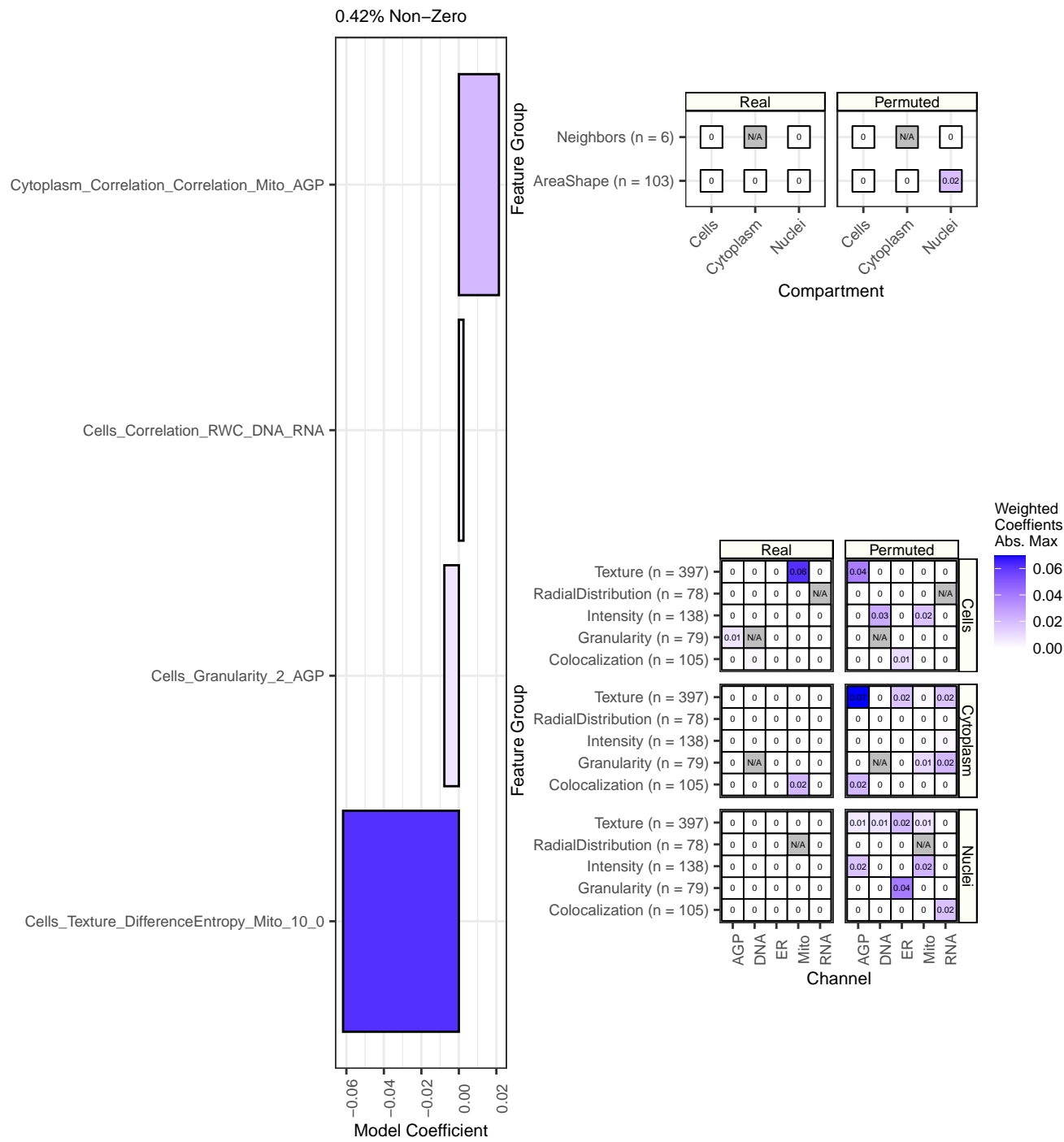
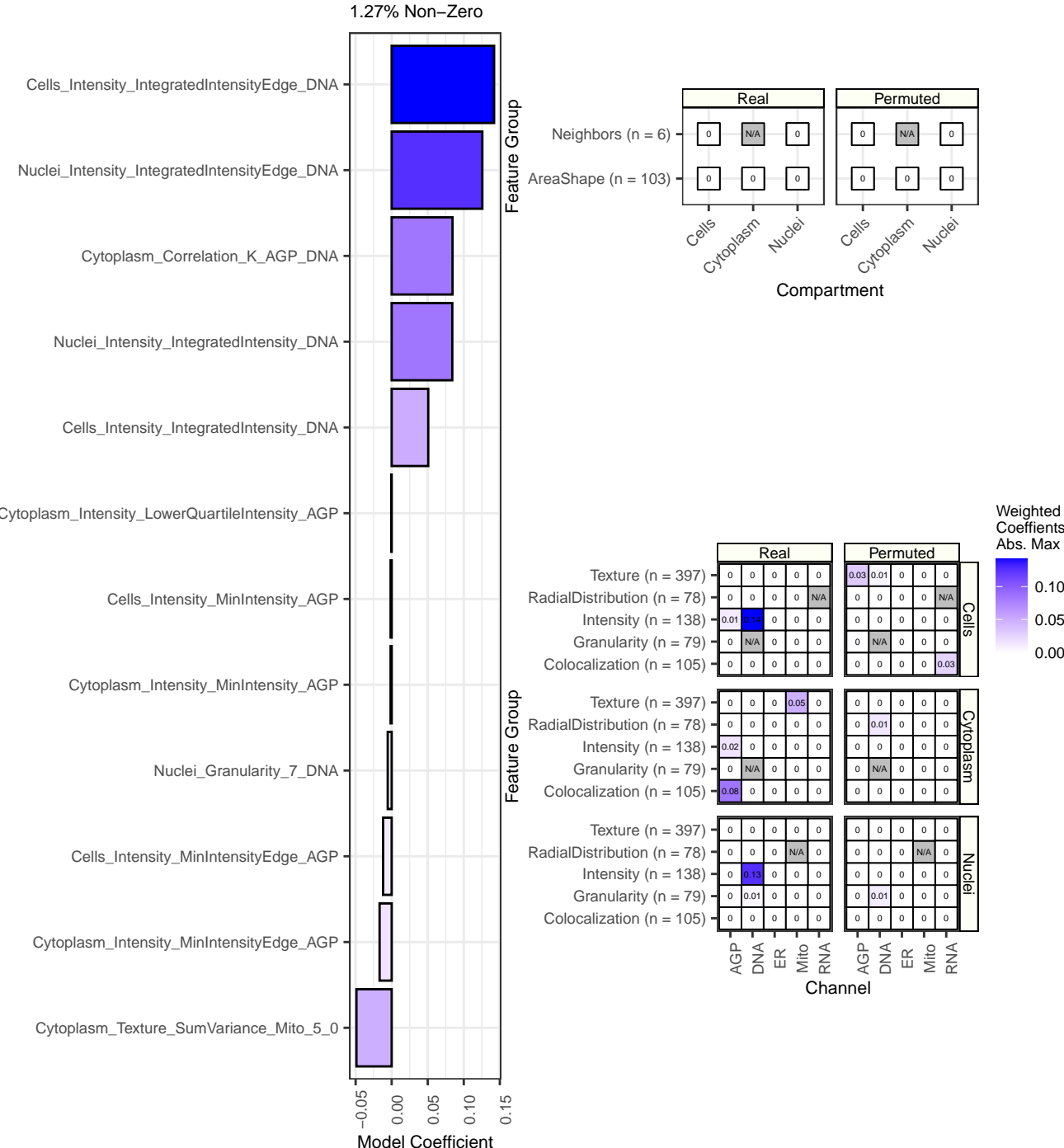


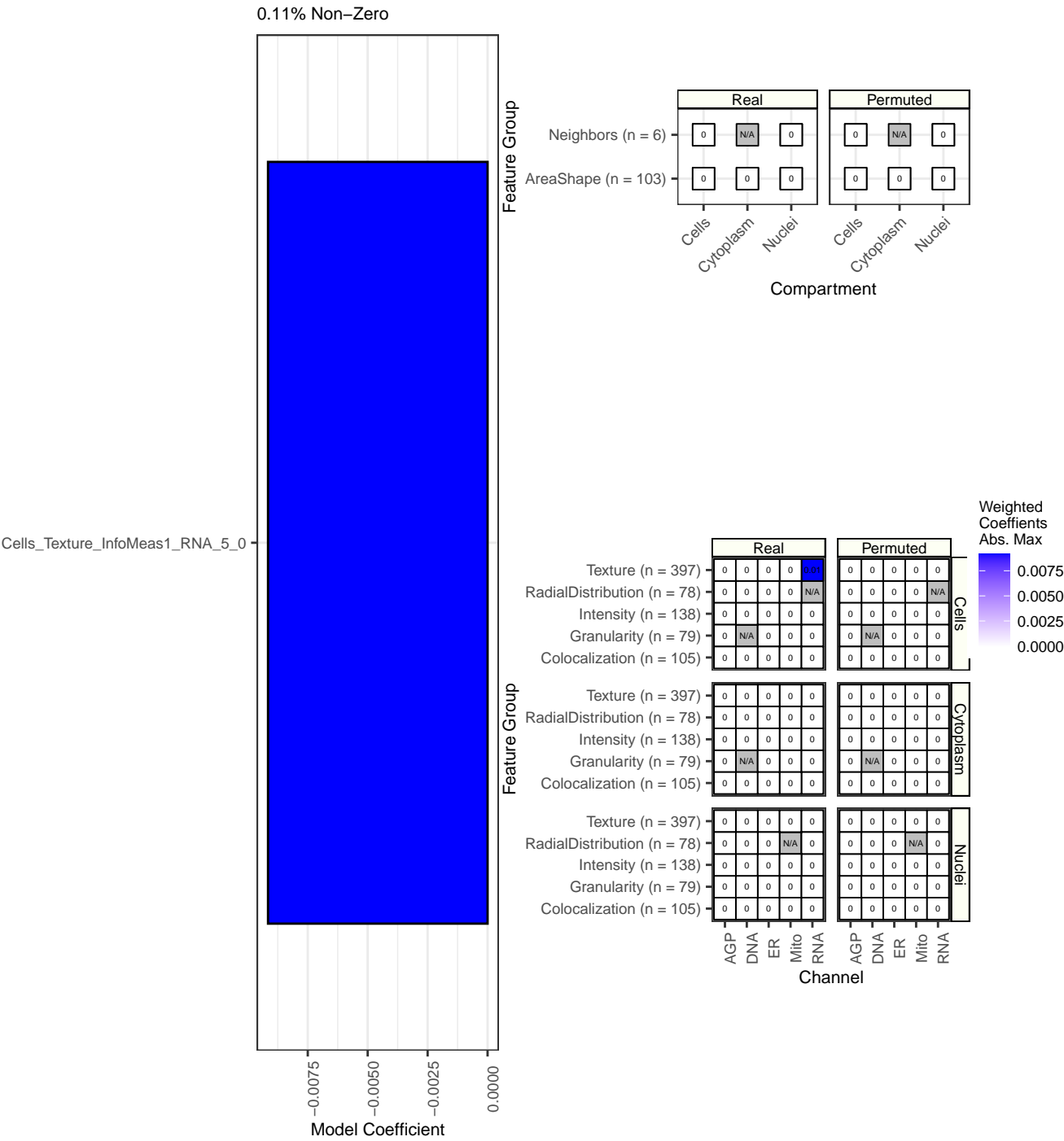
ALL – % High gH2AX Spots



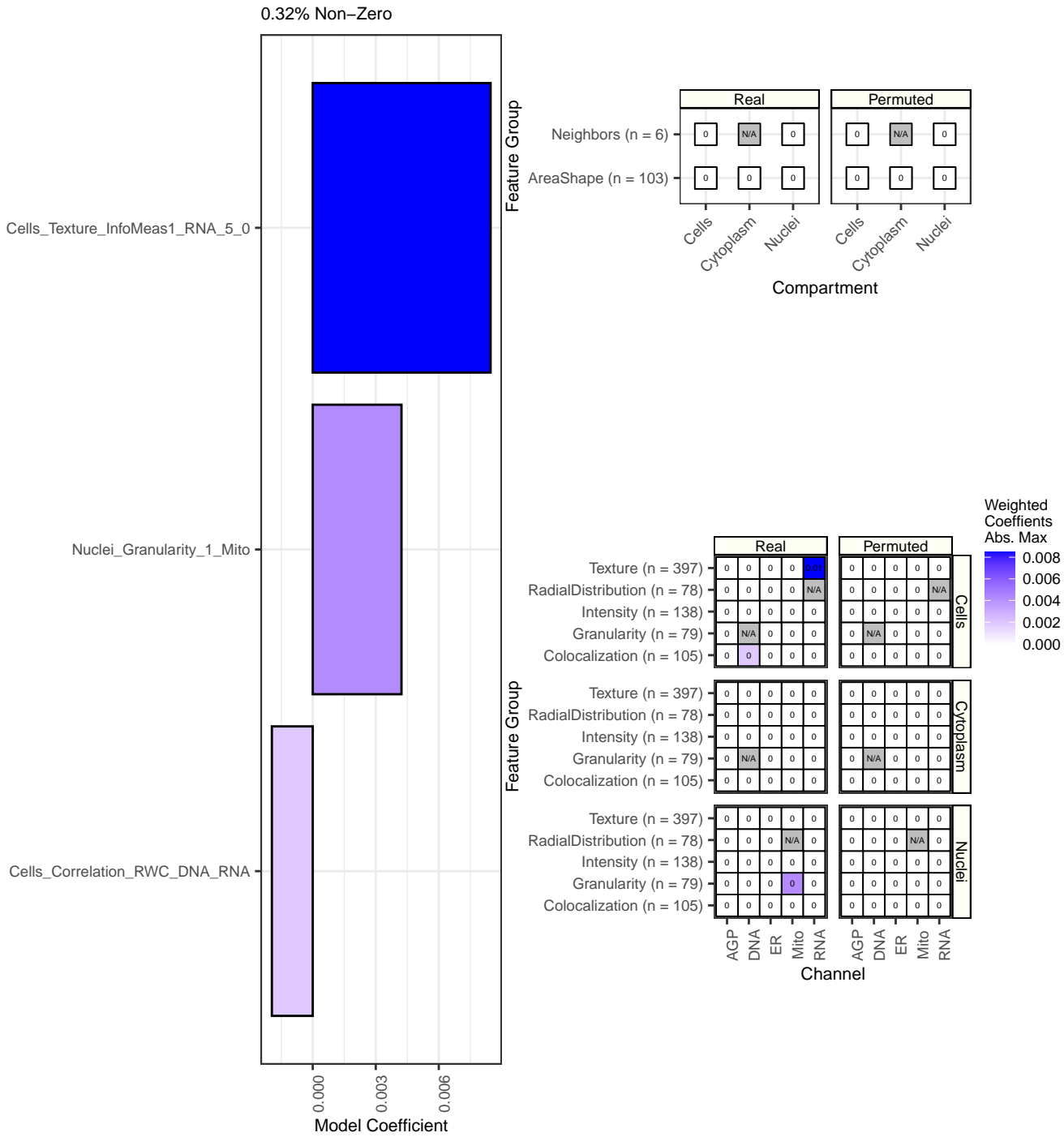
ALL – Polynuclear



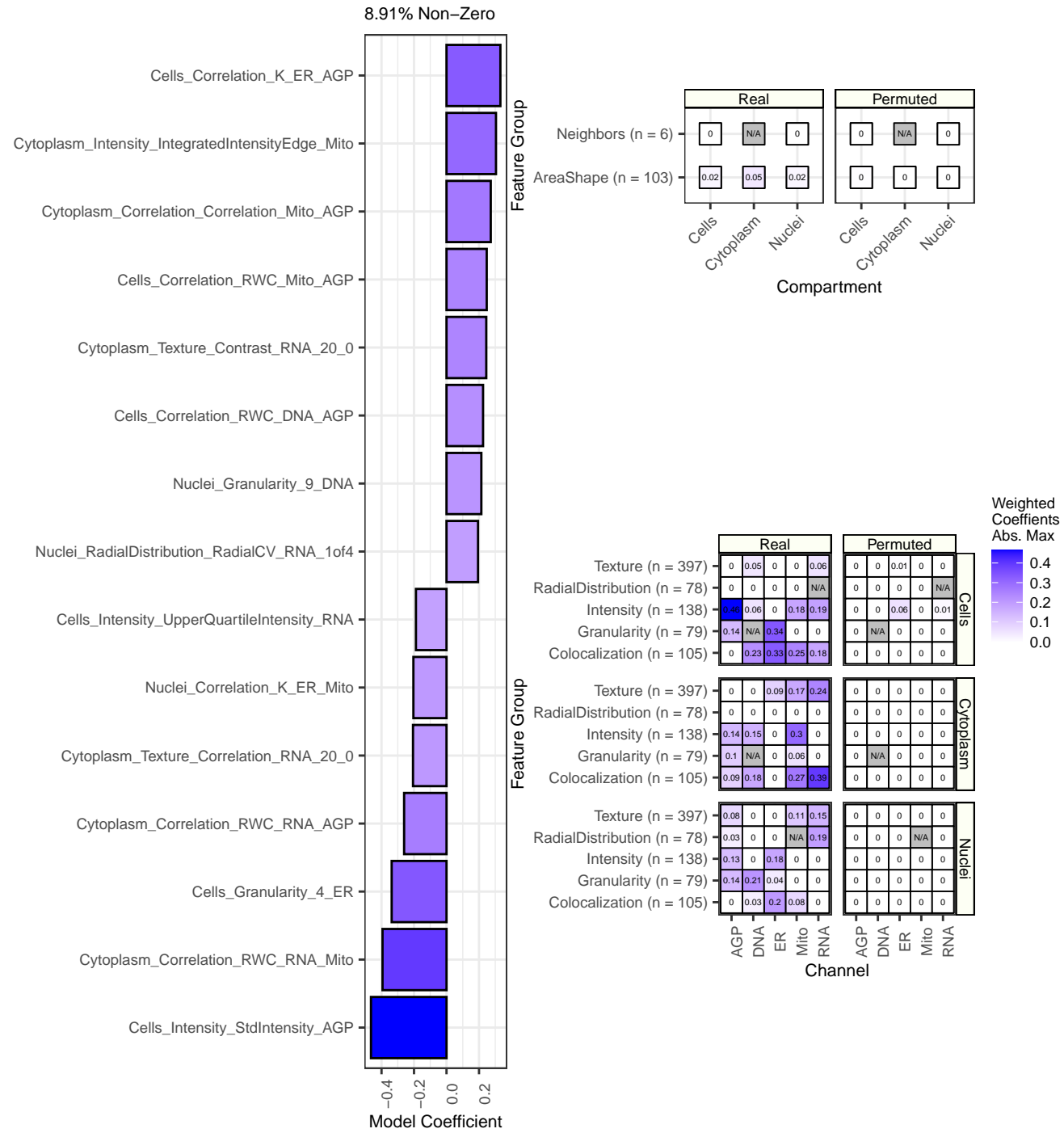
ALL – Polyploid



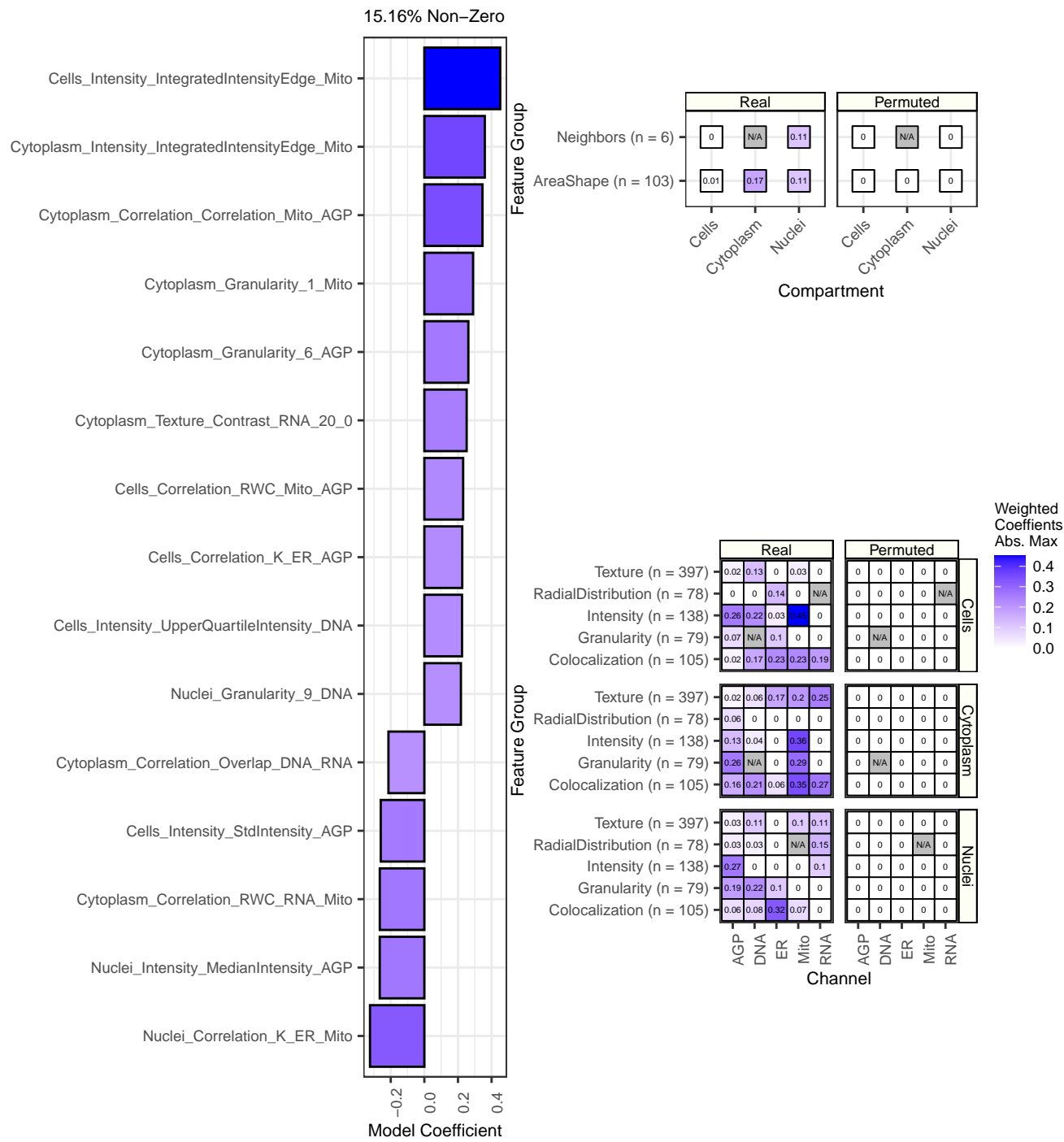
ALL – # cells



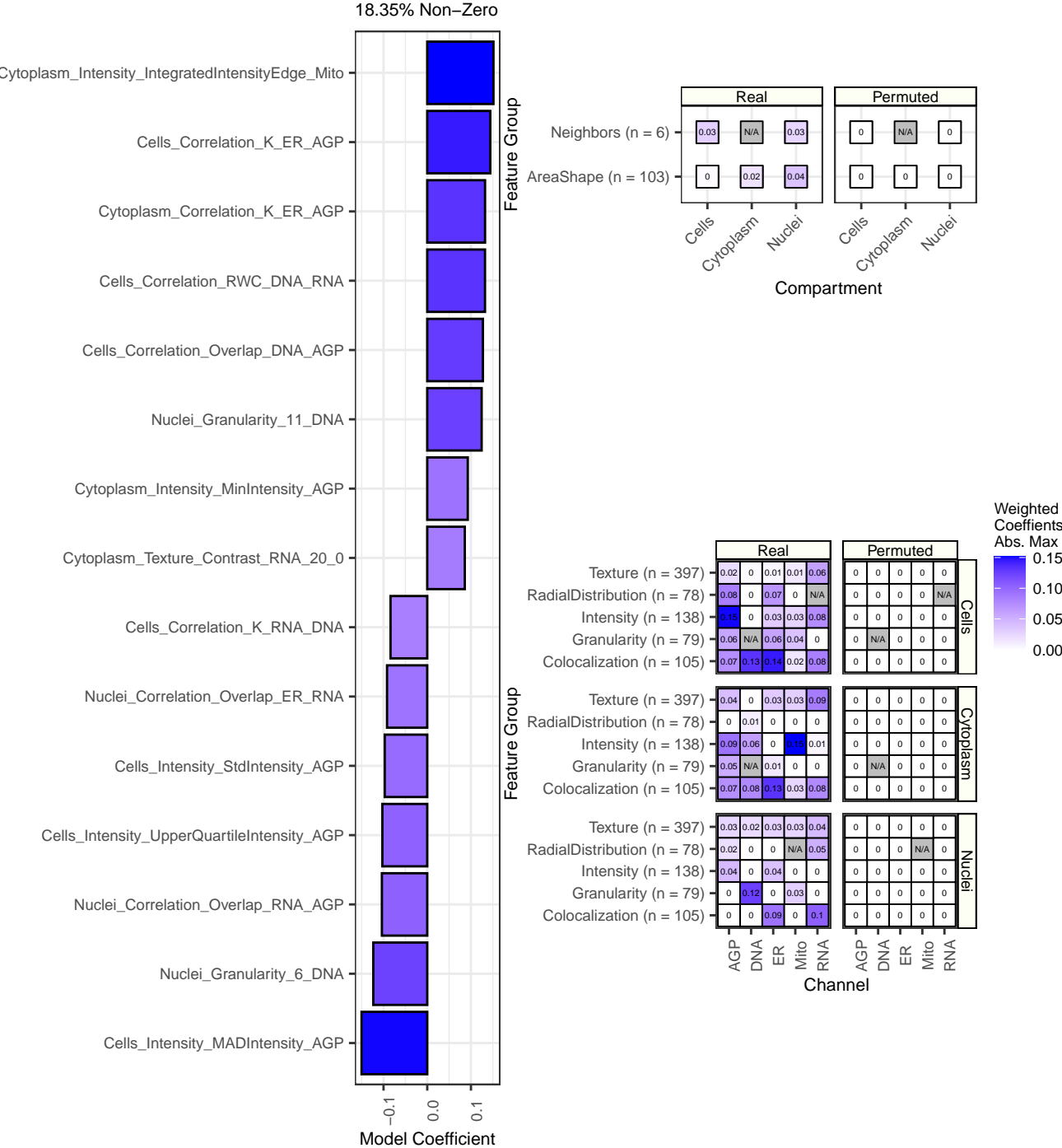
ALL – # of gH2AX Spots



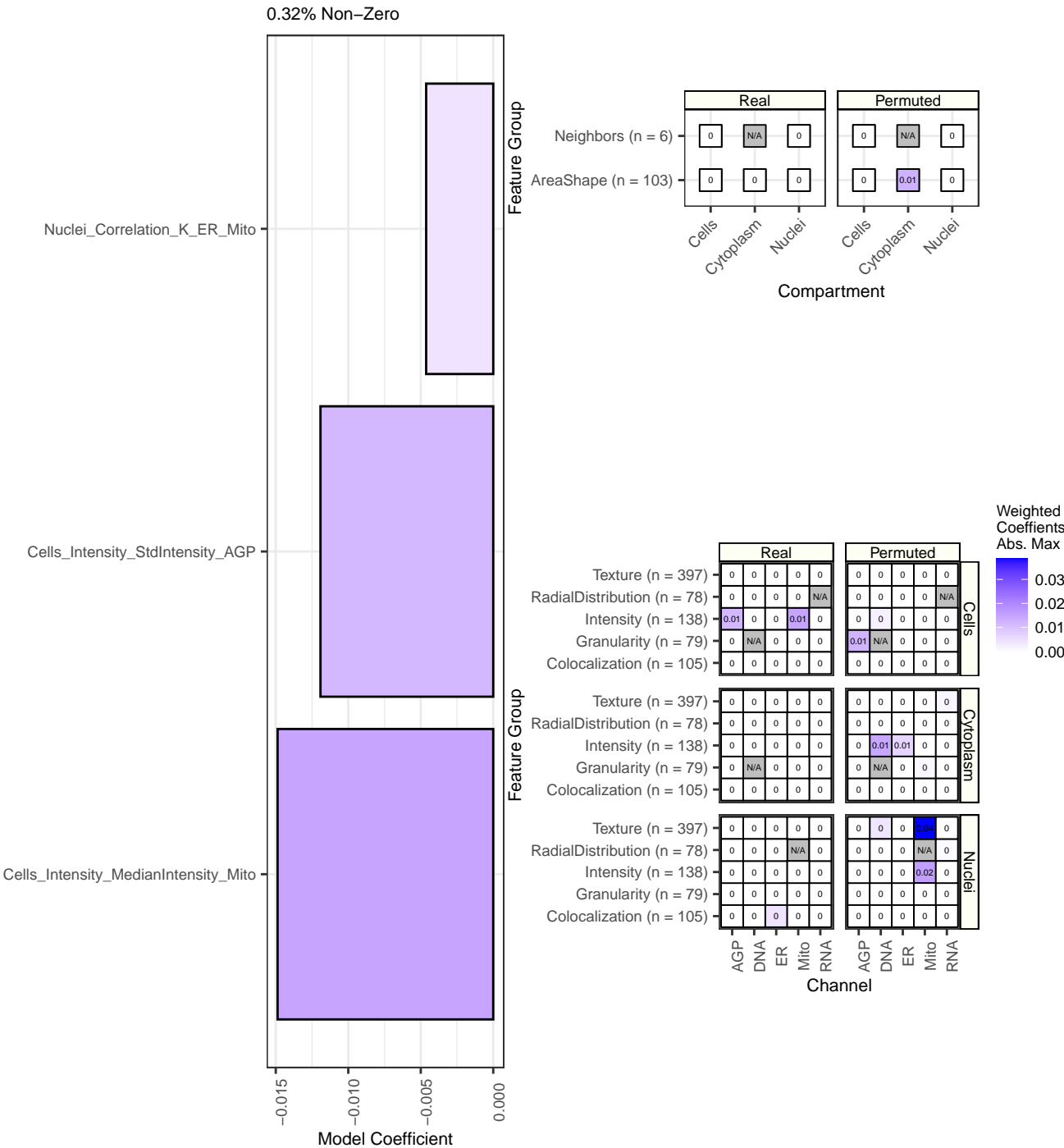
# ALL – # of gH2AX Spots per Area of Nucleus



ALL – Nucleus Area

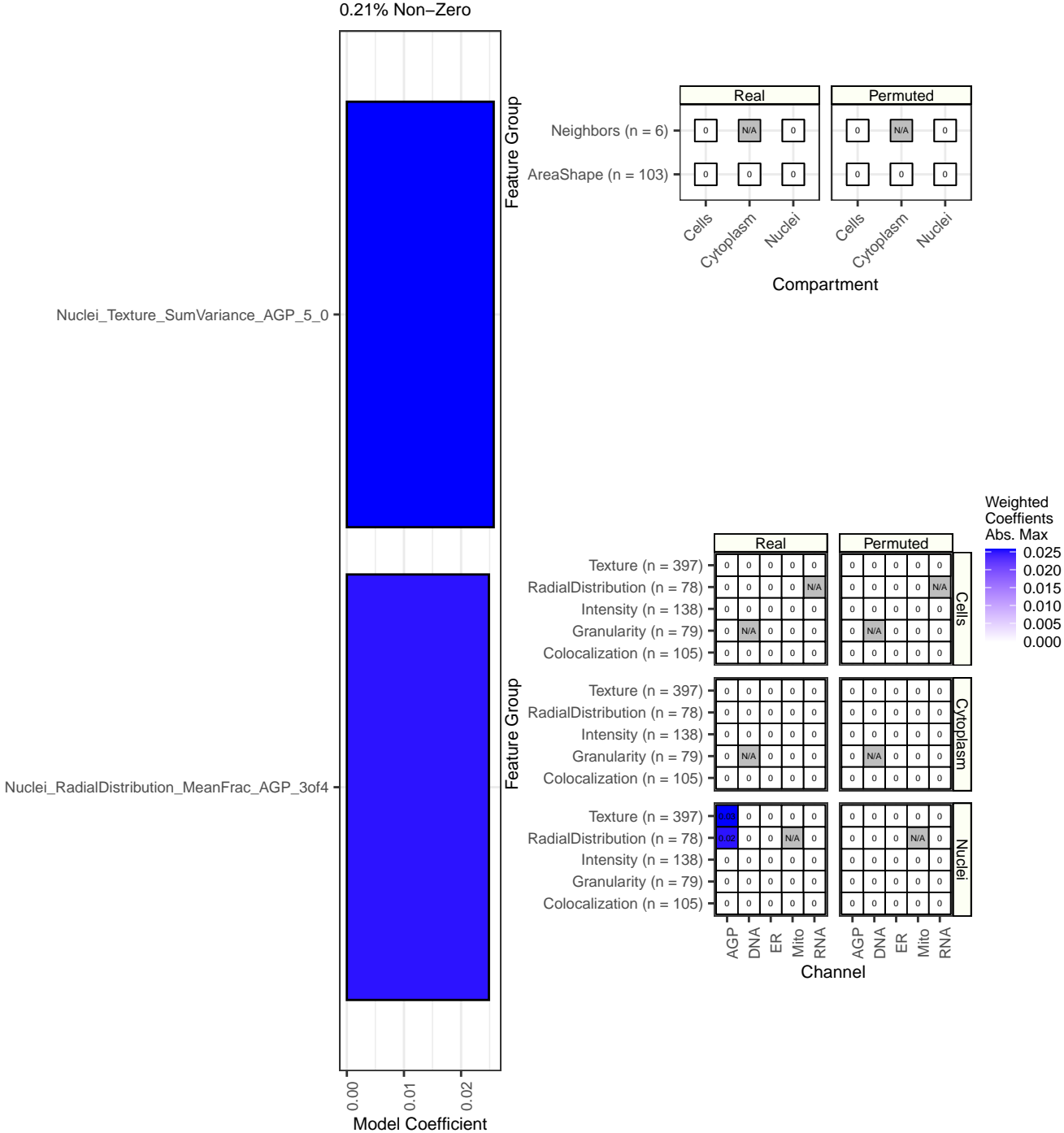


ALL – Nucleus Roundness



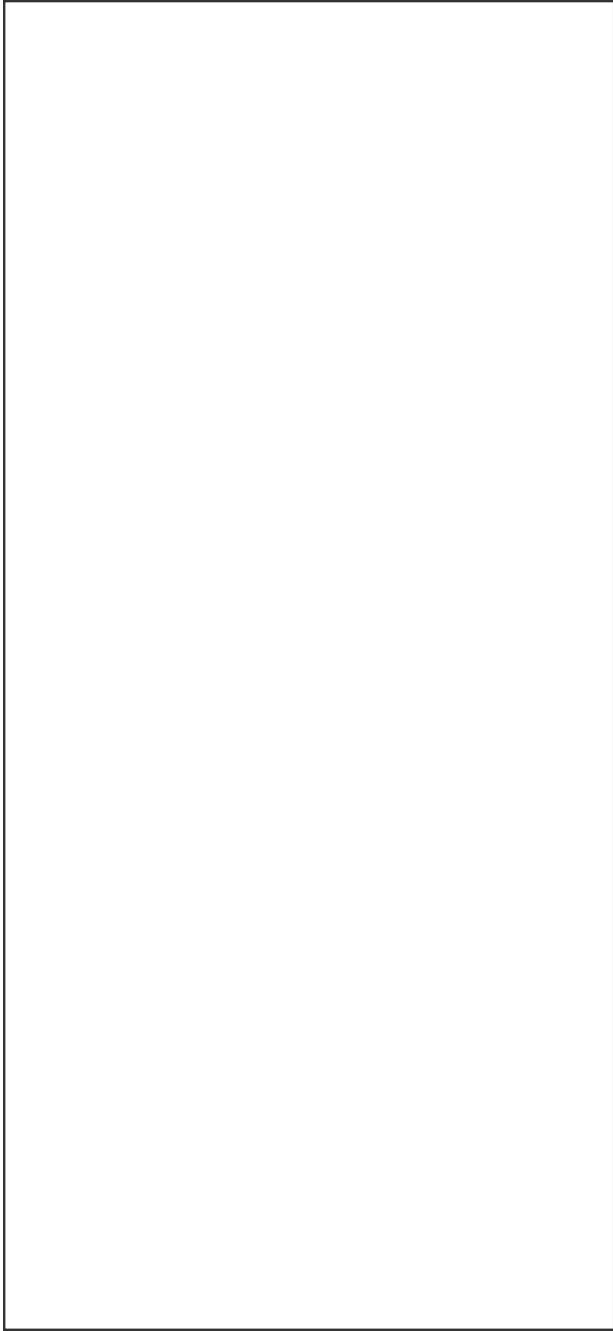


## CC – % early M



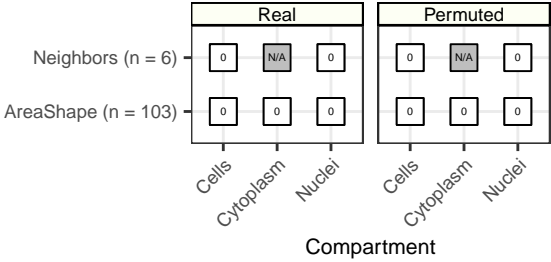
CC – % G1

0% Non-Zero

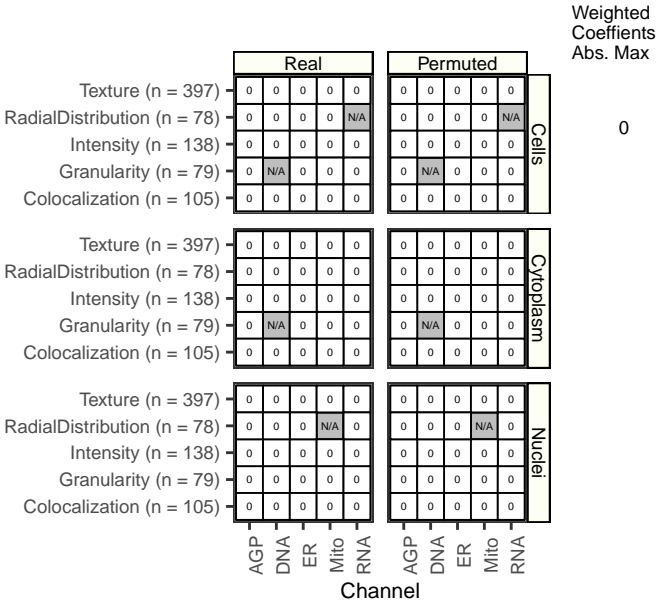


Model Coefficient

Feature Group

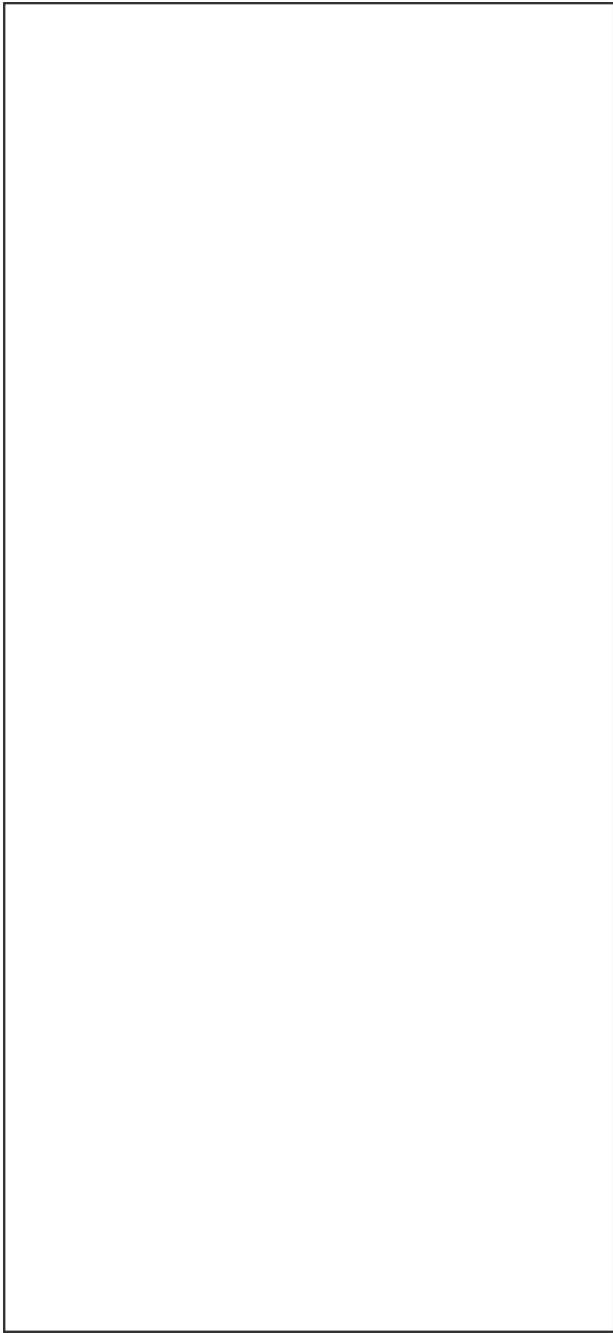


Feature Group

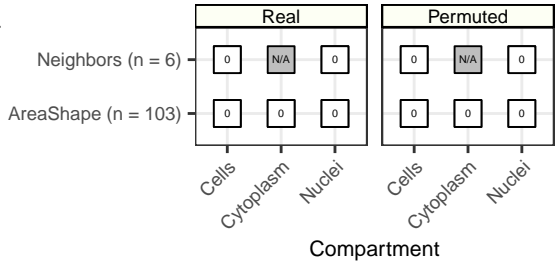


CC – % G2

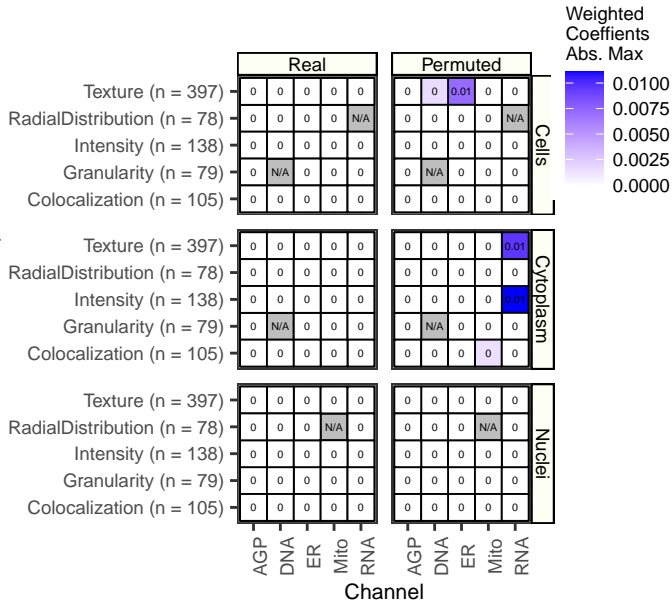
0% Non-Zero



Feature Group

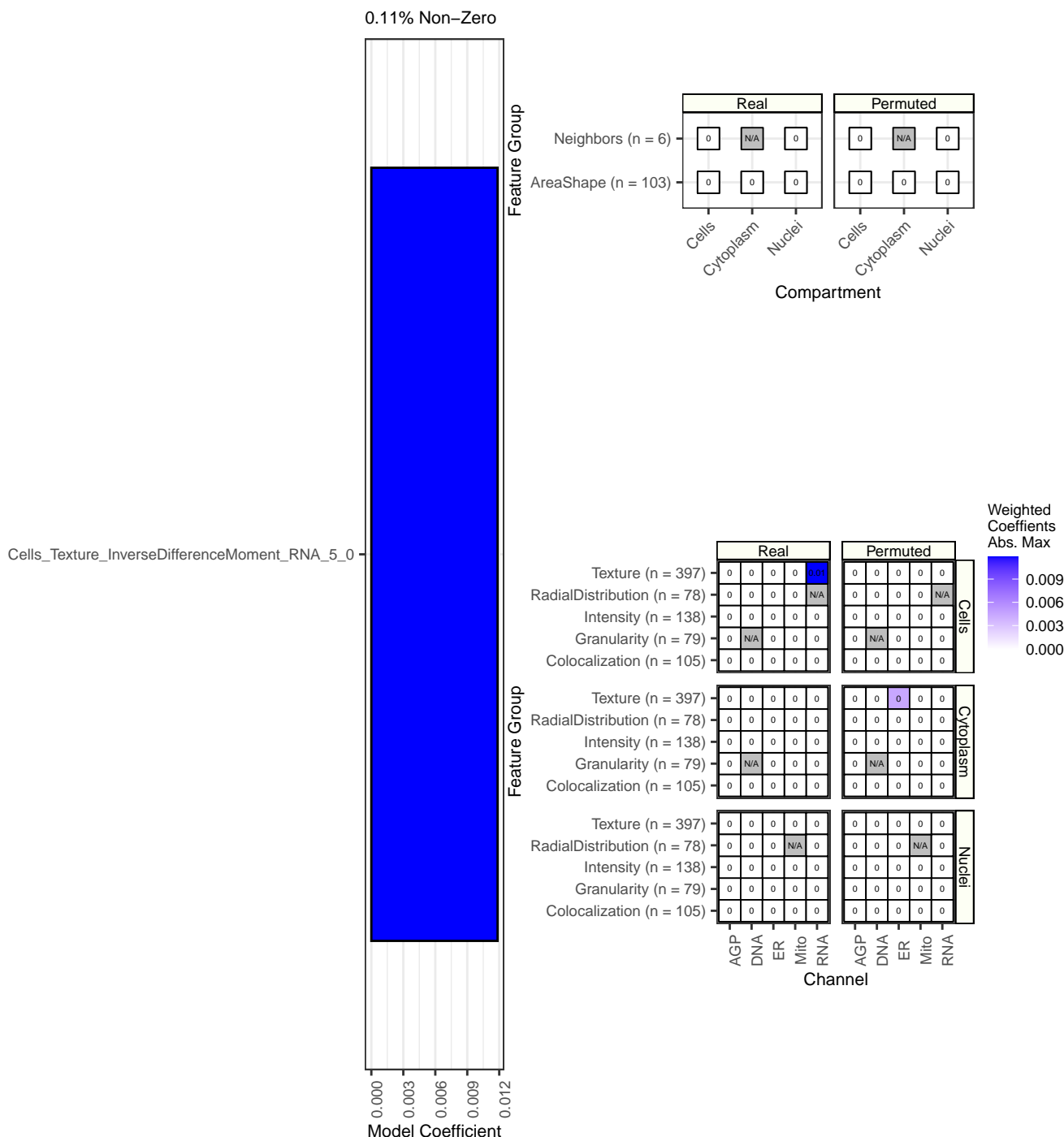


Feature Group

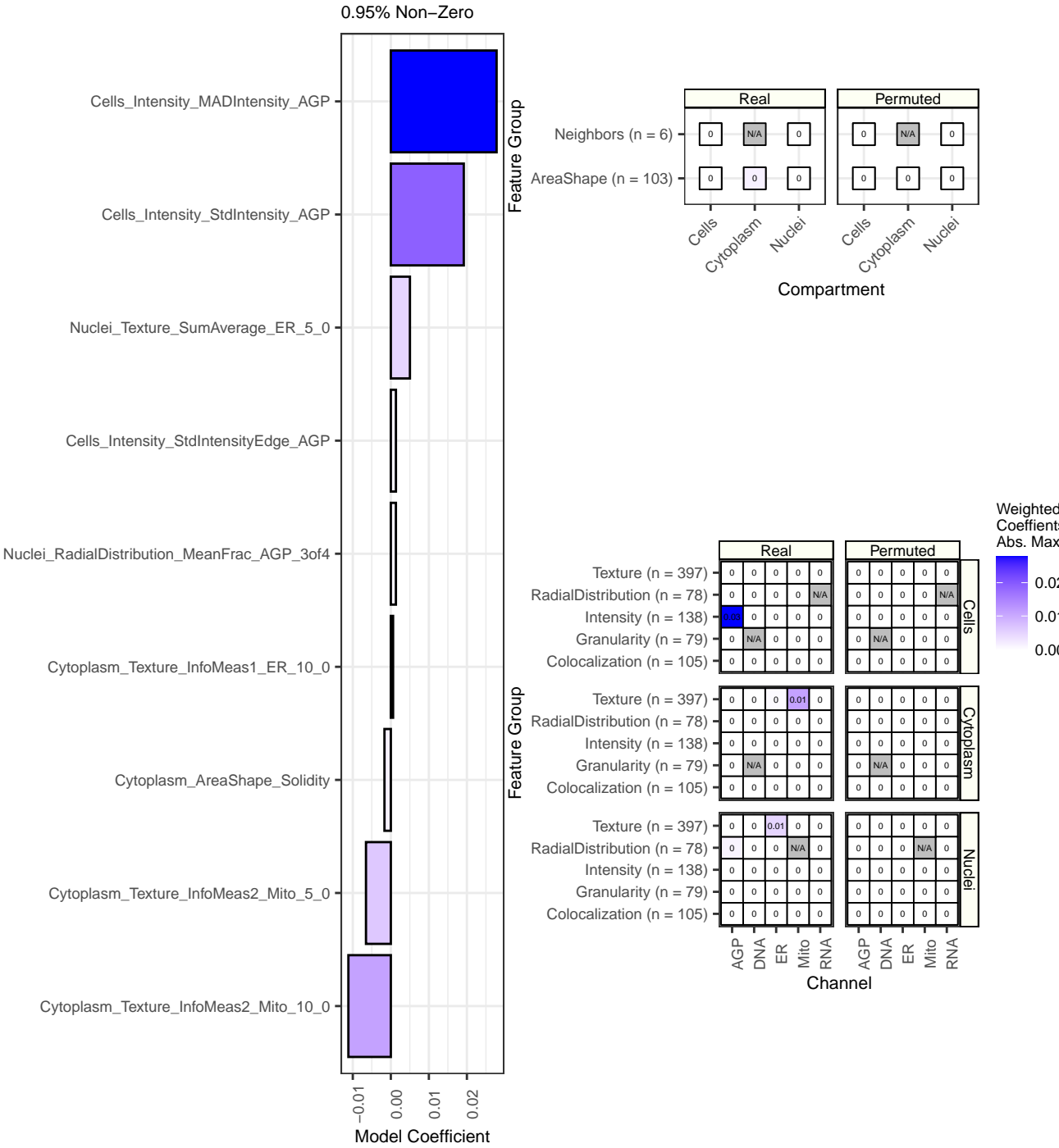


Model Coefficient

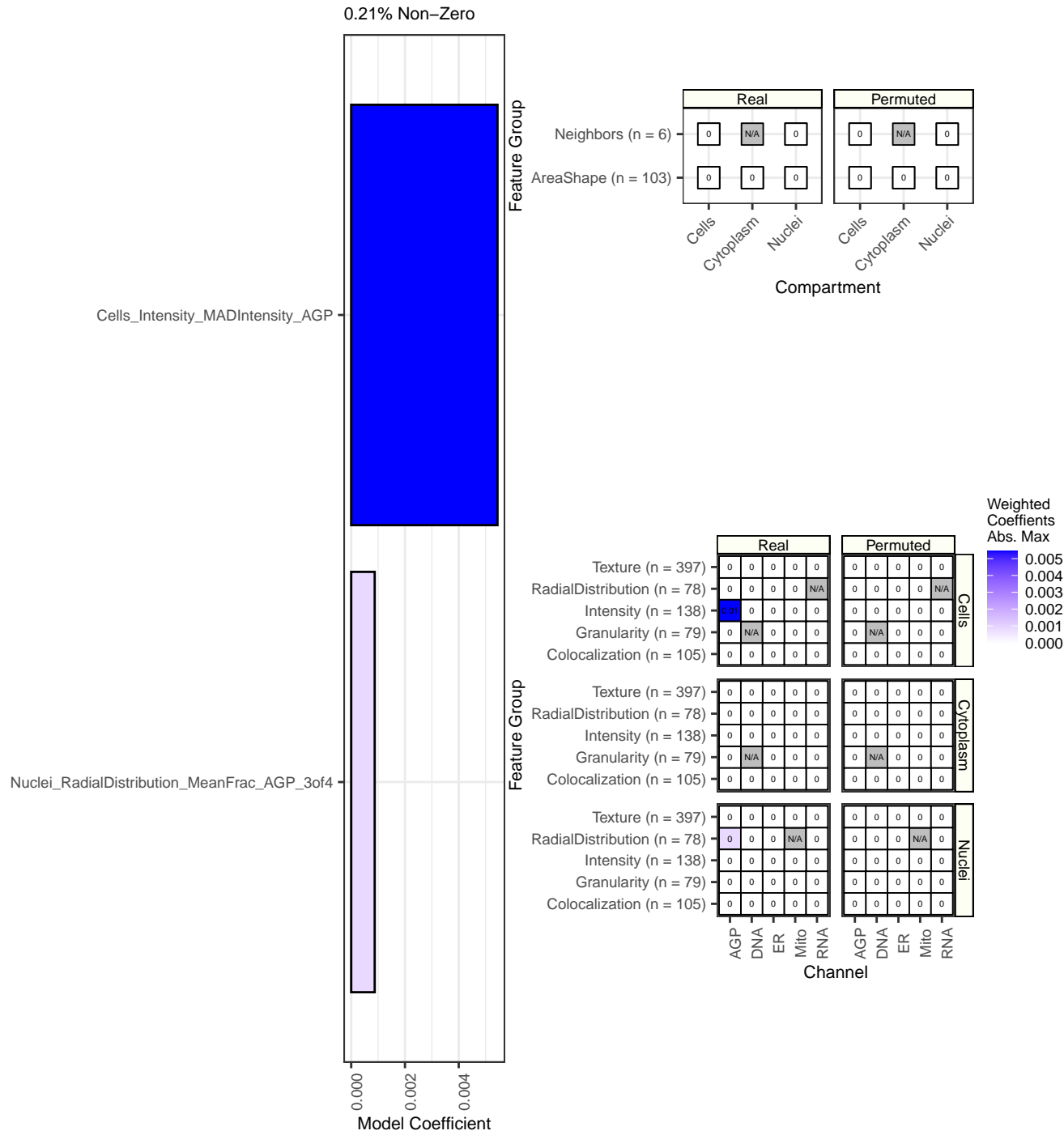
CC – % High gH2AX spots



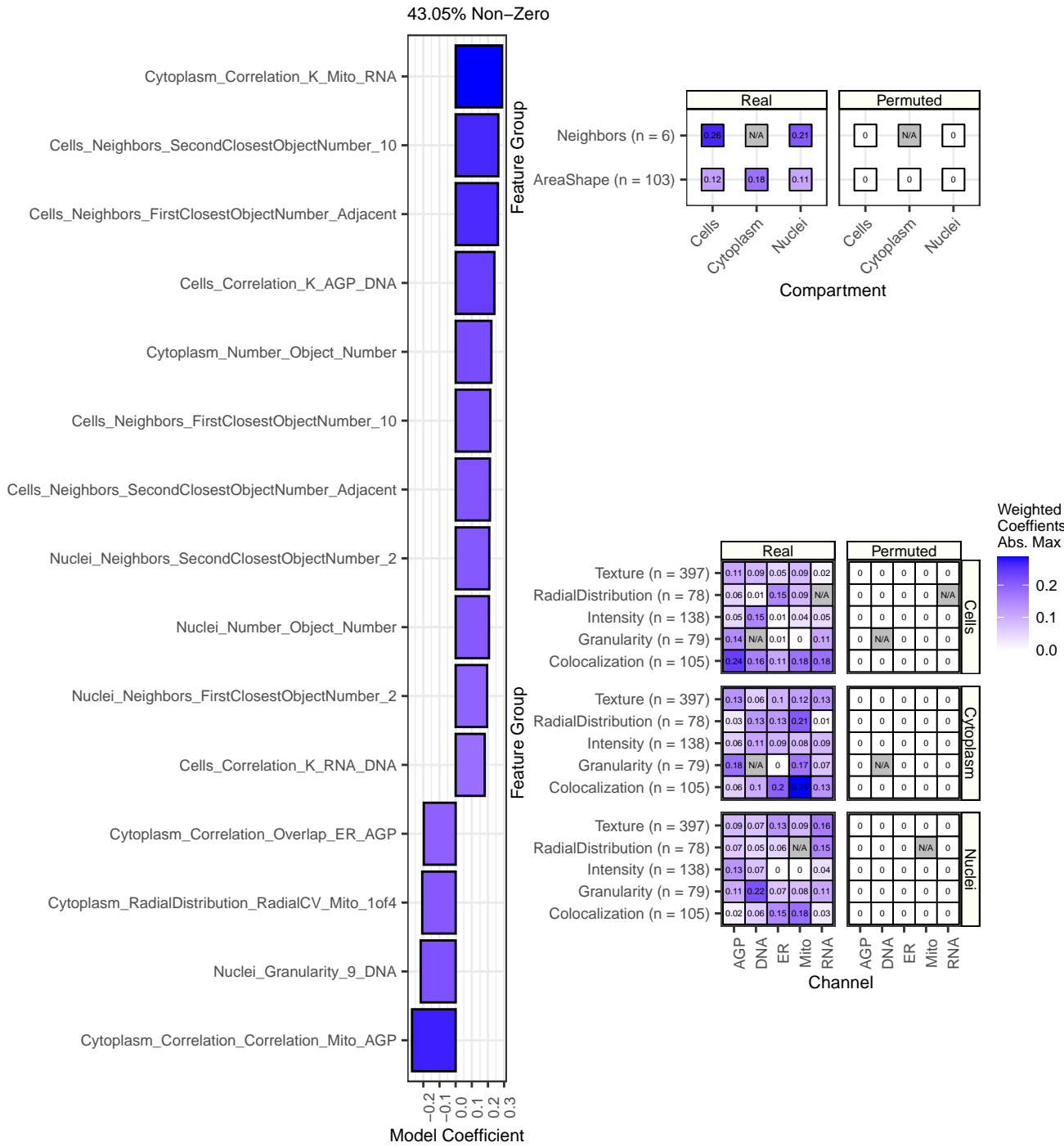
CC – % Late M



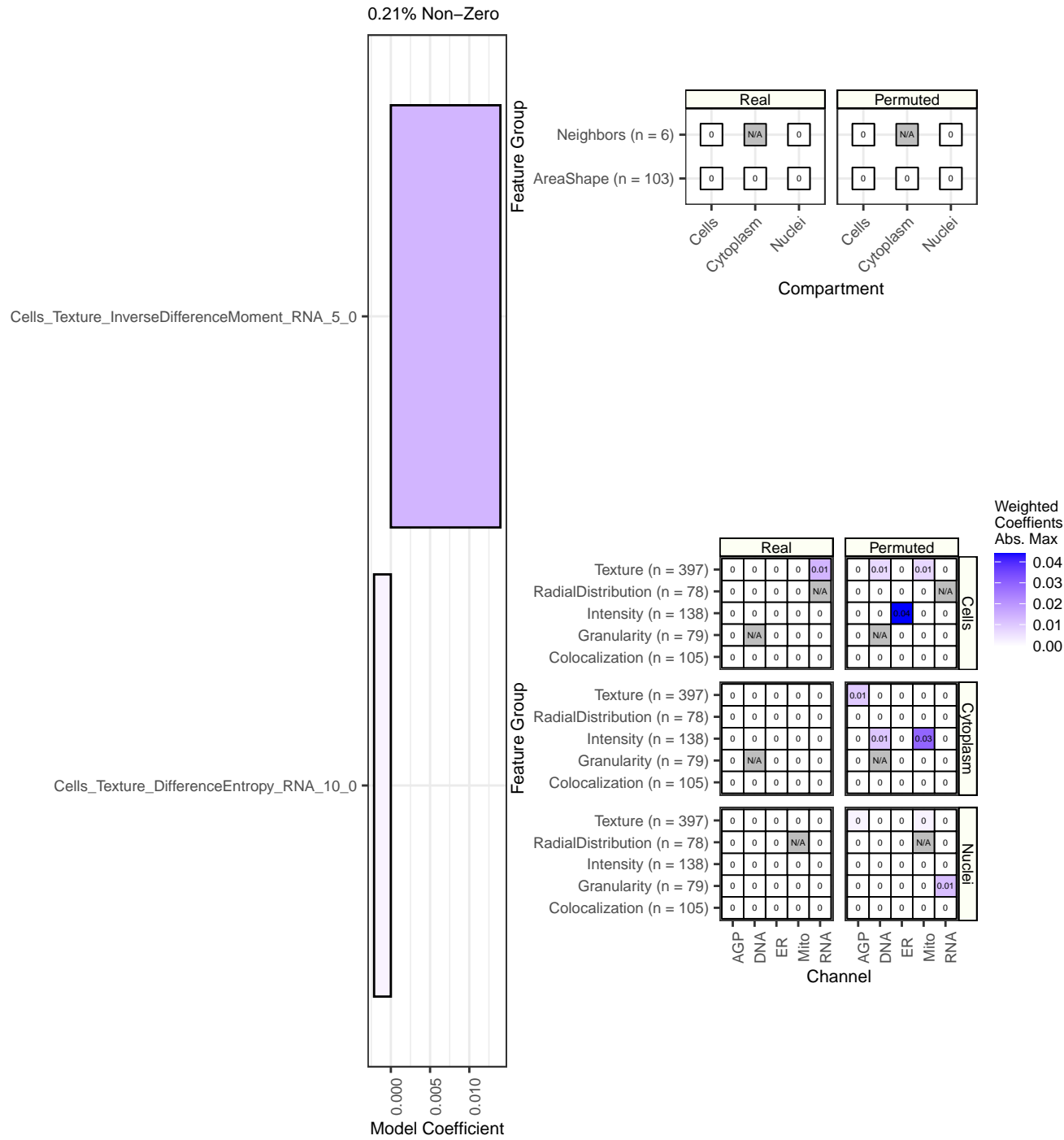
CC - % M



CC – # cells

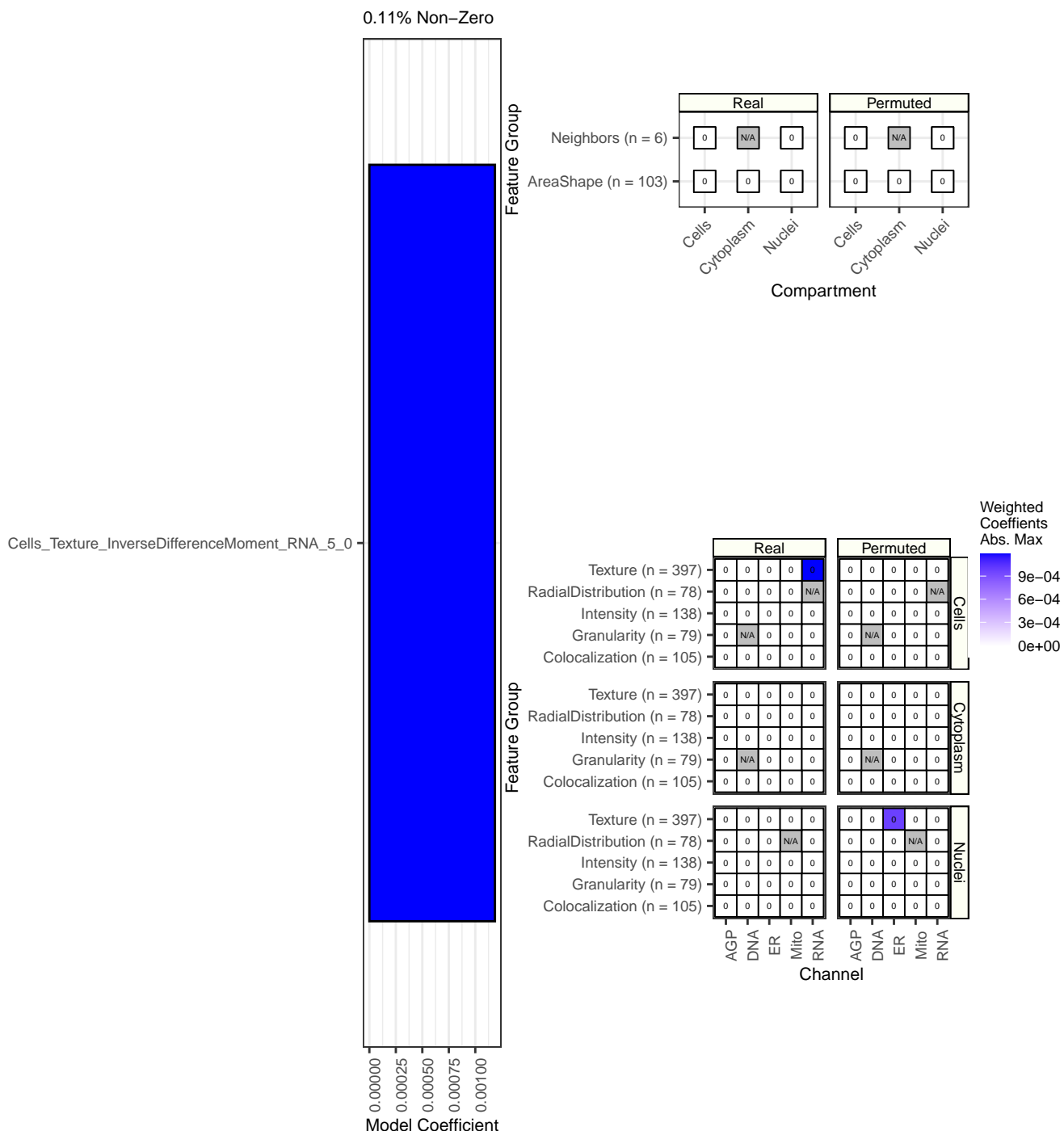


CC – # of gH2AX Spots



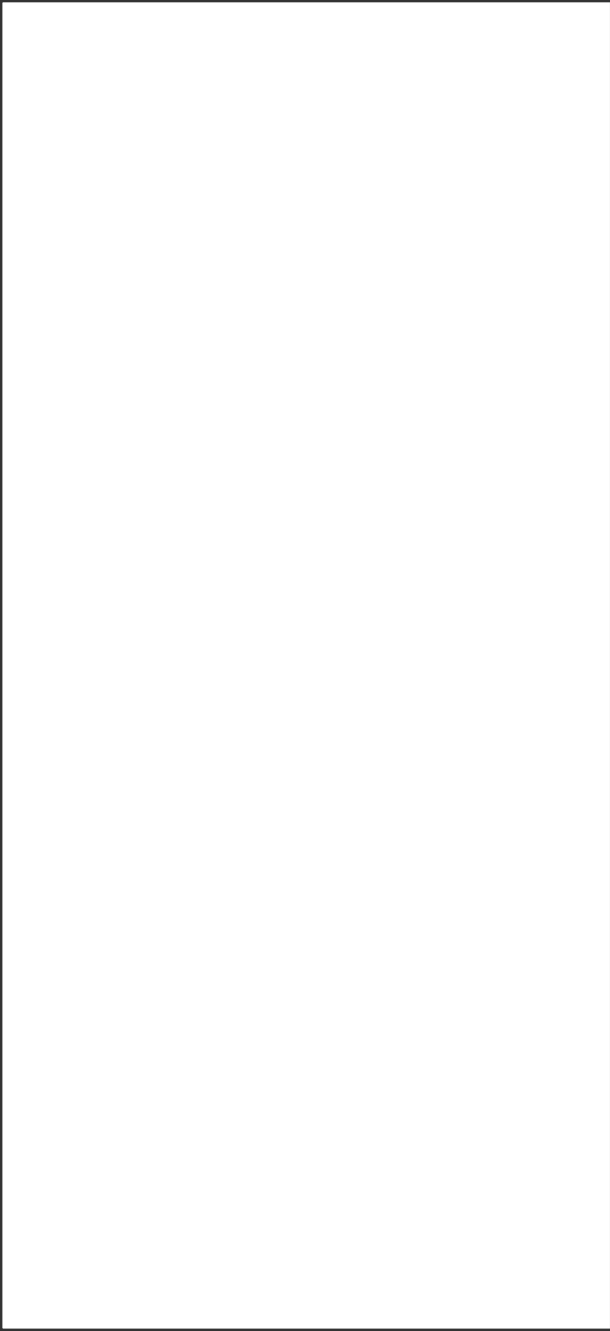


# CC – # of gH2AX Spots per Area of Nucleus

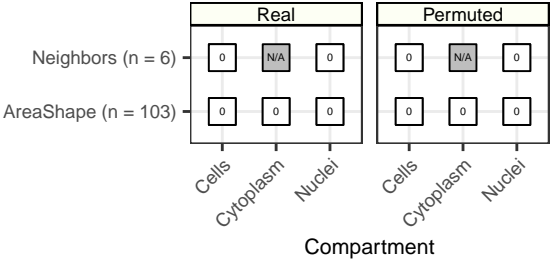


CC - % S

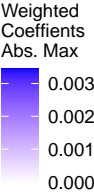
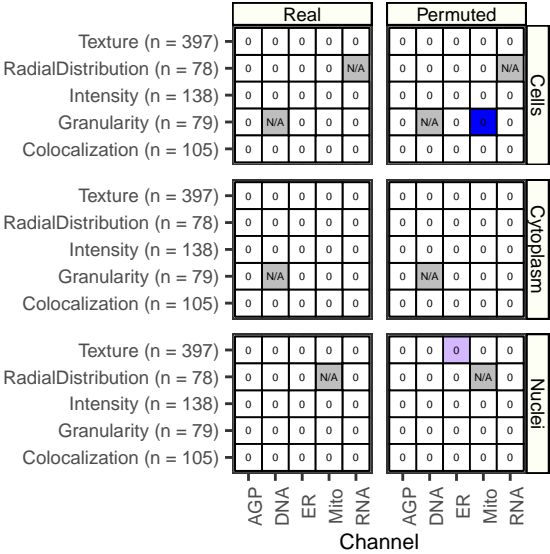
0% Non-Zero



Feature Group

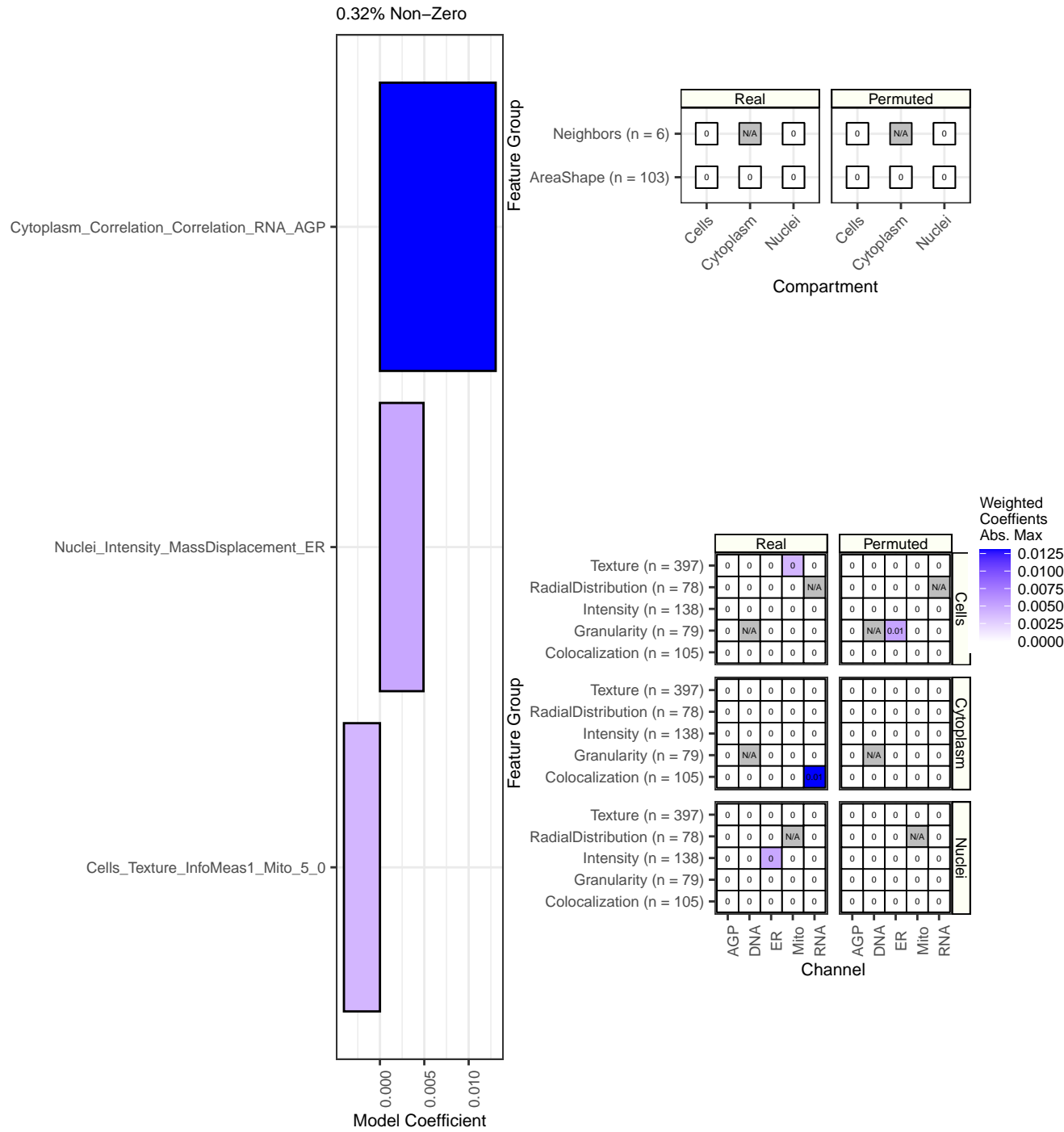


Feature Group

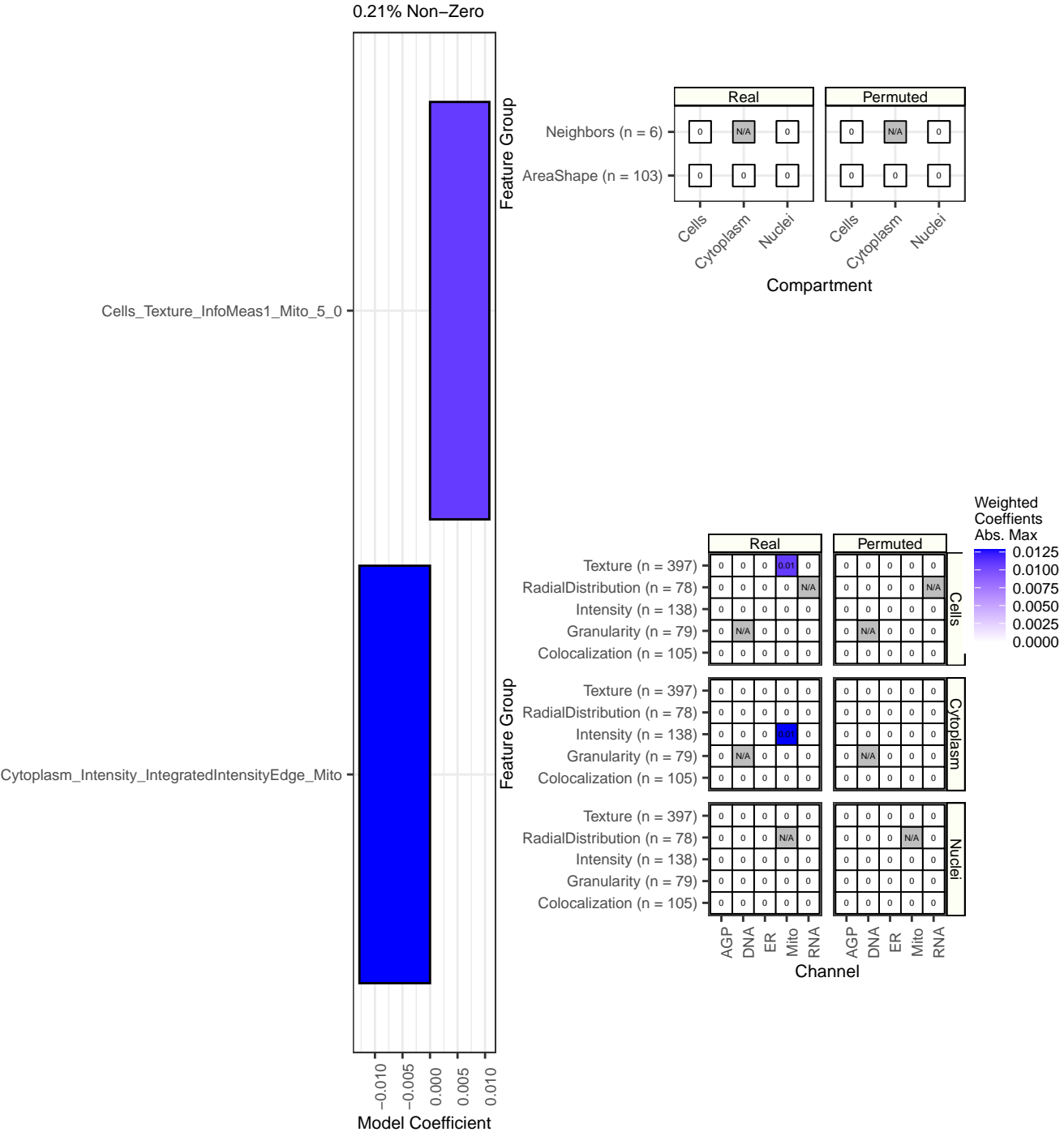


Model Coefficient

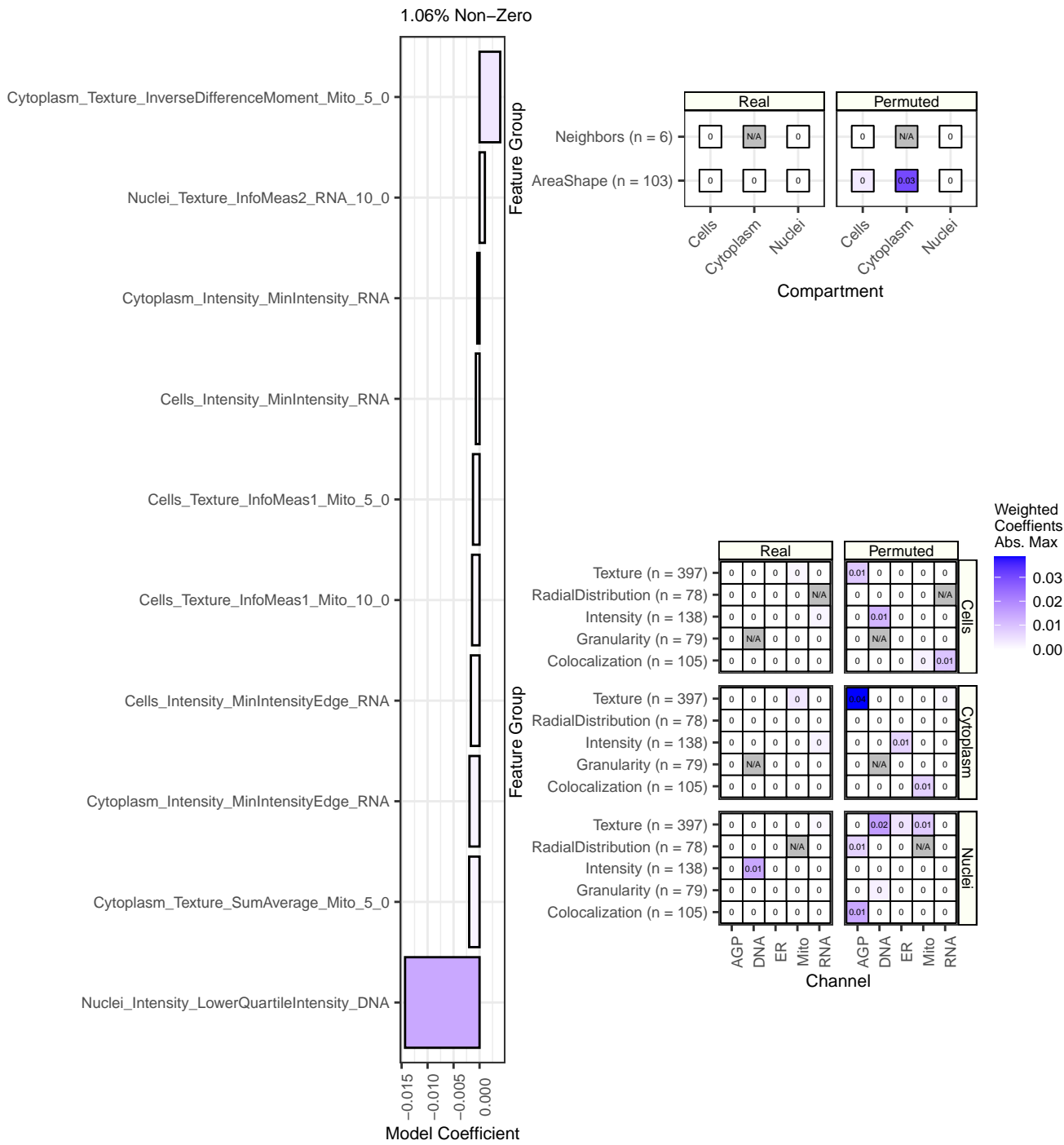
early M – % High gH2AX Spots



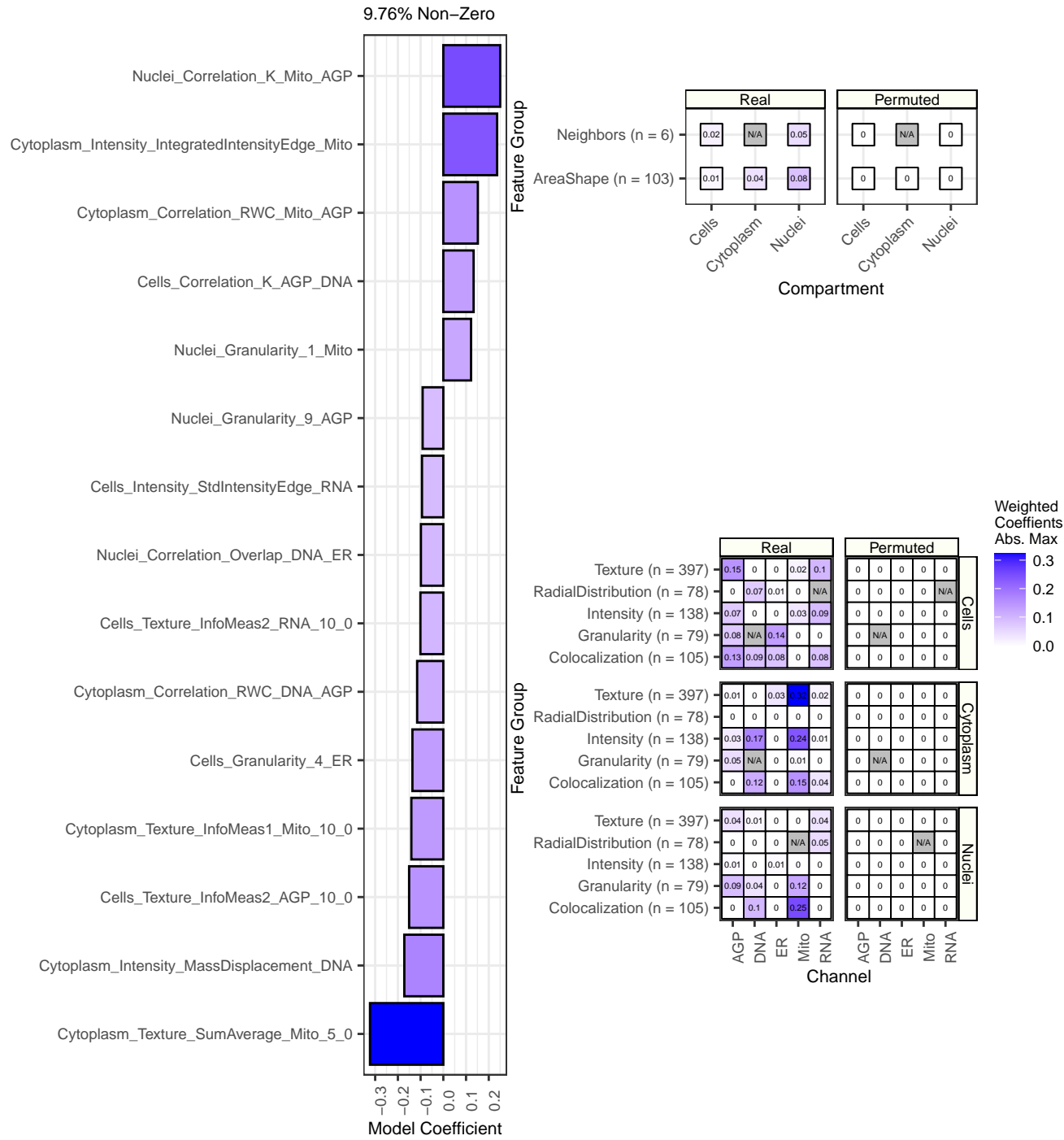
early M – # cells



**early M – # of gH2AX Spots**

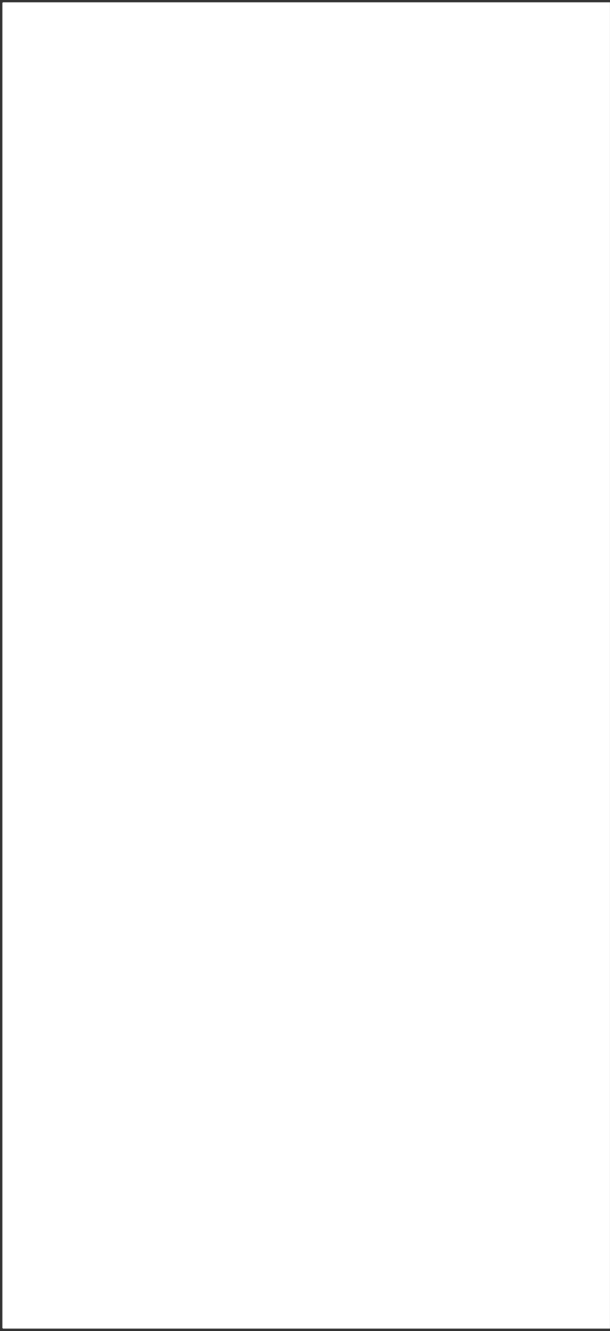


early M – # of gH2AX Spots per Area of Nucleus

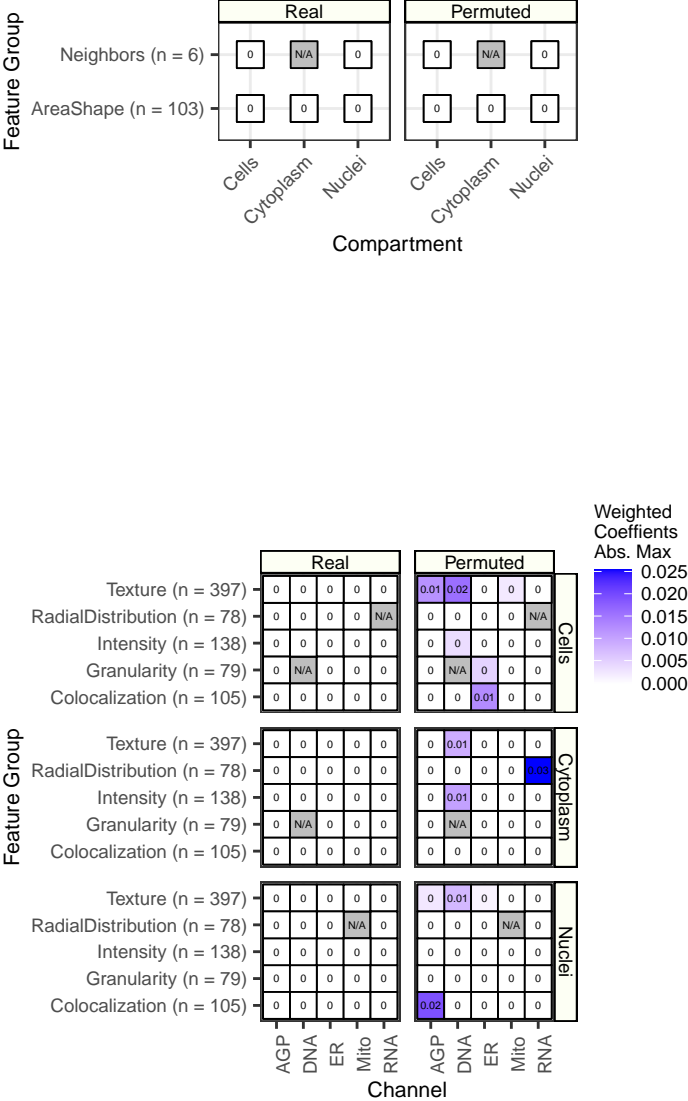


G1 – % High gH2AX Spots

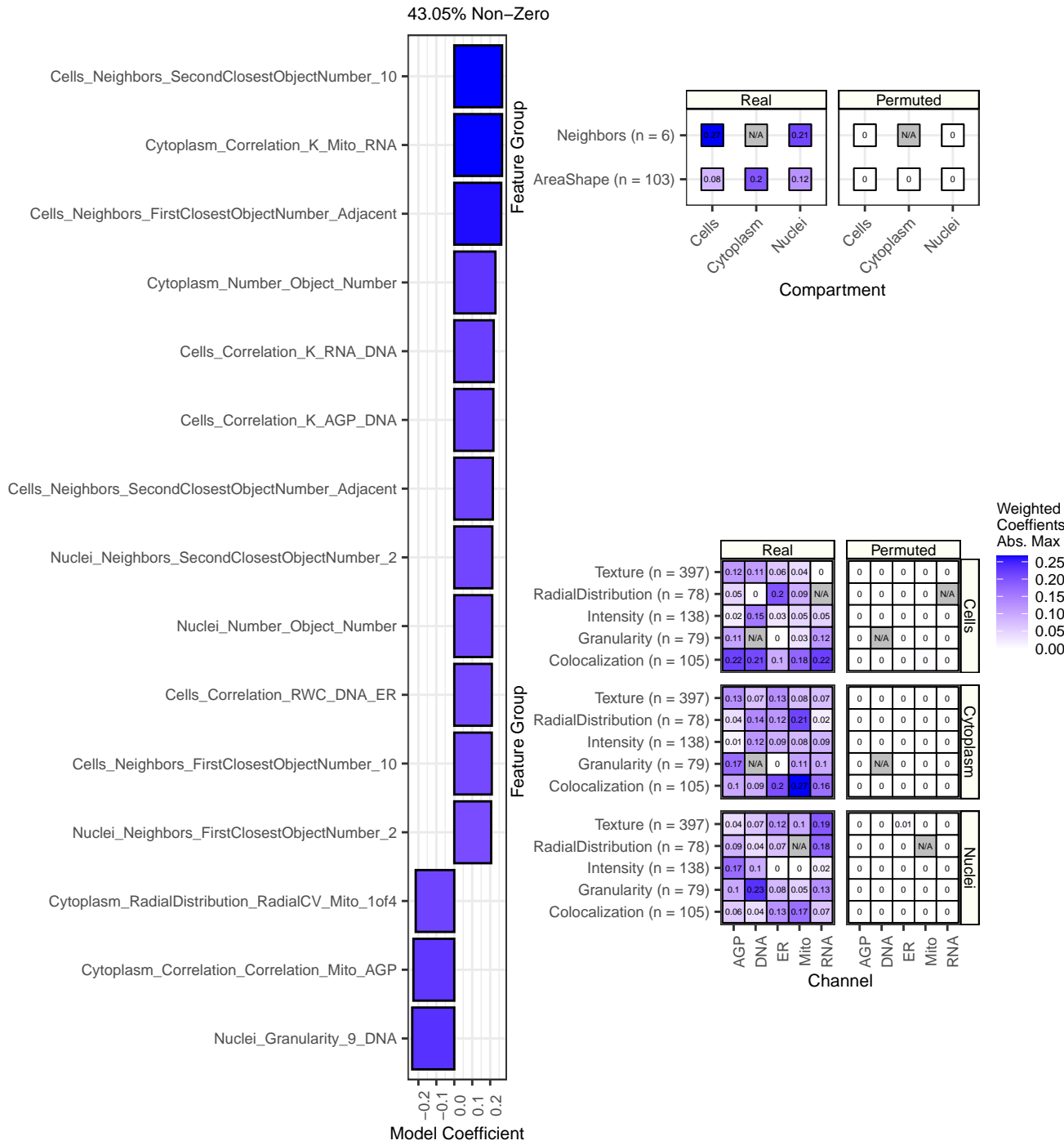
0% Non-Zero



Model Coefficient



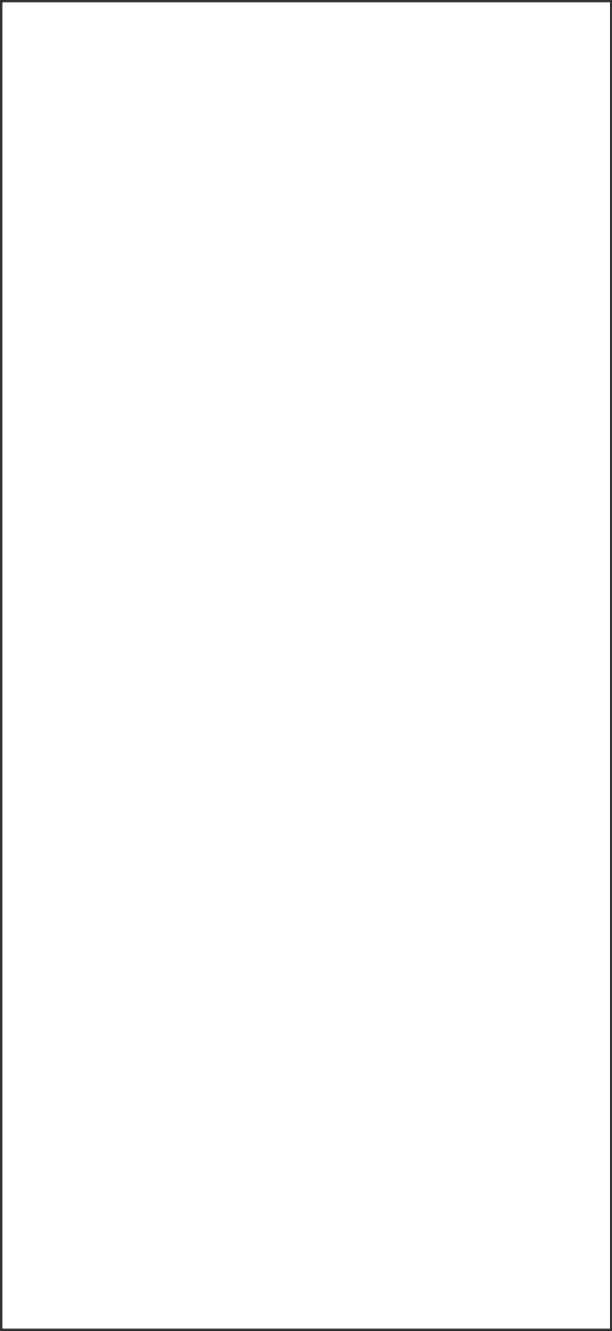
G1 – # cells



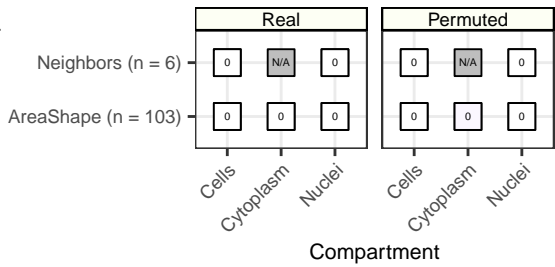


# G1 – # of gH2AX Spots

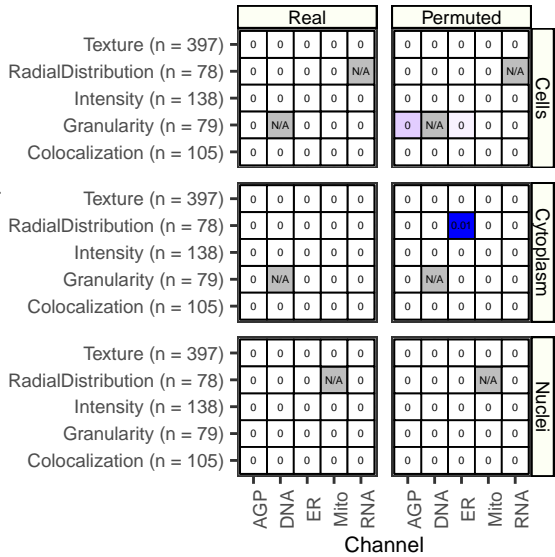
0% Non-Zero



Feature Group



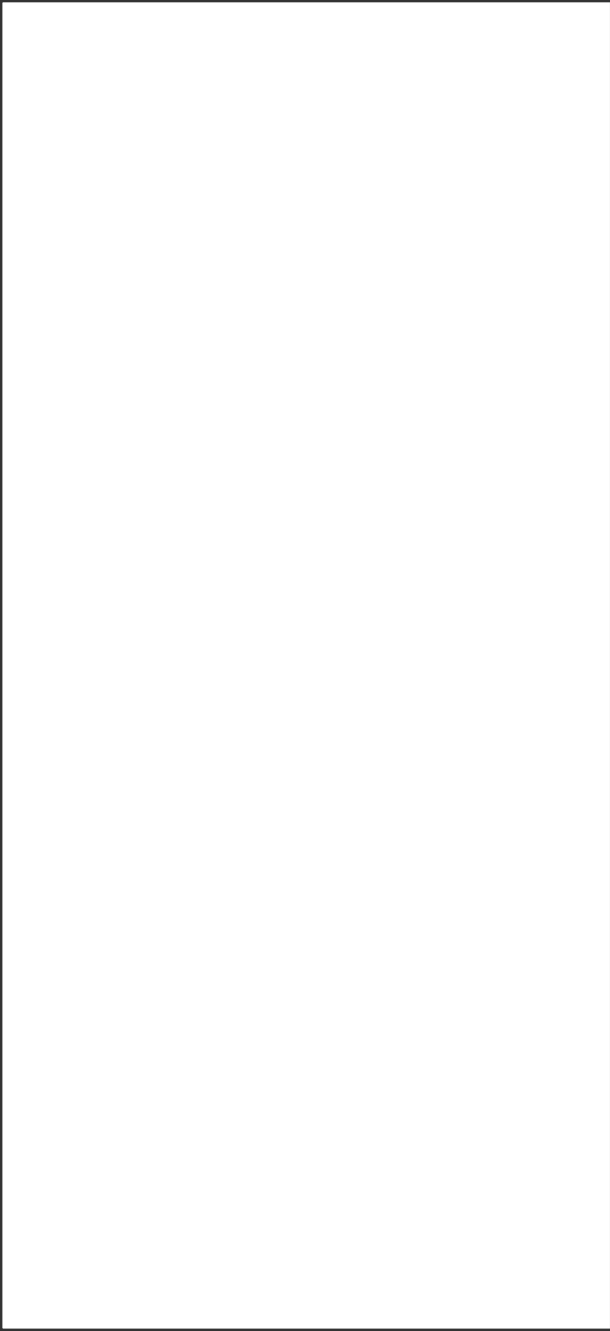
Feature Group



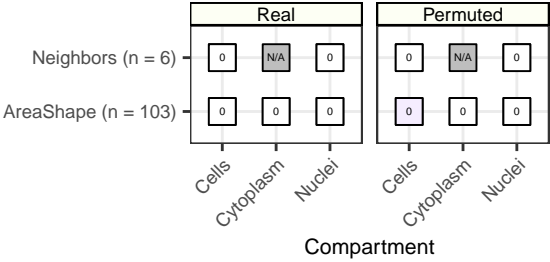
Model Coefficient

# G1 – # of gH2AX Spots per Area of Nucleus

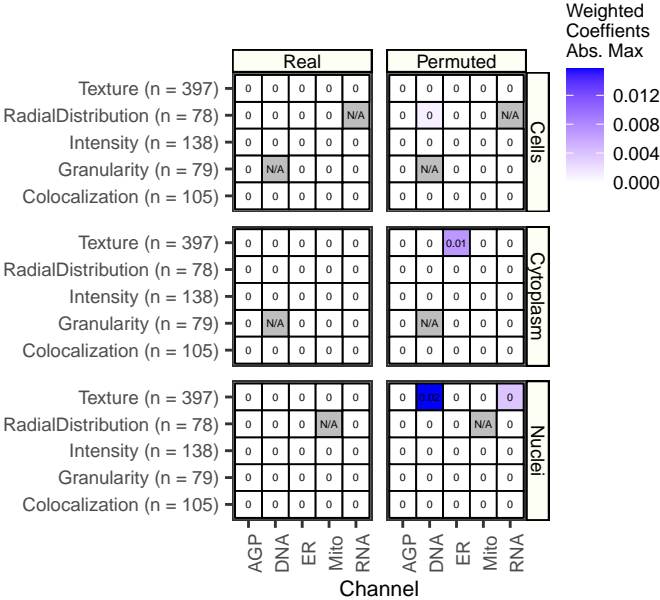
0% Non-Zero



Feature Group

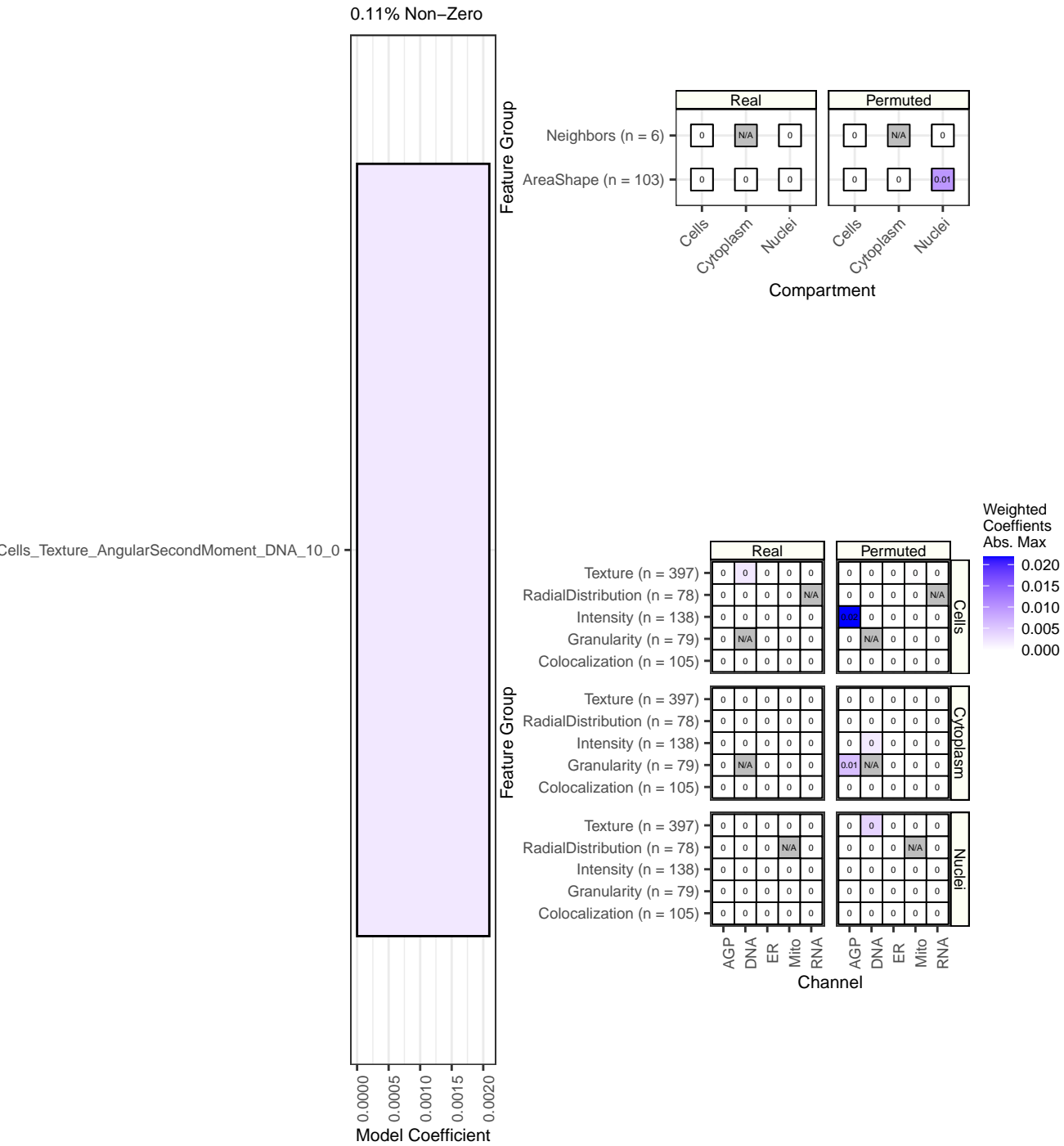


Feature Group



Model Coefficient

Cell Count – G1+G2

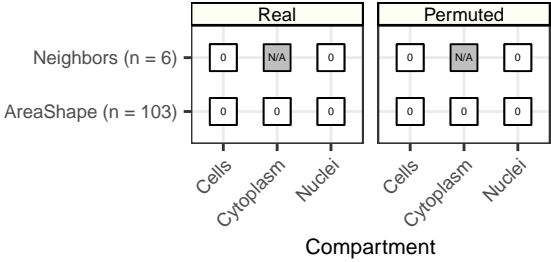


Cell Count – G2/G1

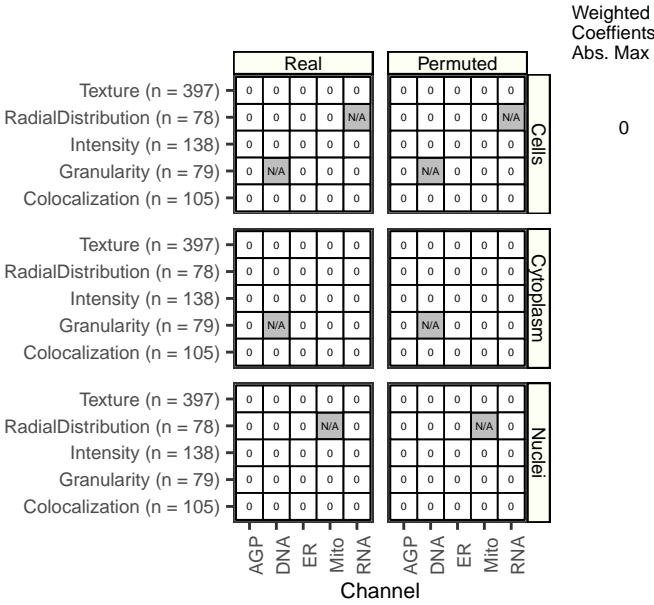
0% Non-Zero



Feature Group

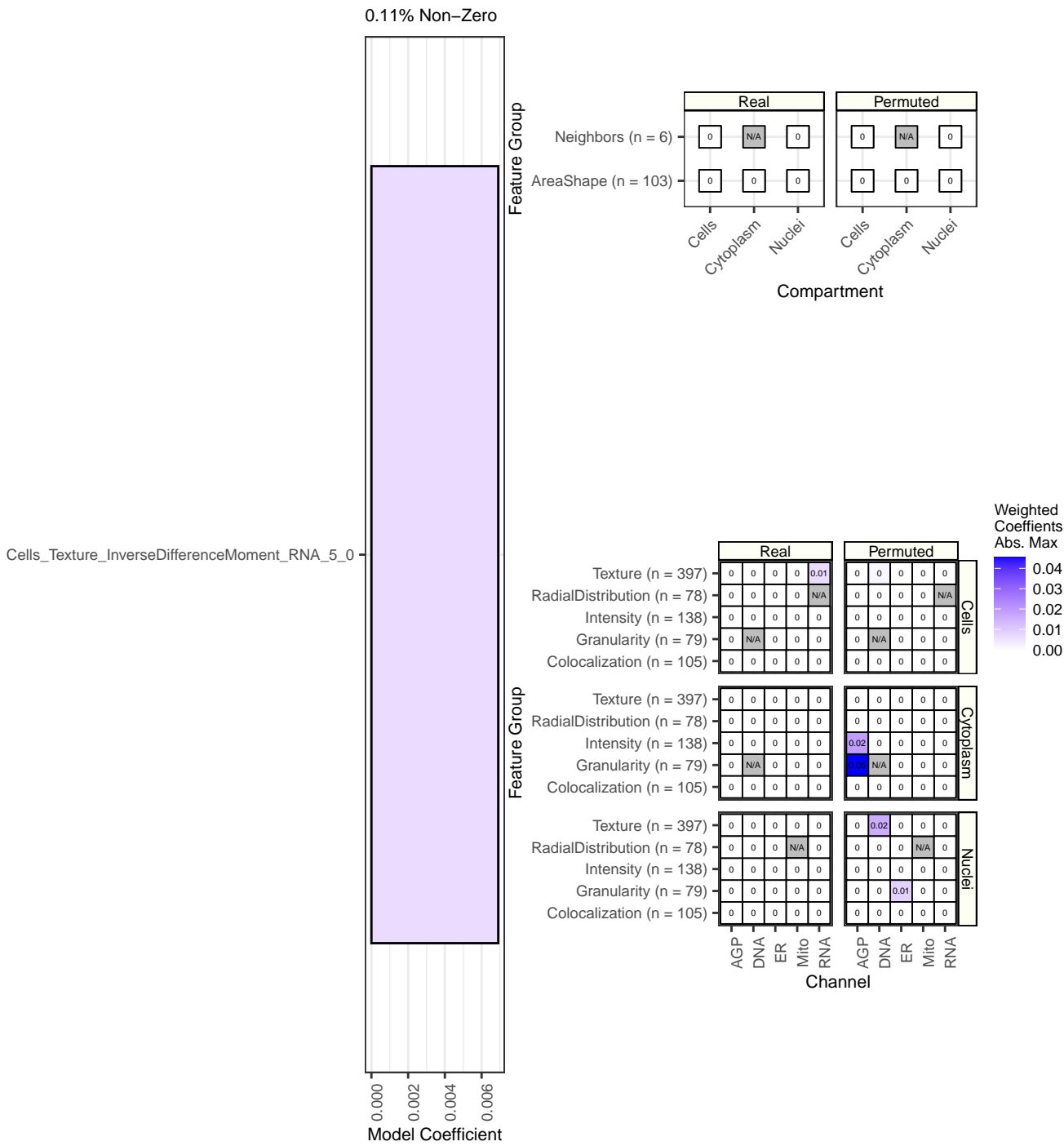


Feature Group

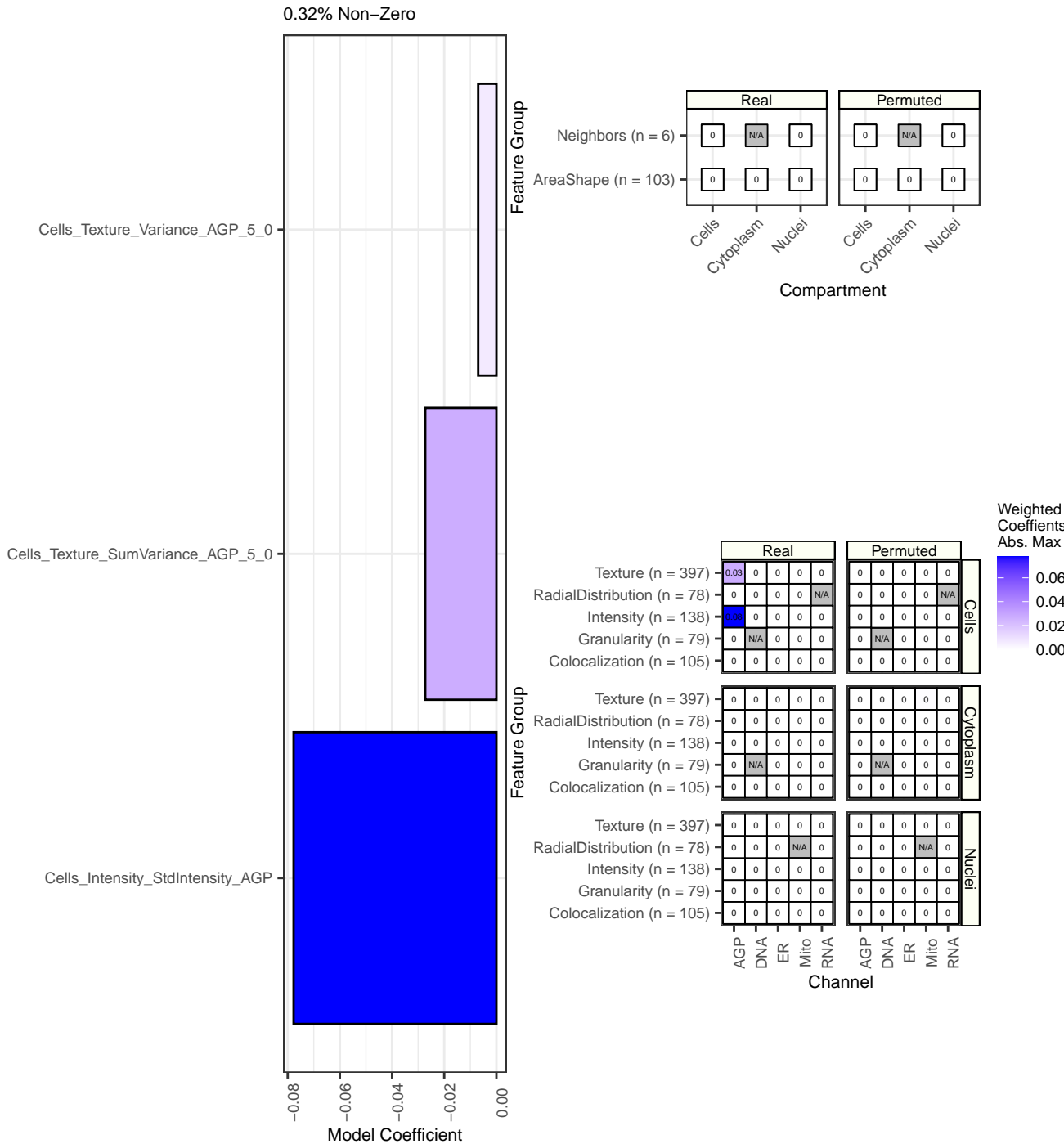


Model Coefficient

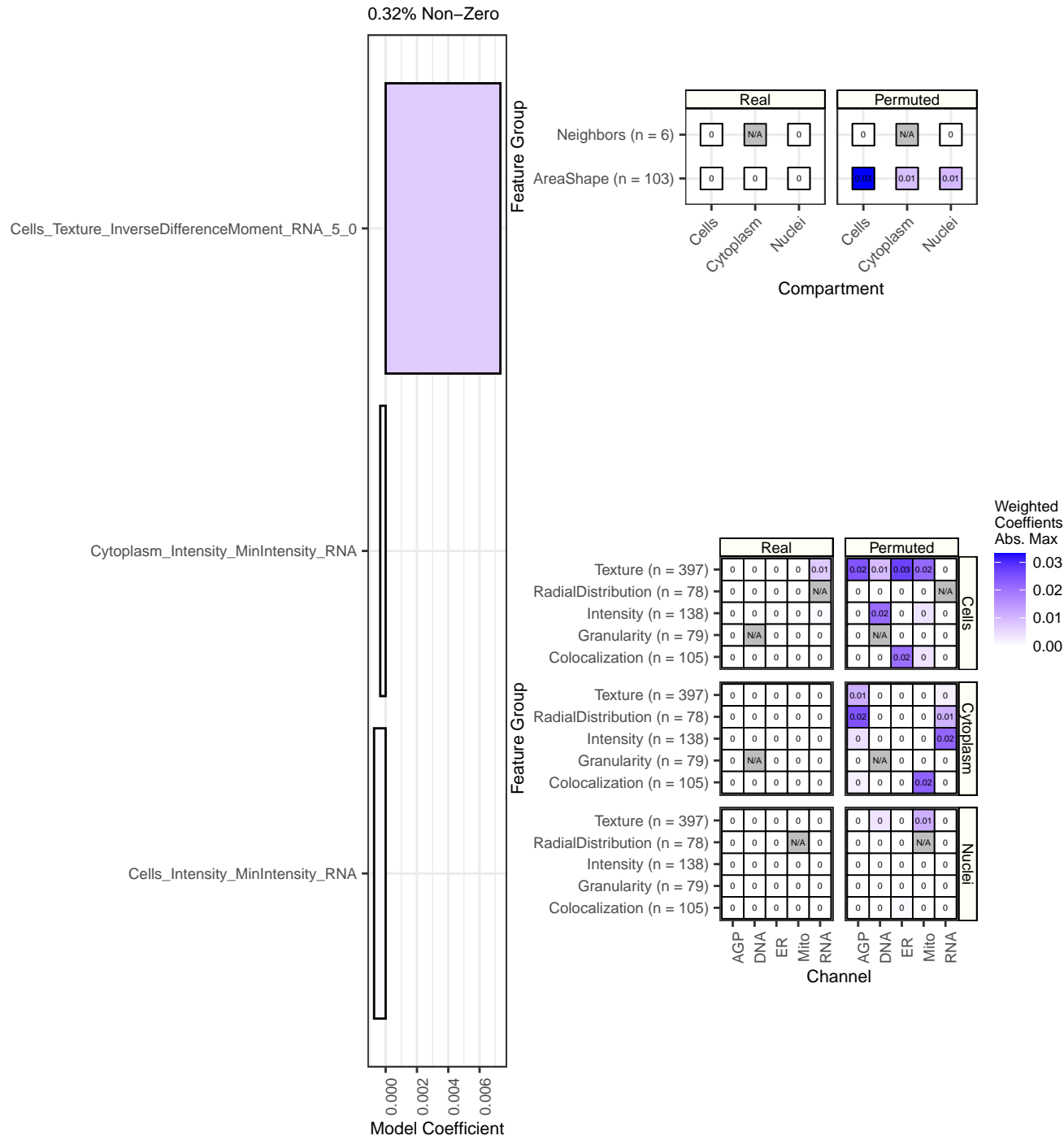
## G2 – % High gH2AX Spots



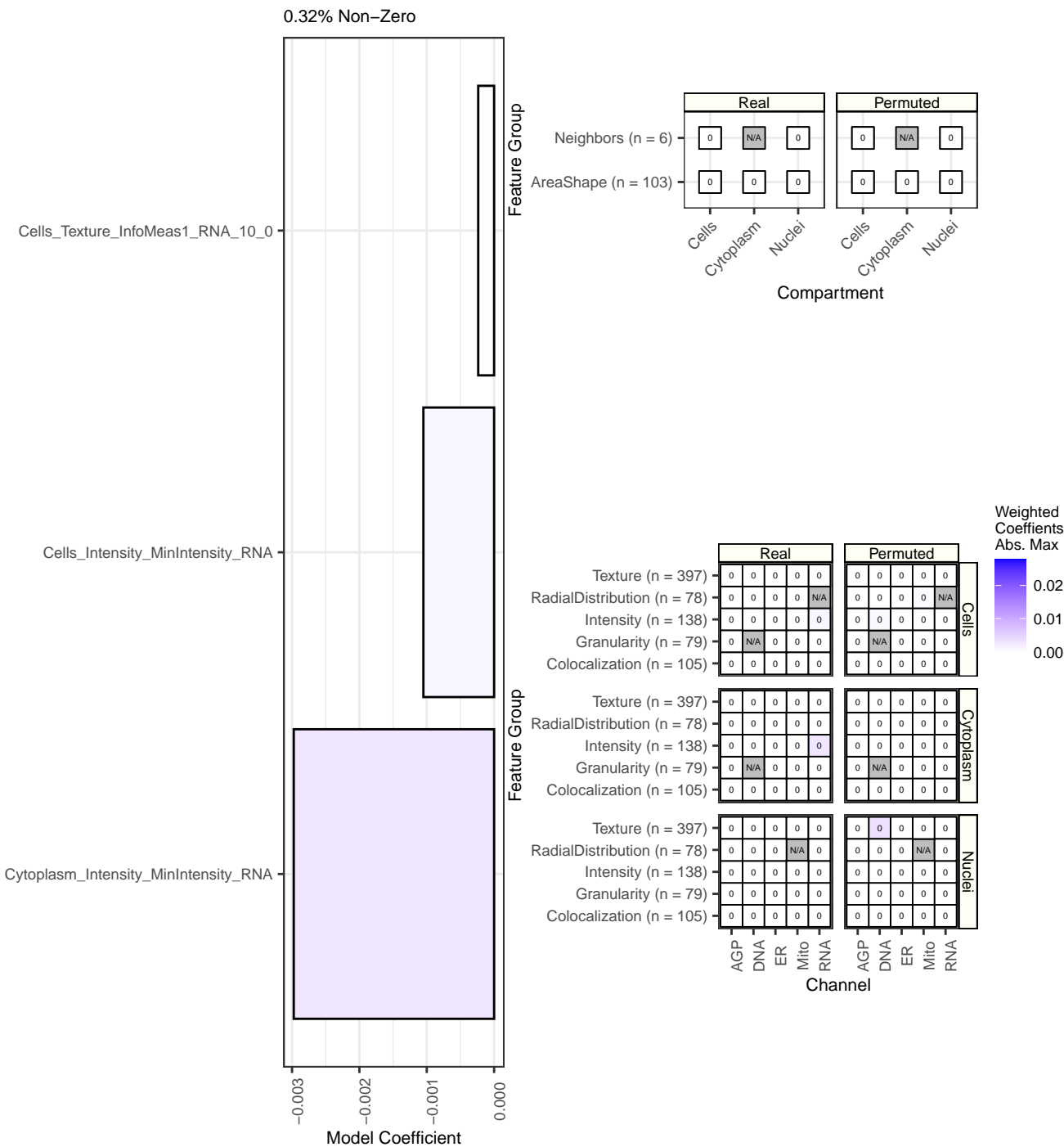
G2 – # cells



G2 – # of gH2AX Spots

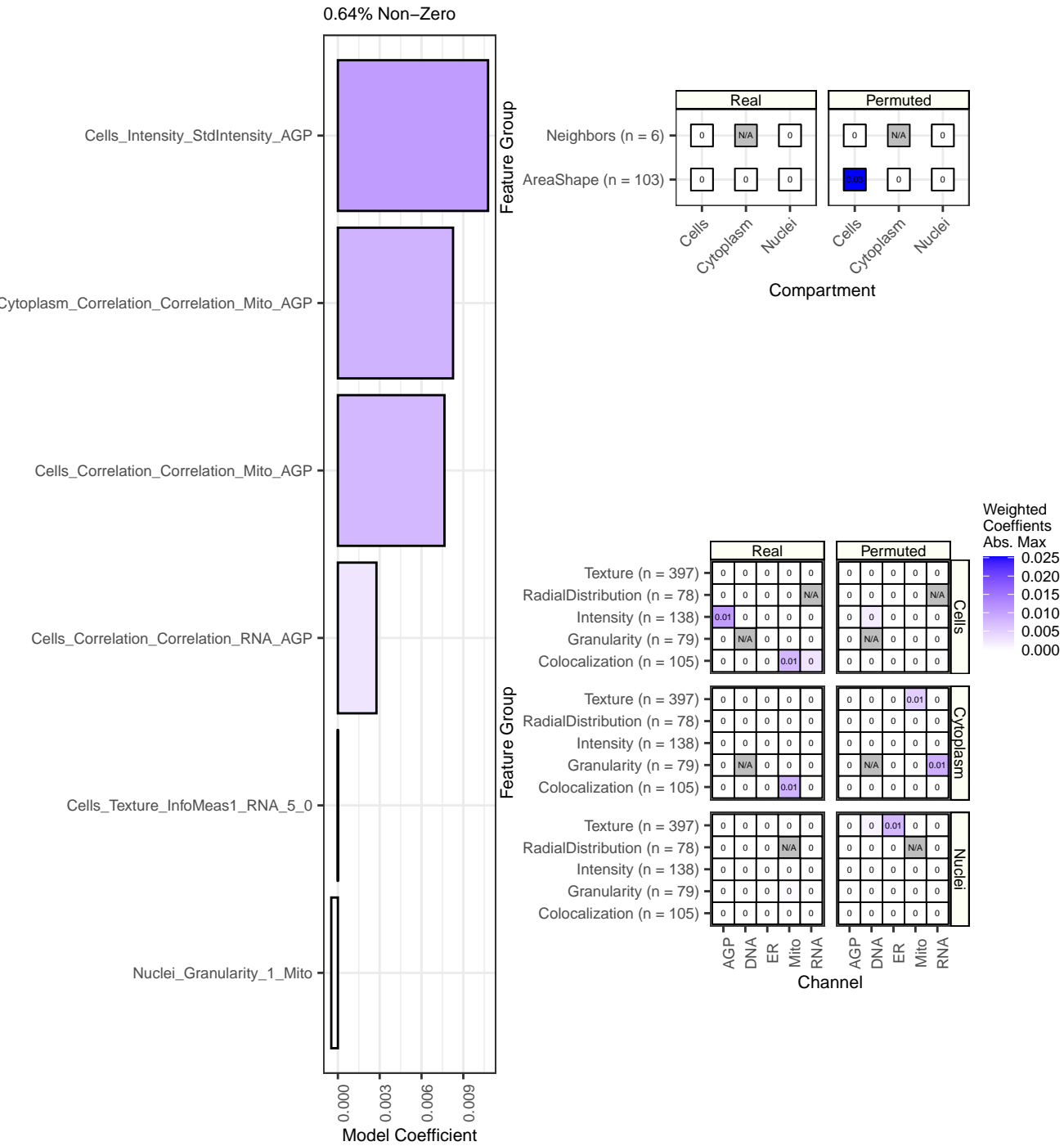


# G2 – # of gH2AX Spots per Area of Nucleus



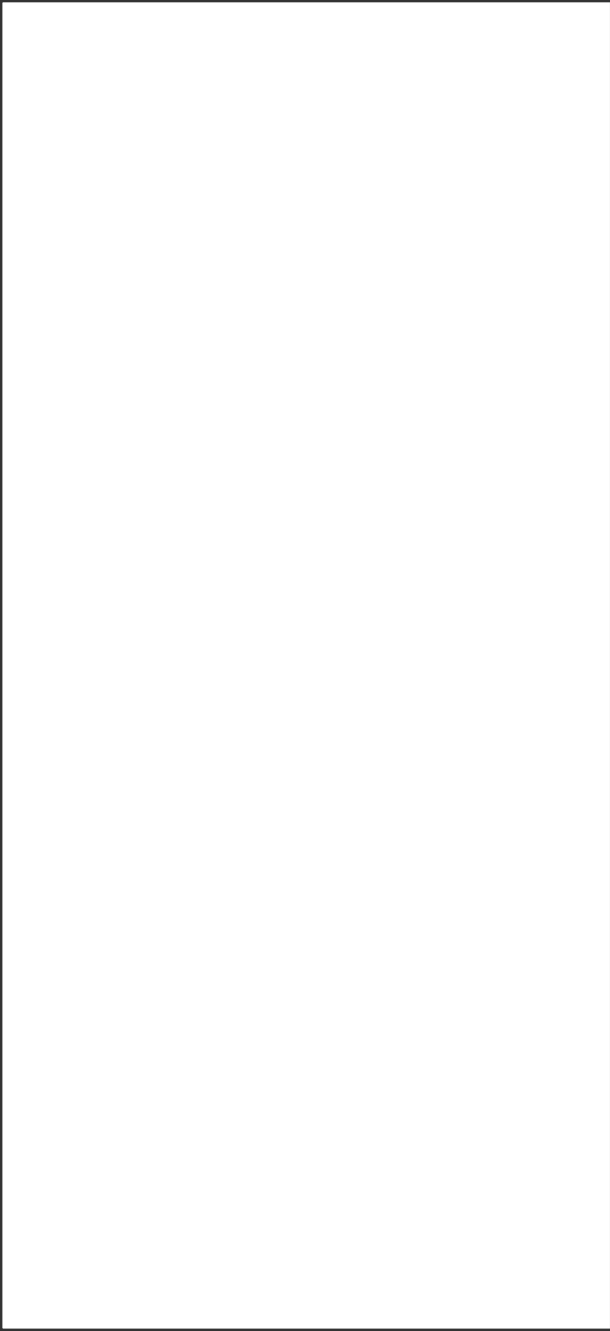


Cell Count – G2 + M

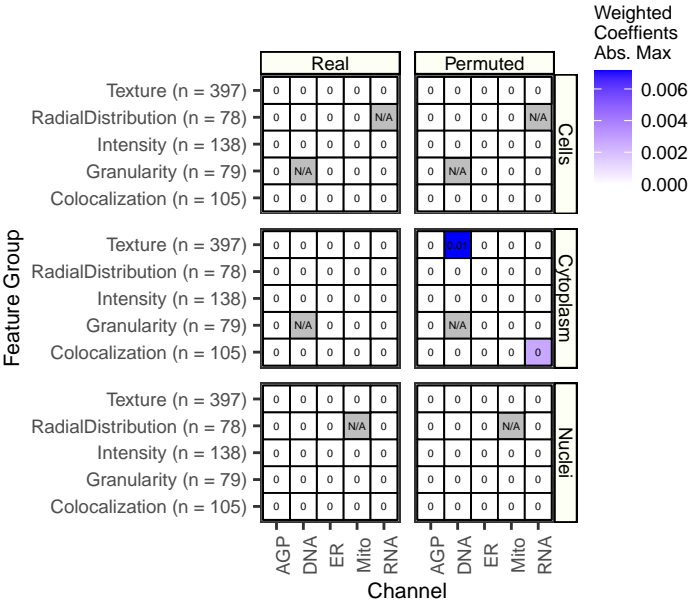
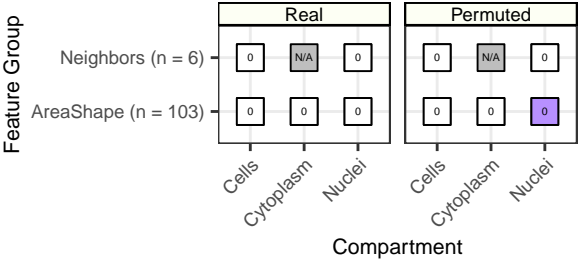


# CC – Infection Efficiency

0% Non-Zero

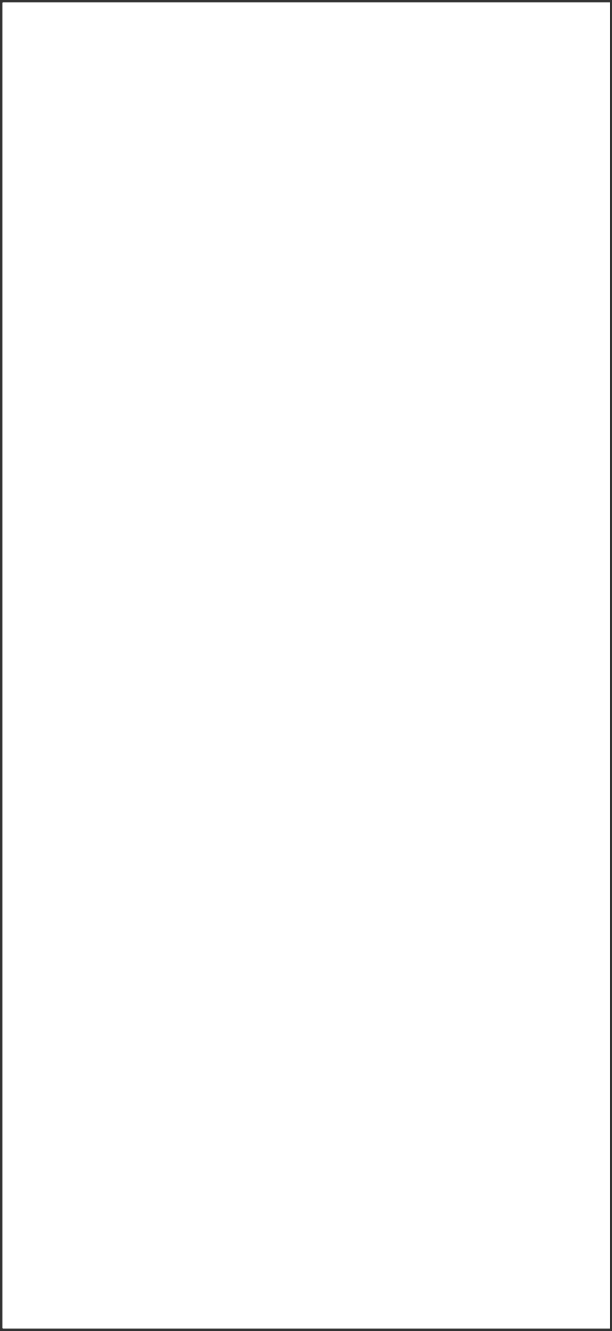


Model Coefficient

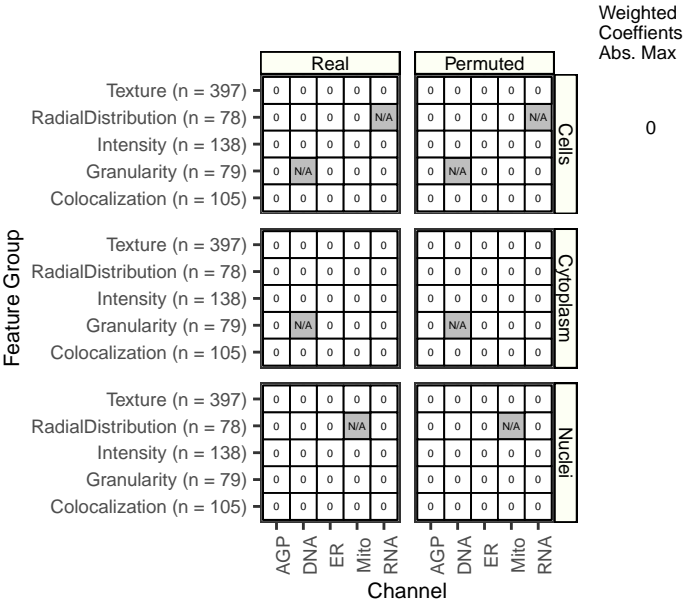
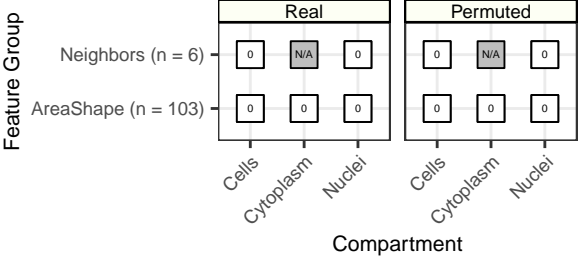


# Late M – % High gH2AX Spots

0% Non-Zero

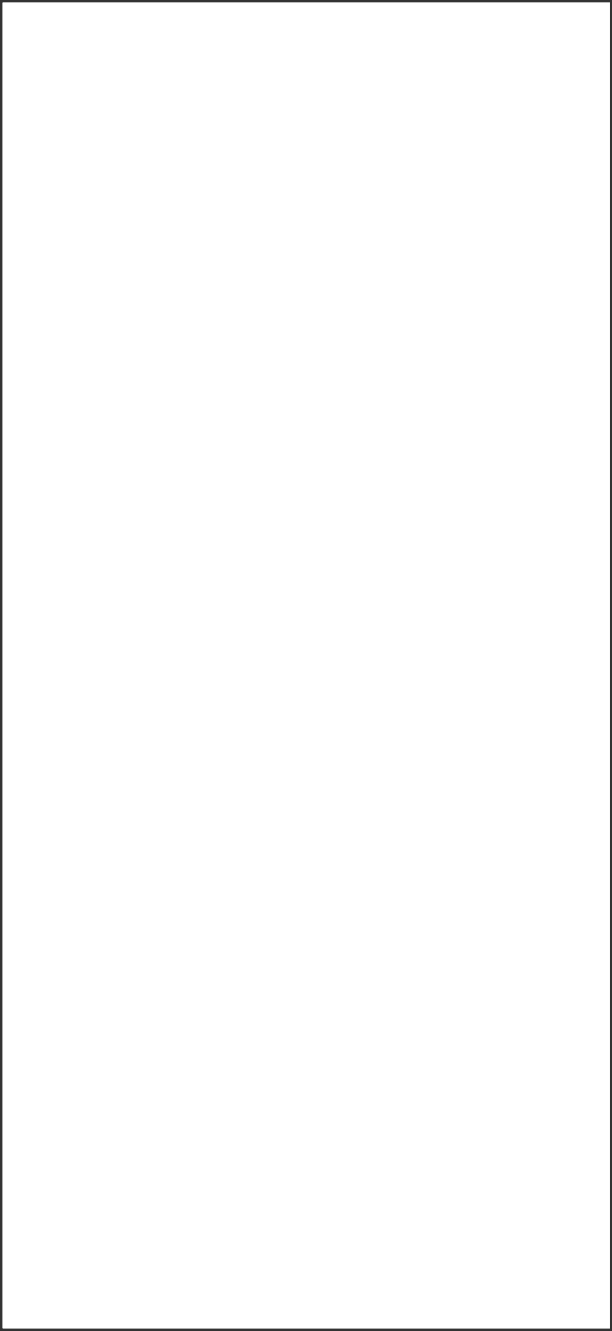


Model Coefficient



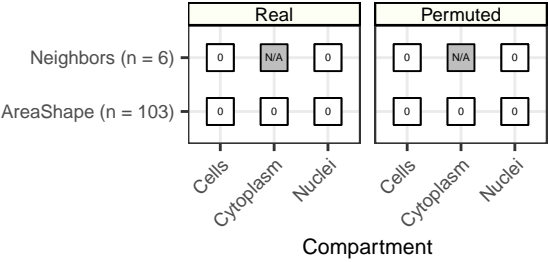
Late M – # cells

0% Non-Zero

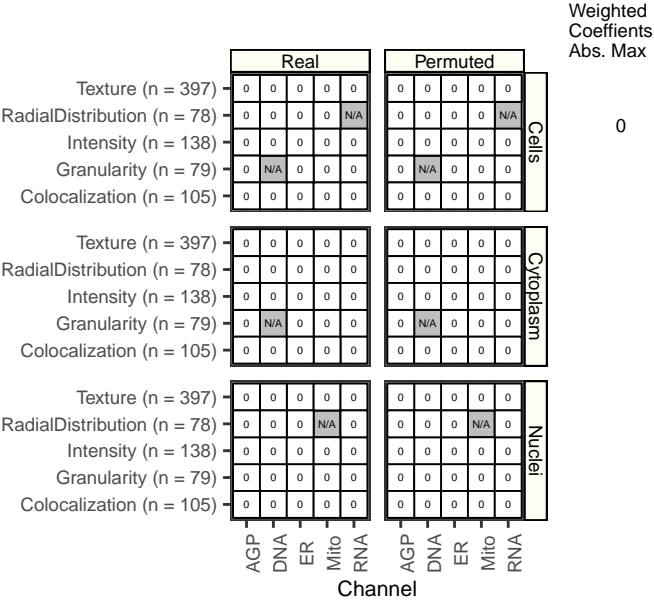


Model Coefficient

Feature Group

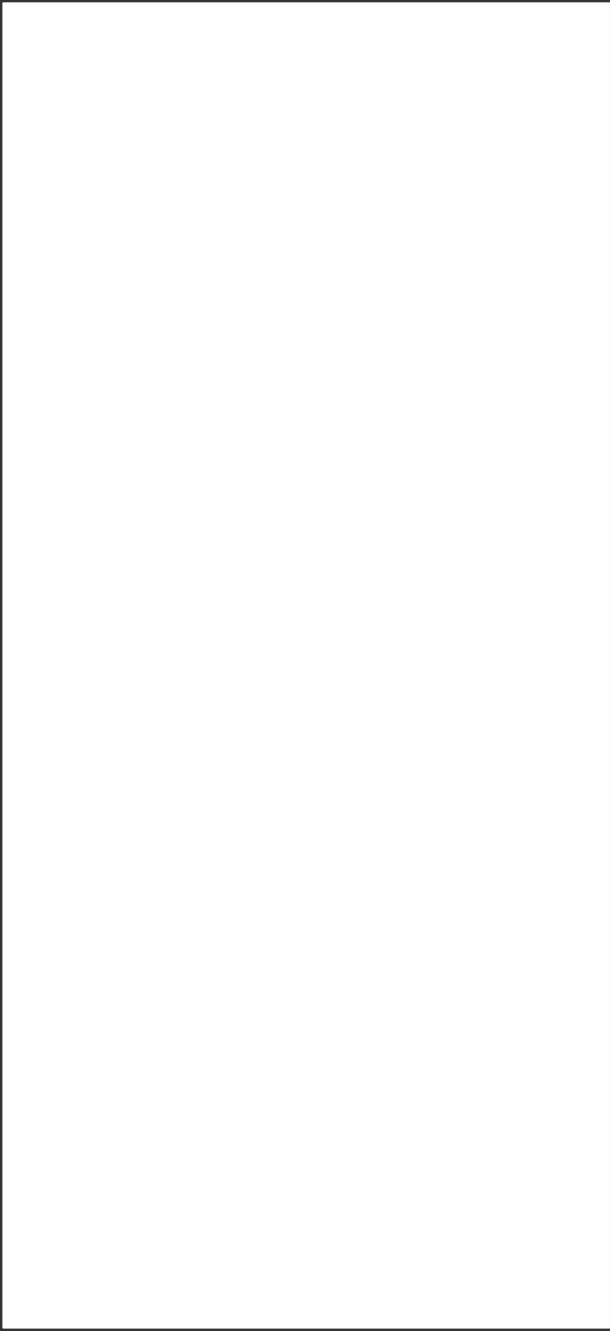


Feature Group

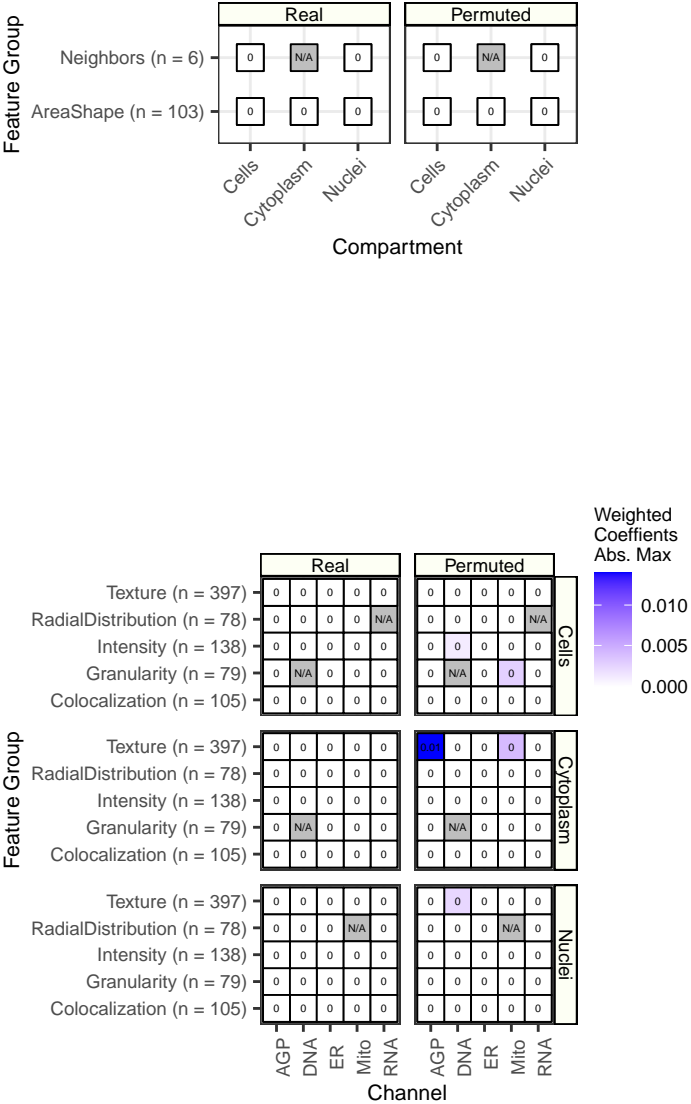


Late M – # of gH2AX Spots

0% Non-Zero

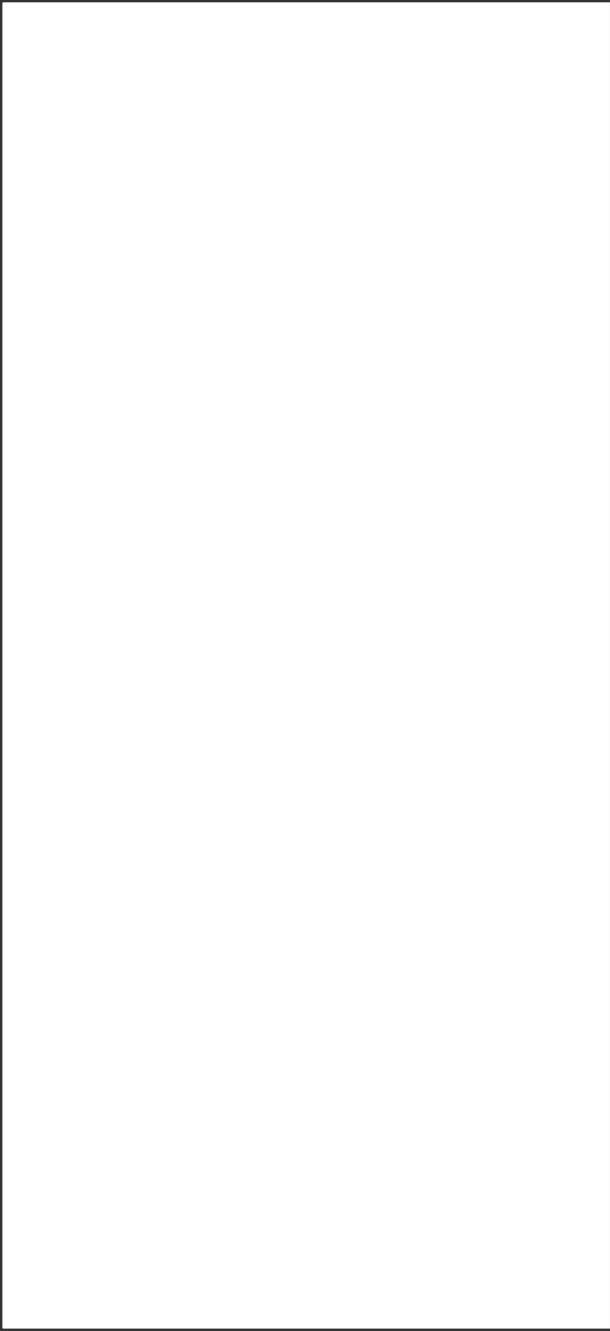


Model Coefficient



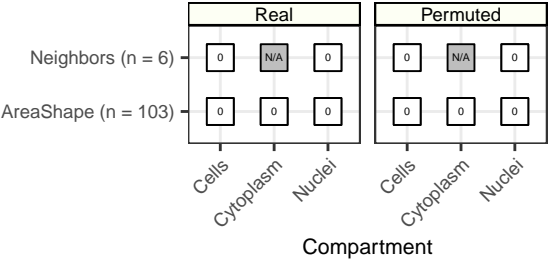
Late M – # of gH2AX Spots per Area of Nucleus

0% Non-Zero

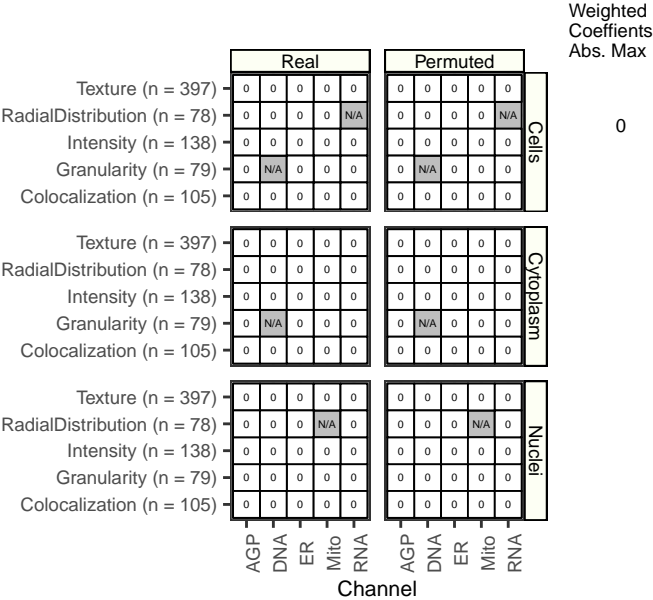


Model Coefficient

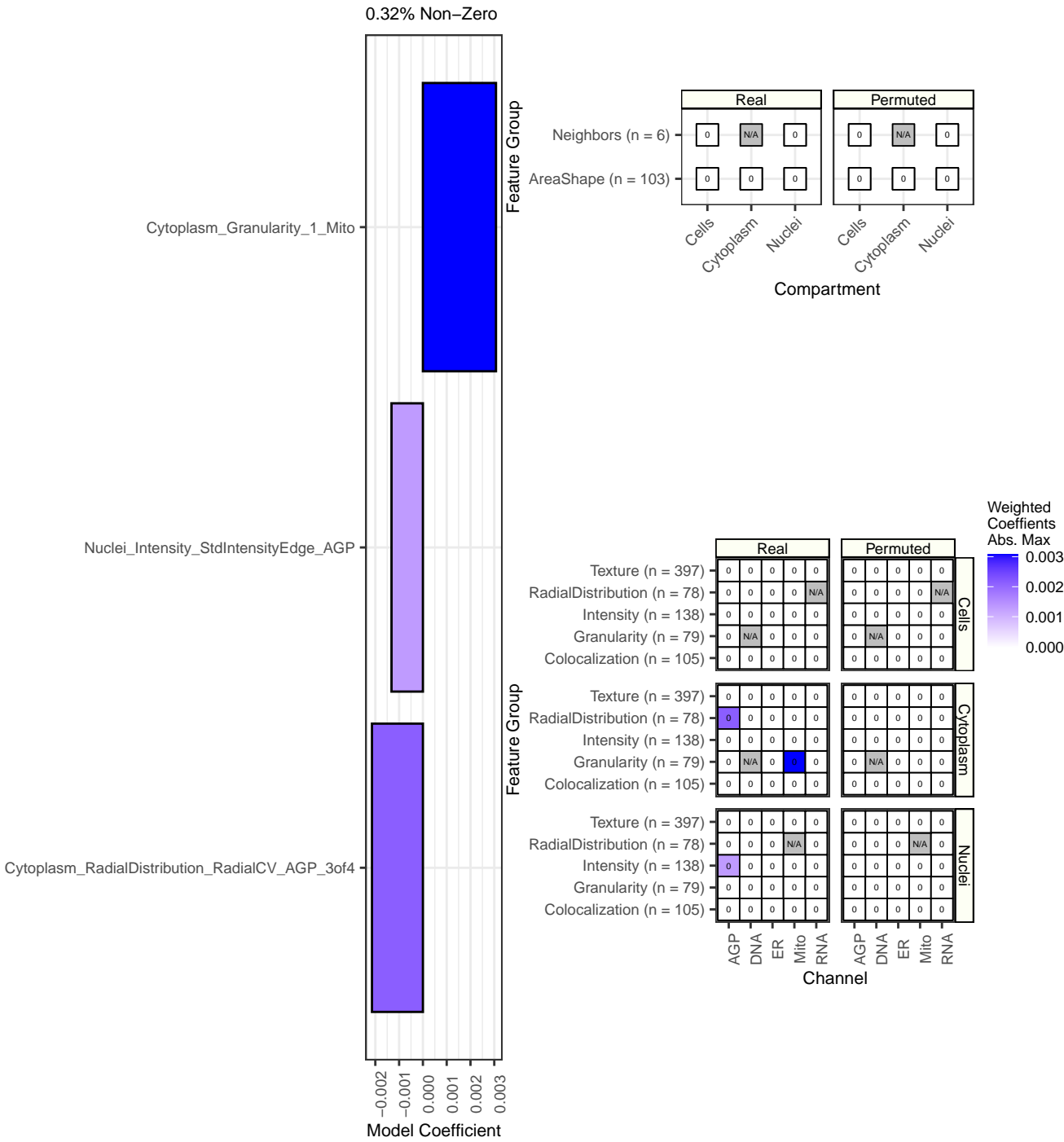
Feature Group



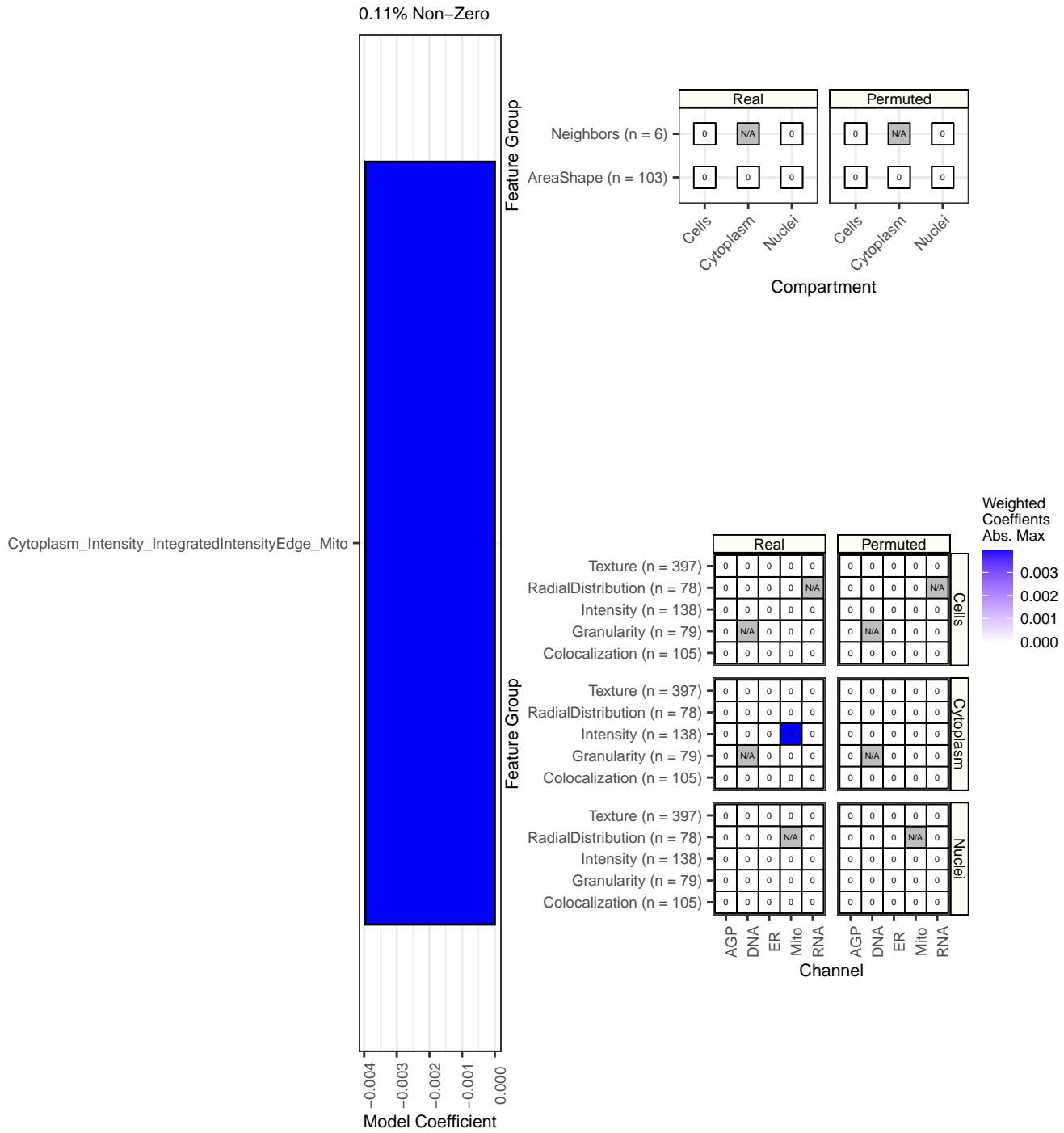
Feature Group



# M – % High gH2AX Spots

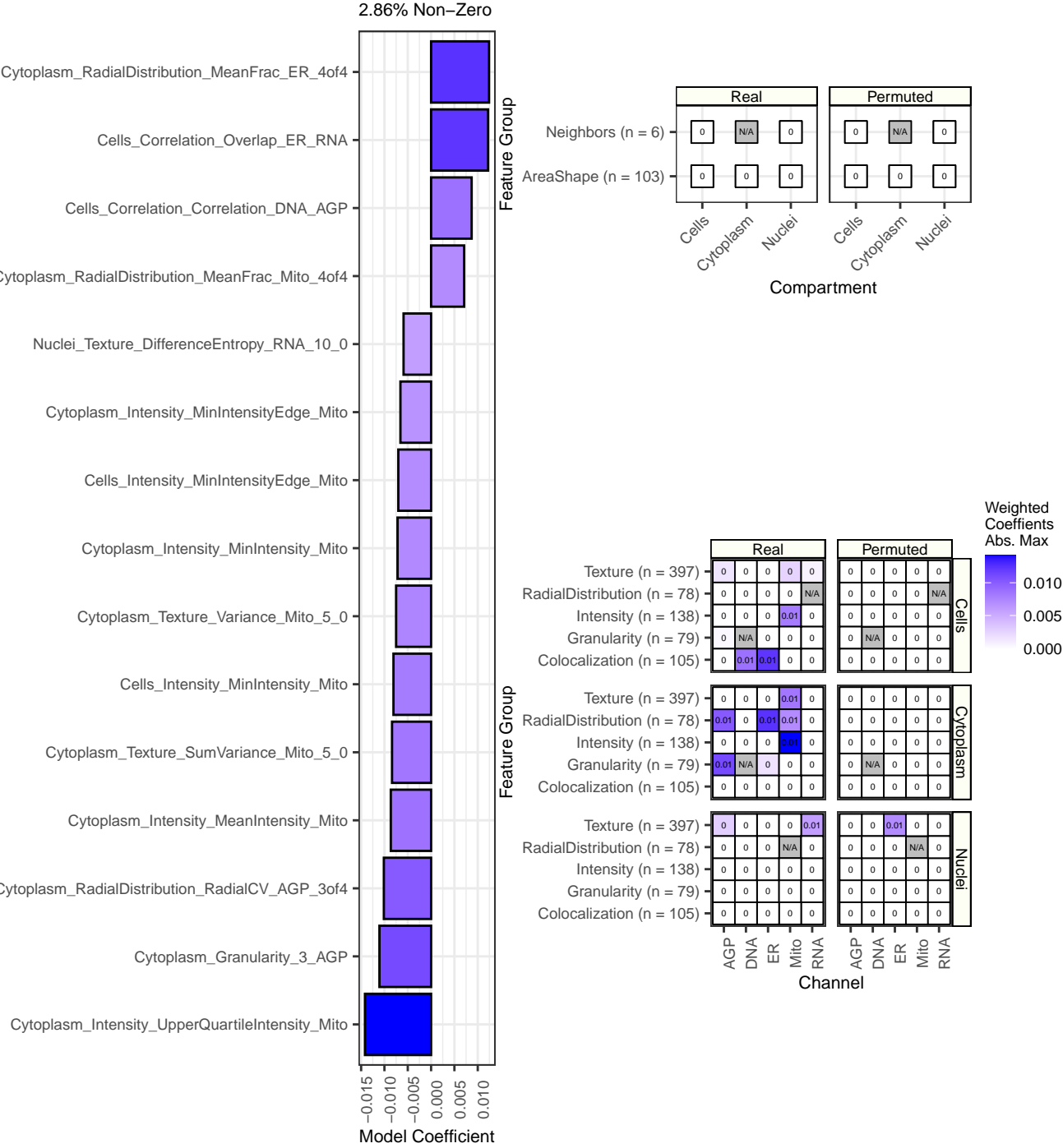


M – # cells



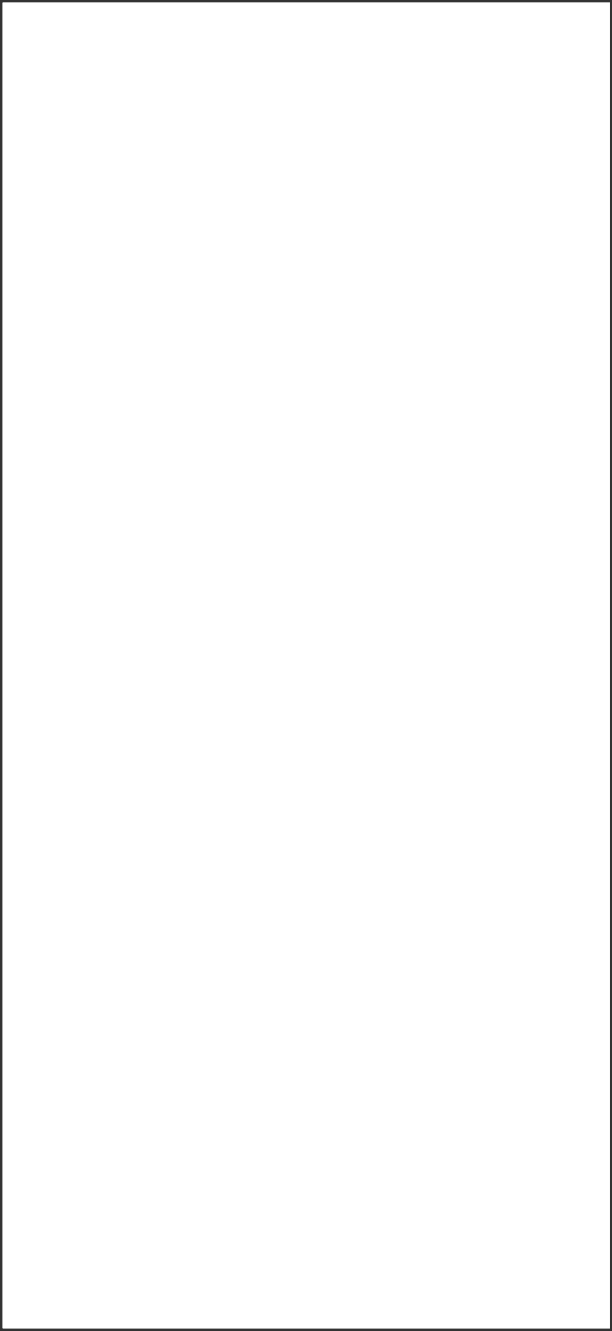


M – # of gH2AX Spots



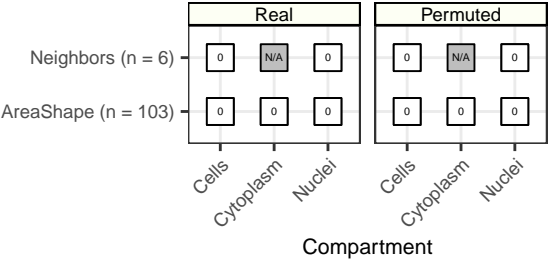
M – # of gH2AX Spots per Area of Nucleus

0% Non-Zero

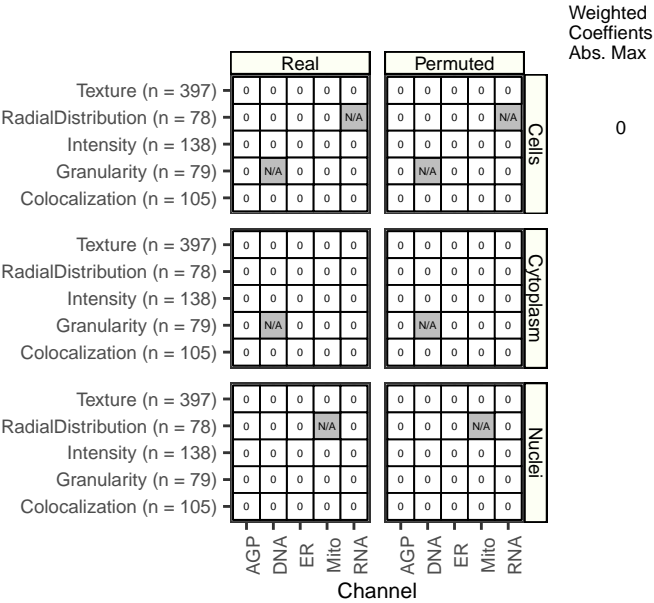


Model Coefficient

Feature Group



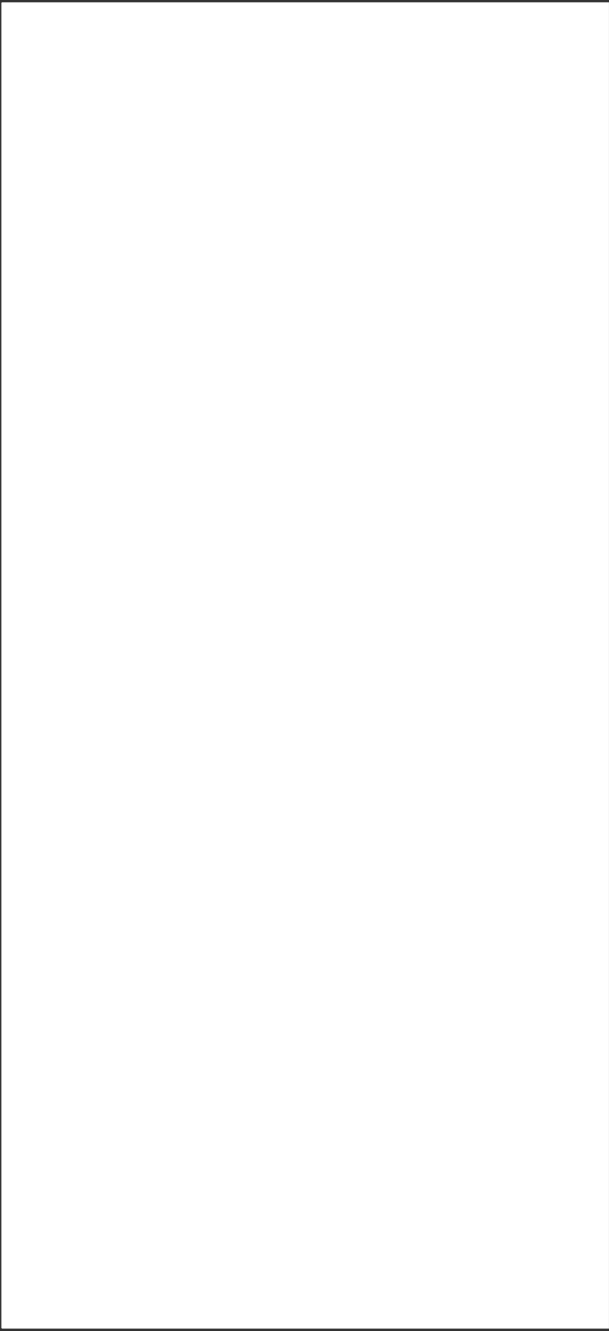
Feature Group



Weighted Coefficients Abs. Max

# Polynuclear – % High gH2AX Spots

0% Non-Zero



Feature Group

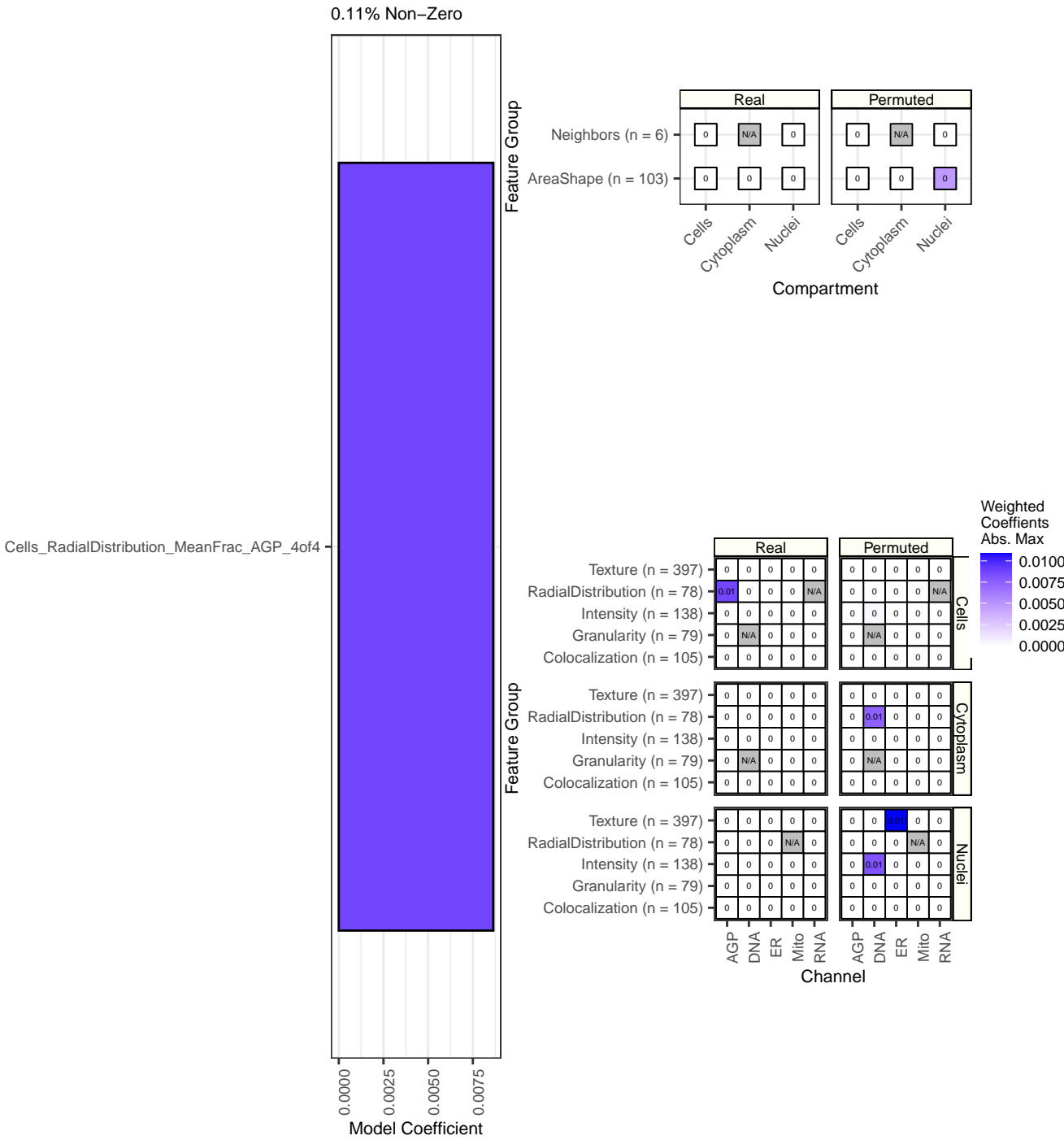
|                     | Real  |           |        | Permuted |           |        |
|---------------------|-------|-----------|--------|----------|-----------|--------|
|                     | Cells | Cytoplasm | Nuclei | Cells    | Cytoplasm | Nuclei |
| Neighbors (n = 6)   | 0     | N/A       | 0      | 0        | N/A       | 0      |
| AreaShape (n = 103) | 0     | 0         | 0      | 0        | 0         | 0      |

Feature Group

|                             | Real |     |    |      |     |           | Weighted Coefficients Abs. Max |
|-----------------------------|------|-----|----|------|-----|-----------|--------------------------------|
|                             | AGP  | DNA | ER | Mito | RNA |           |                                |
| Texture (n = 397)           | 0    | 0   | 0  | 0    | 0   | Cells     | 0                              |
| RadialDistribution (n = 78) | 0    | 0   | 0  | 0    | N/A |           |                                |
| Intensity (n = 138)         | 0    | 0   | 0  | 0    | 0   |           |                                |
| Granularity (n = 79)        | 0    | N/A | 0  | 0    | 0   |           |                                |
| Colocalization (n = 105)    | 0    | 0   | 0  | 0    | 0   |           |                                |
| Texture (n = 397)           | 0    | 0   | 0  | 0    | 0   | Cytoplasm |                                |
| RadialDistribution (n = 78) | 0    | 0   | 0  | 0    | 0   |           |                                |
| Intensity (n = 138)         | 0    | 0   | 0  | 0    | 0   |           |                                |
| Granularity (n = 79)        | 0    | N/A | 0  | 0    | 0   |           |                                |
| Colocalization (n = 105)    | 0    | 0   | 0  | 0    | 0   |           |                                |
| Texture (n = 397)           | 0    | 0   | 0  | 0    | 0   | Nuclei    |                                |
| RadialDistribution (n = 78) | 0    | 0   | 0  | N/A  | 0   |           |                                |
| Intensity (n = 138)         | 0    | 0   | 0  | 0    | 0   |           |                                |
| Granularity (n = 79)        | 0    | 0   | 0  | 0    | 0   |           |                                |
| Colocalization (n = 105)    | 0    | 0   | 0  | 0    | 0   |           |                                |

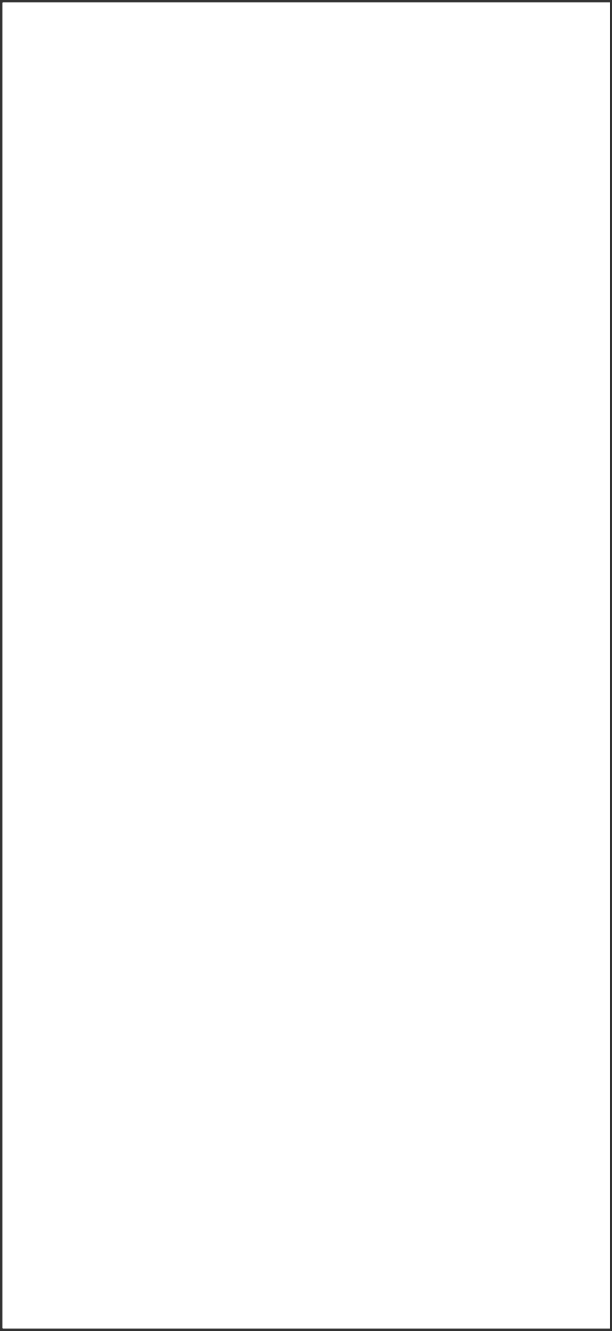
Model Coefficient

Polynuclear – # cells



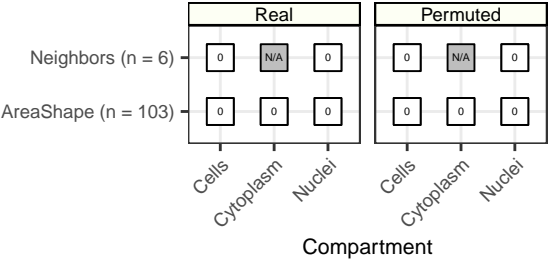
Polynuclear – # of gH2AX Spots

0% Non-Zero

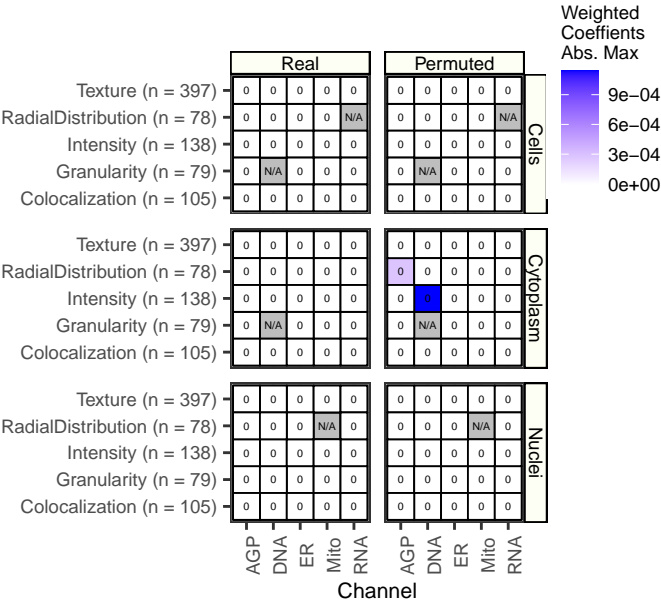


Model Coefficient

Feature Group

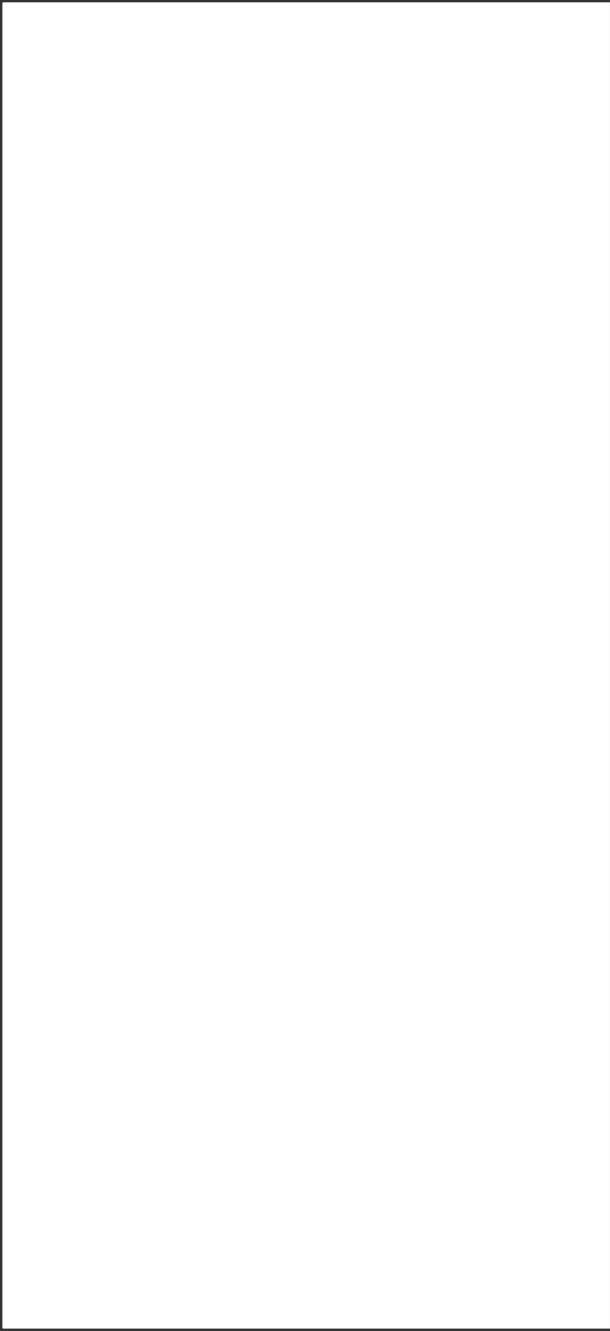


Feature Group



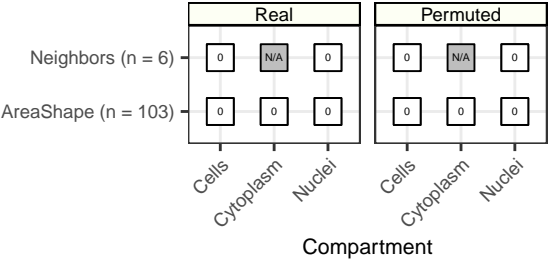
Polynuclear – # of gH2AX Spots per Area of Nucleus

0% Non-Zero

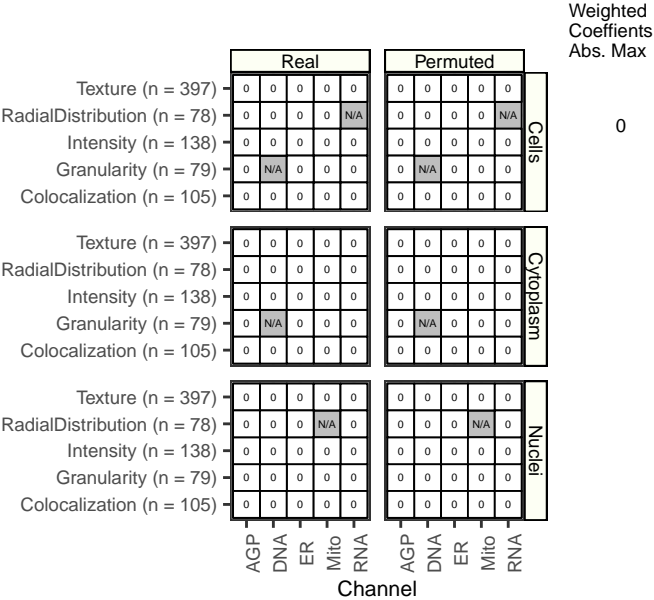


Model Coefficient

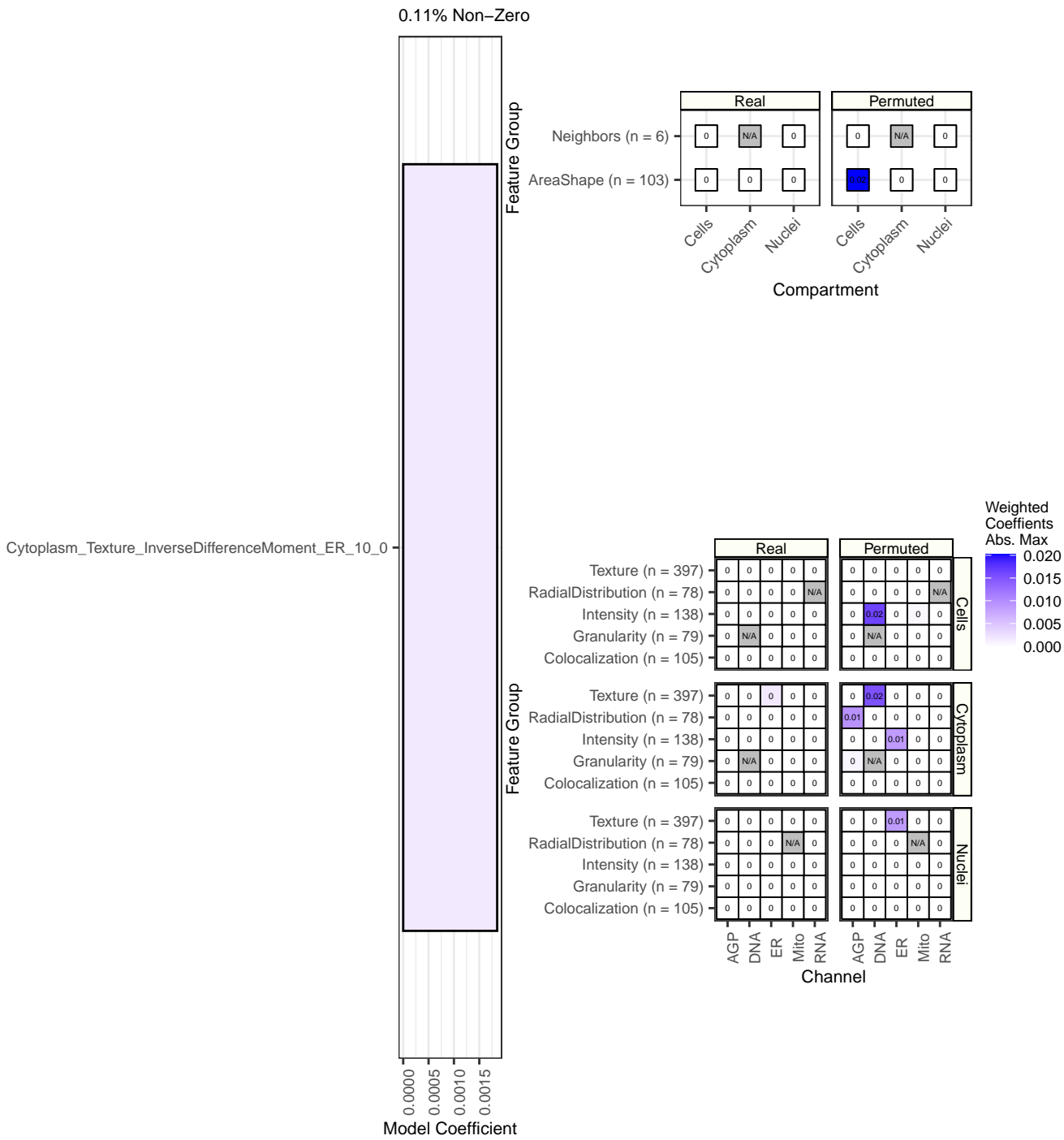
Feature Group



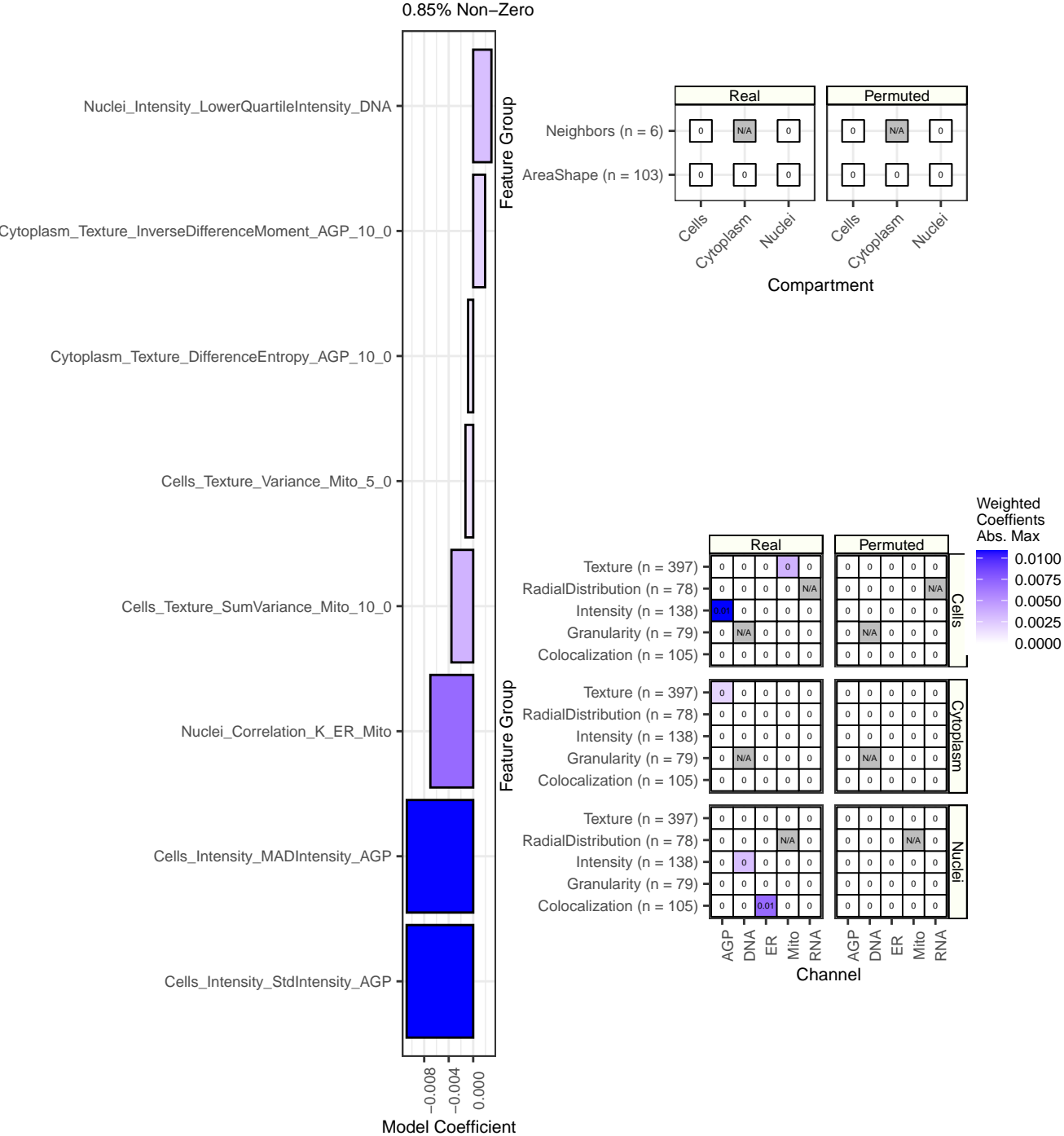
Feature Group



### Polyploid – % High gH2AX Spots



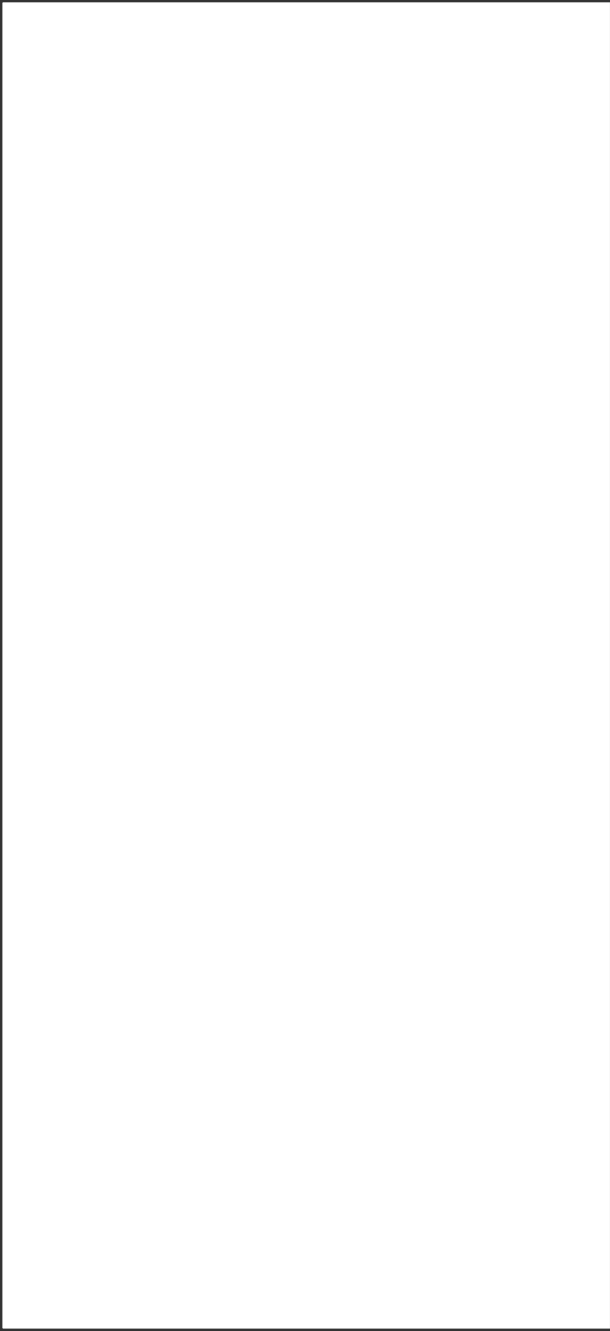
# Polyploid – # cells



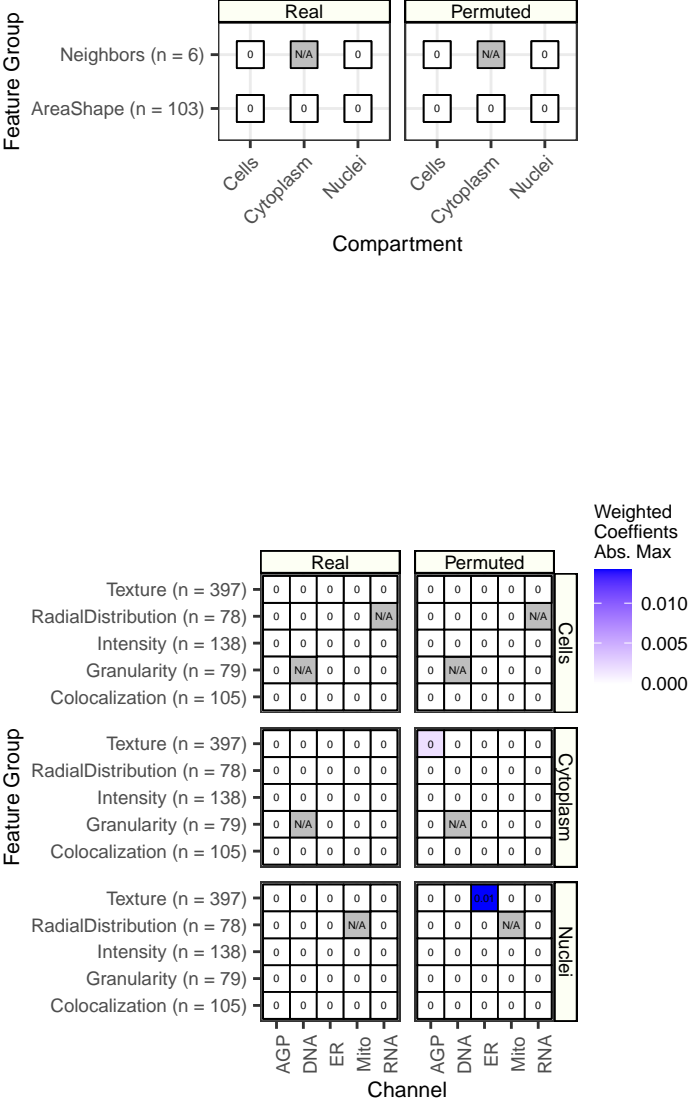


# Polyploid – # of gH2AX Spots

0% Non-Zero

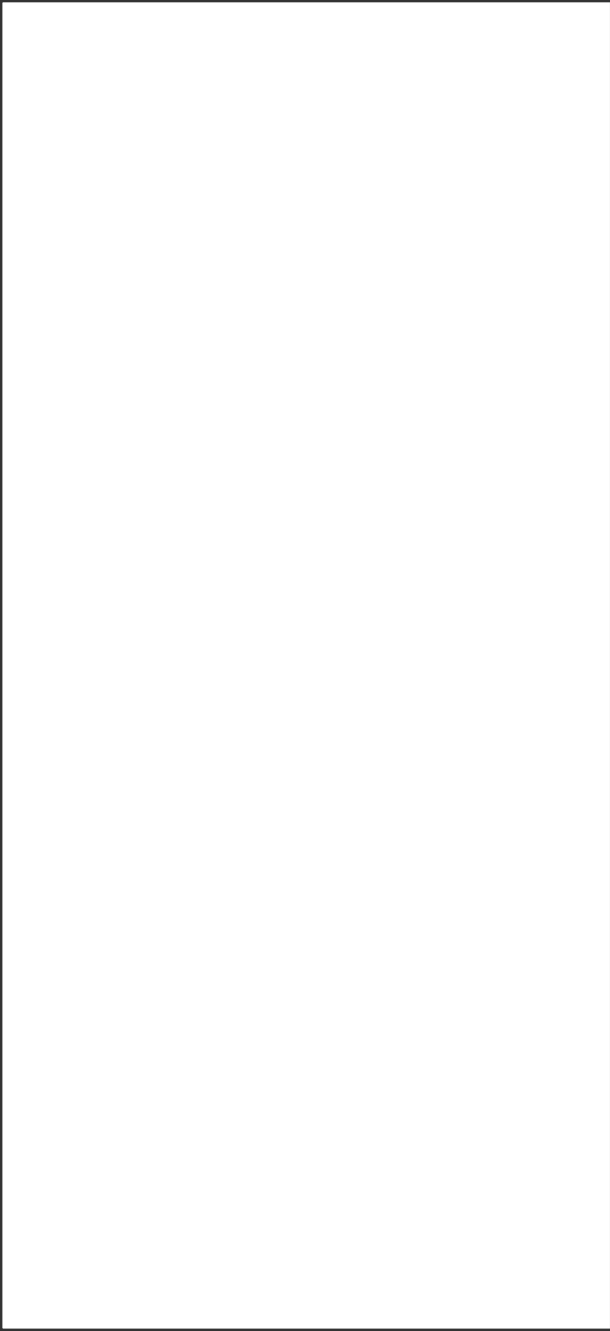


Model Coefficient

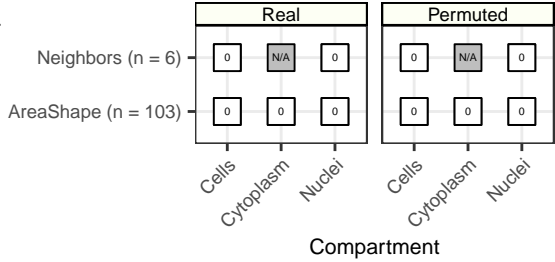


# Polyploid – # of gH2AX Spots per Area of Nucleus

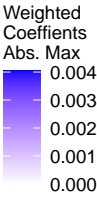
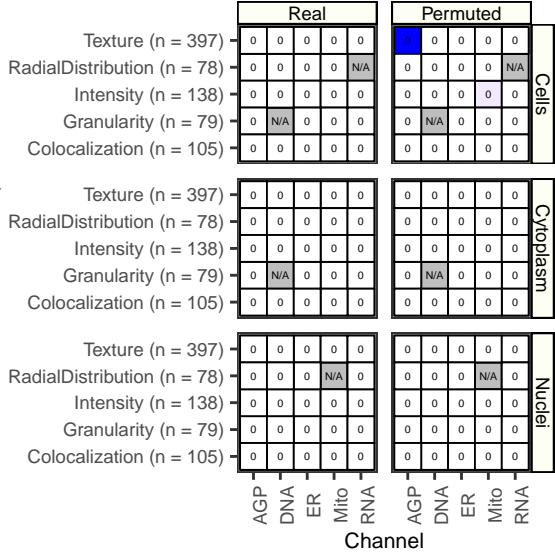
0% Non-Zero



Feature Group



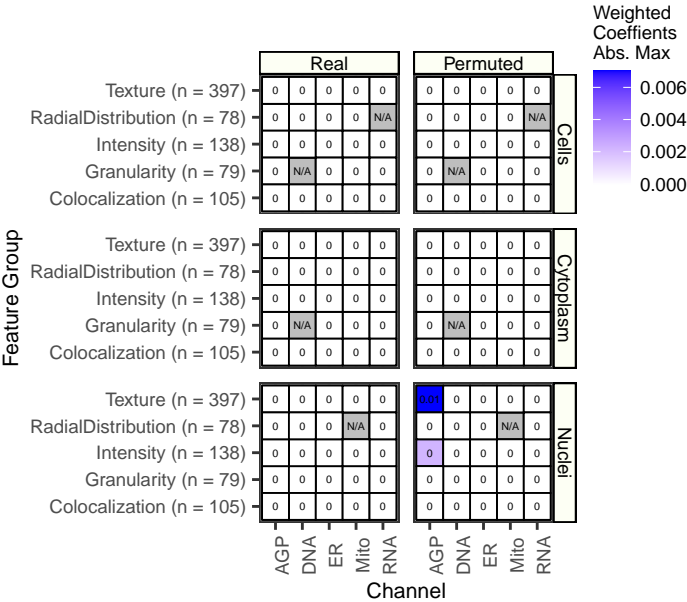
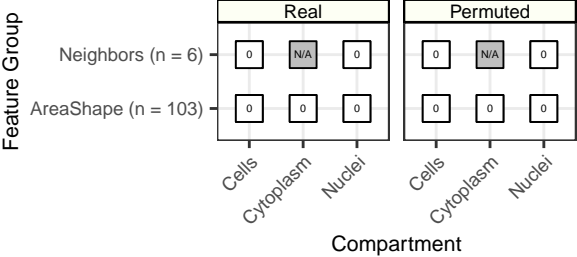
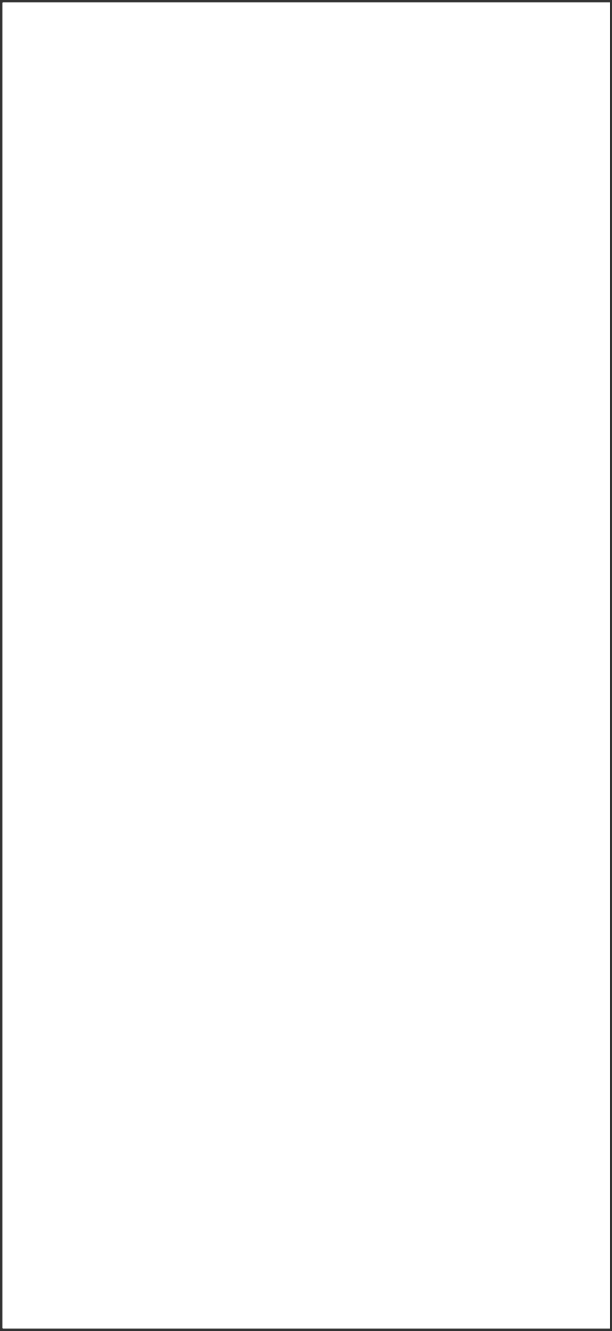
Feature Group



Model Coefficient

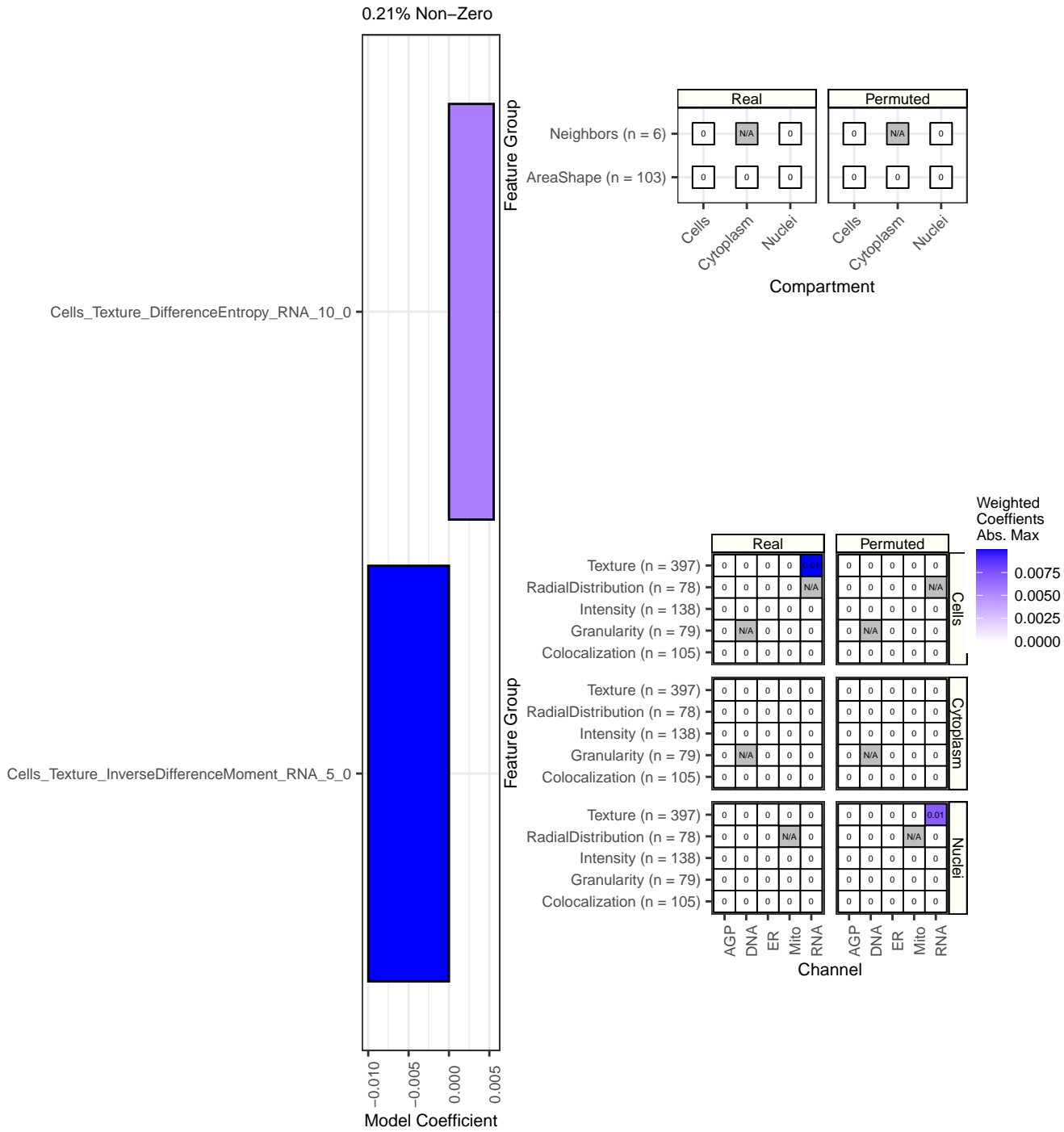
# S – % High gH2AX Spots

0% Non-Zero



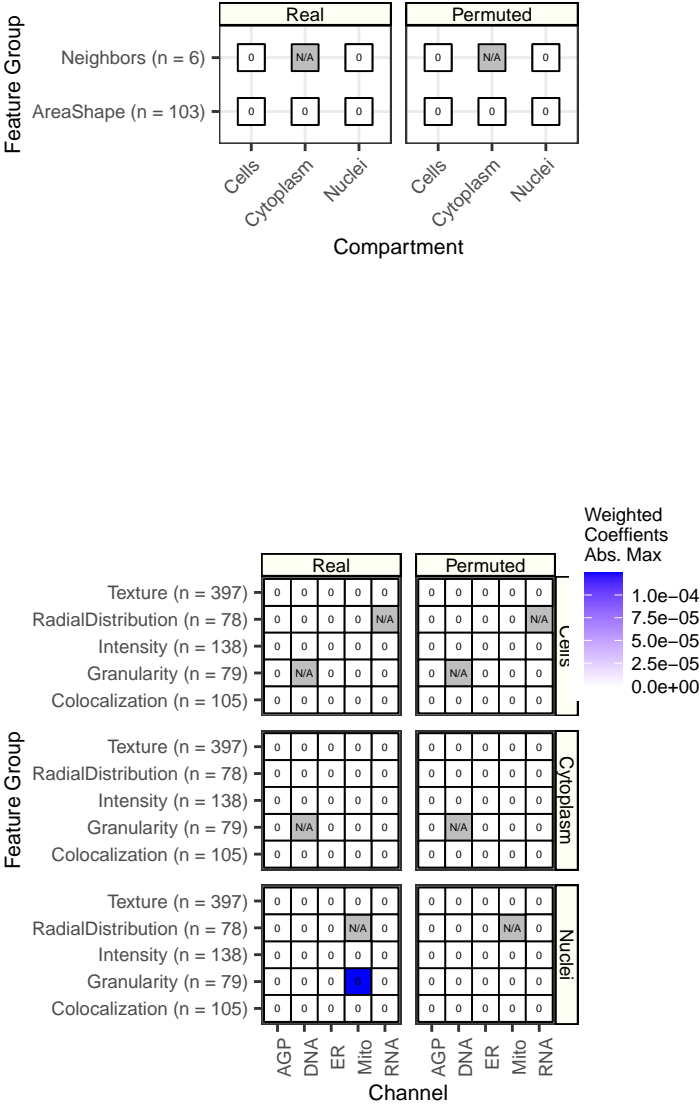
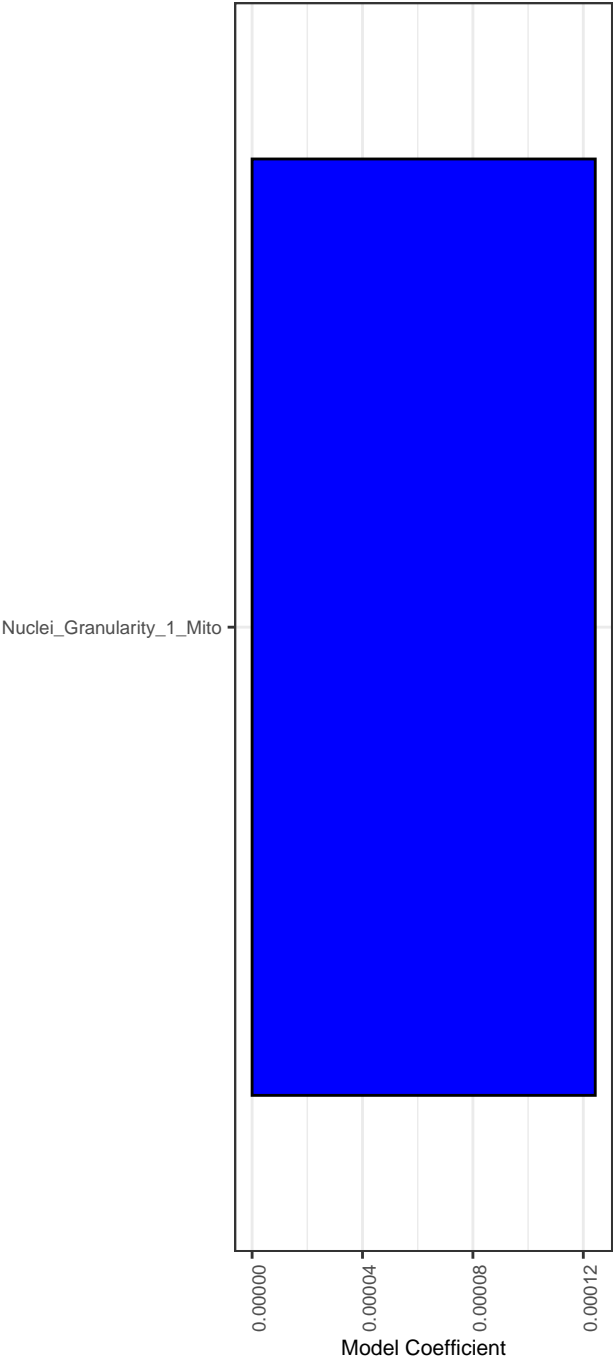
Model Coefficient

**S – Intensity Nucleus EdU Mean**



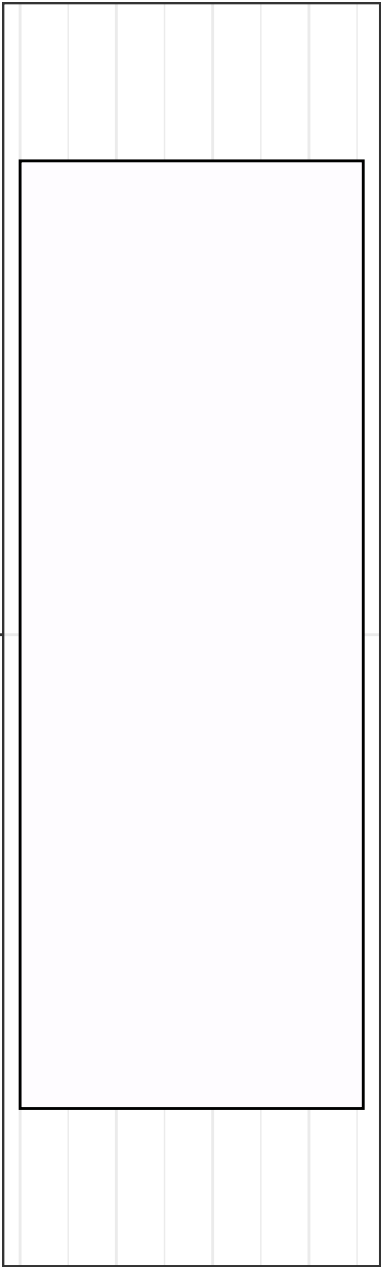
S – Intensity Nucleus EdU Sum

0.11% Non-Zero



S – # cells

0.11% Non-Zero

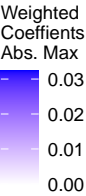
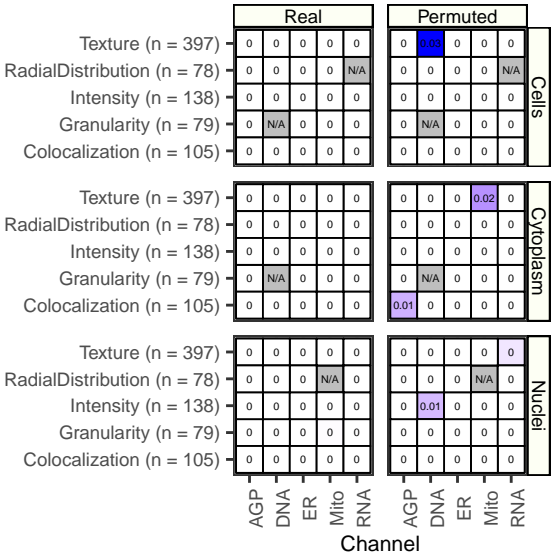
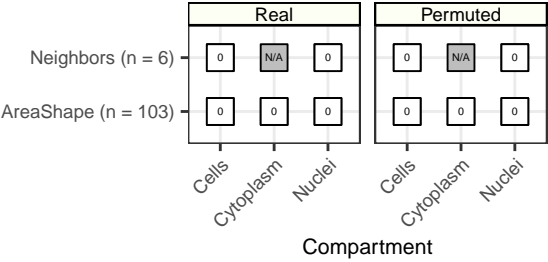


Nuclei\_Granularity\_1\_Mito

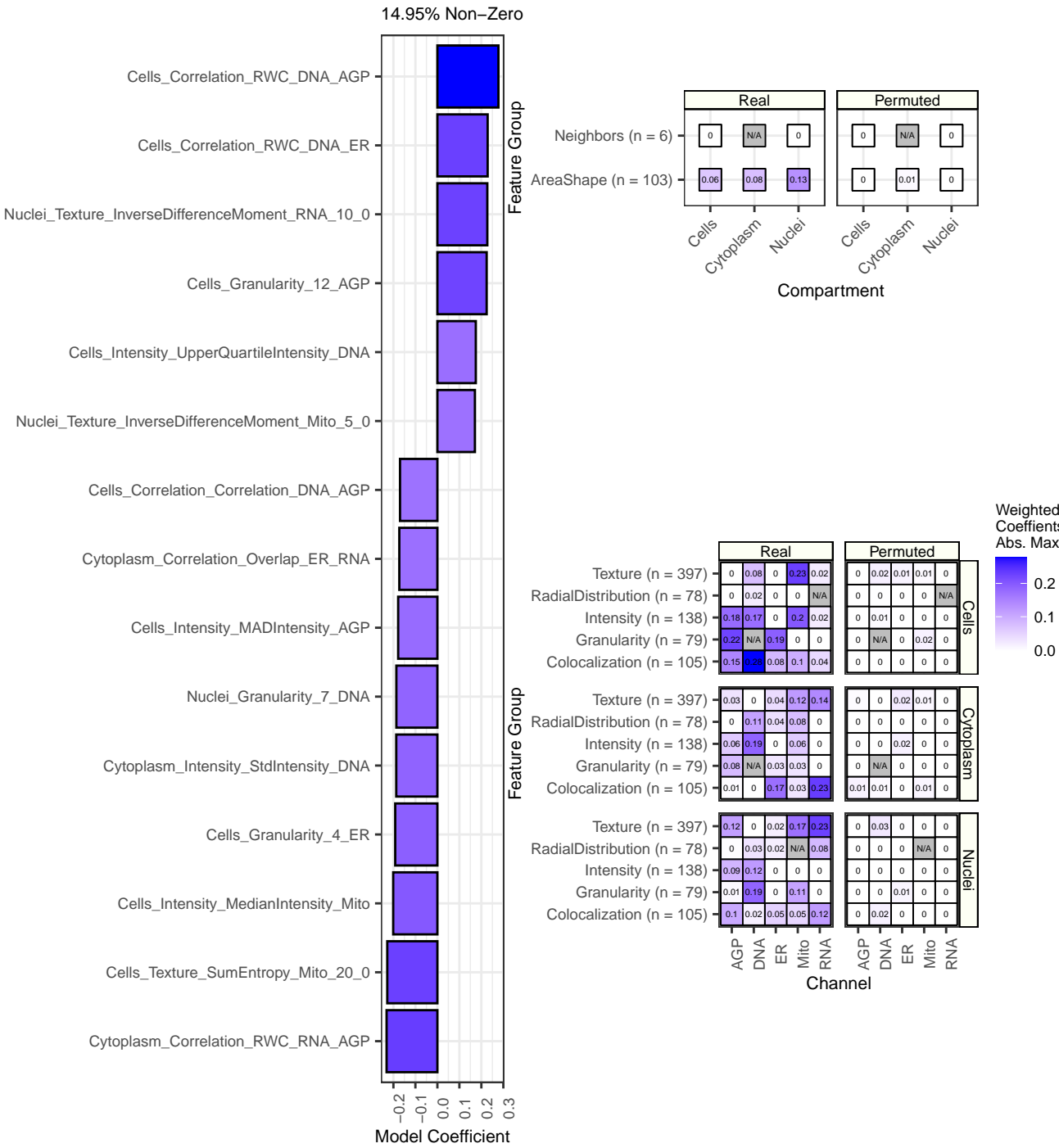
Feature Group

Feature Group

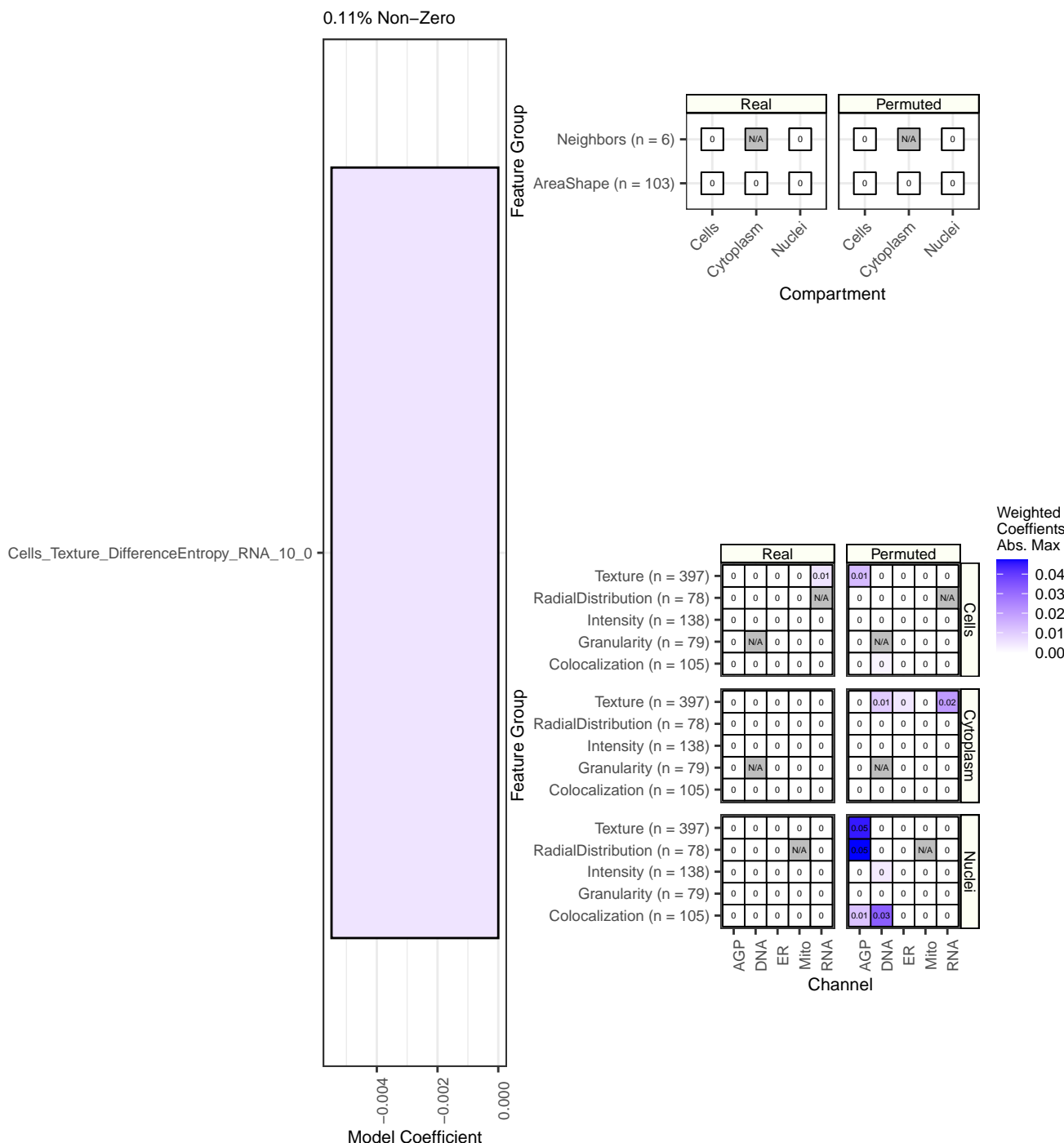
Feature Group



S – # of gH2AX Spots



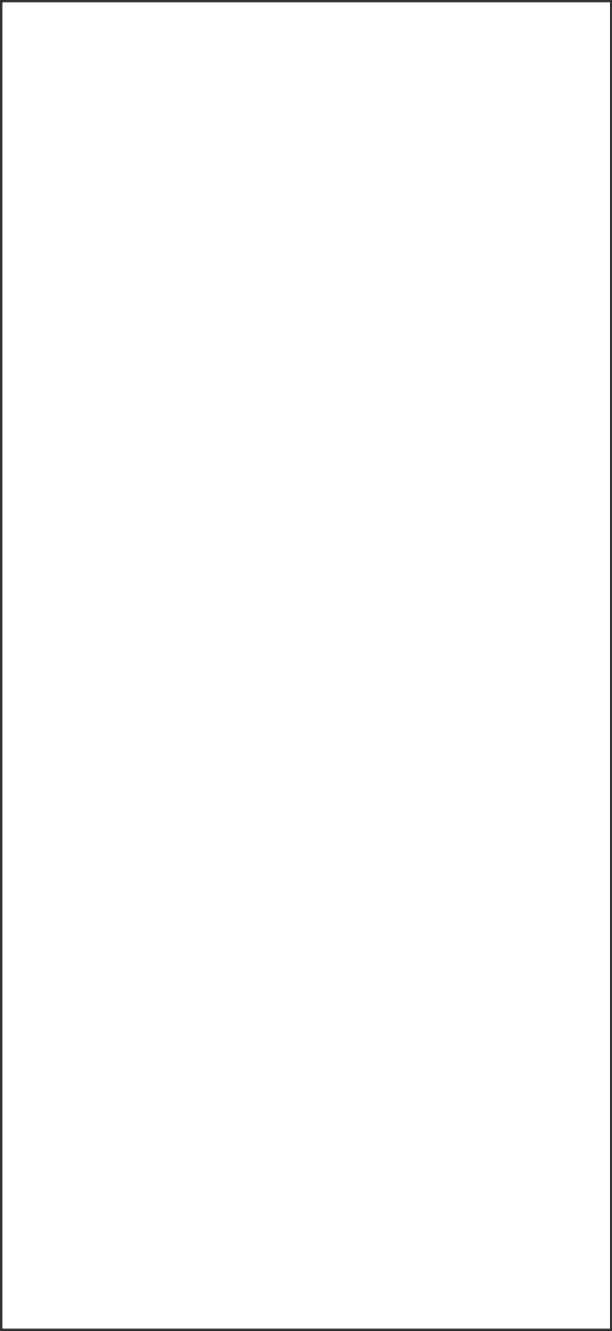
# S – # of gH2AX Spots per Area of Nucleus





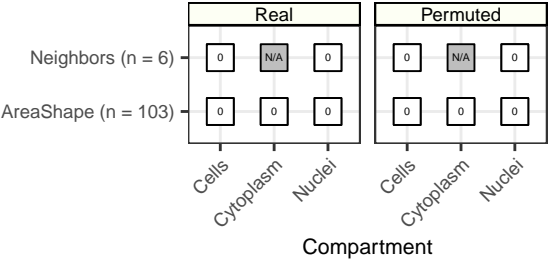
VB – Infection Efficiency

0% Non-Zero

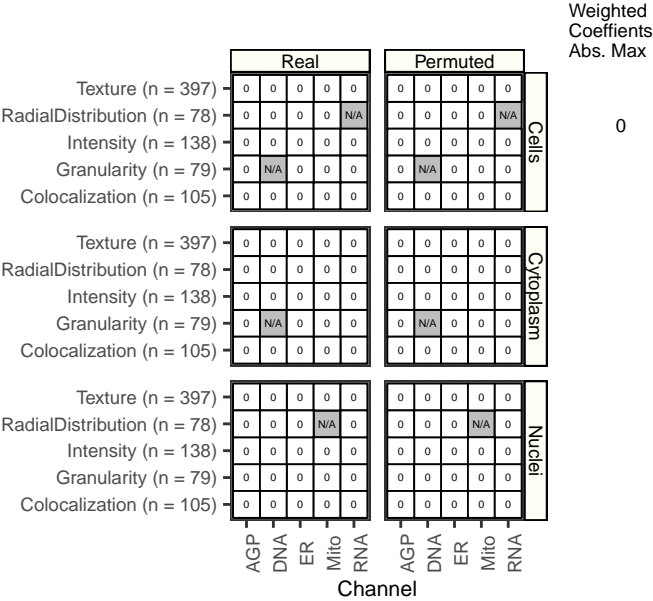


Model Coefficient

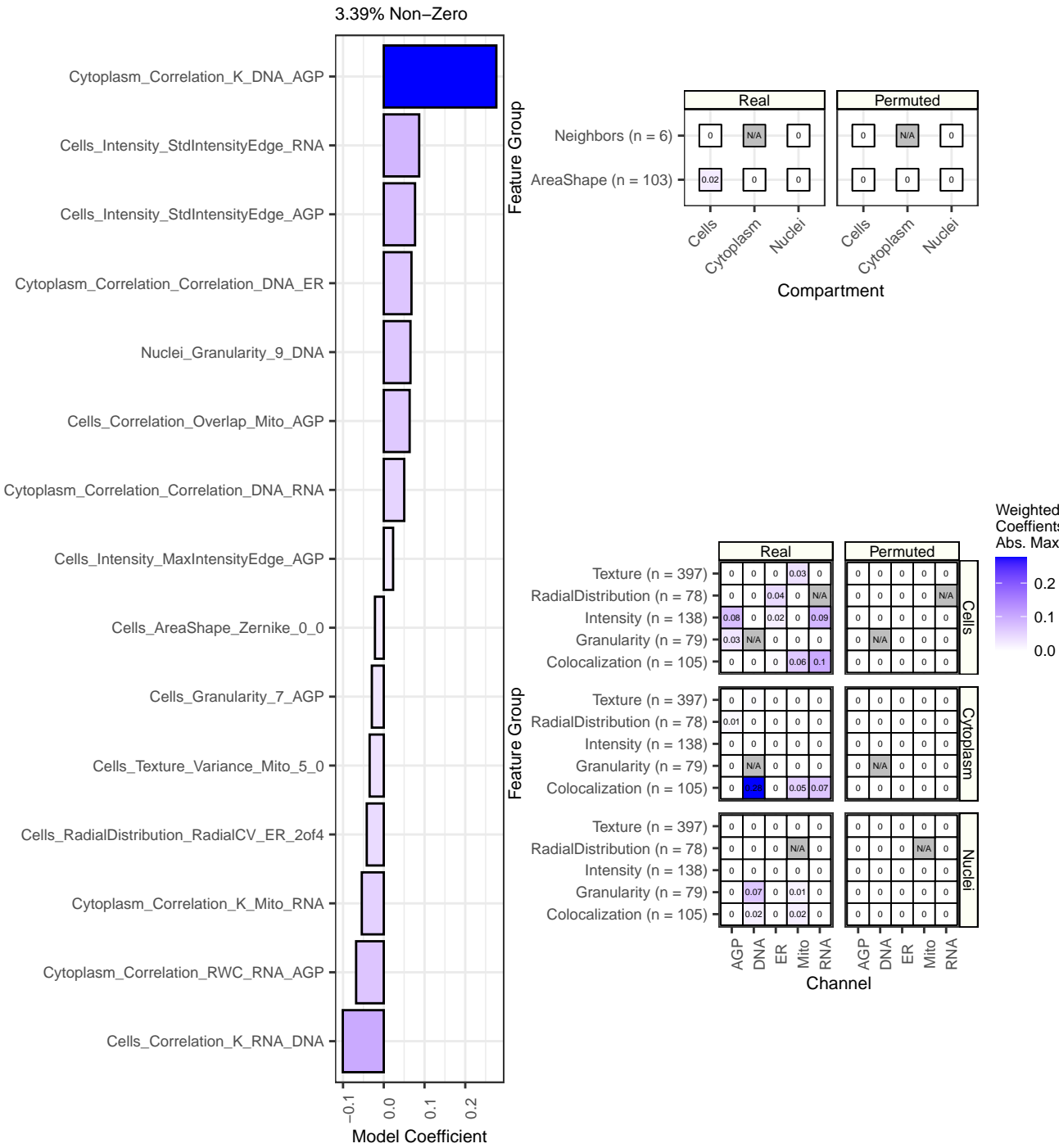
Feature Group



Feature Group

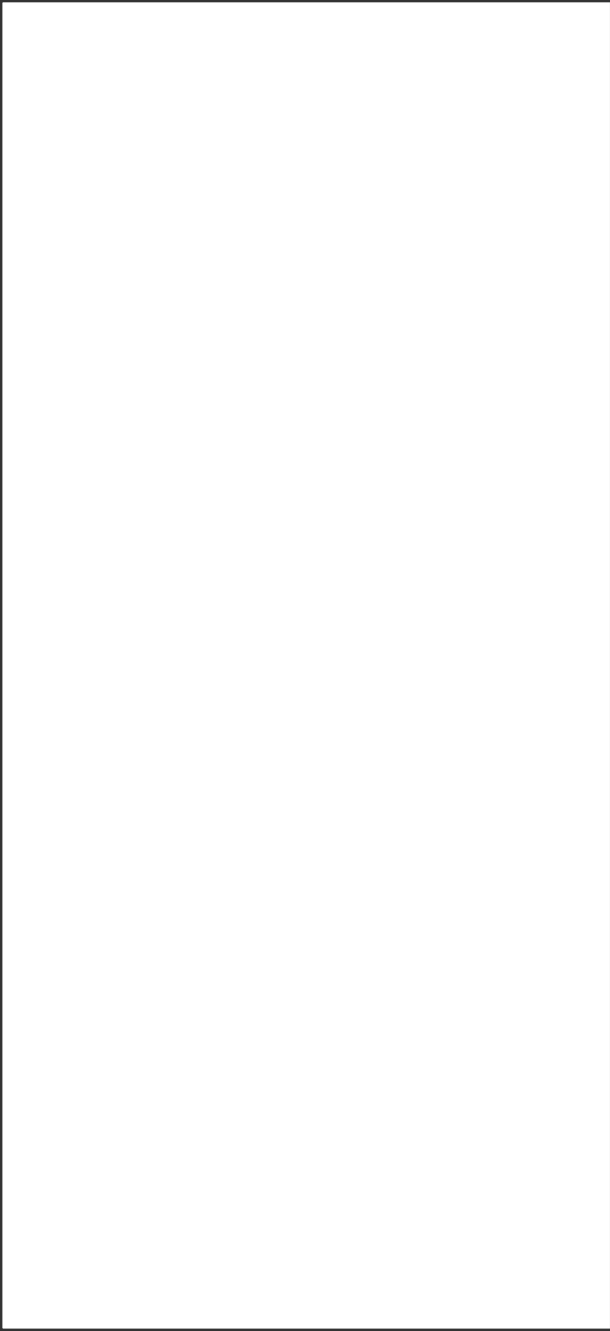


# Live Cell Area

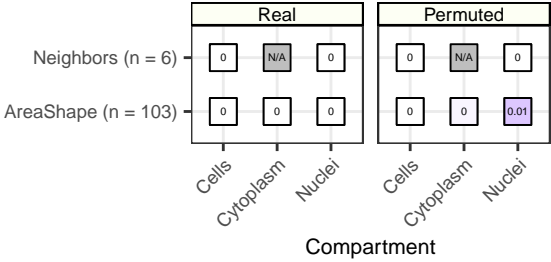


# Live Cell Roundness

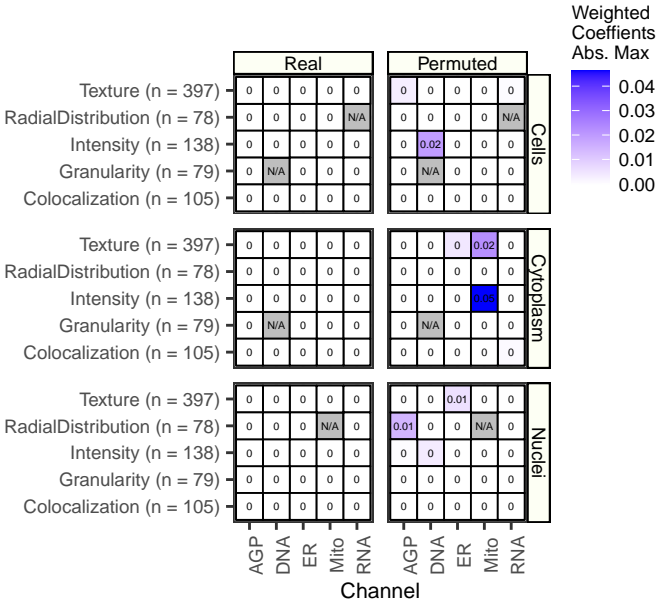
0% Non-Zero



Feature Group



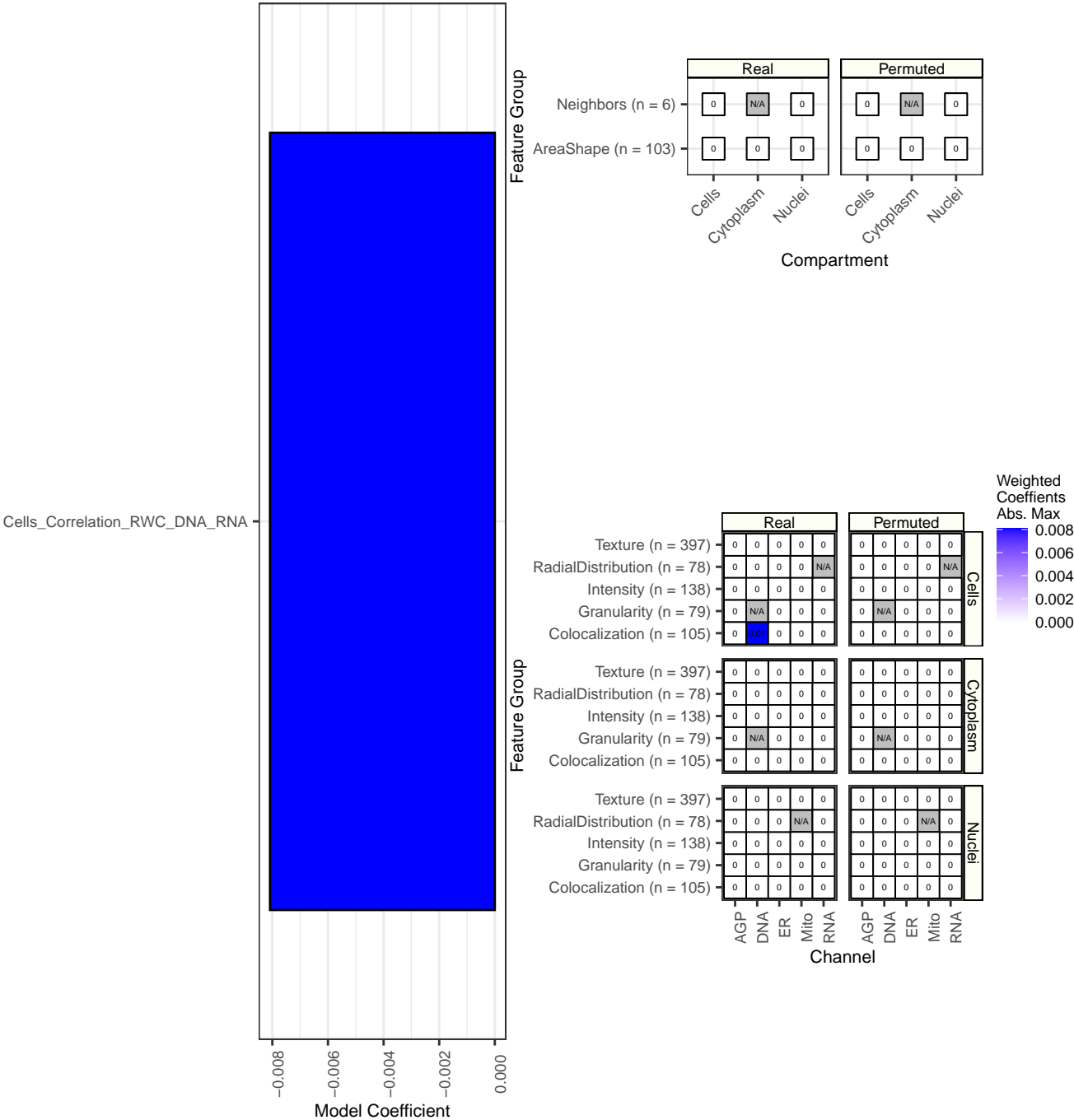
Feature Group



Model Coefficient

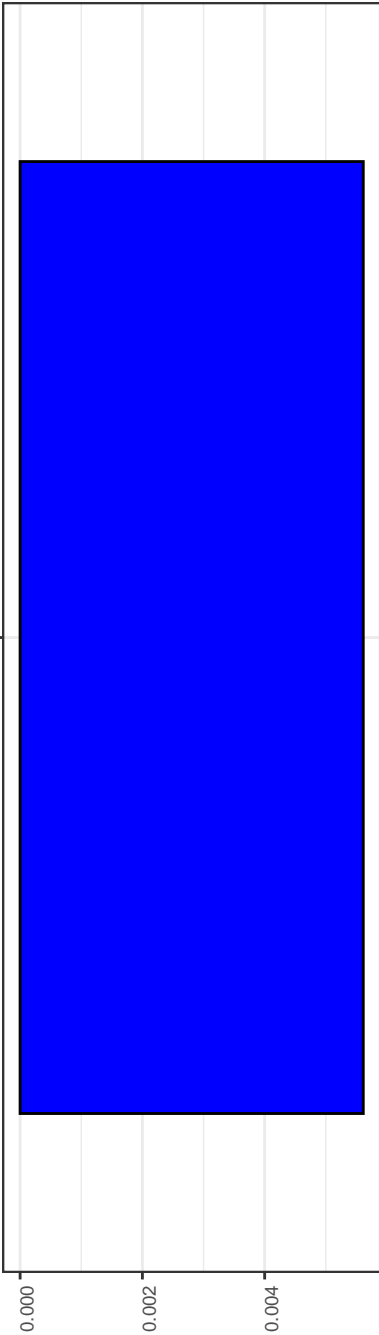
# Live Width / Length

0.11% Non-Zero

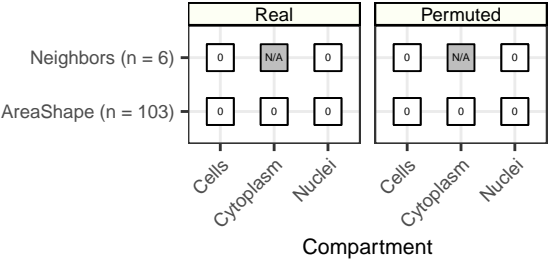


# Live Cells

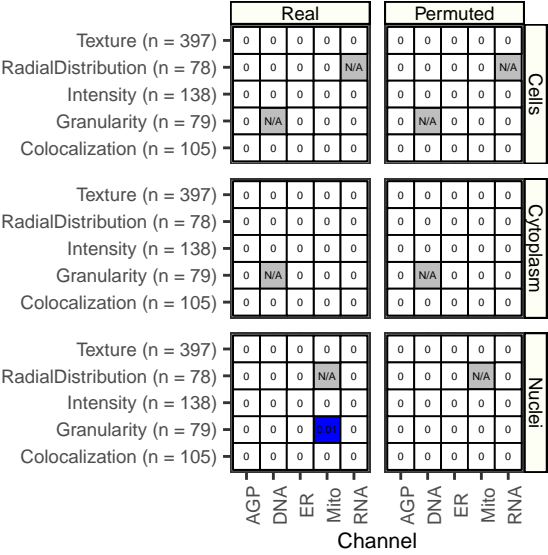
0.11% Non-Zero



Feature Group



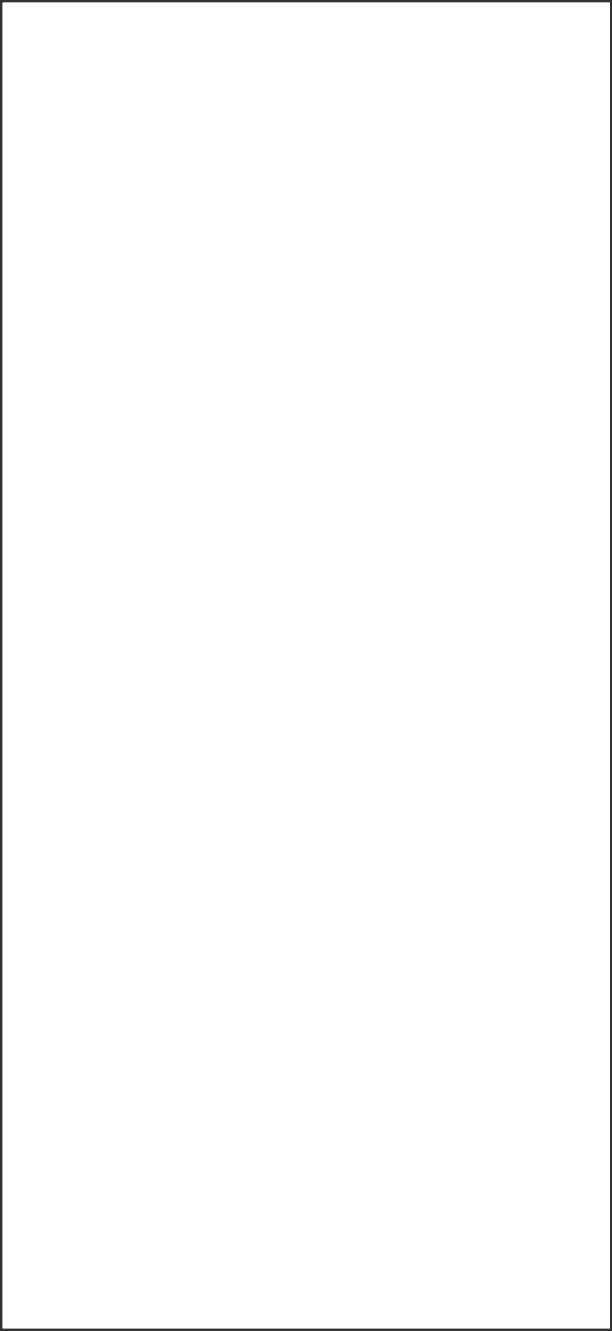
Feature Group



Channel

% All Apoptosis (CASP+)

0% Non-Zero



Feature Group

|                     | Real  |           |        | Permuted |           |        |
|---------------------|-------|-----------|--------|----------|-----------|--------|
|                     | Cells | Cytoplasm | Nuclei | Cells    | Cytoplasm | Nuclei |
| Neighbors (n = 6)   | 0     | N/A       | 0      | 0        | N/A       | 0      |
| AreaShape (n = 103) | 0     | 0         | 0      | 0        | 0         | 0      |

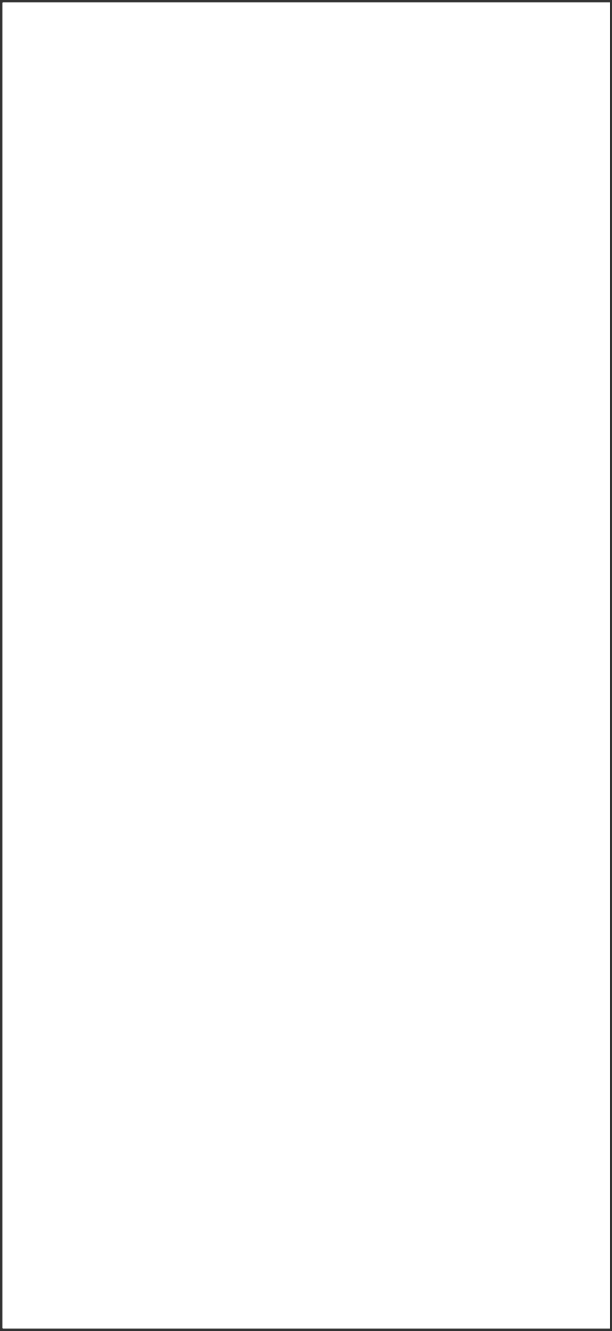
Feature Group

|                             | Real |     |    |      |     |           | Weighted Coefficients Abs. Max |
|-----------------------------|------|-----|----|------|-----|-----------|--------------------------------|
|                             | AGP  | DNA | ER | Mito | RNA |           |                                |
| Texture (n = 397)           | 0    | 0   | 0  | 0    | 0   | Cells     | 0                              |
| RadialDistribution (n = 78) | 0    | 0   | 0  | 0    | N/A |           |                                |
| Intensity (n = 138)         | 0    | 0   | 0  | 0    | 0   |           |                                |
| Granularity (n = 79)        | 0    | N/A | 0  | 0    | 0   |           |                                |
| Colocalization (n = 105)    | 0    | 0   | 0  | 0    | 0   |           |                                |
| Texture (n = 397)           | 0    | 0   | 0  | 0    | 0   | Cytoplasm |                                |
| RadialDistribution (n = 78) | 0    | 0   | 0  | 0    | 0   |           |                                |
| Intensity (n = 138)         | 0    | 0   | 0  | 0    | 0   |           |                                |
| Granularity (n = 79)        | 0    | N/A | 0  | 0    | 0   |           |                                |
| Colocalization (n = 105)    | 0    | 0   | 0  | 0    | 0   |           |                                |
| Texture (n = 397)           | 0    | 0   | 0  | 0    | 0   | Nuclei    |                                |
| RadialDistribution (n = 78) | 0    | 0   | 0  | N/A  | 0   |           |                                |
| Intensity (n = 138)         | 0    | 0   | 0  | 0    | 0   |           |                                |
| Granularity (n = 79)        | 0    | 0   | 0  | 0    | 0   |           |                                |
| Colocalization (n = 105)    | 0    | 0   | 0  | 0    | 0   |           |                                |

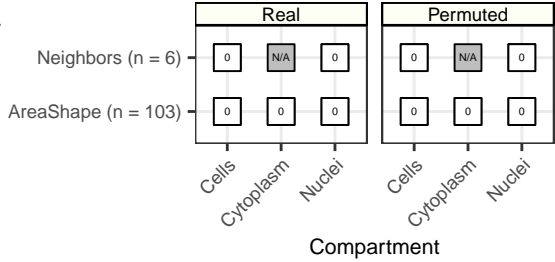
Model Coefficient

% Caspase / % Dead Only

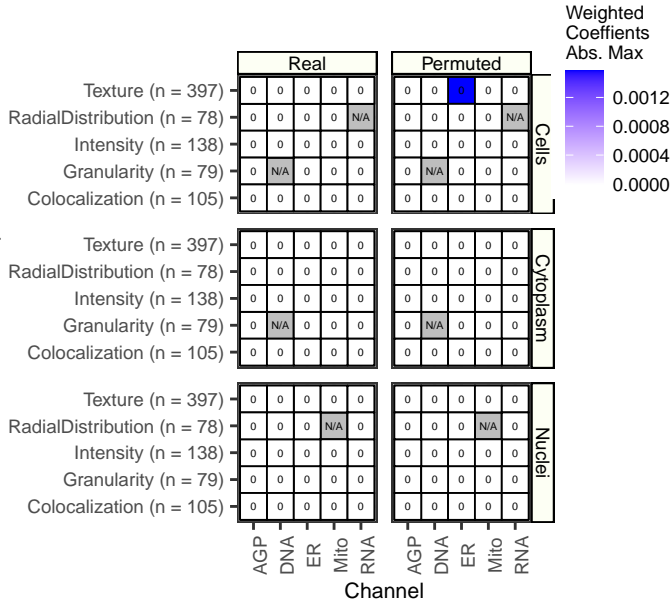
0% Non-Zero



Feature Group



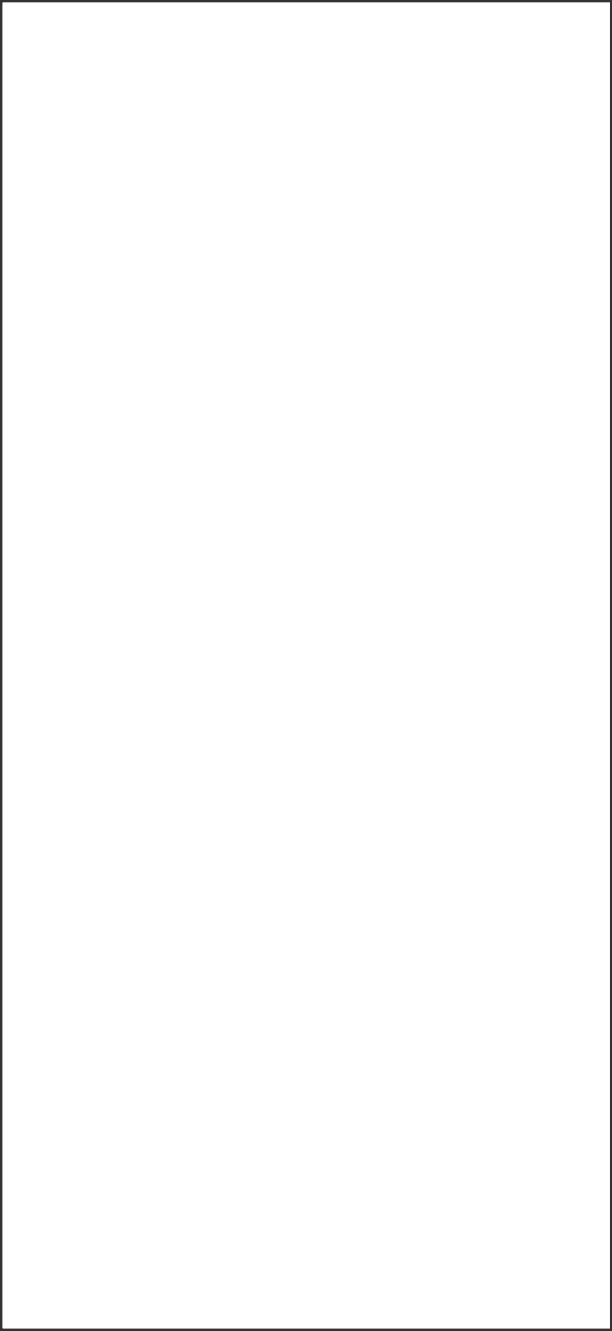
Feature Group



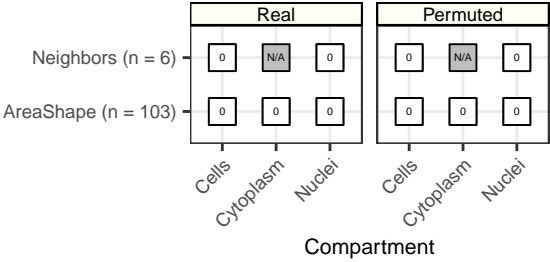
Model Coefficient

% All Dead (DRAQ7+)

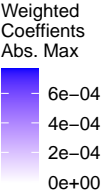
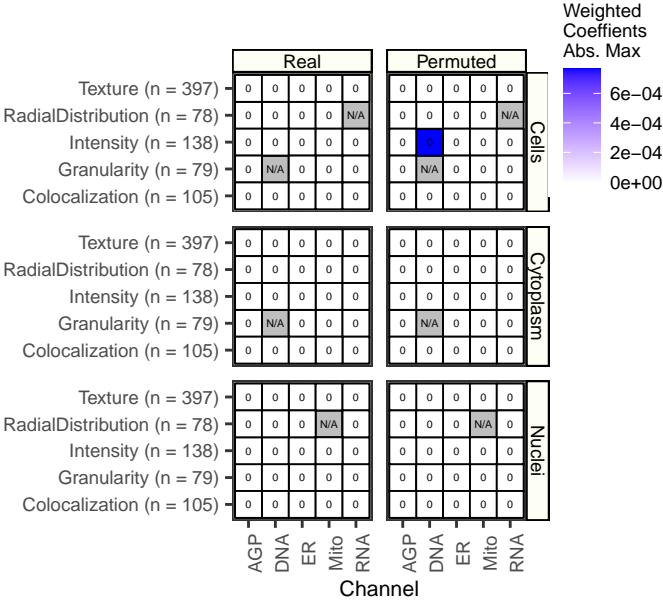
0% Non-Zero



Feature Group



Feature Group

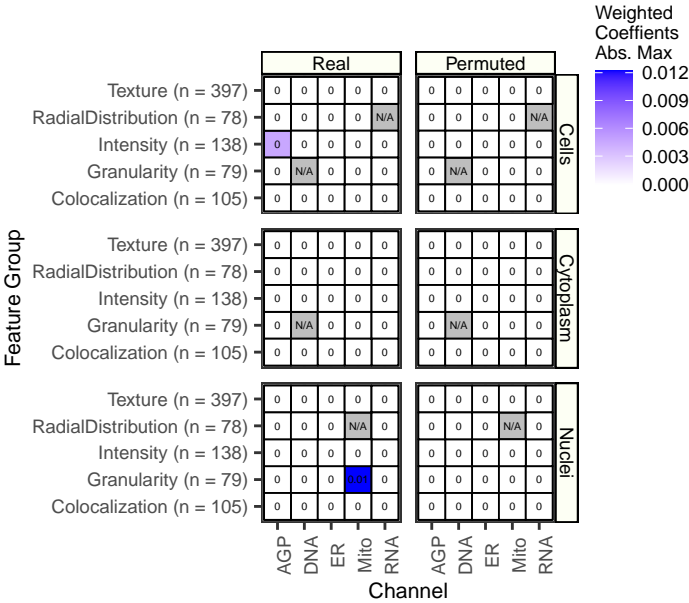
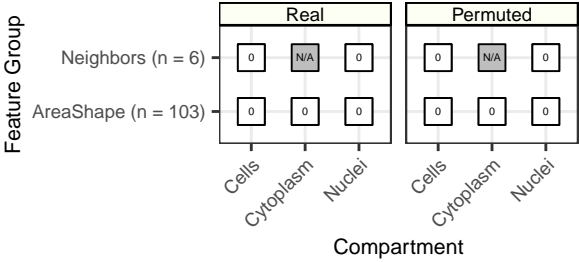
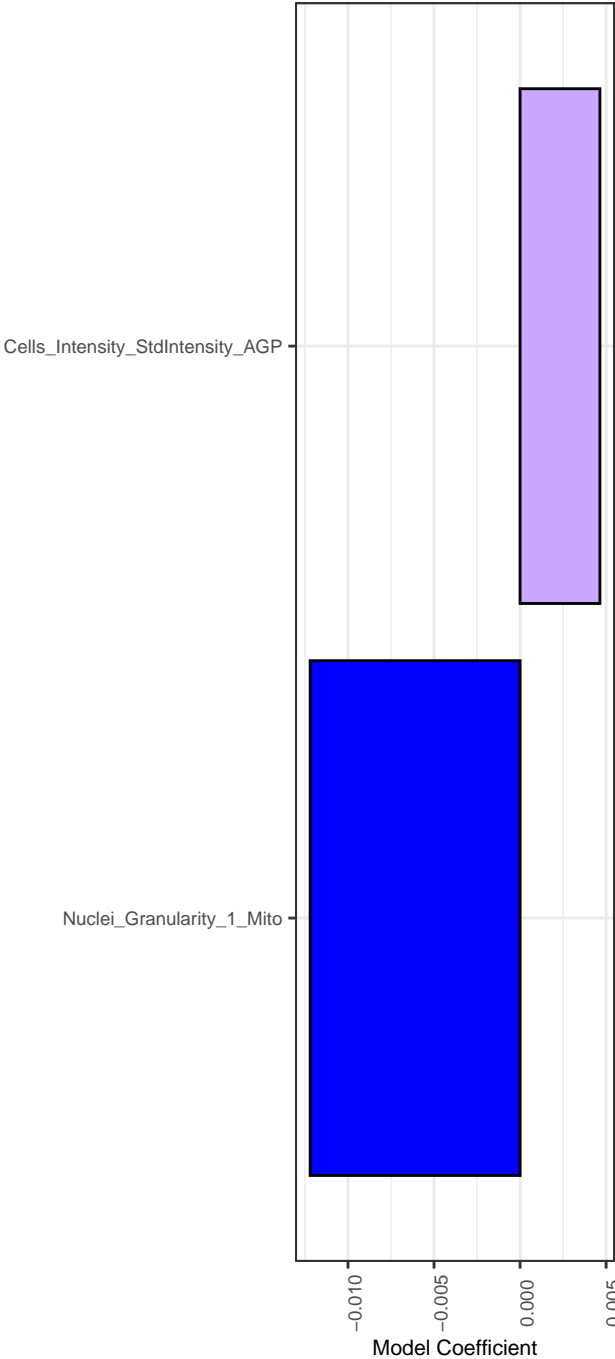


Model Coefficient



% Dead Only (CASP-; DRAQ7+)

0.21% Non-Zero



0% Non-Zero

|                     | Real  |           |        | Permuted |           |        |
|---------------------|-------|-----------|--------|----------|-----------|--------|
|                     | Cells | Cytoplasm | Nuclei | Cells    | Cytoplasm | Nuclei |
| Neighbors (n = 6)   | 0     | N/A       | 0      | 0        | N/A       | 0      |
| AreaShape (n = 103) | 0     | 0         | 0      | 0        | 0         | 0      |

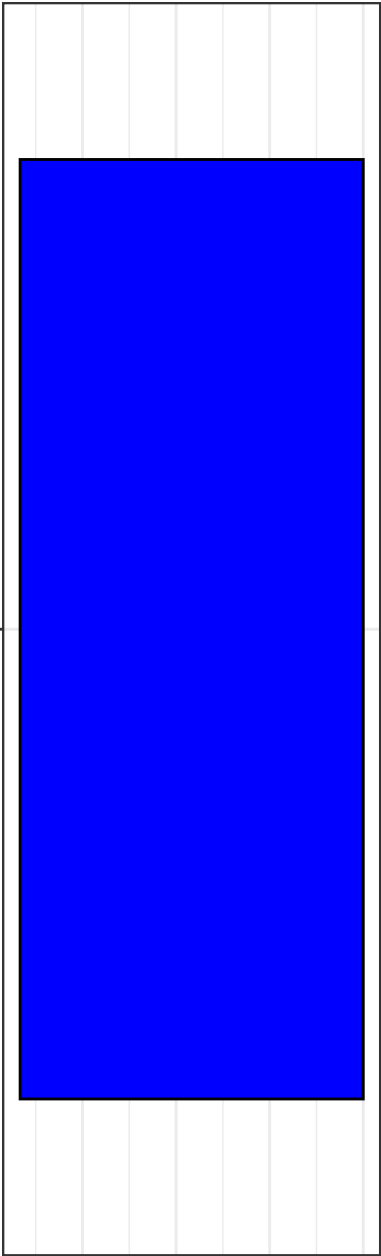
0

|                             | Real    |     |    |      |     | Permuted |     |    |      |     |           |
|-----------------------------|---------|-----|----|------|-----|----------|-----|----|------|-----|-----------|
| Texture (n = 397)           | 0       | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   | Cells     |
| RadialDistribution (n = 78) | 0       | 0   | 0  | 0    | N/A | 0        | 0   | 0  | 0    | N/A |           |
| Intensity (n = 138)         | 0       | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   |           |
| Granularity (n = 79)        | 0       | N/A | 0  | 0    | 0   | 0        | N/A | 0  | 0    | 0   |           |
| Colocalization (n = 105)    | 0       | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   |           |
| Texture (n = 397)           | 0       | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   | Cytoplasm |
| RadialDistribution (n = 78) | 0       | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   |           |
| Intensity (n = 138)         | 0       | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   |           |
| Granularity (n = 79)        | 0       | N/A | 0  | 0    | 0   | 0        | N/A | 0  | 0    | 0   |           |
| Colocalization (n = 105)    | 0       | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   |           |
| Texture (n = 397)           | 0       | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   | Nuclei    |
| RadialDistribution (n = 78) | 0       | 0   | 0  | N/A  | 0   | 0        | 0   | 0  | N/A  | 0   |           |
| Intensity (n = 138)         | 0       | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   |           |
| Granularity (n = 79)        | 0       | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   |           |
| Colocalization (n = 105)    | 0       | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   |           |
|                             | AGP     | DNA | ER | Mito | RNA | AGP      | DNA | ER | Mito | RNA |           |
|                             | Channel |     |    |      |     |          |     |    |      |     |           |

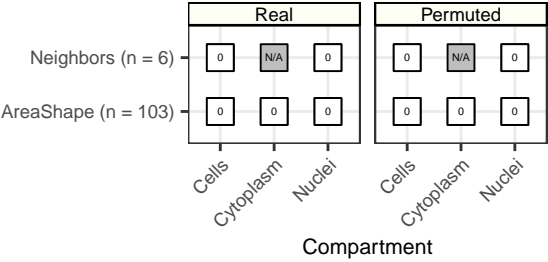
Model Coefficient

% Late Apoptosis (CASP+; DRAQ7+)

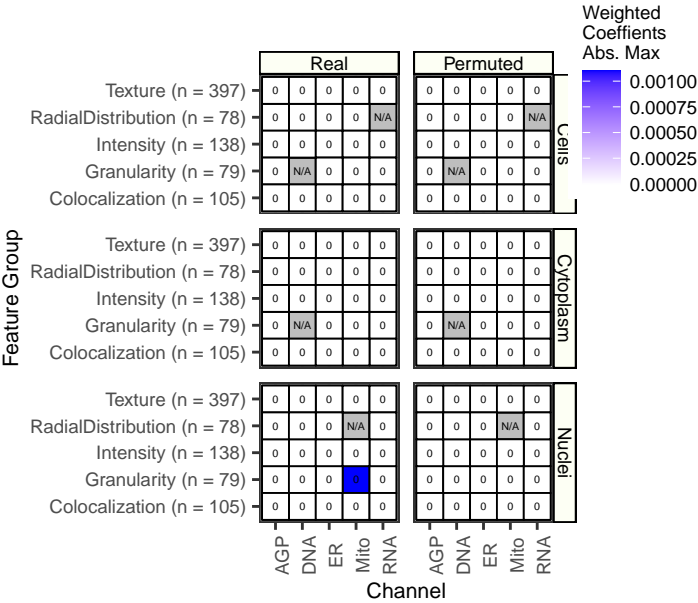
0.11% Non-Zero



Feature Group



Nuclei\_Granularity\_1\_Mito



% Live (DRAQ7-; CASP-)

0% Non-Zero



Feature Group

|                     | Real  |           |        | Permuted |           |        |
|---------------------|-------|-----------|--------|----------|-----------|--------|
|                     | Cells | Cytoplasm | Nuclei | Cells    | Cytoplasm | Nuclei |
| Neighbors (n = 6)   | 0     | N/A       | 0      | 0        | N/A       | 0      |
| AreaShape (n = 103) | 0     | 0         | 0      | 0        | 0         | 0      |

Feature Group

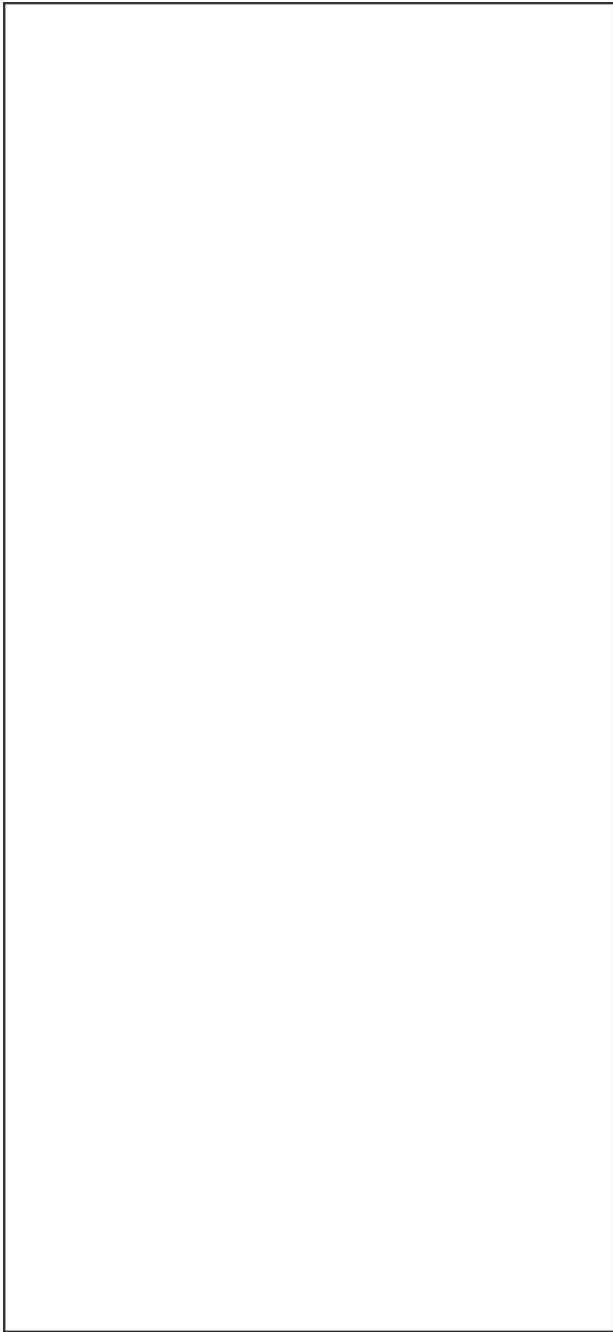
|                             | Real |     |    |      |     | Permuted |     |    |      |     | Weighted Coefficients Abs. Max |
|-----------------------------|------|-----|----|------|-----|----------|-----|----|------|-----|--------------------------------|
|                             | AGP  | DNA | ER | Mito | RNA | AGP      | DNA | ER | Mito | RNA |                                |
| Texture (n = 397)           | 0    | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   | 0                              |
| RadialDistribution (n = 78) | 0    | 0   | 0  | 0    | N/A | 0        | 0   | 0  | 0    | N/A |                                |
| Intensity (n = 138)         | 0    | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   |                                |
| Granularity (n = 79)        | 0    | N/A | 0  | 0    | 0   | 0        | N/A | 0  | 0    | 0   |                                |
| Colocalization (n = 105)    | 0    | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   |                                |
| Texture (n = 397)           | 0    | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   | 0                              |
| RadialDistribution (n = 78) | 0    | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   |                                |
| Intensity (n = 138)         | 0    | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   |                                |
| Granularity (n = 79)        | 0    | N/A | 0  | 0    | 0   | 0        | N/A | 0  | 0    | 0   |                                |
| Colocalization (n = 105)    | 0    | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   |                                |
| Texture (n = 397)           | 0    | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   | 0                              |
| RadialDistribution (n = 78) | 0    | 0   | 0  | N/A  | 0   | 0        | 0   | 0  | N/A  | 0   |                                |
| Intensity (n = 138)         | 0    | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   |                                |
| Granularity (n = 79)        | 0    | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   |                                |
| Colocalization (n = 105)    | 0    | 0   | 0  | 0    | 0   | 0        | 0   | 0  | 0    | 0   |                                |

Channel

Model Coefficient

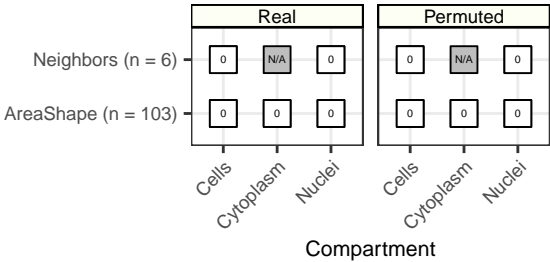
ROS-back

0% Non-Zero

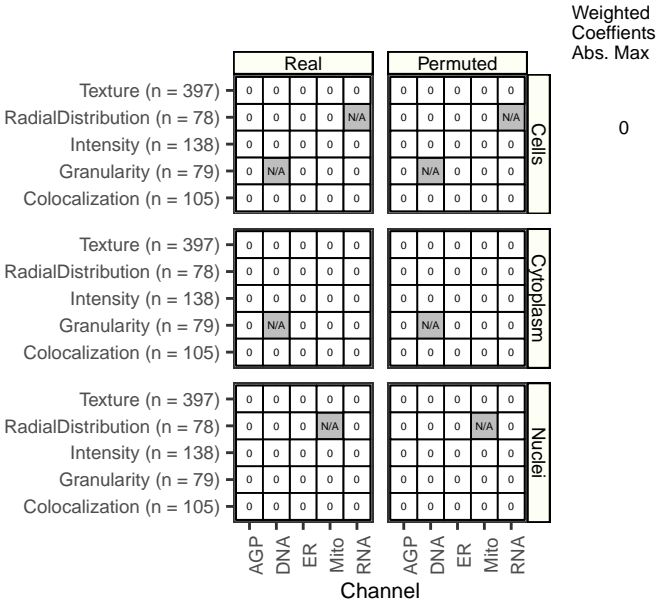


Model Coefficient

Feature Group

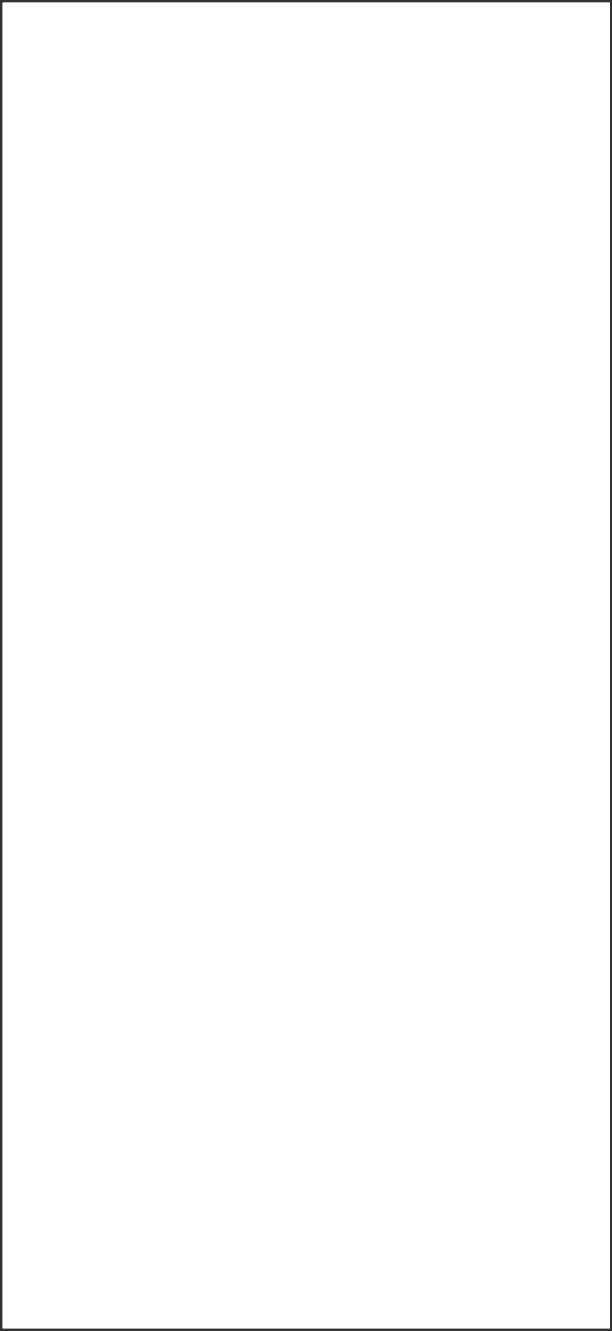


Feature Group



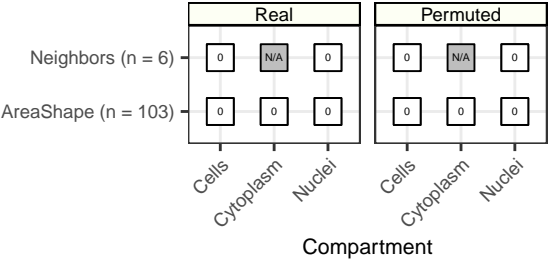
ROS

0% Non-Zero



Model Coefficient

Feature Group



Feature Group

