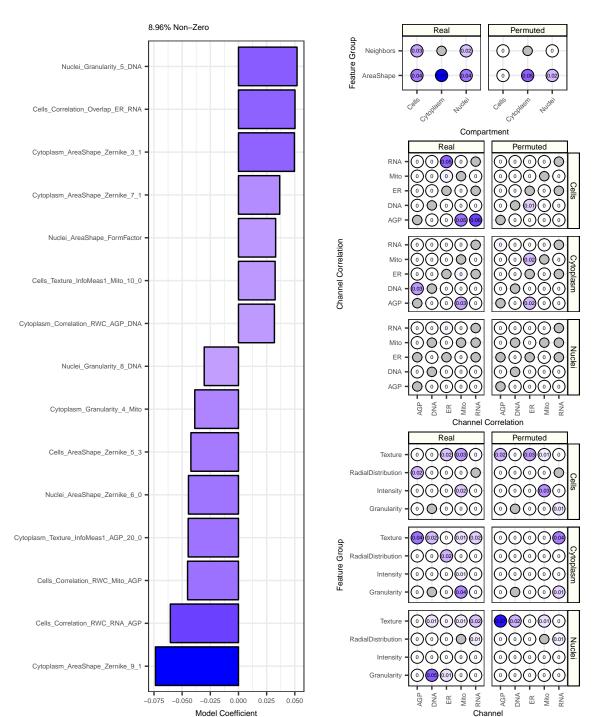


### **ALL - Polyploid**



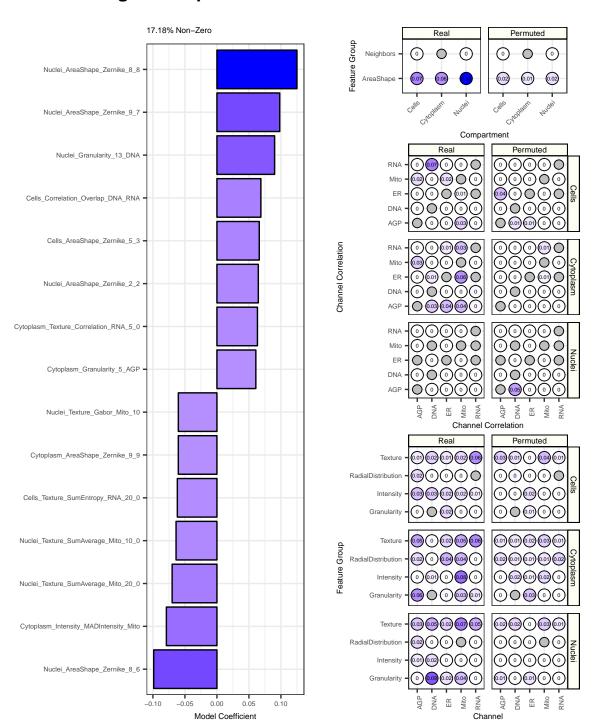


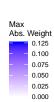
### ALL - # cells



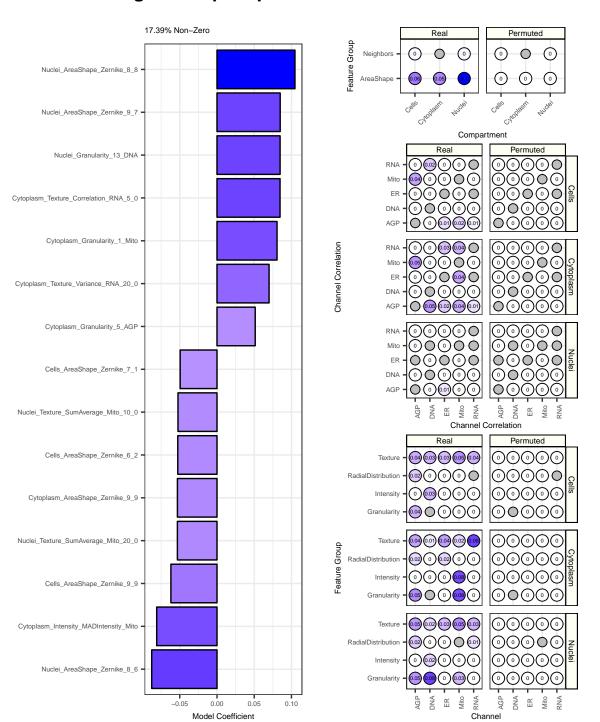


## ALL - # of gH2AX Spots





# ALL - # of gH2AX Spots per Area of Nucleus



Max Abs. Weight

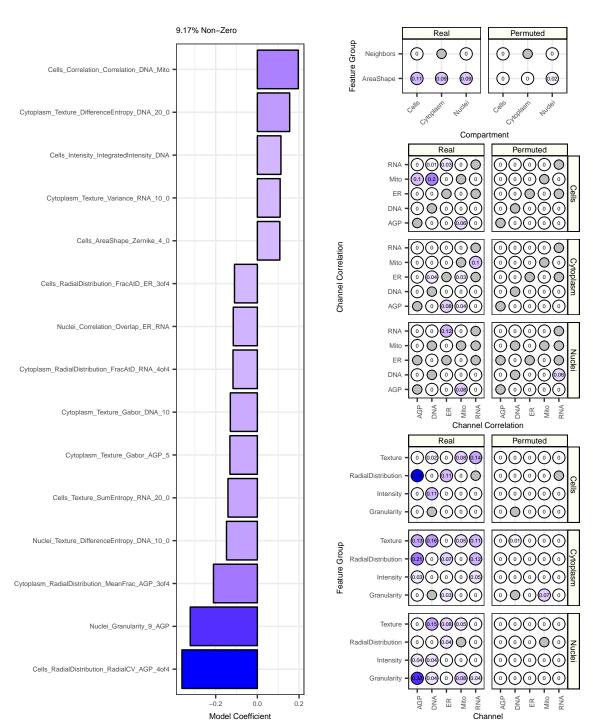
0.075

0.050

0.025

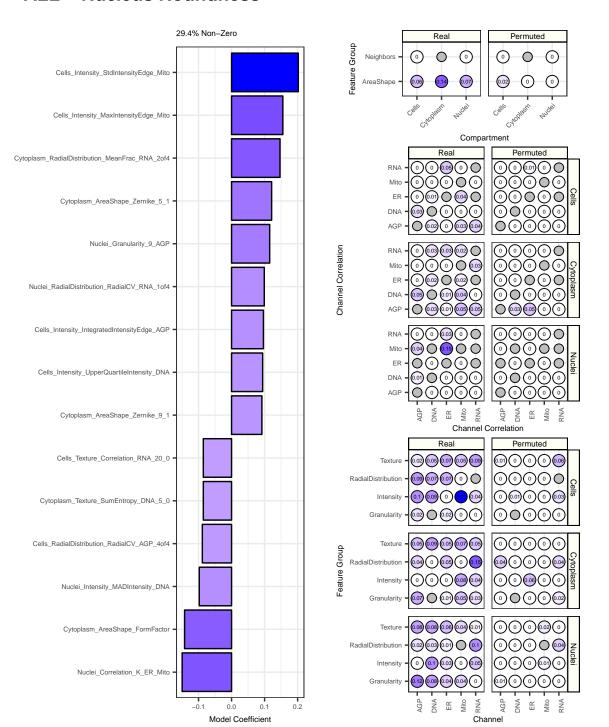
0.000

#### **ALL - Nucleus Area**



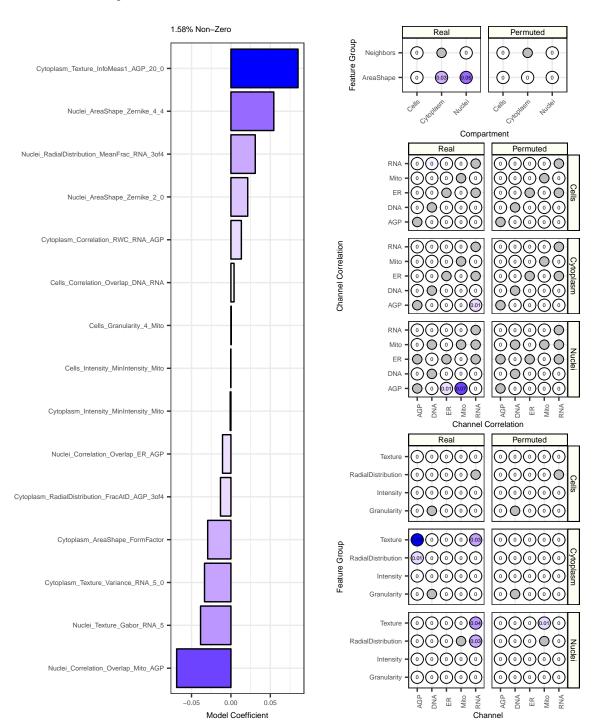


#### **ALL - Nucleus Roundness**



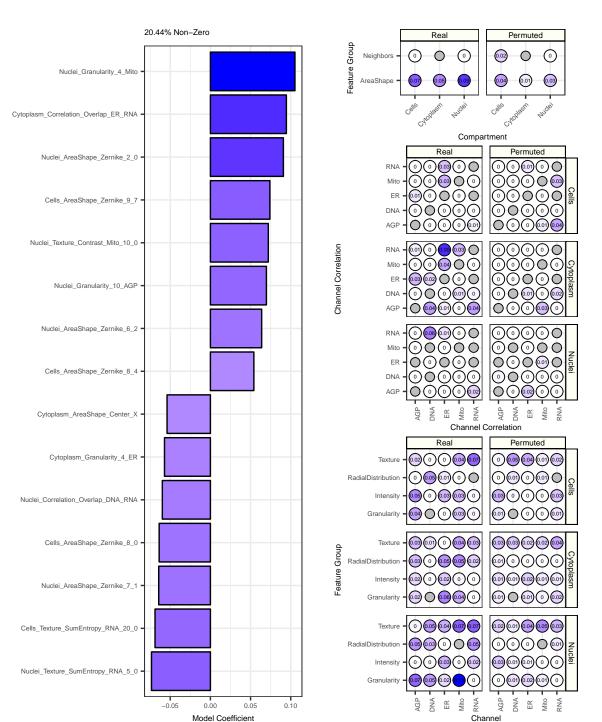


## CC - % early M



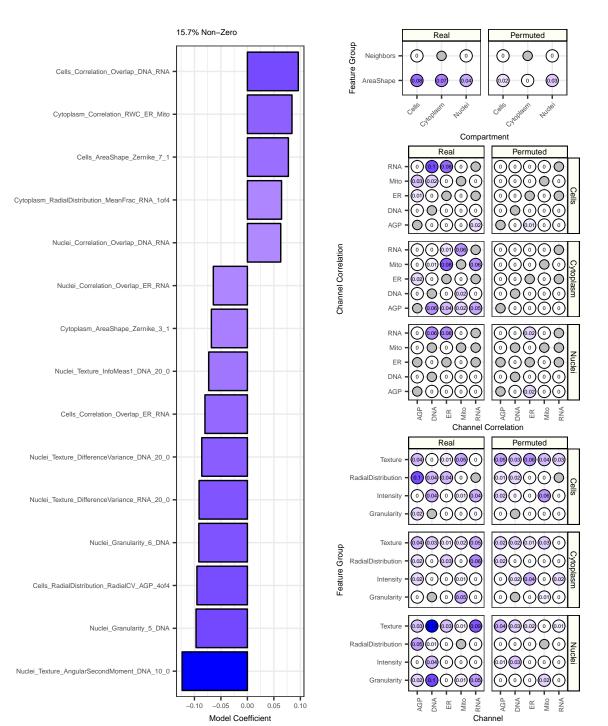


### CC - % G1



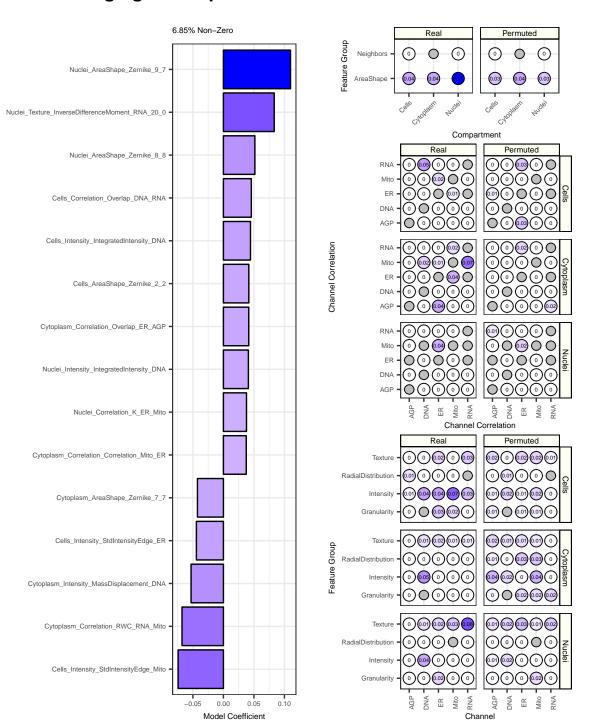


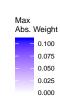
### CC - % G2



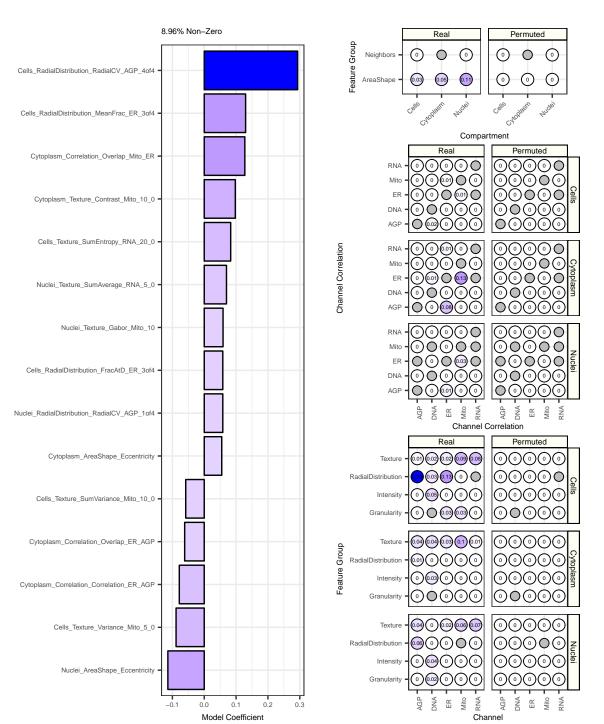


# CC - % High gH2AX spots



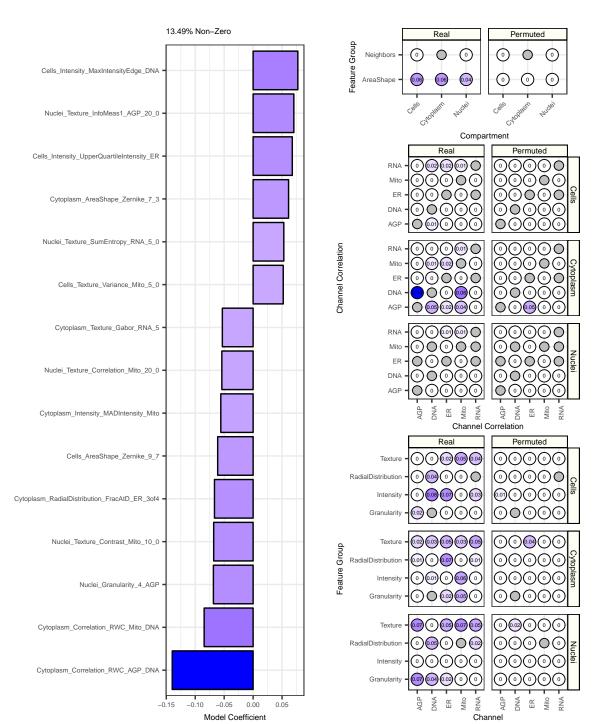


### CC - % Late M



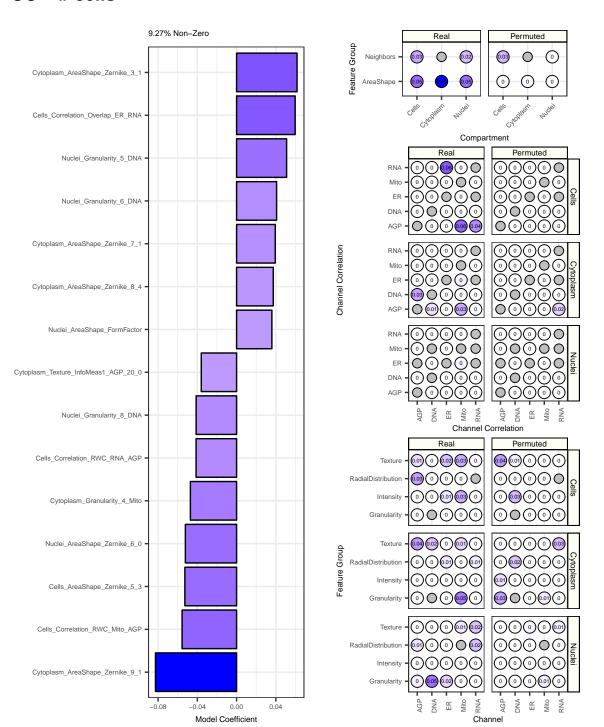


### CC - % M



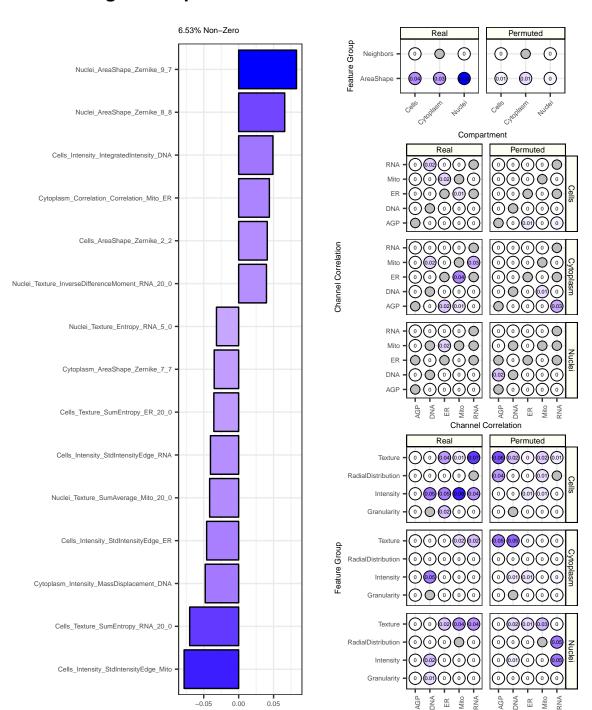


#### CC - # cells





## CC - # of gH2AX Spots

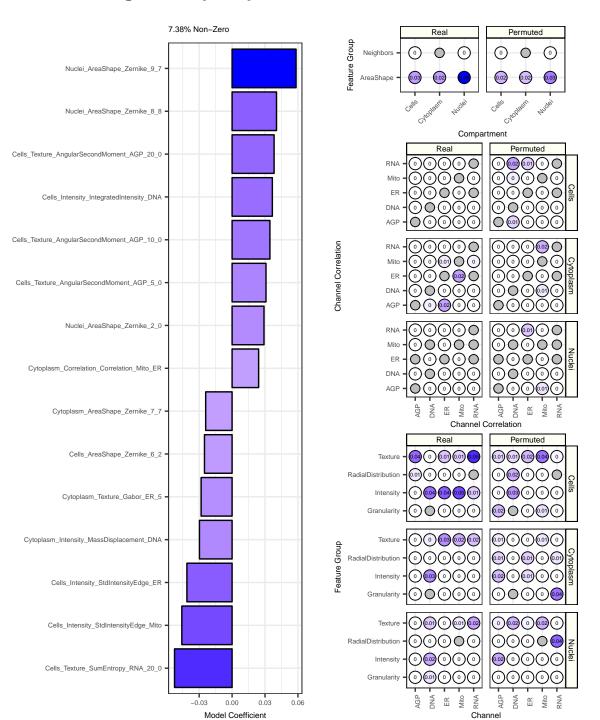


Model Coefficient

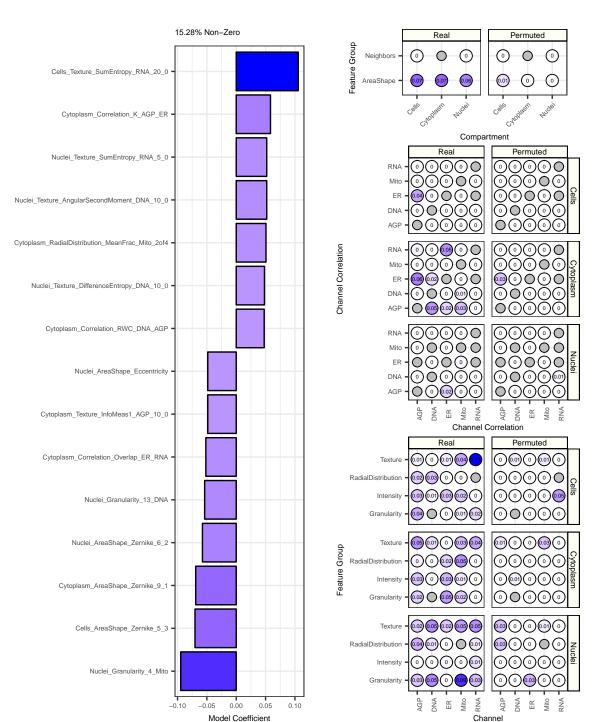


Channel

# CC - # of gH2AX Spots per Area of Nucleus

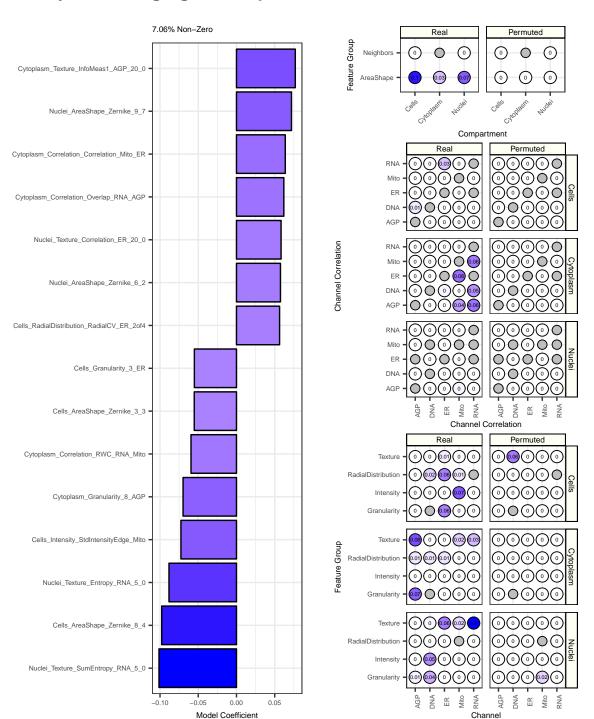






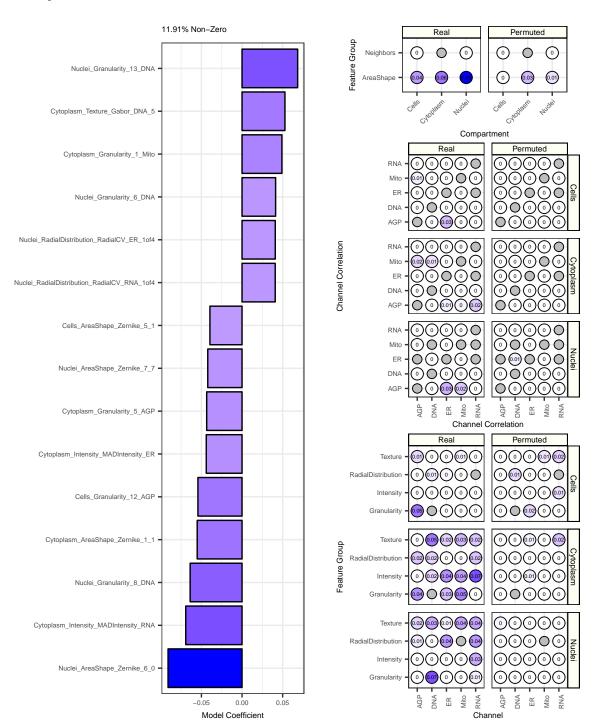


## early M - % High gH2AX Spots



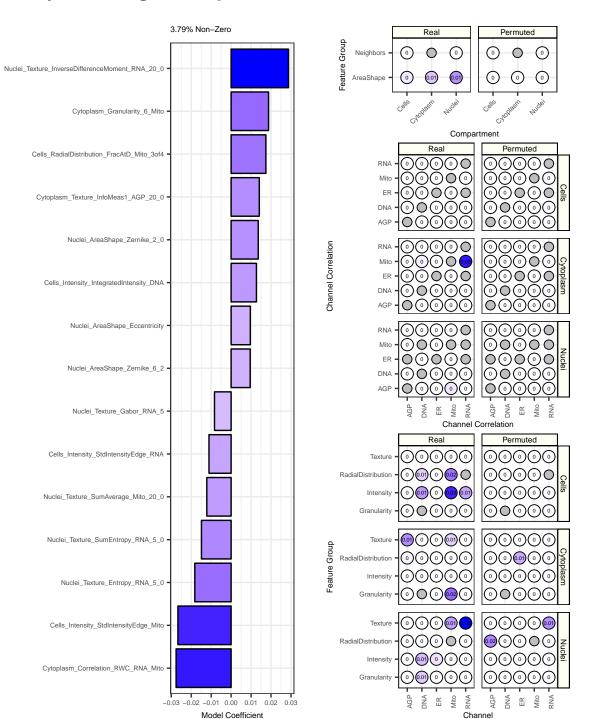


### early M - # cells





## early M - # of gH2AX Spots



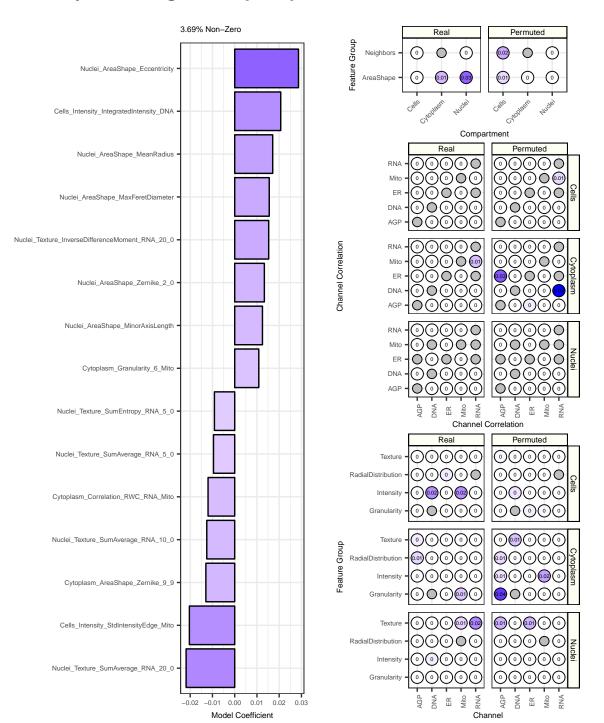
Abs. Weight

0.02

0.01

0.00

## early M - # of gH2AX Spots per Area of Nucleus



Max Abs. Weight

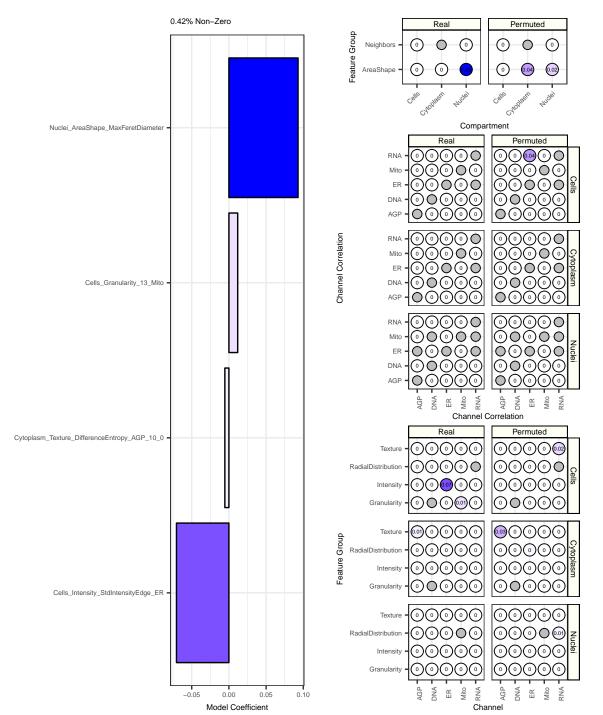
0.03

0.02

0.01

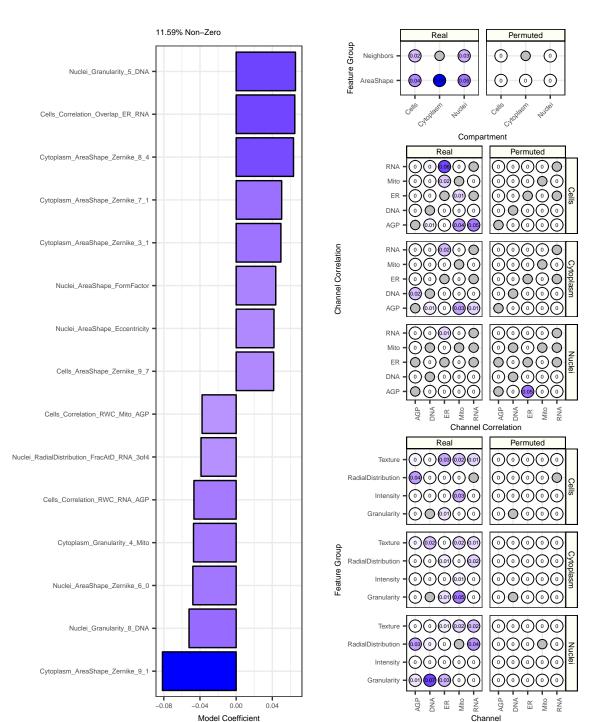
0.00

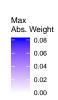
# G1 - % High gH2AX Spots



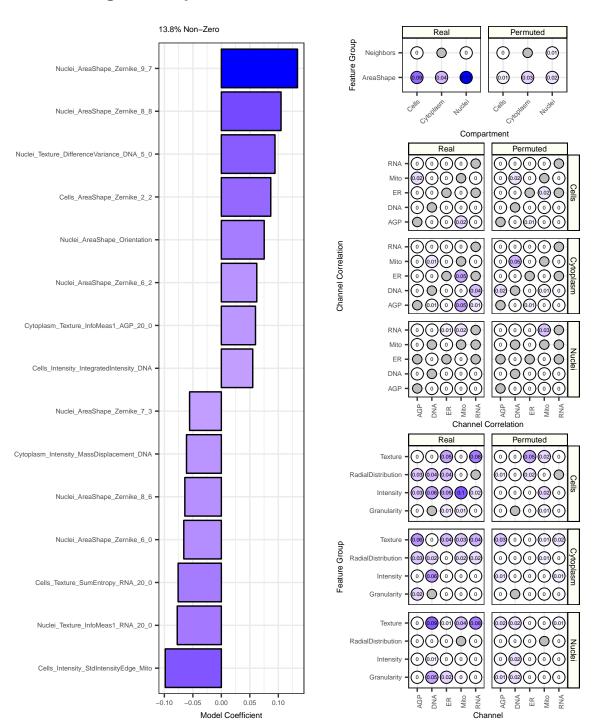


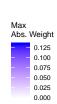
### G1 - # cells



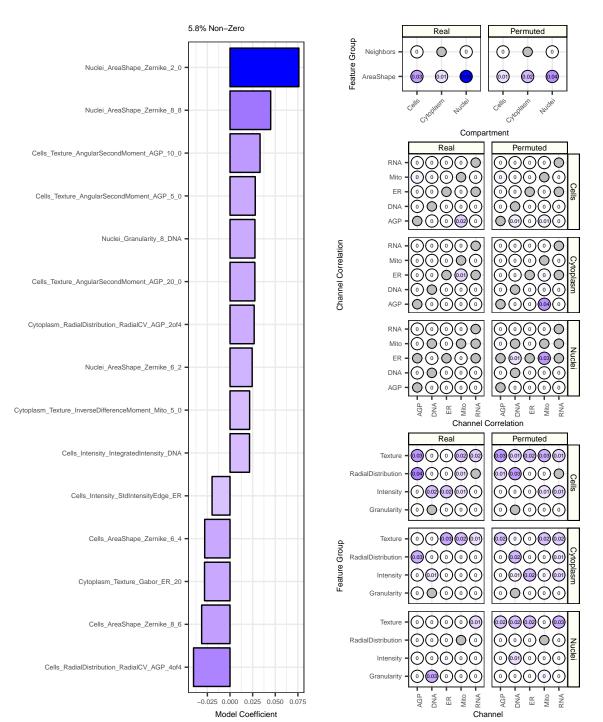


## G1 - # of gH2AX Spots



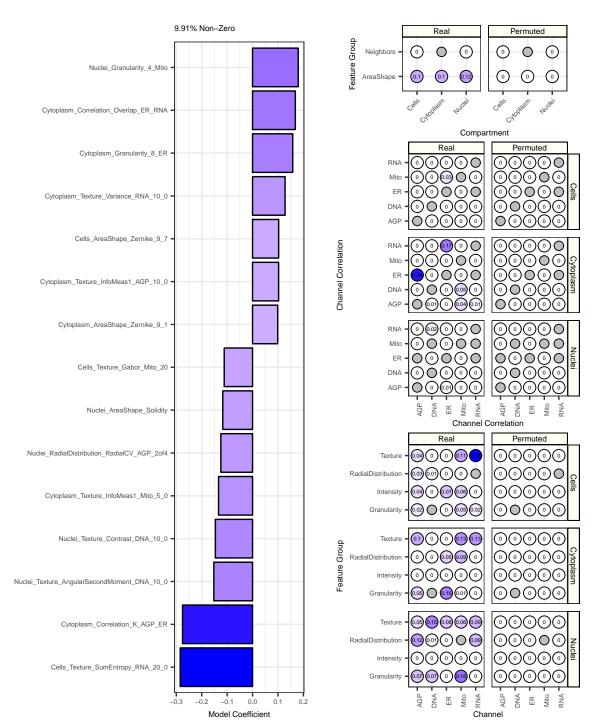


# G1 – # of gH2AX Spots per Area of Nucleus



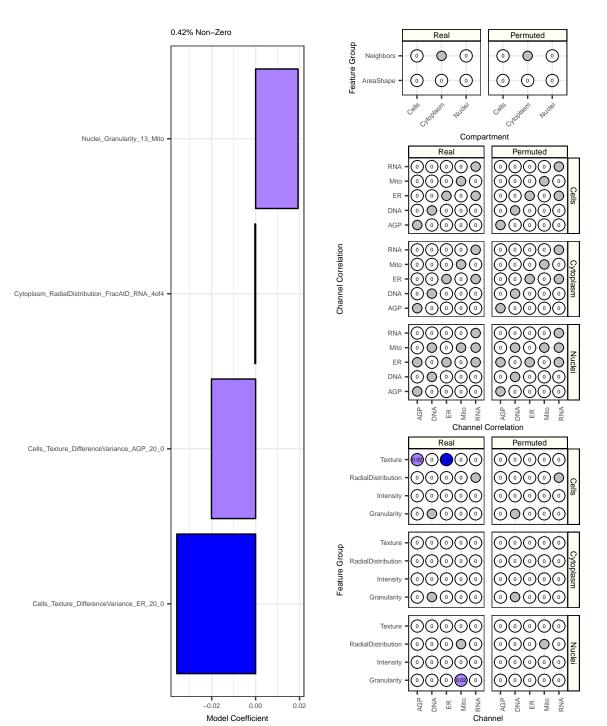


### Cell Count - G1+G2



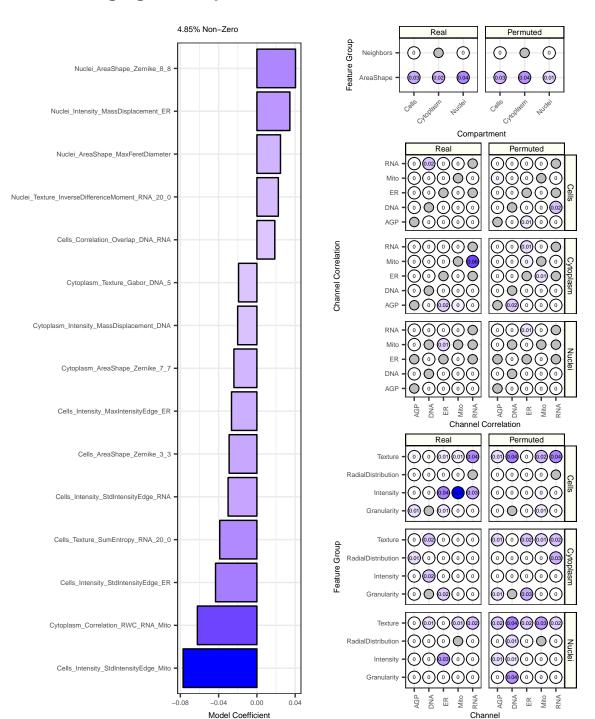


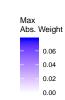
### Cell Count - G2/G1



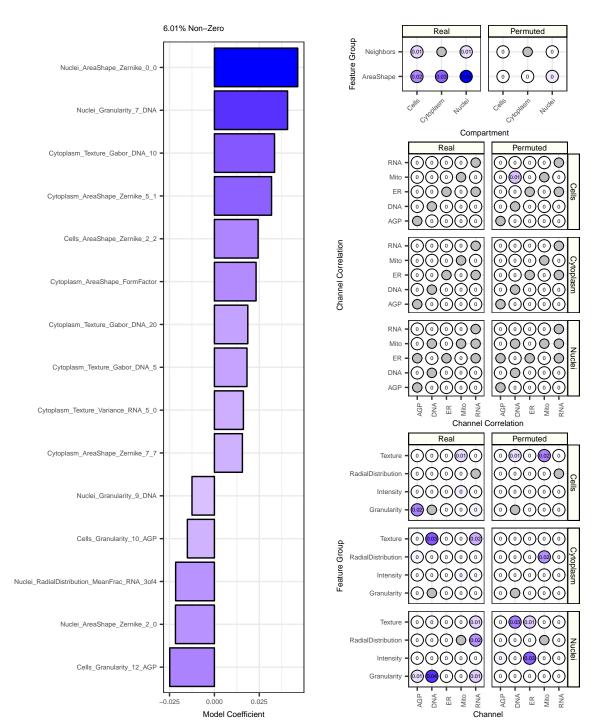


# G2 - % High gH2AX Spots



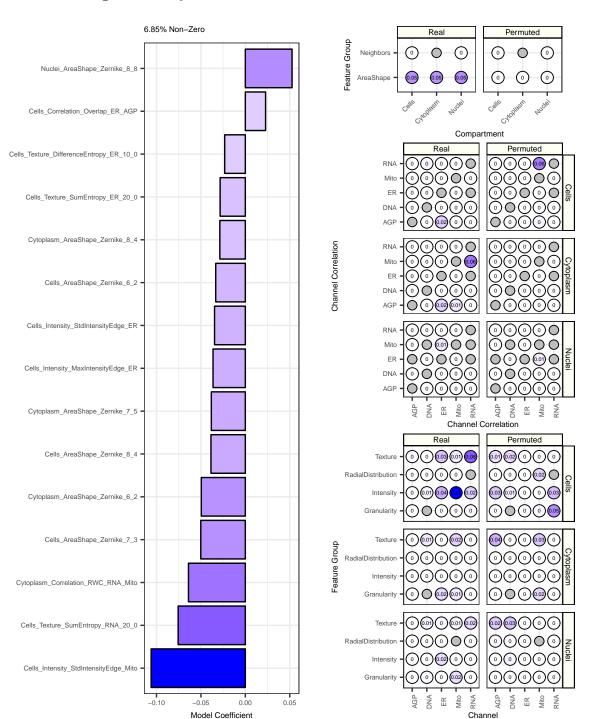


### G2 - # cells



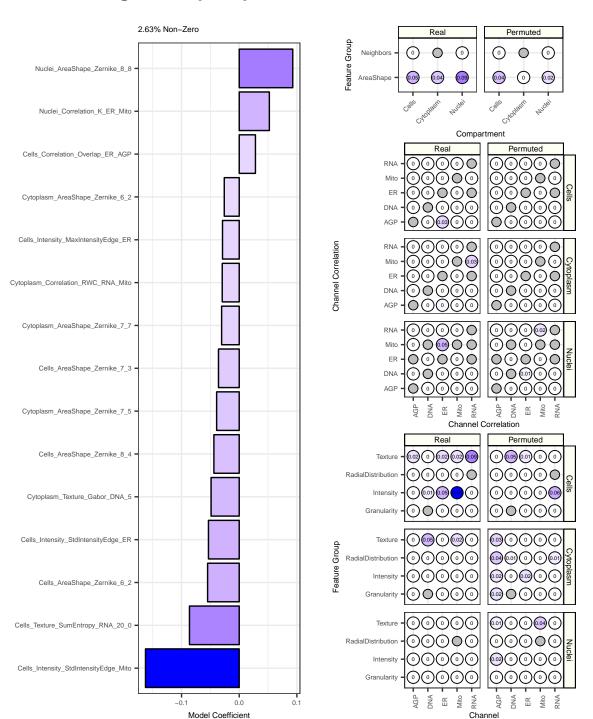


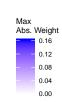
## G2 - # of gH2AX Spots



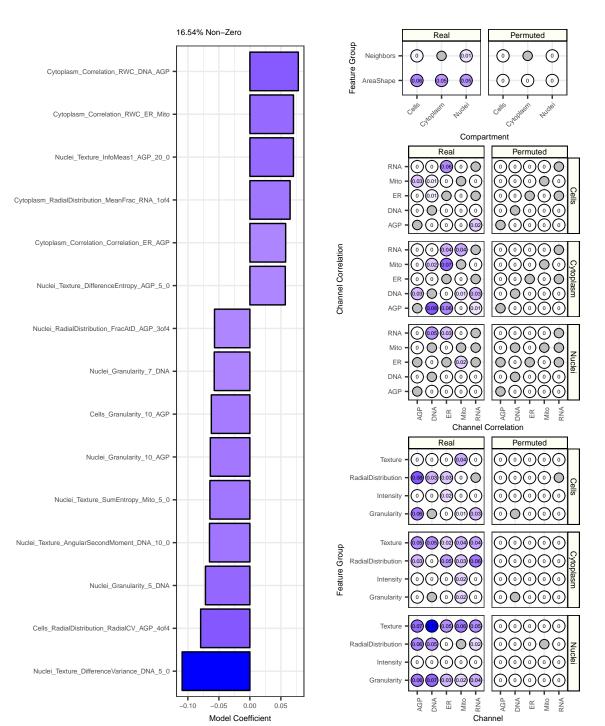


# G2 – # of gH2AX Spots per Area of Nucleus



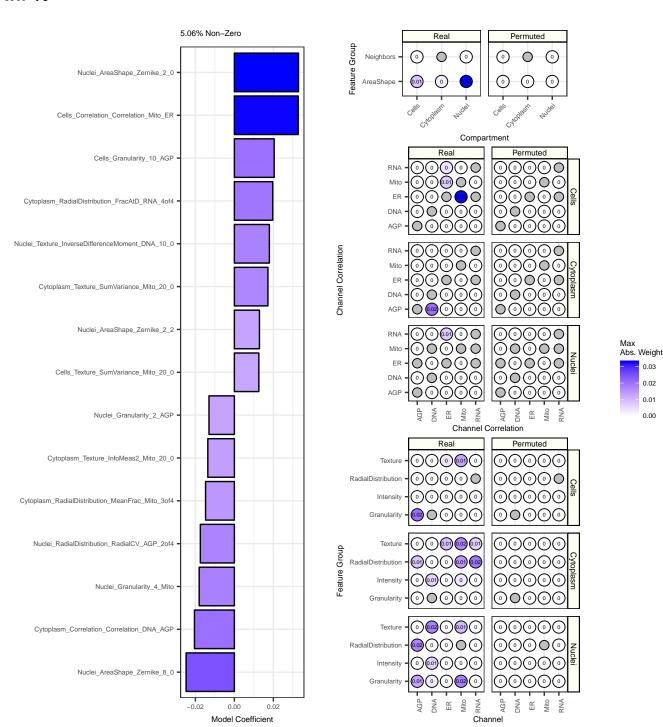


### Cell Count - G2 + M





### Inf %



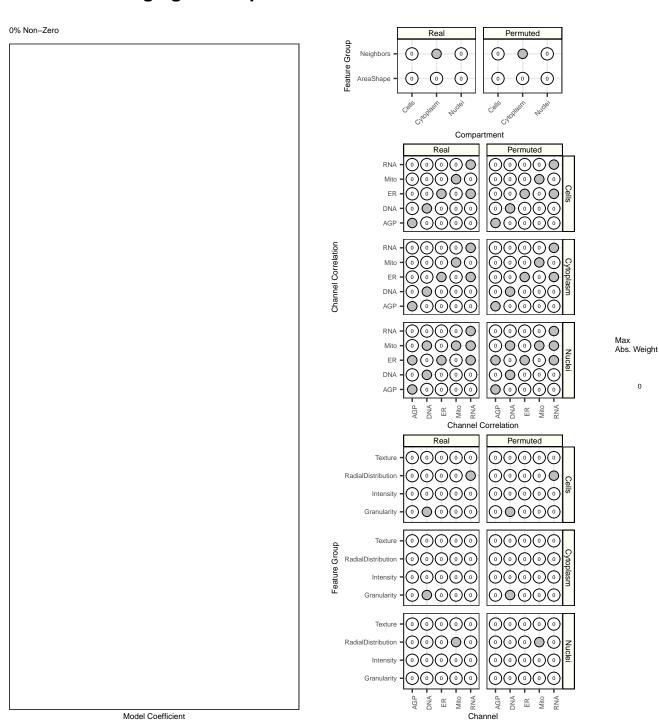
0.03

0.02

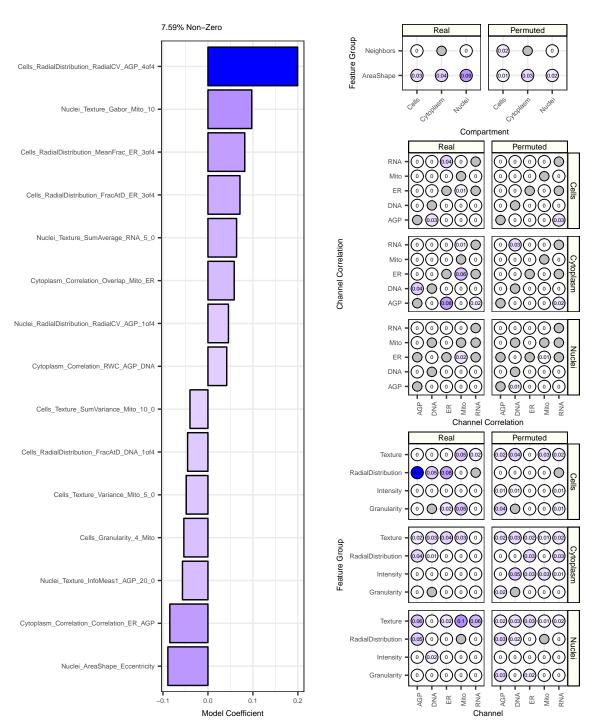
0.01

0.00

# Late M - % High gH2AX Spots

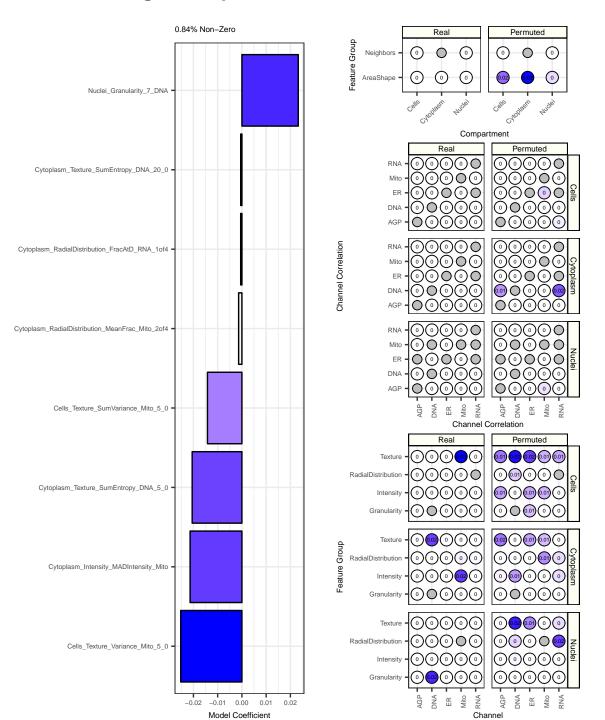


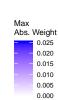
#### Late M - # cells



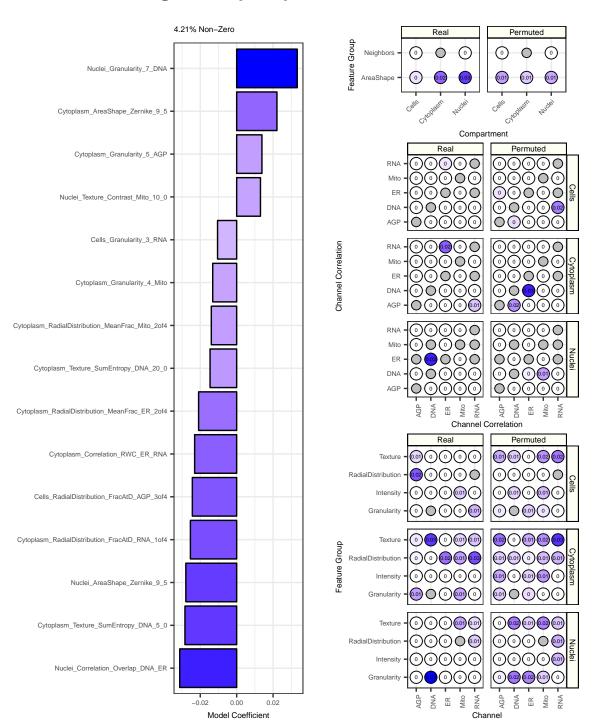


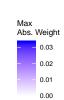
## Late M - # of gH2AX Spots



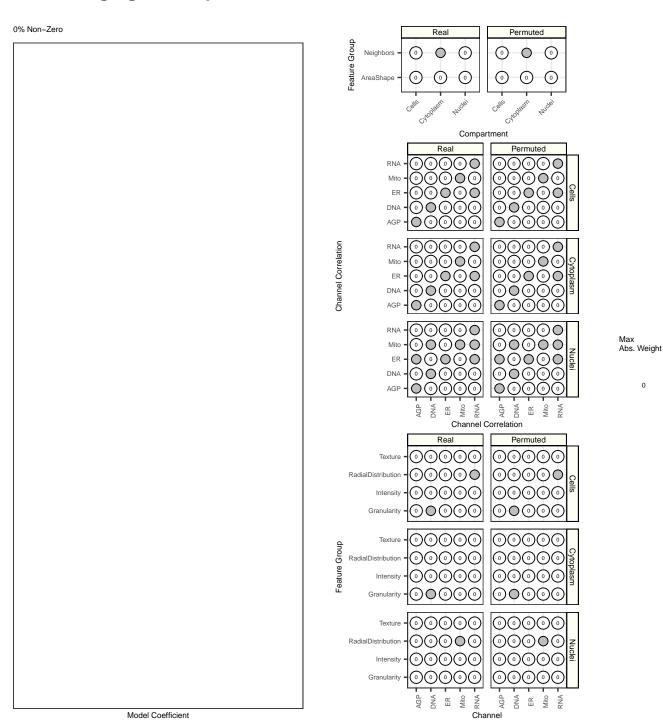


## Late M - # of gH2AX Spots per Area of Nucleus

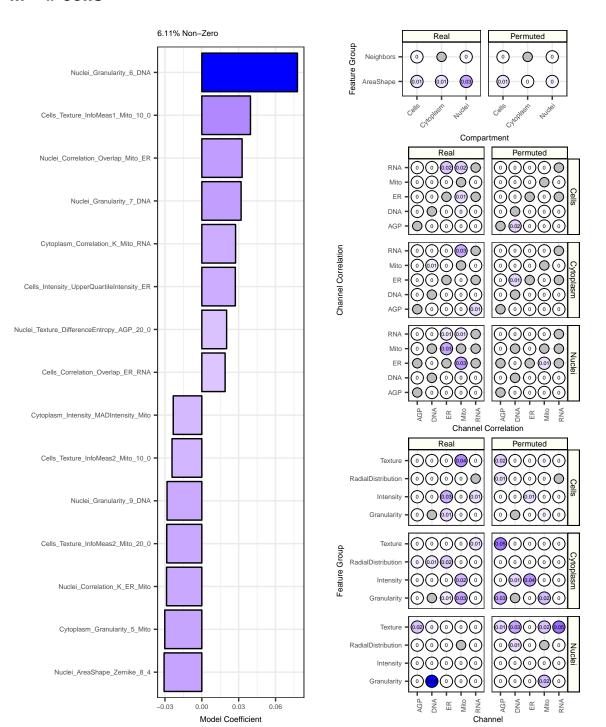




## M - % High gH2AX Spots

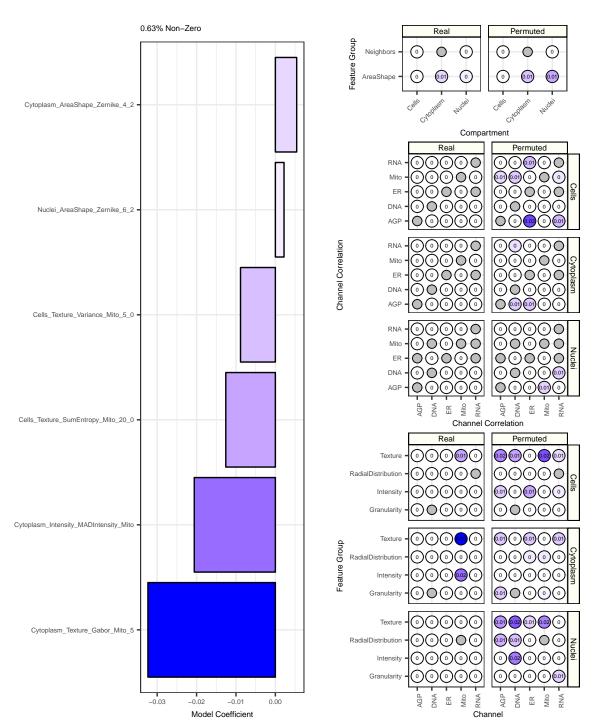


#### M - # cells



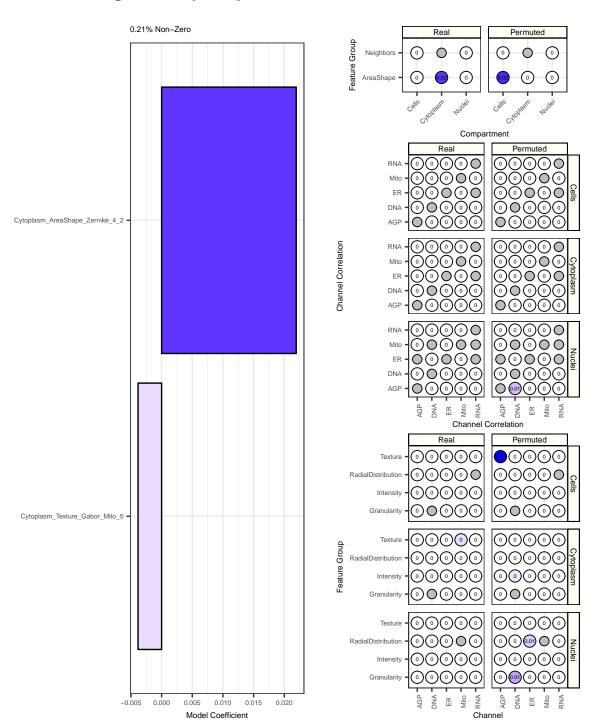


## M - # of gH2AX Spots



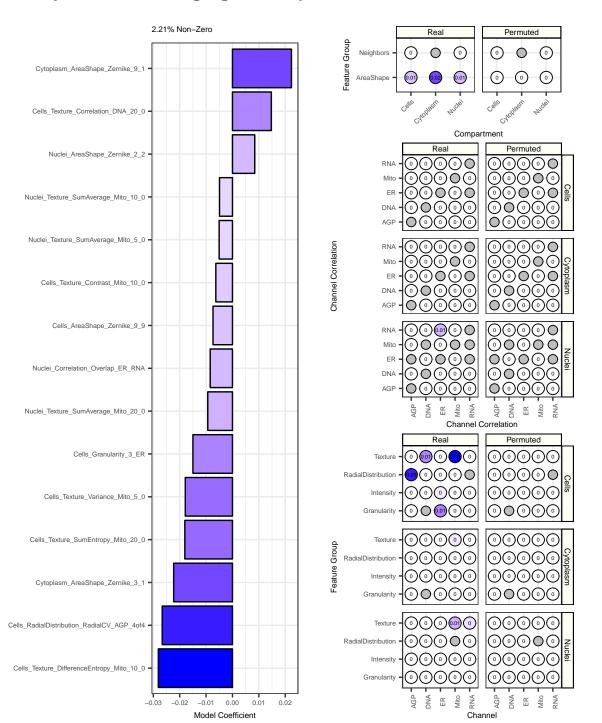


## M - # of gH2AX Spots per Area of Nucleus





# Polynuclear - % High gH2AX Spots



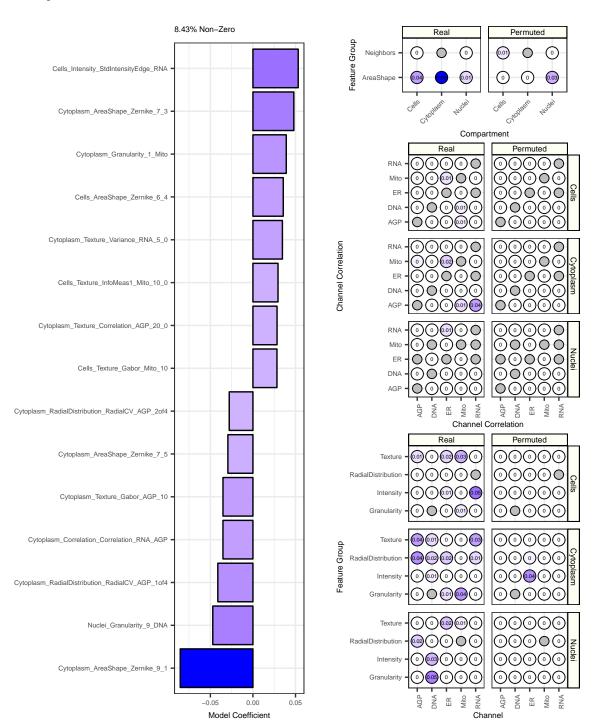
Abs. Weight

0.02

0.01

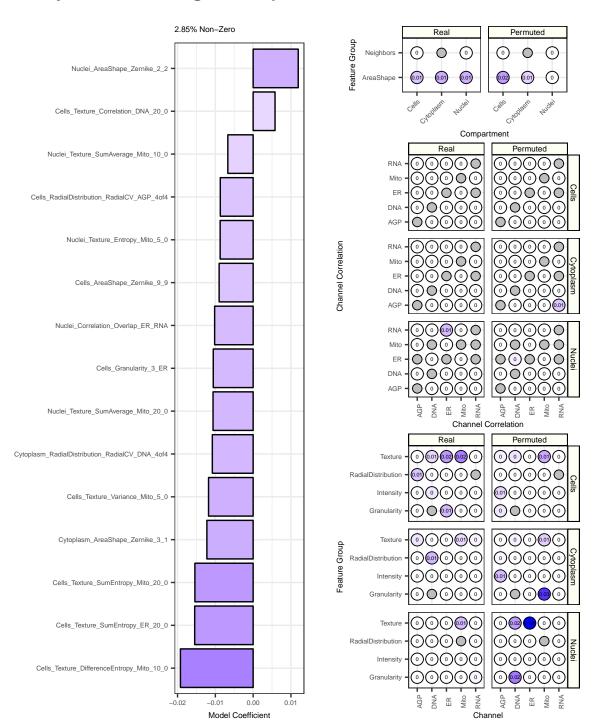
0.00

## Polynuclear - # cells



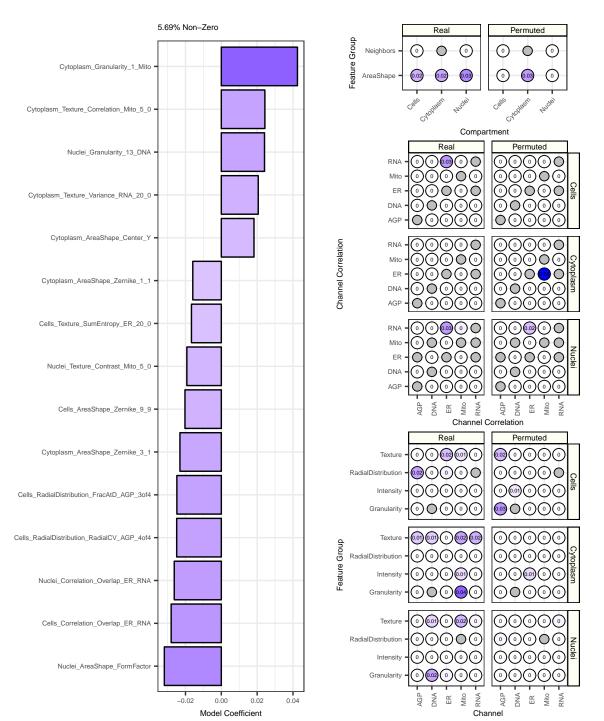


## Polynuclear - # of gH2AX Spots



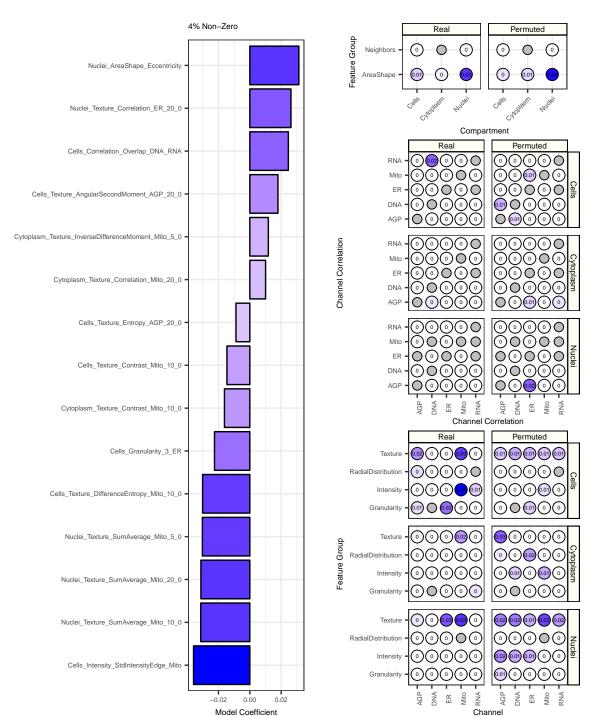


## Polynuclear – # of gH2AX Spots per Area of Nucleus



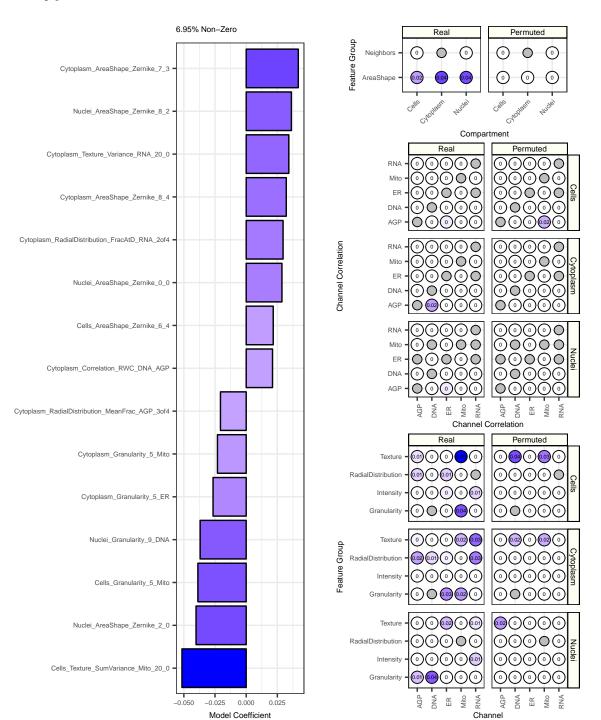


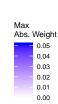
## Polyploid - % High gH2AX Spots



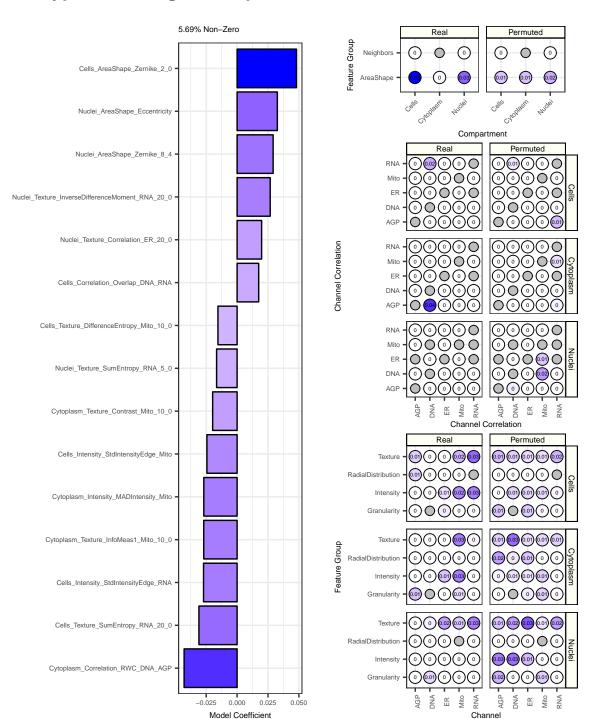


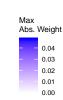
#### Polyploid - # cells



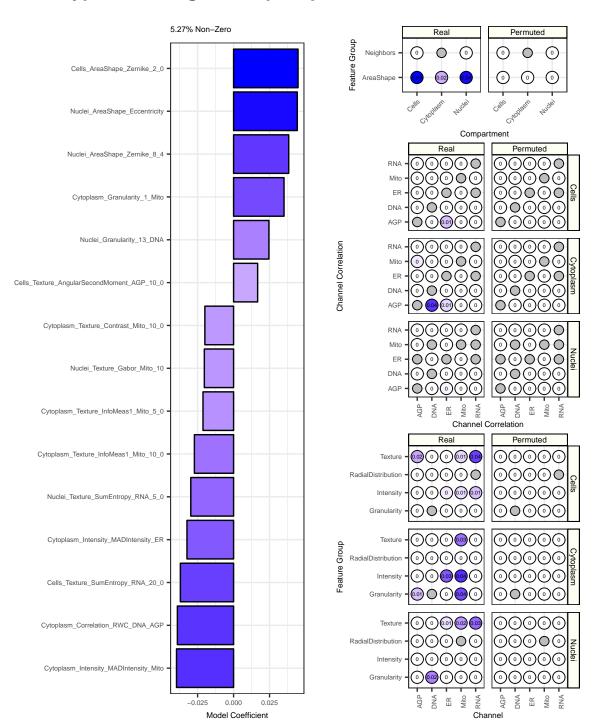


## Polyploid - # of gH2AX Spots



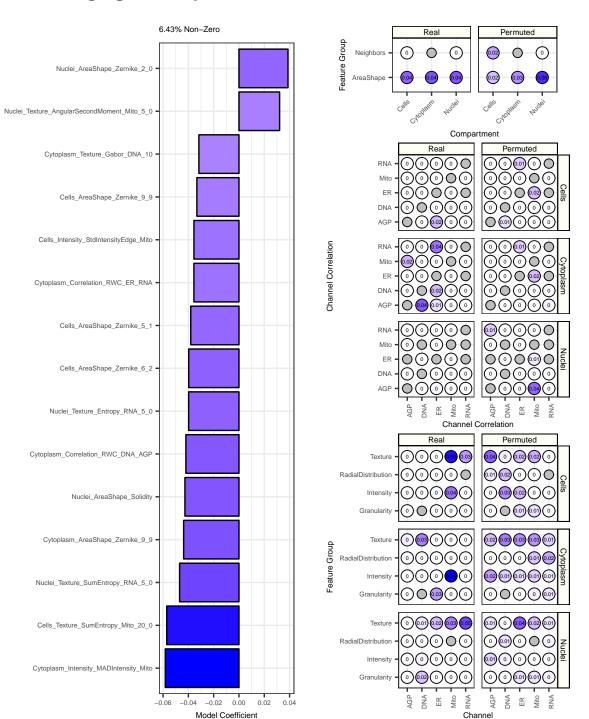


## Polyploid – # of gH2AX Spots per Area of Nucleus





## S - % High gH2AX Spots



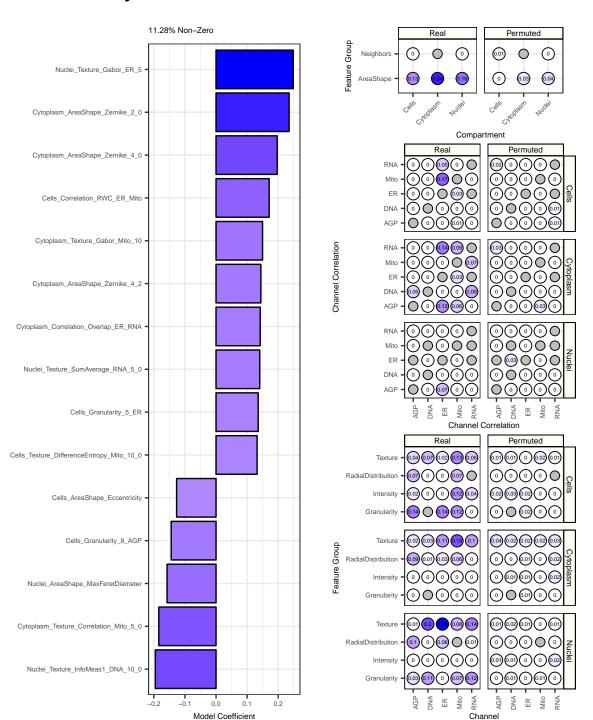
Max Abs. Weight

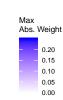
0.04

0.02 0.01

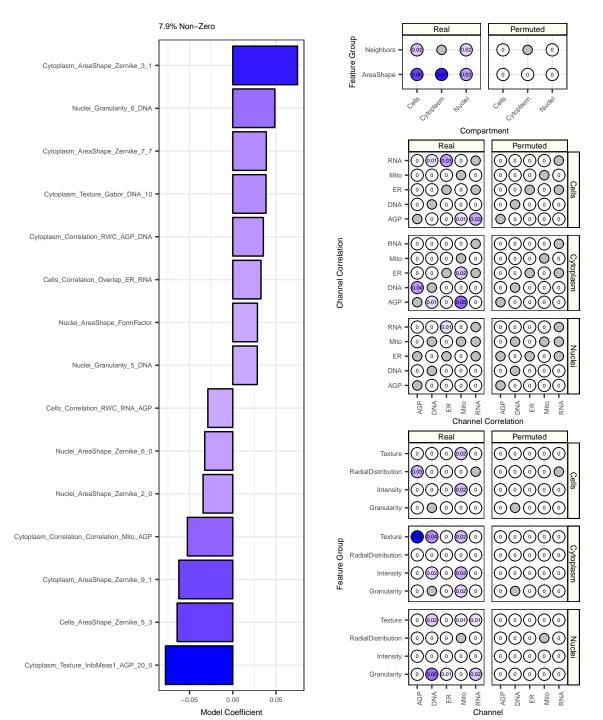
0.00

## S - Intensity Nucleus EdU Mean



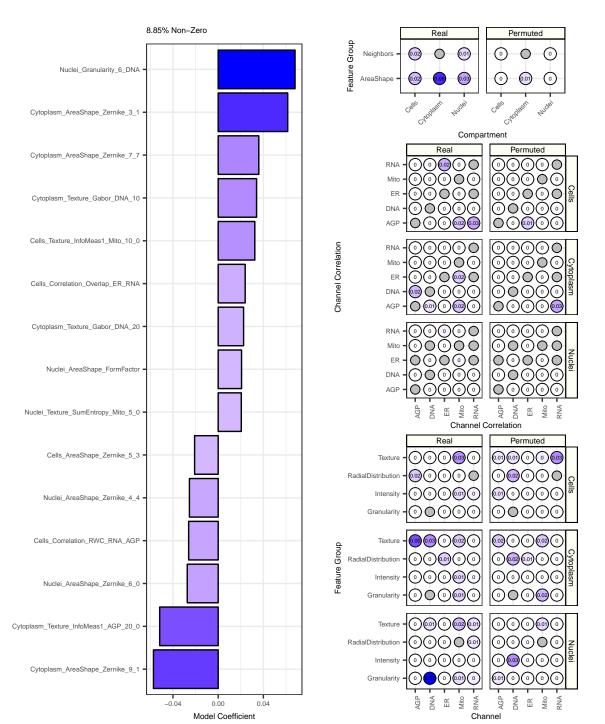


## S - Intensity Nucleus EdU Sum



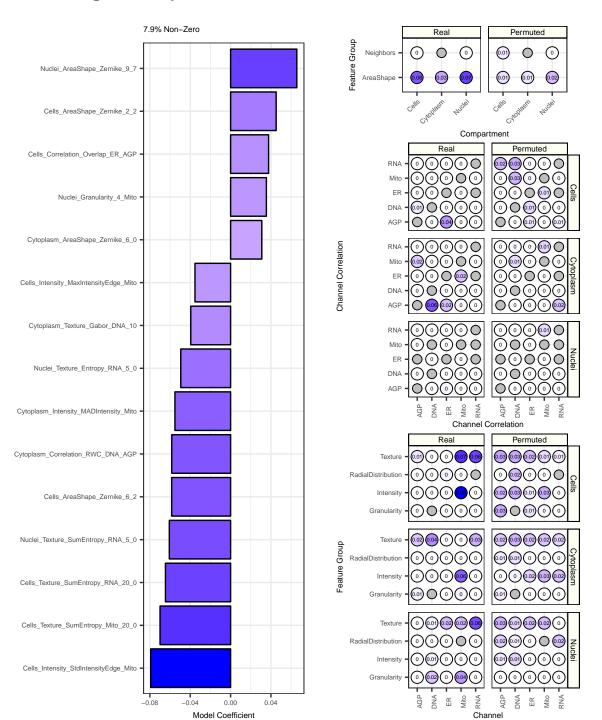


#### S - # cells



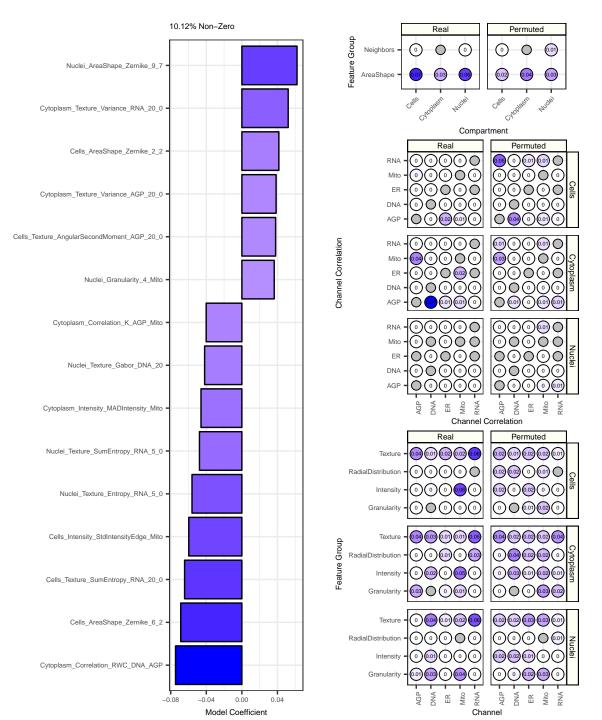


#### S - # of gH2AX Spots

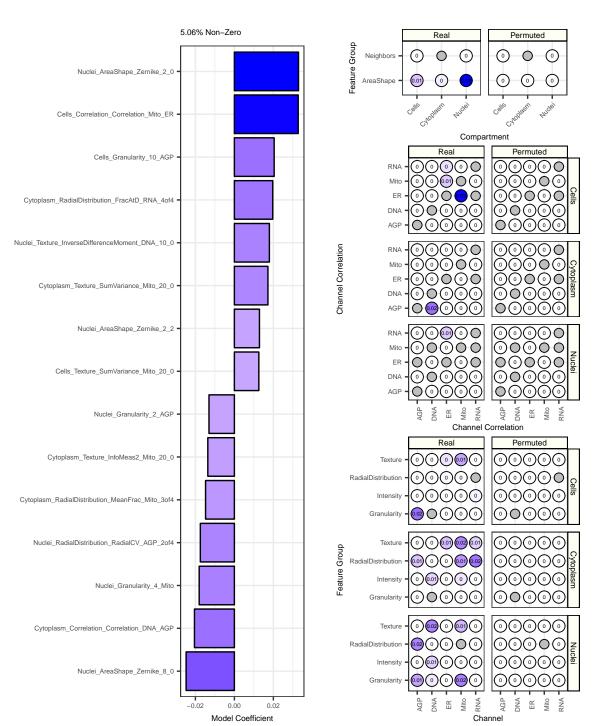




# S - # of gH2AX Spots per Area of Nucleus

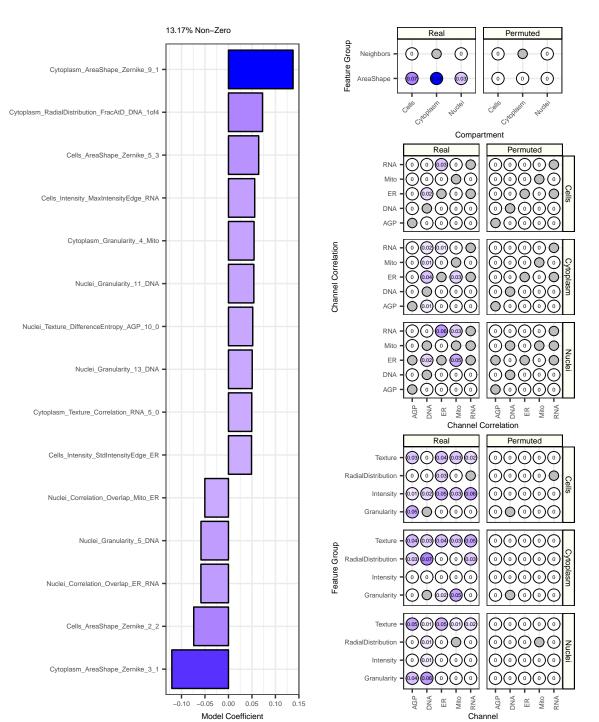






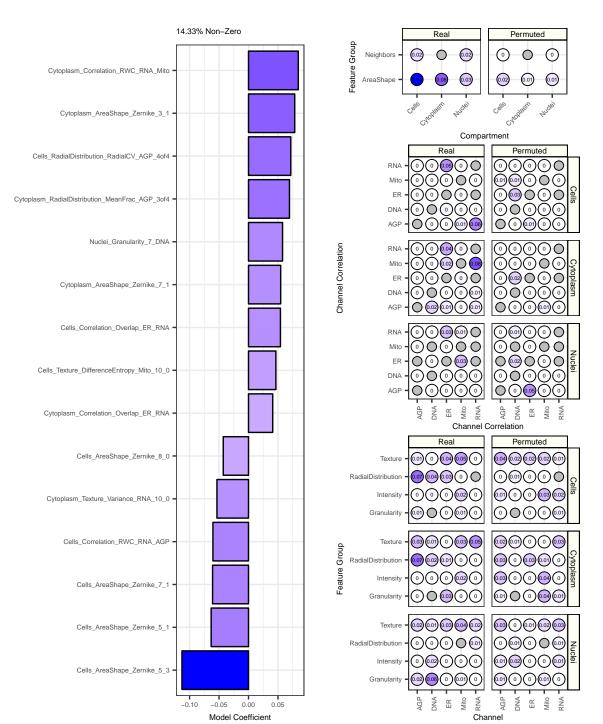


#### **Live Cell Area**



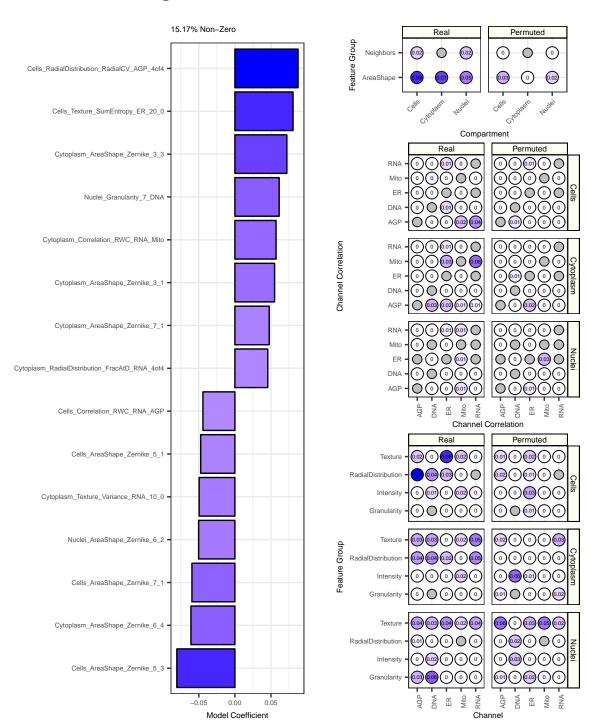


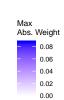
#### **Live Cell Roundness**



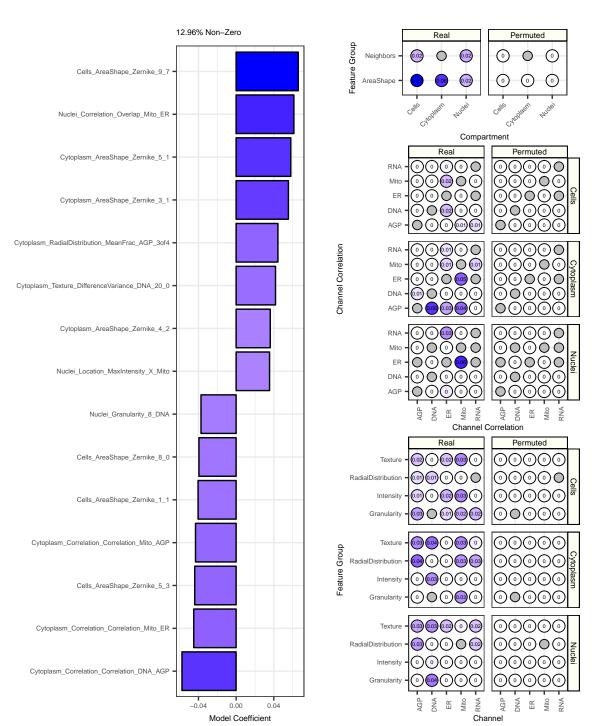


#### Live Width / Length



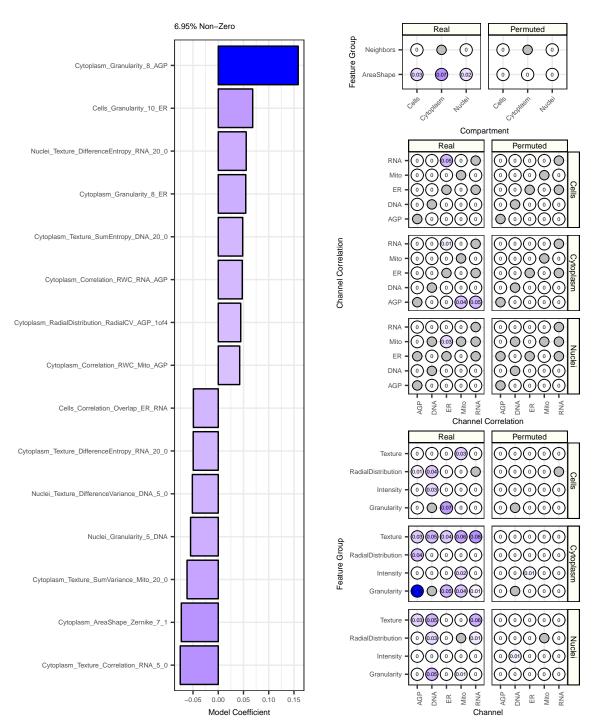


#### # Live Cells



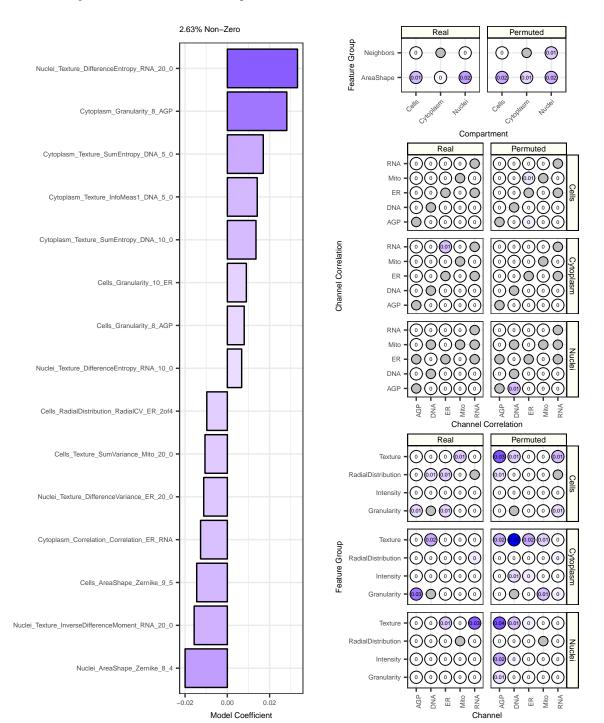


## % All Apoptosis (CASP+)



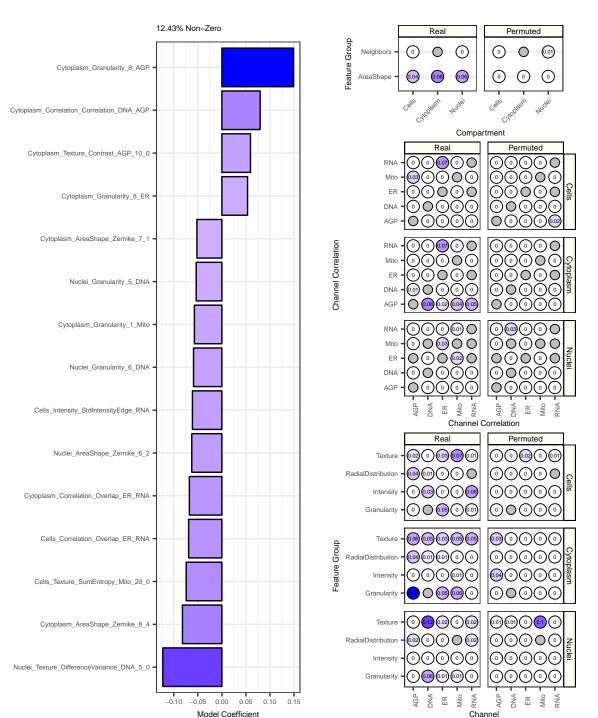


## % Caspase / % Dead Only



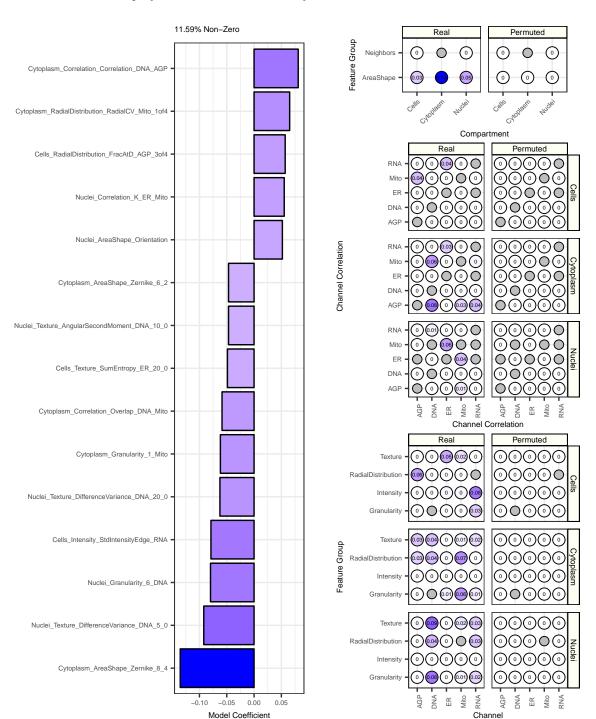


## % All Dead (DRAQ7+)



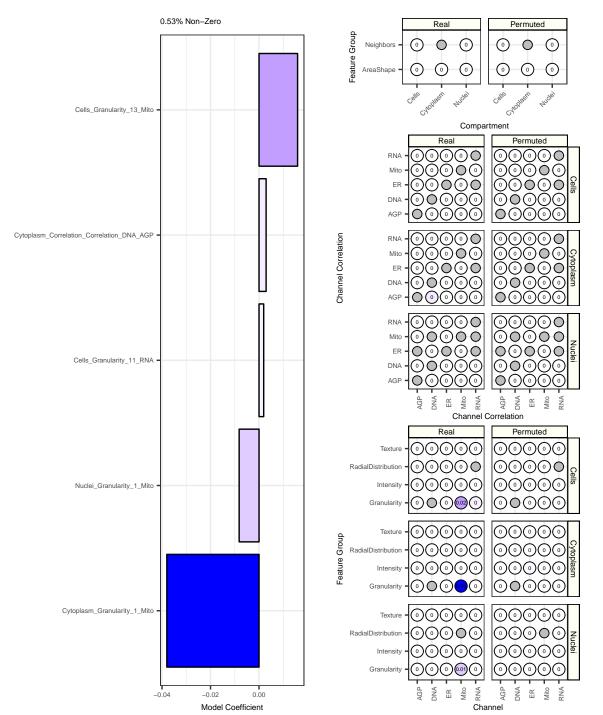


## % Dead Only (CASP-; DRAQ7+)



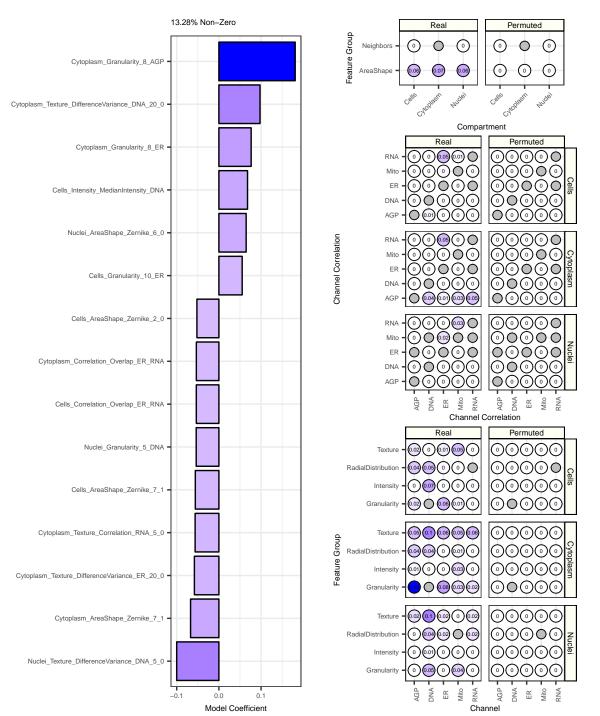


# % Early Apoptosis (CASP+; DRAQ7-)



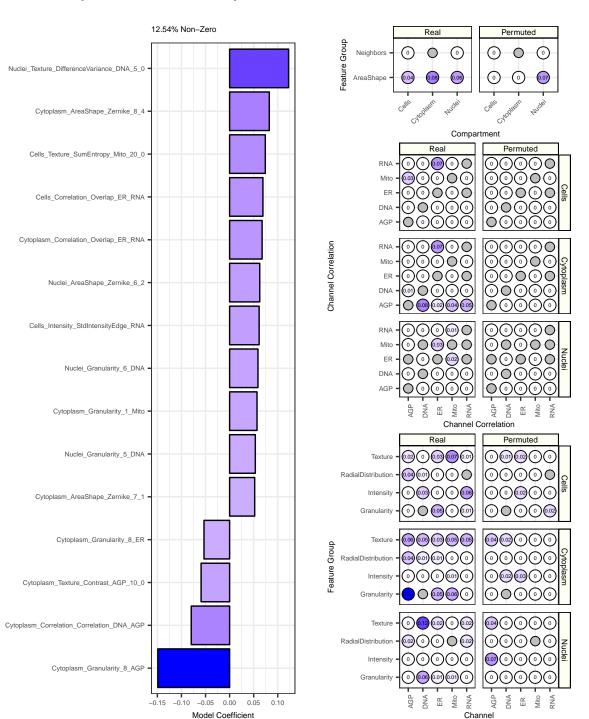


## % Late Apoptosis (CASP+; DRAQ7+)



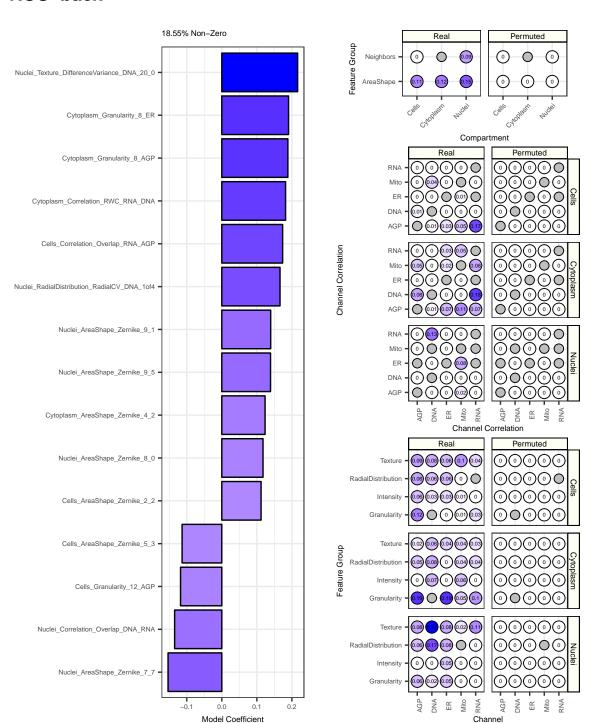


#### % Live (DRAQ7-; CASP-)





#### **ROS-back**





#### ROS

