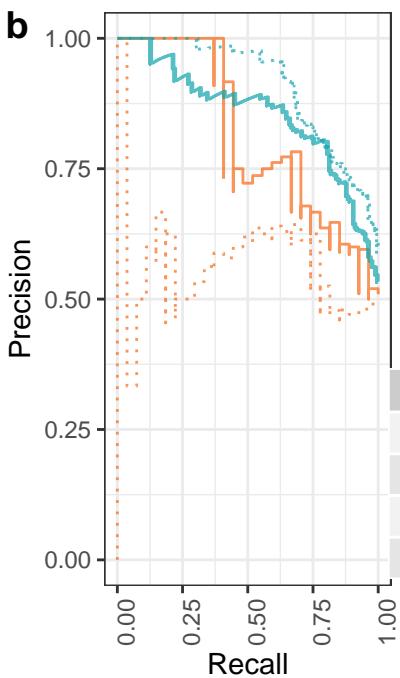
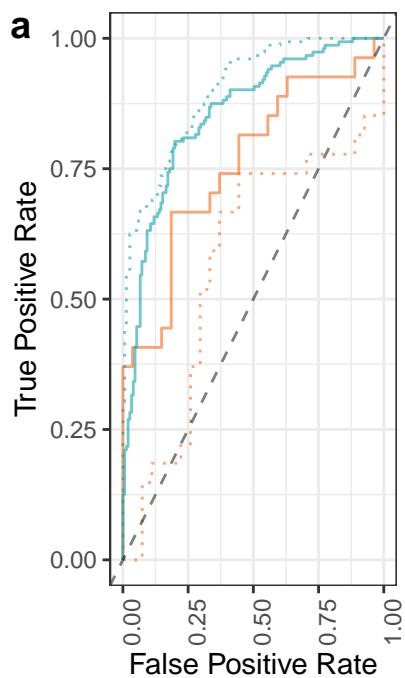


# Performance: cc\_all\_high\_n\_spots\_h2ax\_mean



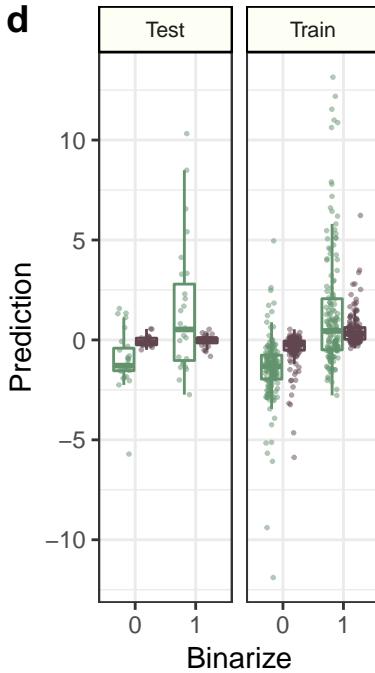
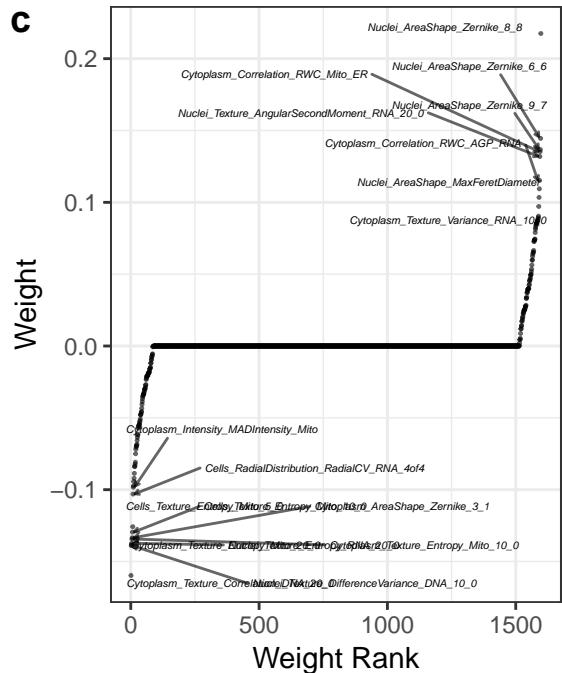
Test  
Train

Shuffled Data

Real

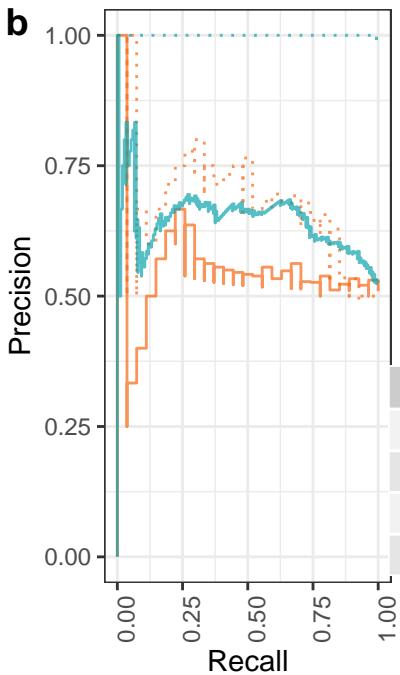
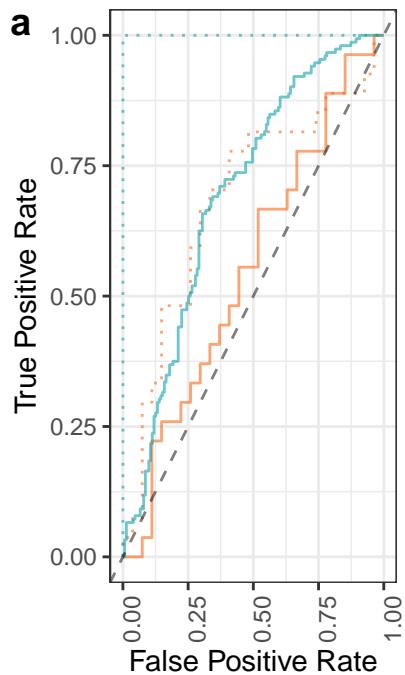
Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.85	0.85	True	False	151
Test	0.76	0.80	Test	False	151
Train	0.90	0.91	Train	True	151
Test	0.57	0.56	Test	True	151



Shuffled  
False  
True

## Performance: cc\_all\_large\_notround\_polinuclear\_mean

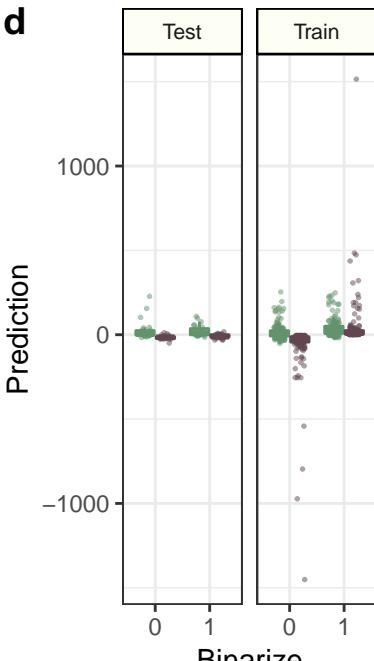
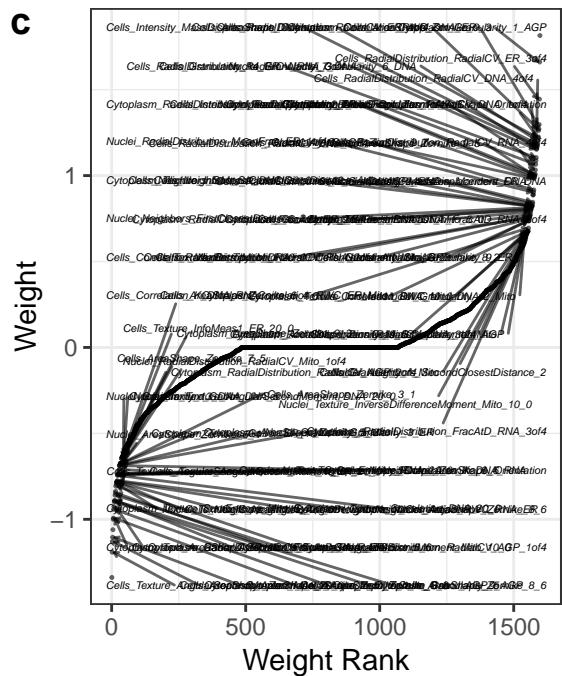


## Shuffled Data

— Real

..... Shuffled

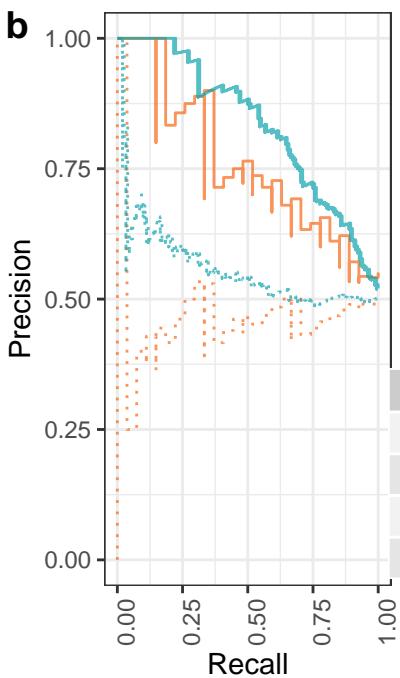
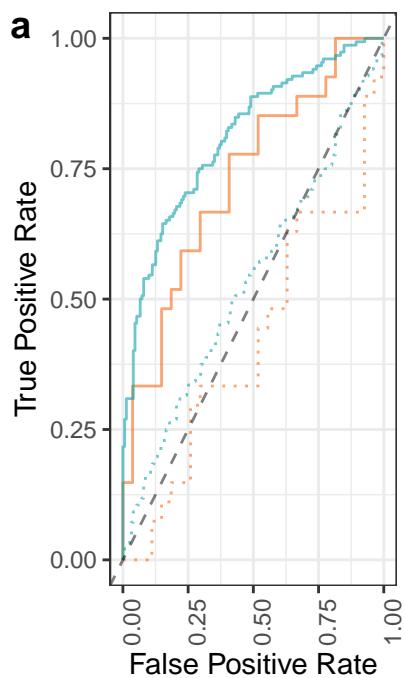
auroc	aupr	fit	shuffle	n
0.70	0.65	Train	False	151
0.55	0.54	Test	False	151
1.00	1.00	Train	True	151
0.69	0.69	Test	True	151



## Shuffled

- False
- True

# Performance: cc\_all\_large\_round\_polyplloid\_mean



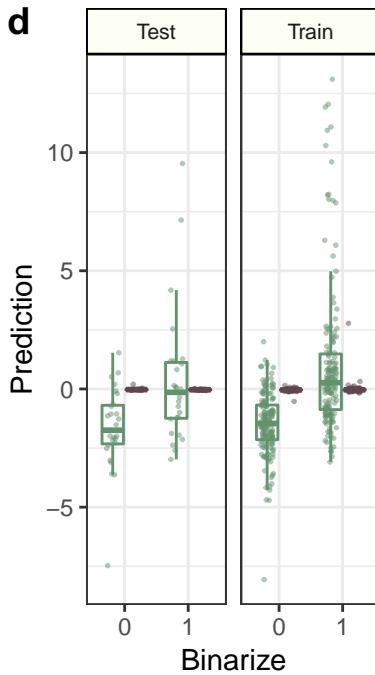
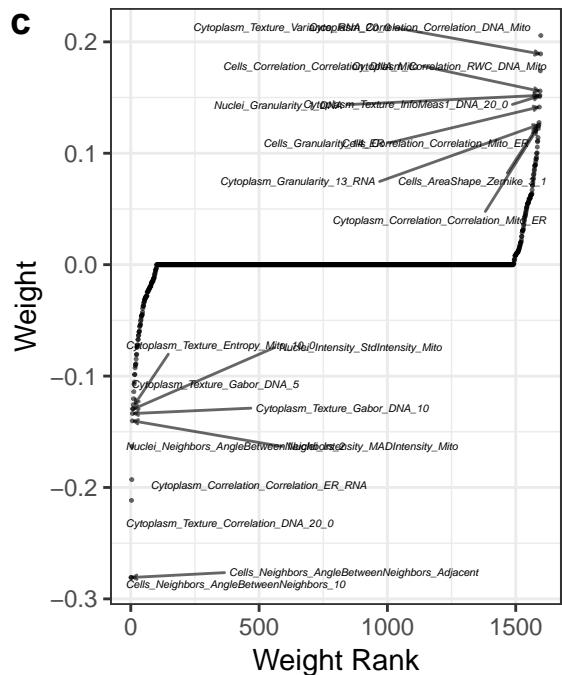
Test  
Train

Shuffled Data

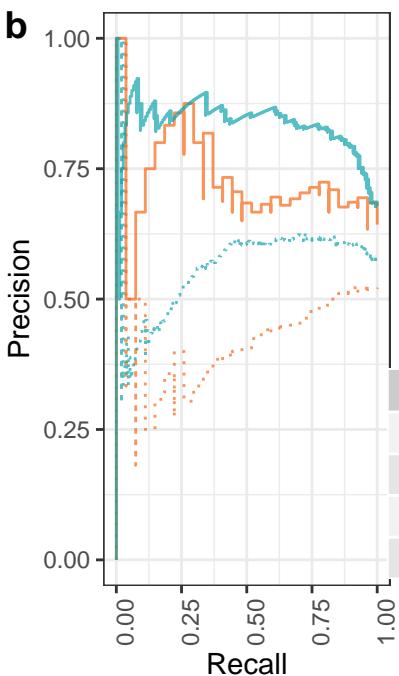
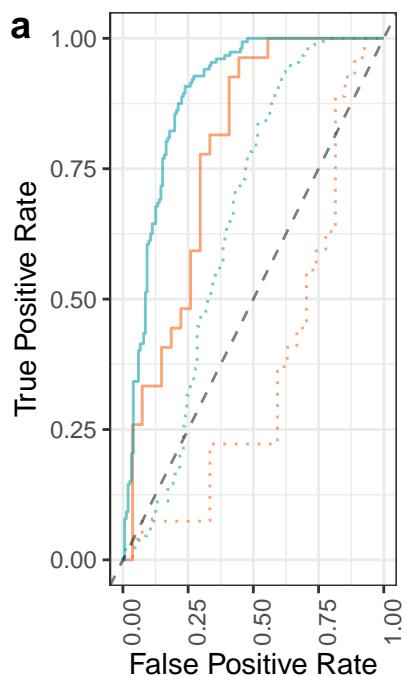
Real

Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.81	0.83	True	False	151
Test	0.73	0.75	Test	False	151
Train	0.53	0.56	Train	True	151
Test	0.42	0.46	Test	True	151



# Performance: cc\_all\_n\_objects



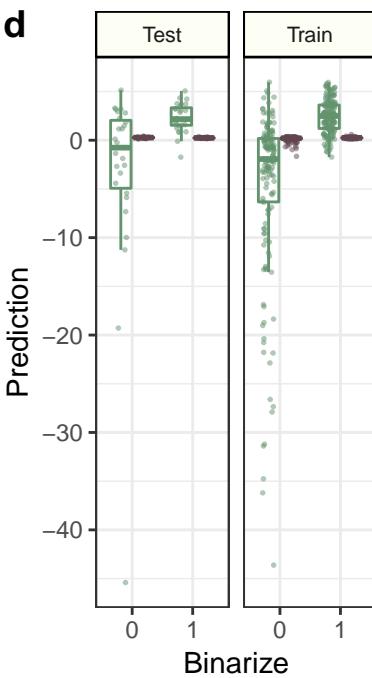
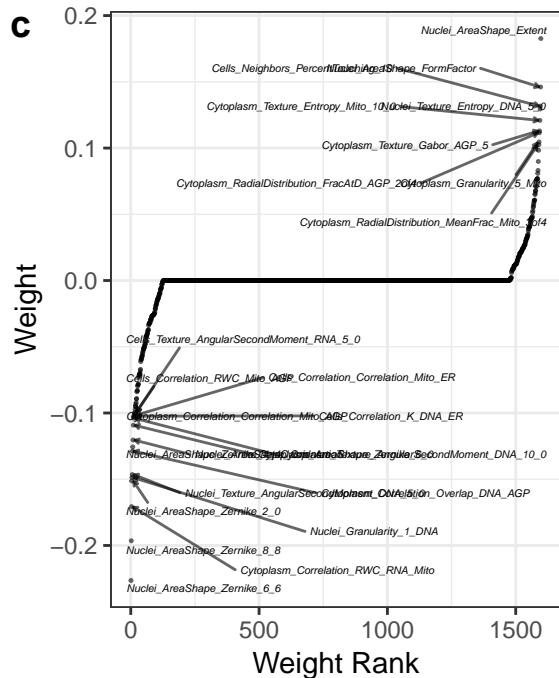
Test  
Train

Shuffled Data

Real

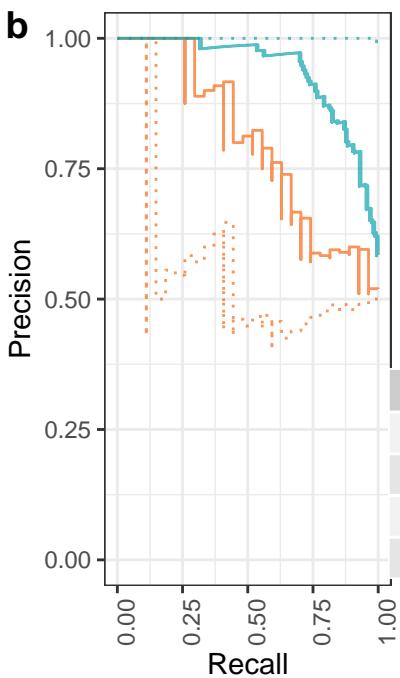
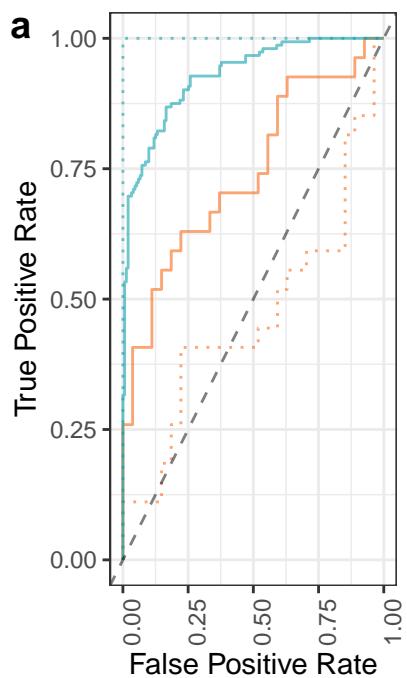
Shuffled

	auroc	aupr	fit	shuffle	n
Test	0.89	0.83	Train	False	151
Real	0.78	0.72	Test	False	151
Shuffled	0.65	0.57	Train	True	151
Train	0.37	0.43	Test	True	151



Shuffled  
False  
True

# Performance: cc\_all\_n\_spots\_mean



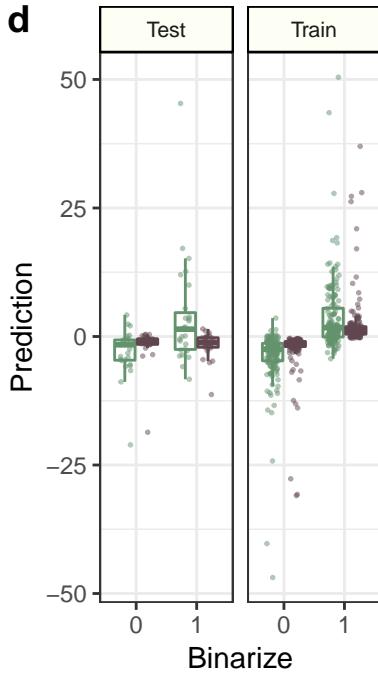
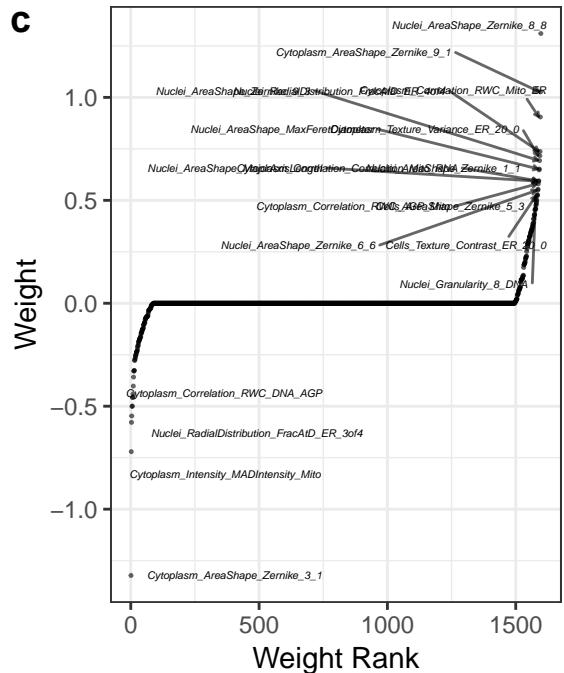
Test  
Train

Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.93	0.94	Train	False	151
Test	0.74	0.79	Test	False	151
Train	1.00	1.00	Train	True	151
Test	0.47	0.56	Test	True	151

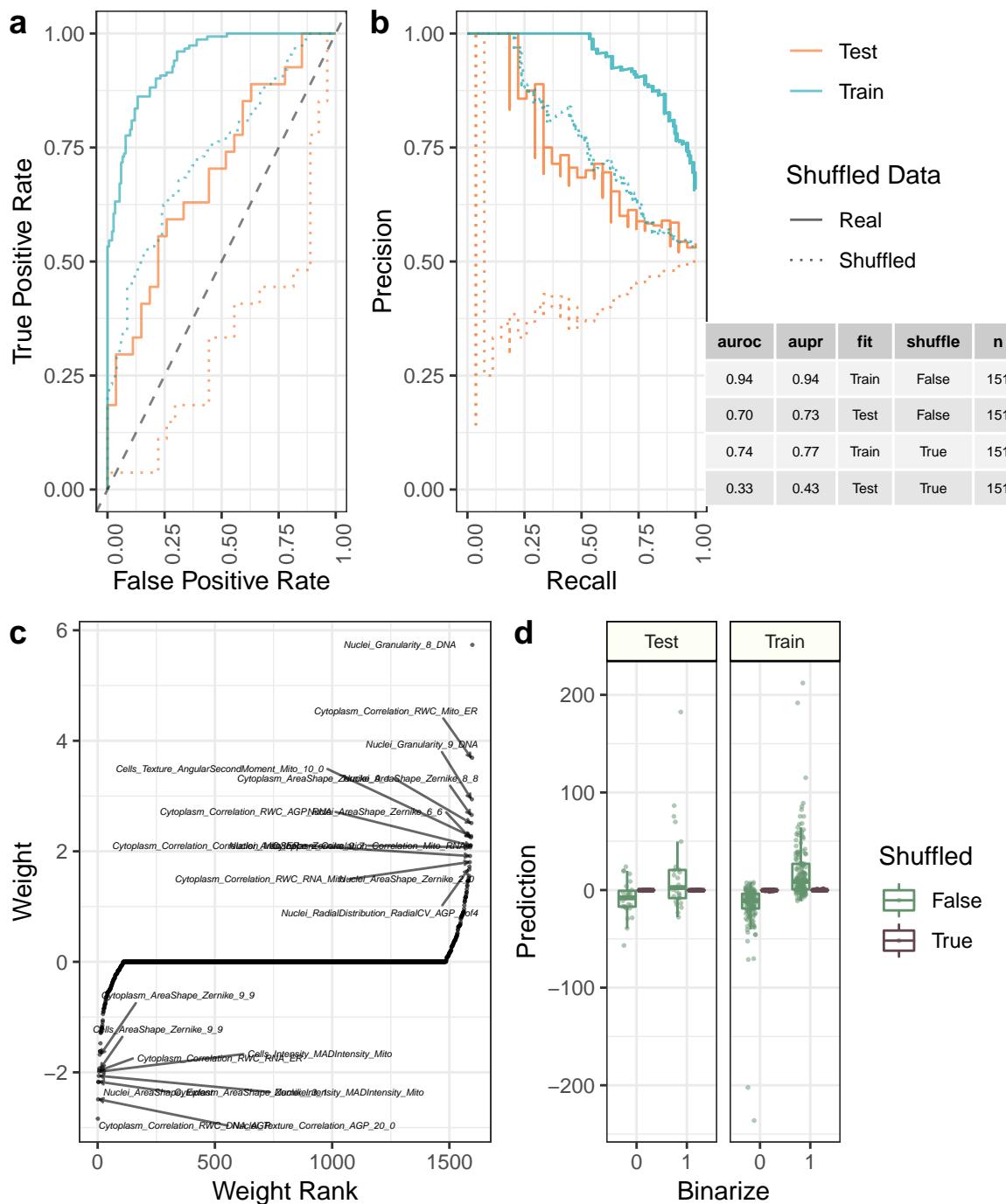


Shuffled

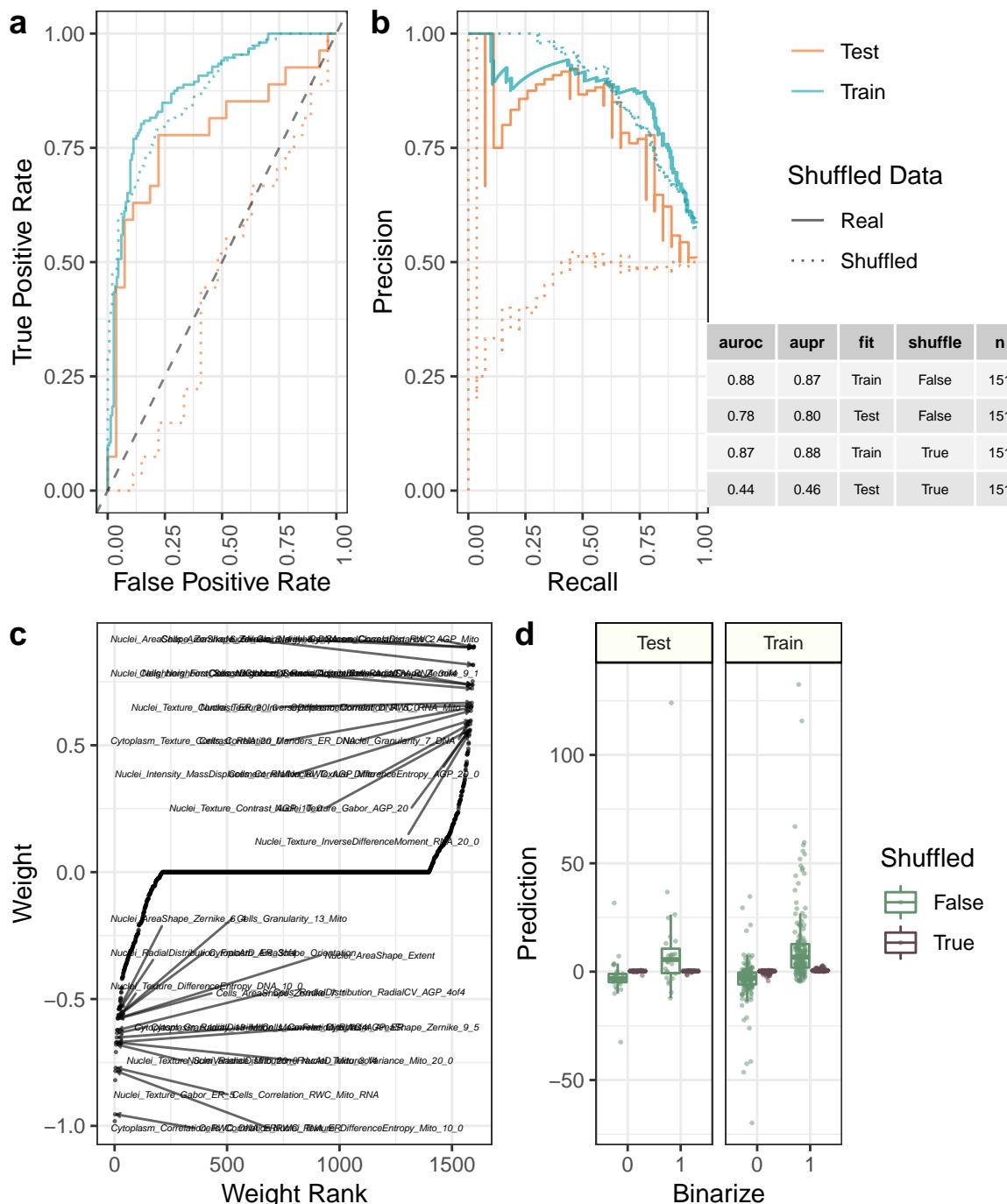
False

True

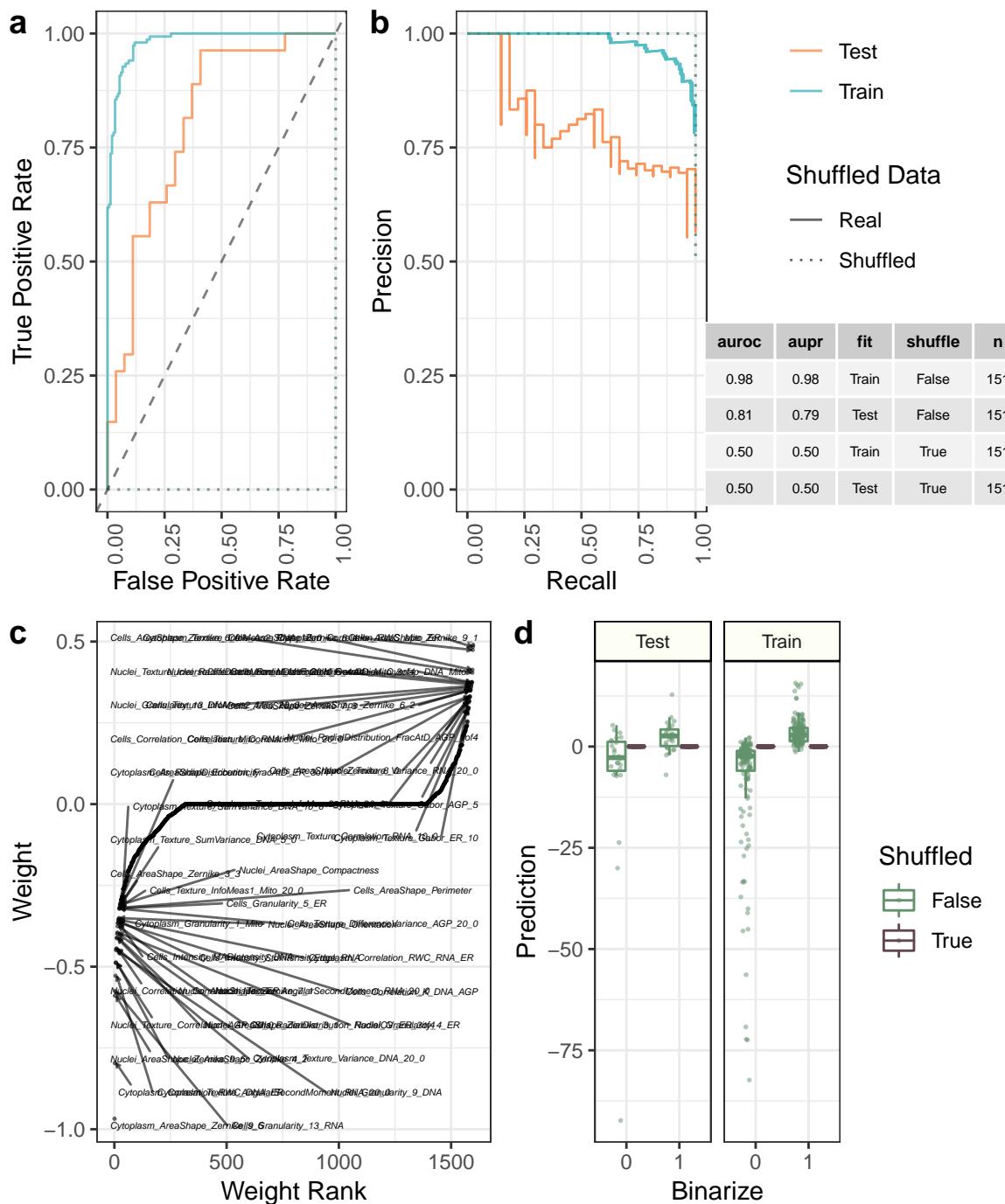
# Performance: cc\_all\_n\_spots\_per\_nucleus\_area\_mean



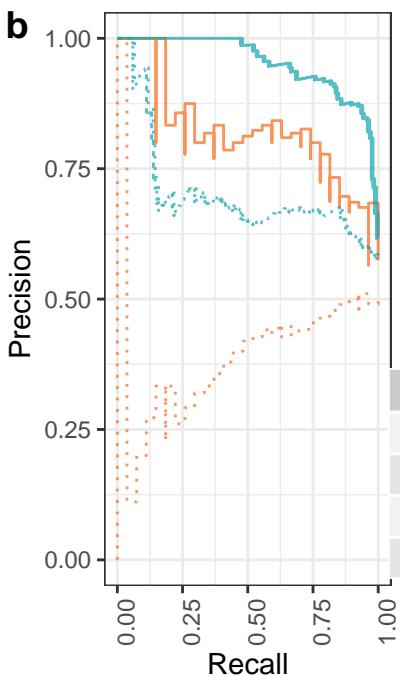
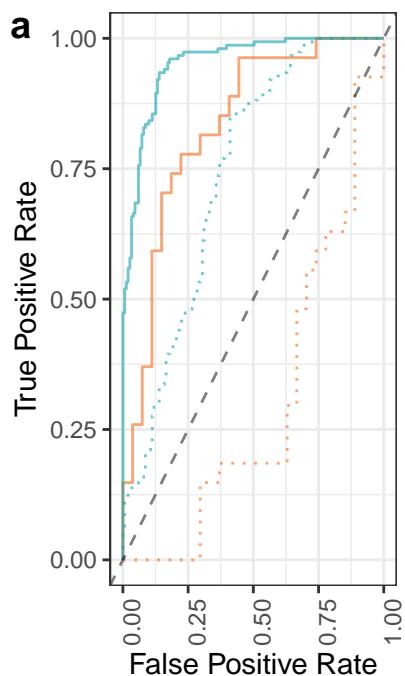
## Performance: cc\_all\_nucleus\_area\_mean



# Performance: cc\_all\_nucleus\_roundness\_mean



# Performance: cc\_cc\_edu\_pos\_mean



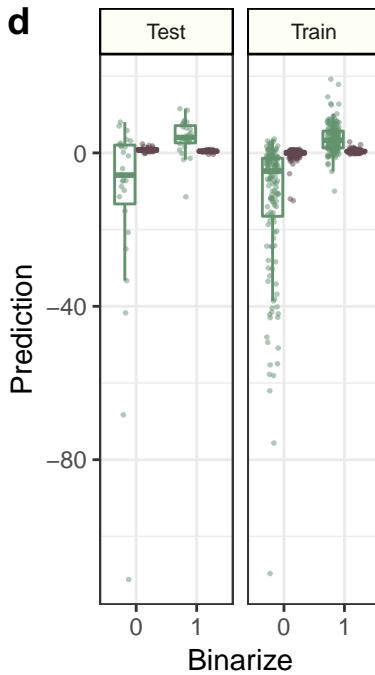
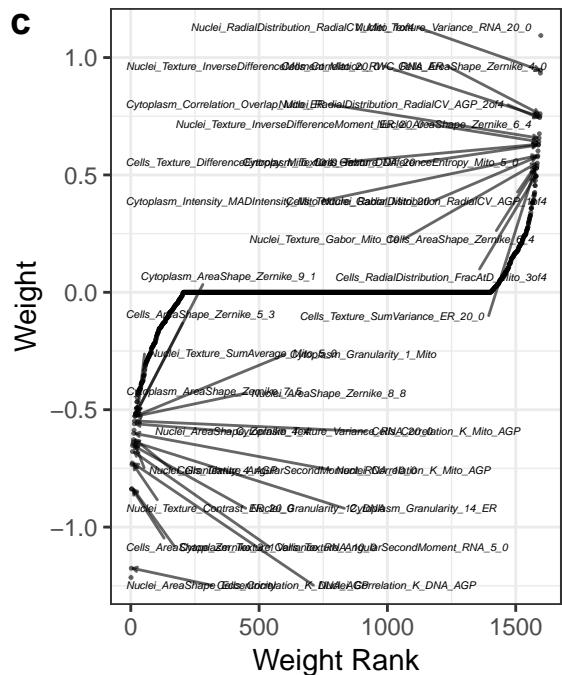
Test  
Train

Shuffled Data

Real

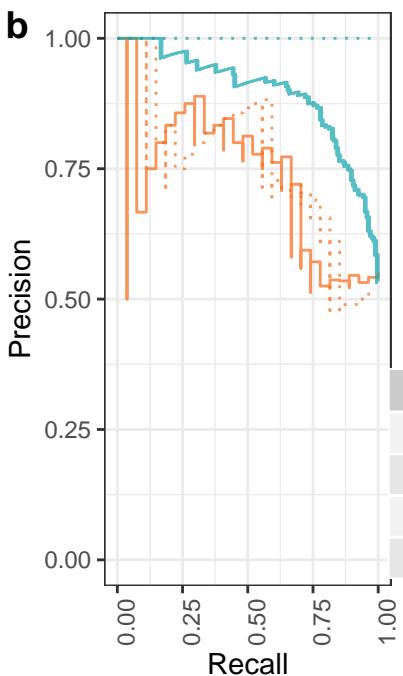
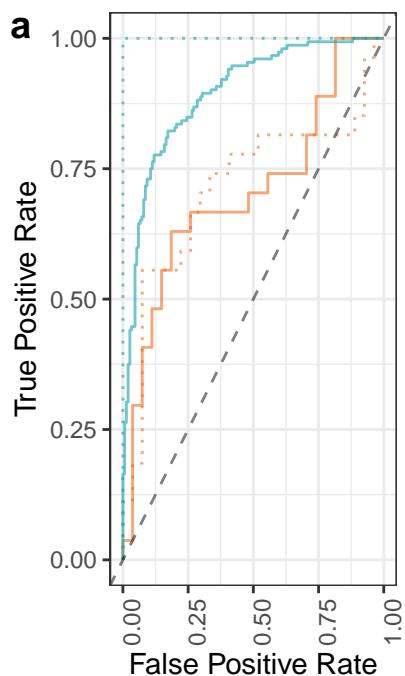
Shuffled

auroc	aupr	fit	shuffle	n
0.95	0.95	Train	False	151
0.83	0.81	Test	False	151
0.74	0.70	Train	True	151
0.30	0.39	Test	True	151



Shuffled  
False  
True

# Performance: cc\_cc\_g1\_mean



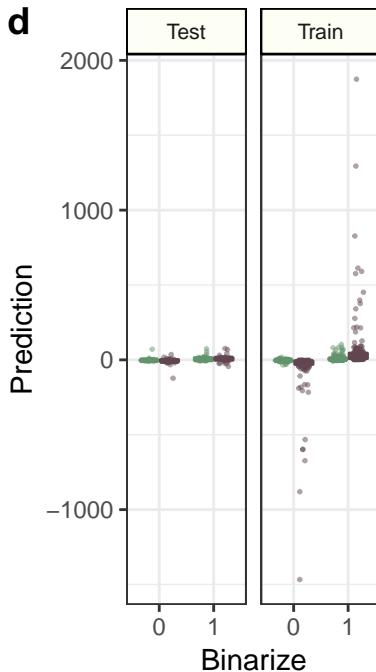
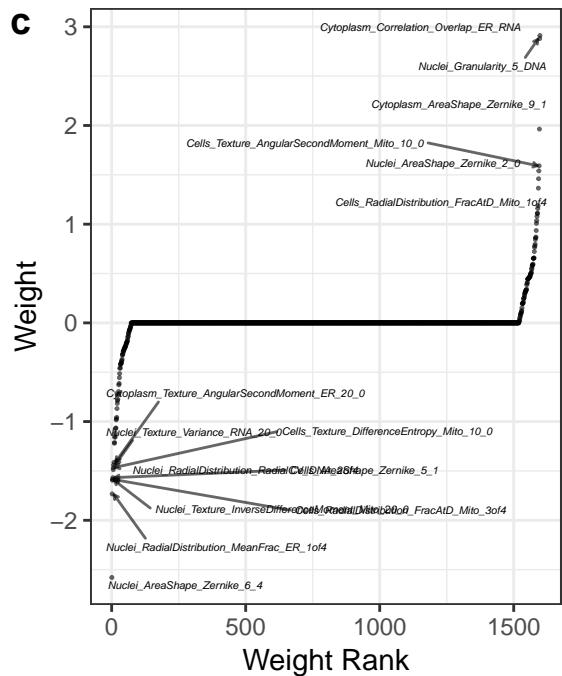
Test  
Train

Shuffled Data

Real

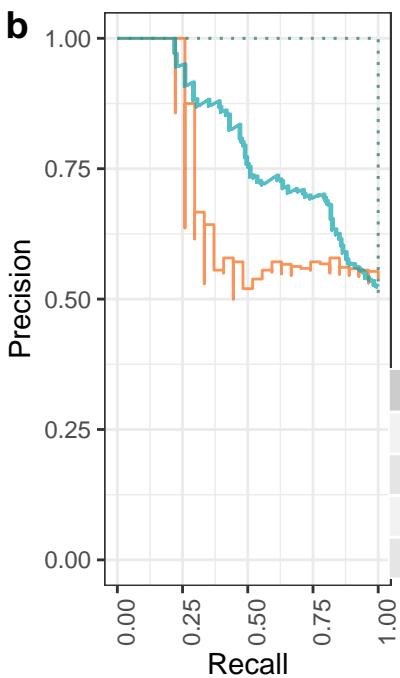
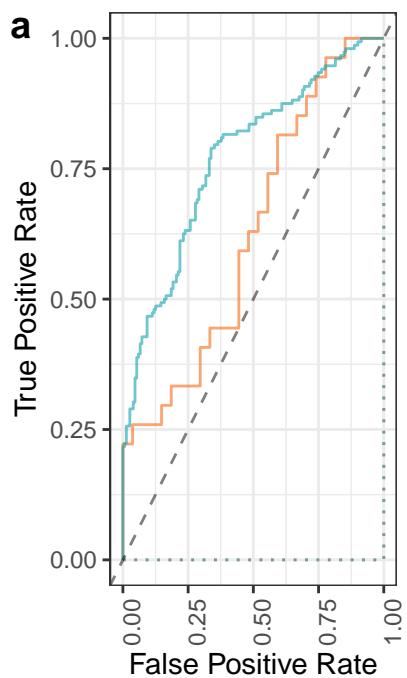
Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.89	0.90	True	False	151
Test	0.70	0.72	Test	False	151
Train	1.00	1.00	Train	True	151
Test	0.71	0.75	Test	True	151



Shuffled  
False  
True

# Performance: cc\_cc\_g2\_ph3\_neg\_mean



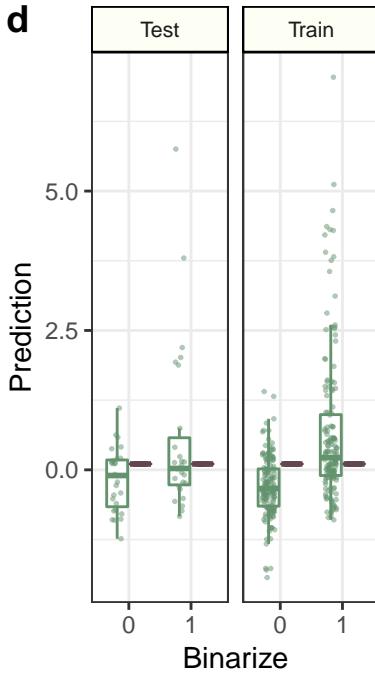
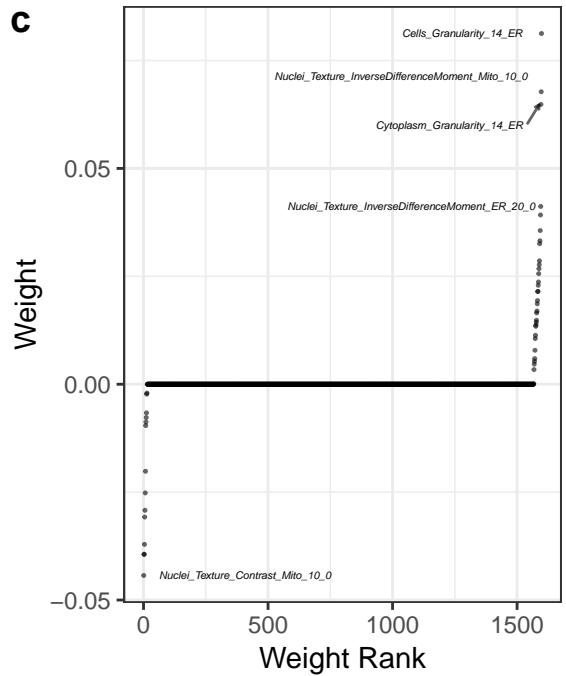
Test  
Train

Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Test	0.77	0.80	Train	False	151
Train	0.63	0.68	Test	False	151
Shuffled	0.50	0.50	Train	True	151
Real	0.50	0.50	Test	True	151

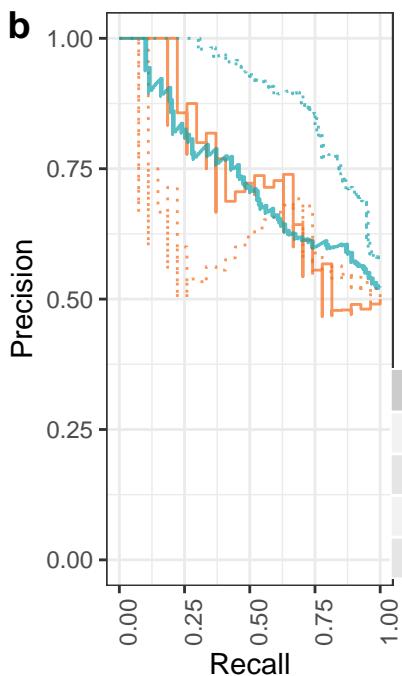
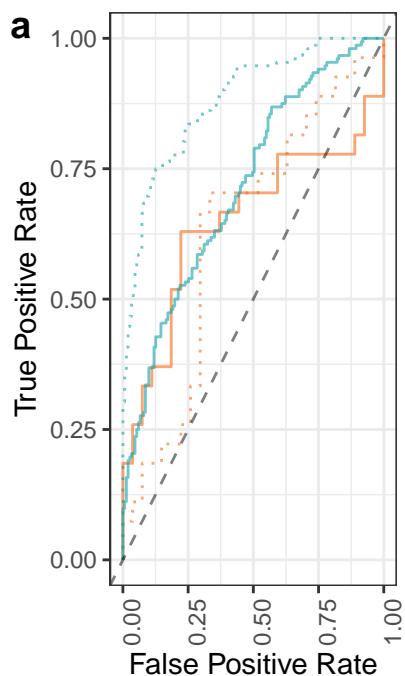


Shuffled

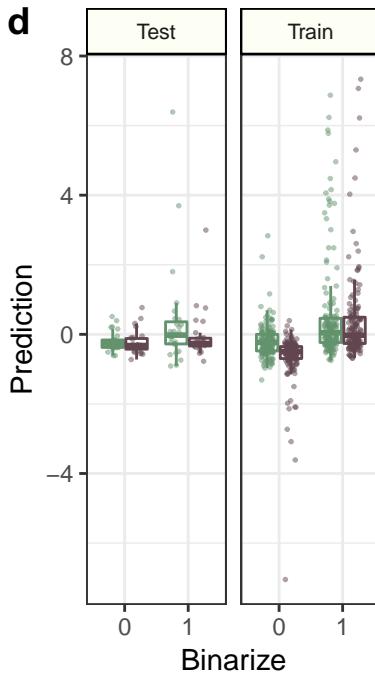
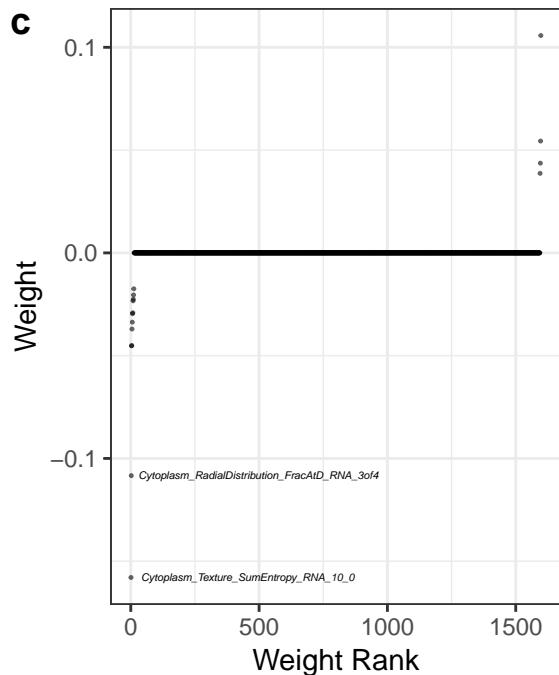
False

True

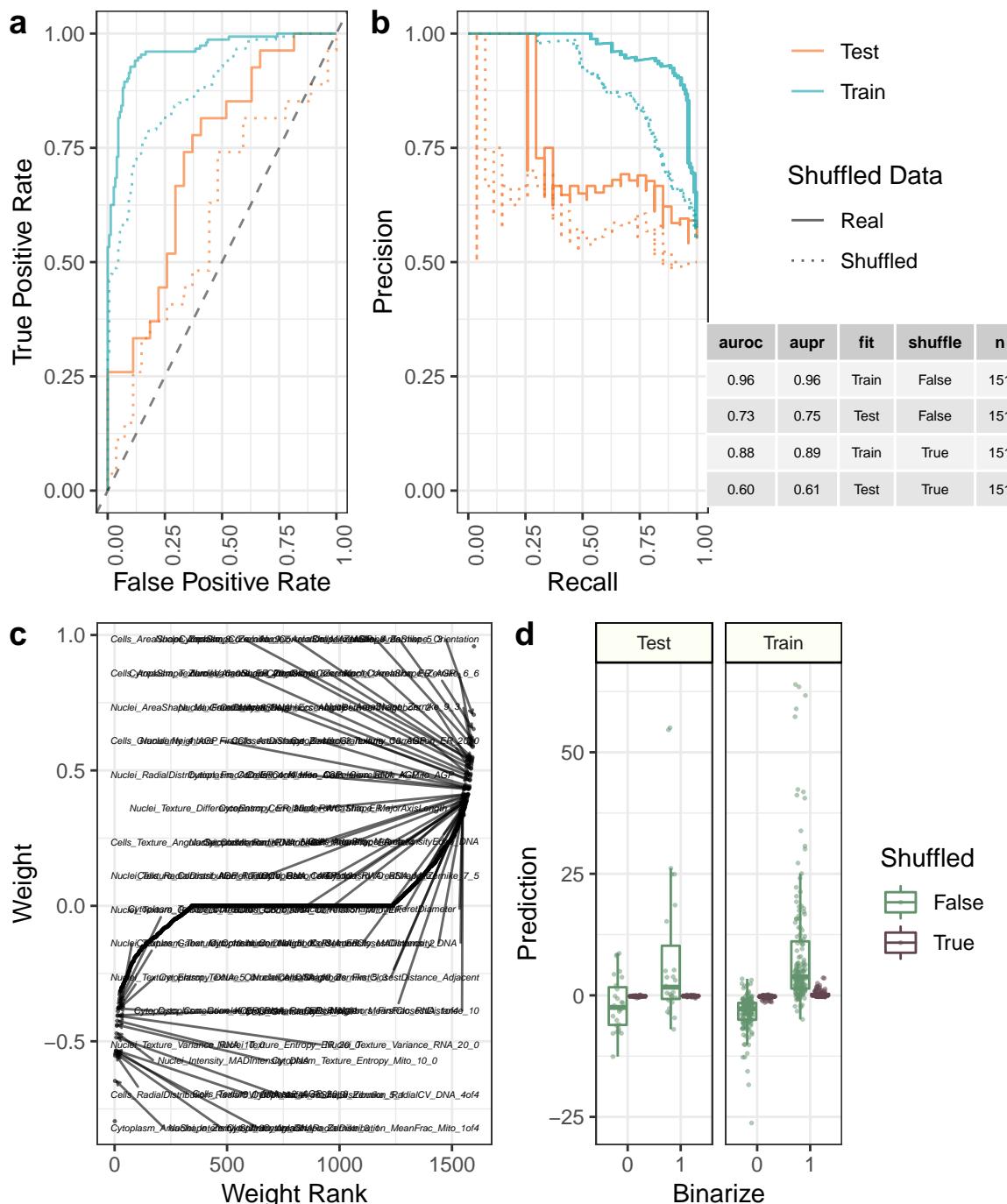
# Performance: cc\_cc\_g2\_ph3\_pos\_early\_mitosis\_mean



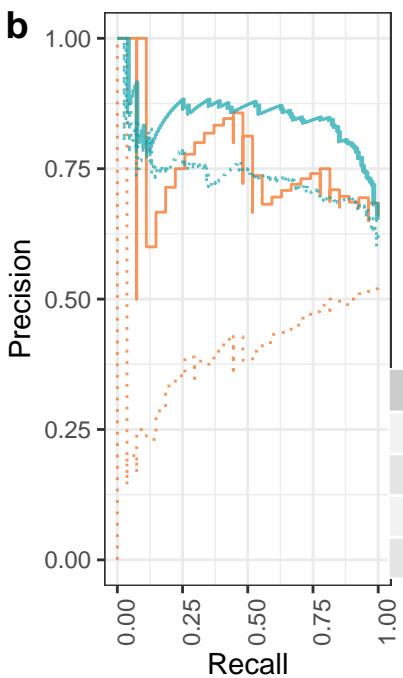
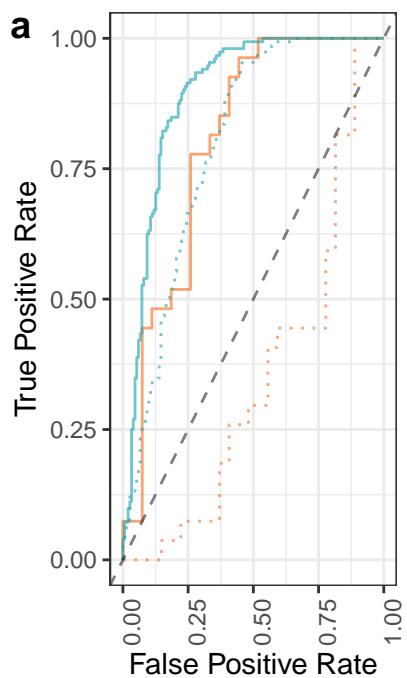
auroc	aupr	fit	shuffle	n
0.72	0.73	Train	False	151
0.65	0.72	Test	False	151
0.88	0.89	Train	True	151
0.63	0.63	Test	True	151



# Performance: cc\_cc\_high\_n\_spots\_h2ax\_mean



# Performance: cc\_cc\_n\_objects



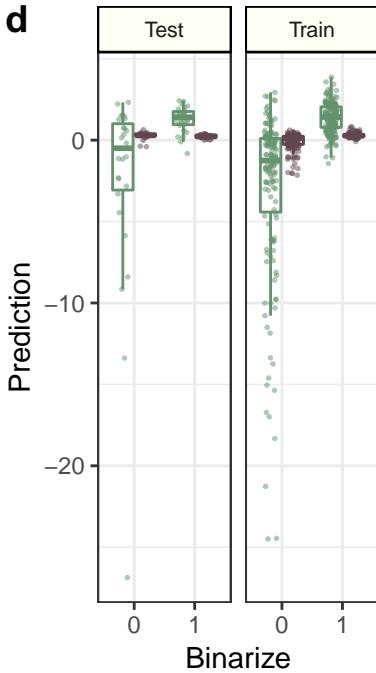
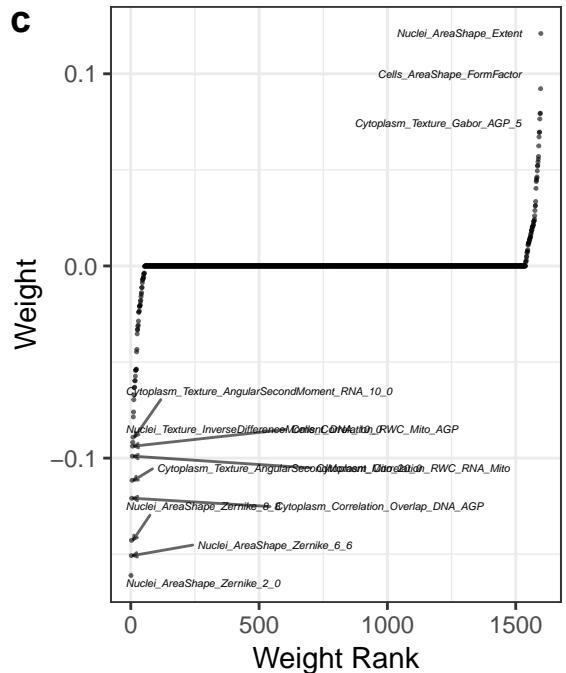
Test  
Train

Shuffled Data

Real

Shuffled

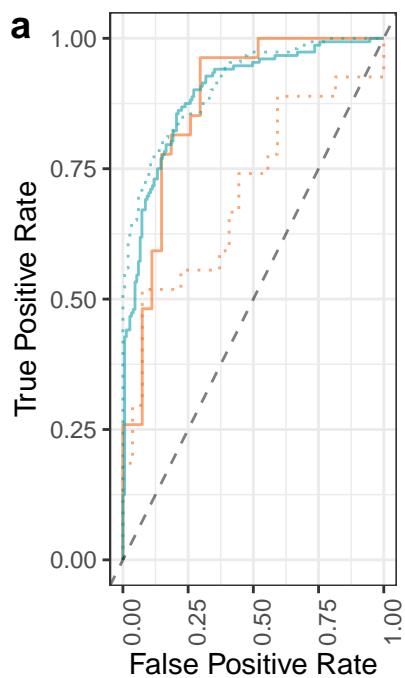
	auroc	aupr	fit	shuffle	n
Train	0.89	0.85	True	False	151
Test	0.80	0.75	Test	False	151
Train	0.79	0.74	Train	True	151
Test	0.35	0.41	Test	True	151



Shuffled

False  
True

## Performance: cc\_cc\_n\_spots\_mean

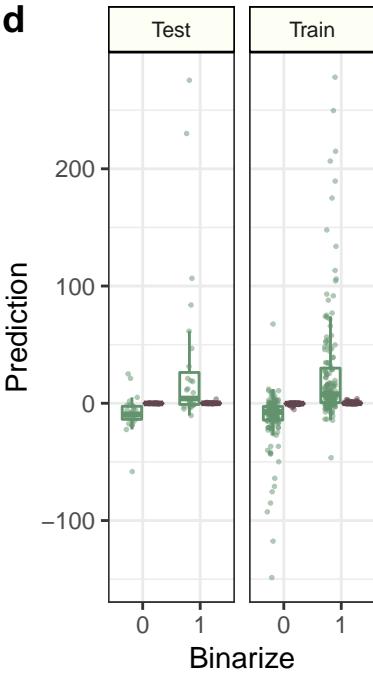
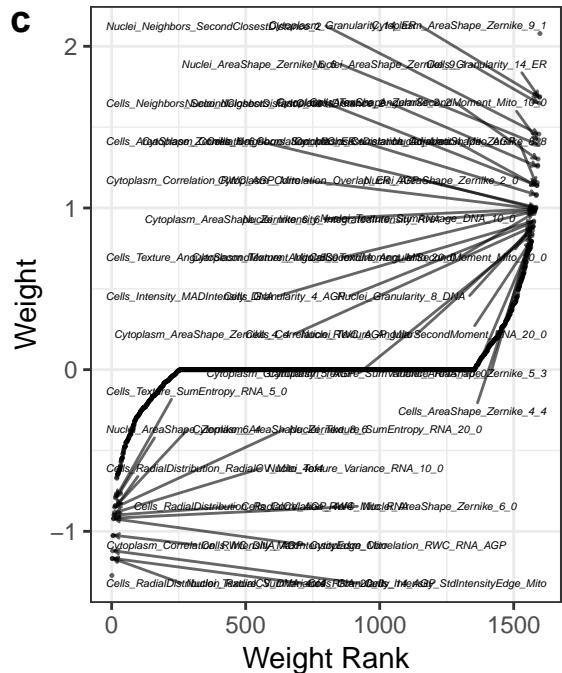


## Shuffled Data

— Real

..... Shuffled

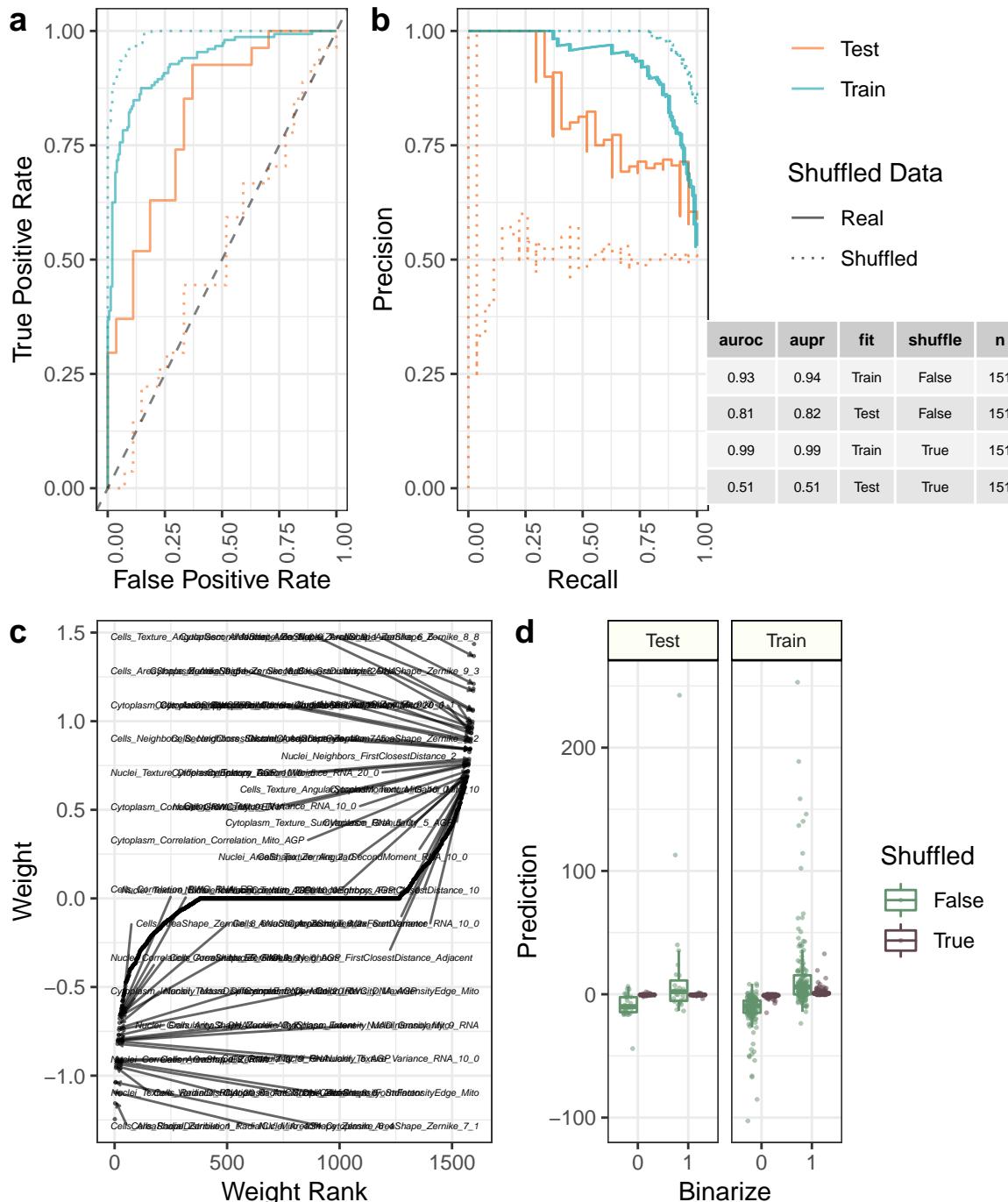
auroc	aupr	fit	shuffle	n
0.89	0.90	Train	False	15
0.88	0.86	Test	False	15
0.91	0.93	Train	True	15
0.70	0.76	Test	True	15



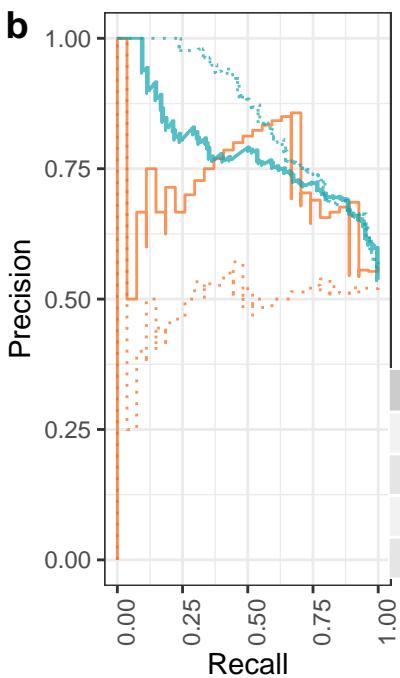
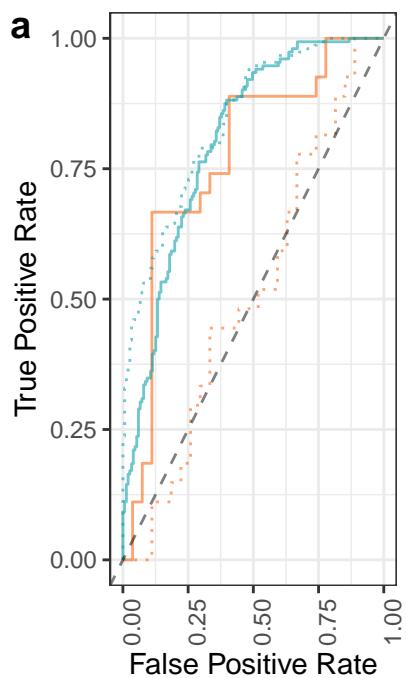
## Shuffled



## Performance: cc\_cc\_n\_spots\_per\_nucleus\_area\_mean



# Performance: cc\_cc\_ph3\_neg\_hoechst\_late\_mitosis\_mean



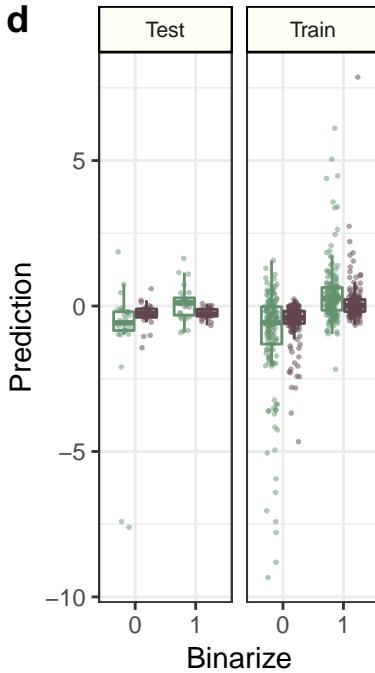
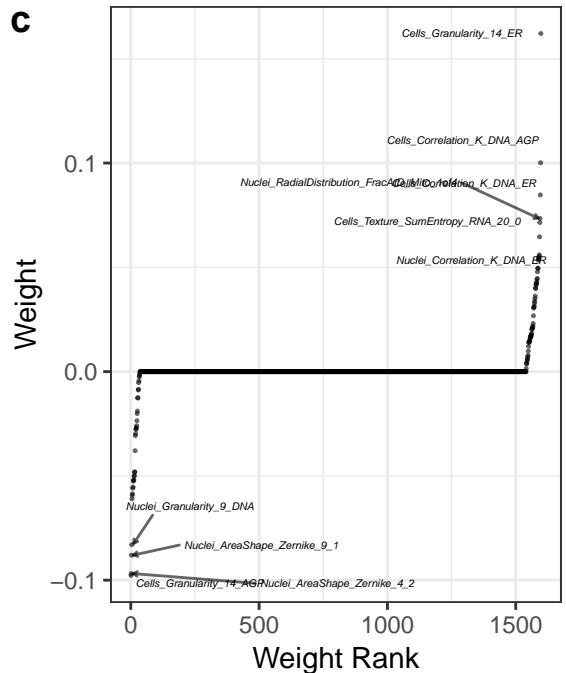
Test  
Train

Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.80	0.78	Train	False	151
Test	0.77	0.71	Test	False	151
Train	0.84	0.85	Train	True	151
Test	0.51	0.50	Test	True	151

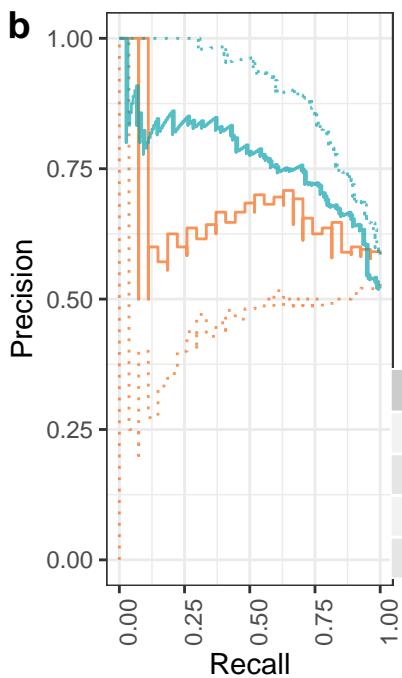
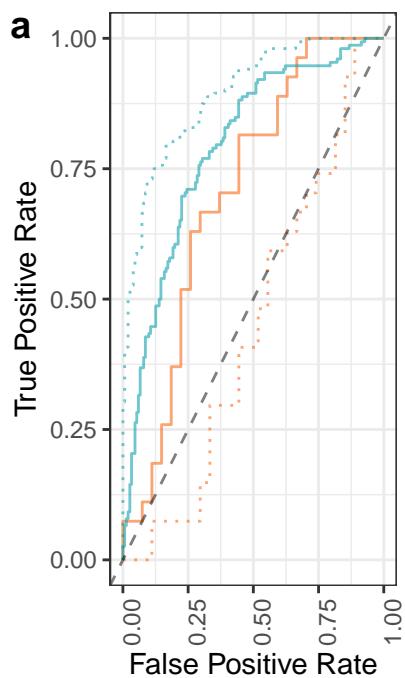


Shuffled

False

True

# Performance: cc\_cc\_ph3\_pos\_hoechst\_mitosis\_mean



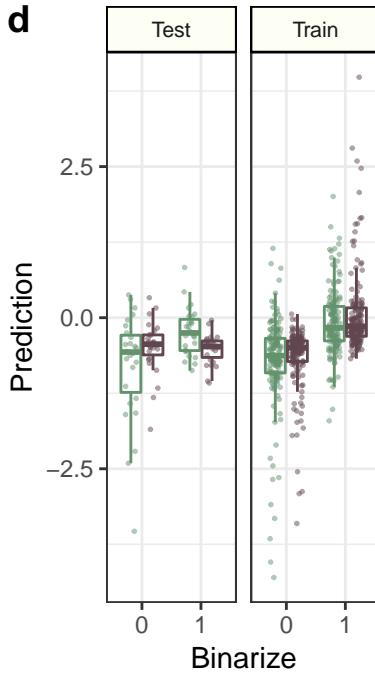
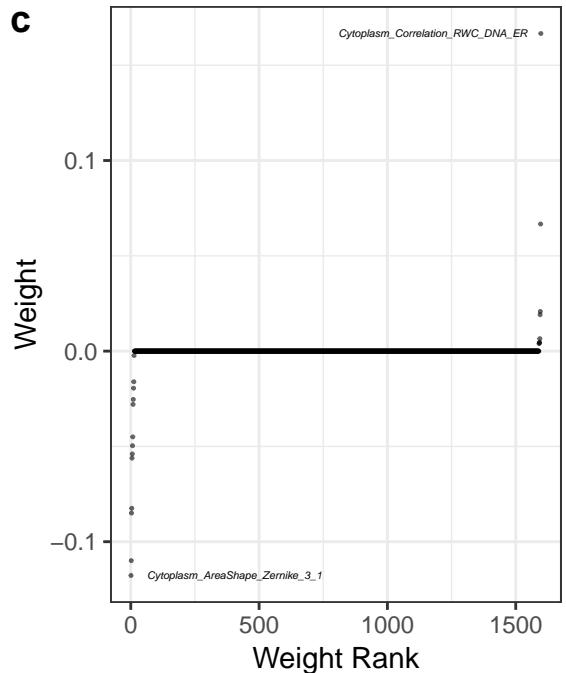
Test  
Train

Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Test	0.79	0.77	Train	False	151
Train	0.70	0.67	Test	False	151
Real	0.89	0.90	Train	True	151
Shuffled	0.45	0.46	Test	True	151

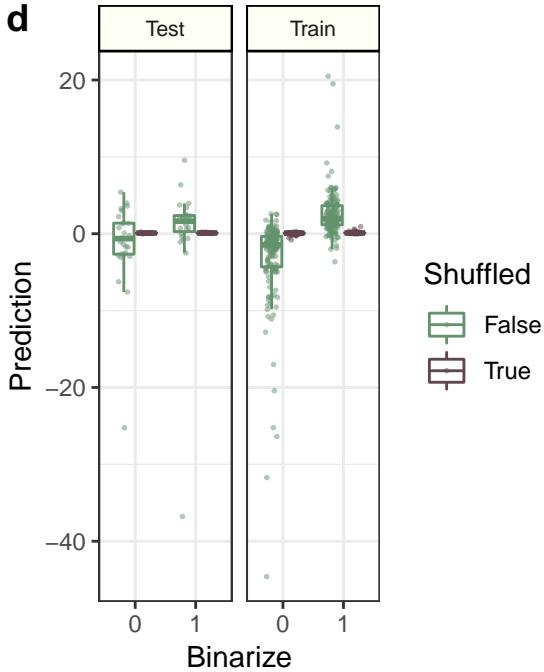
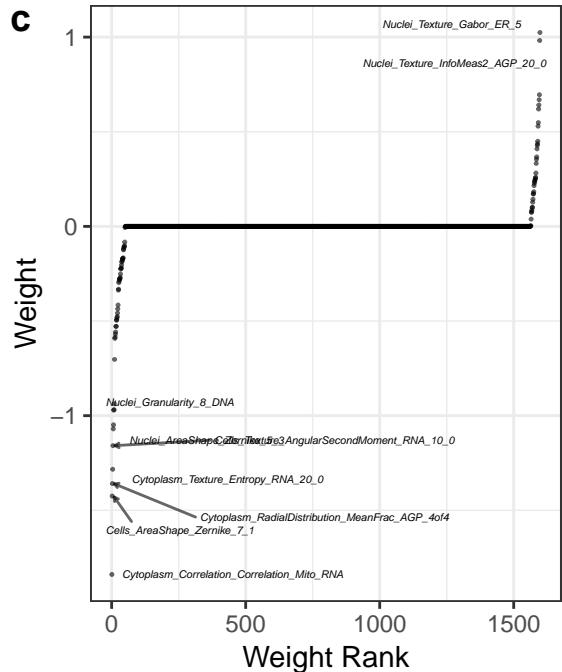
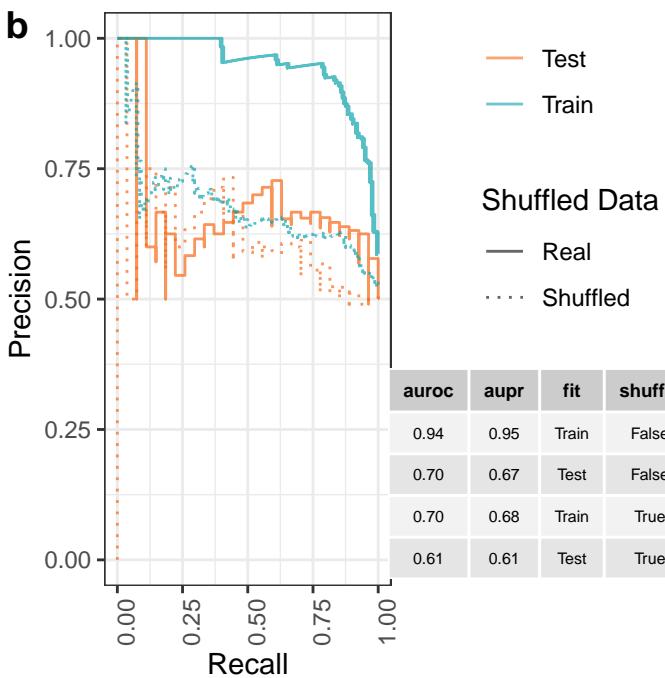
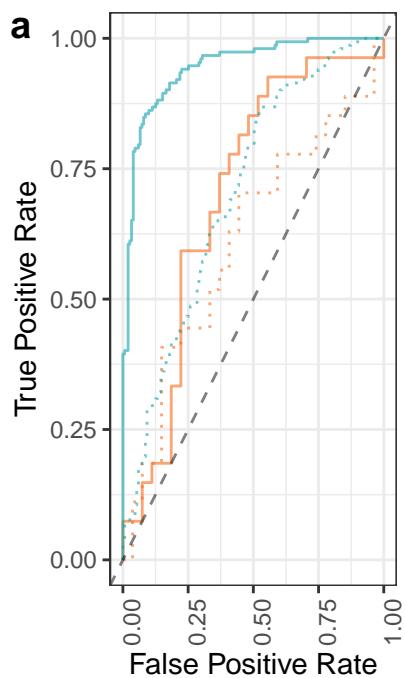


Shuffled

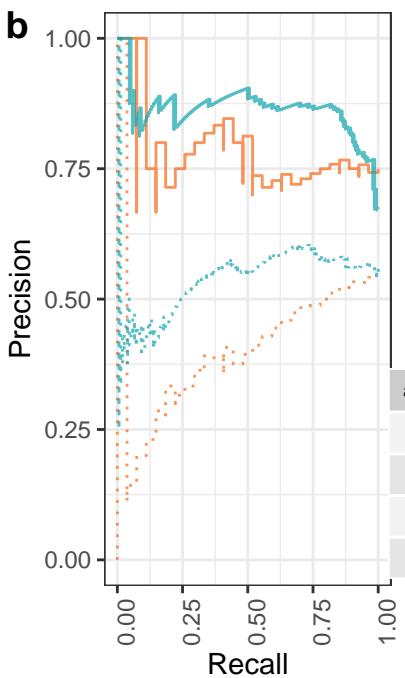
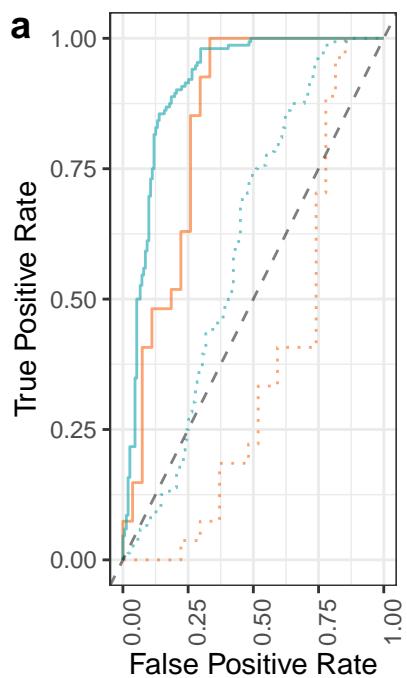
False

True

# Performance: cc\_edu\_pos\_alexa647\_intensity\_nucleus\_area\_mean



# Performance: cc\_edu\_pos\_alexa647\_intensity\_nucleus\_area\_su



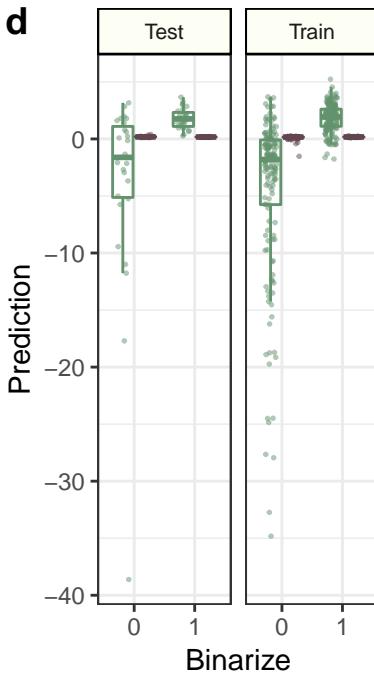
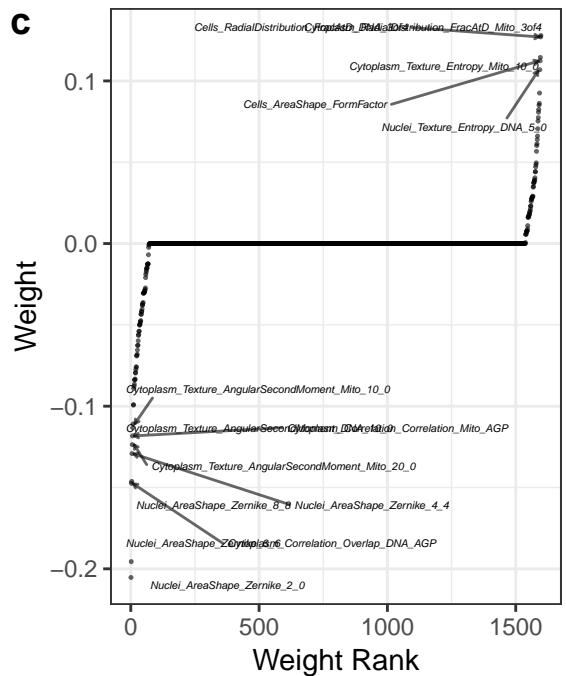
Test  
Train

Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Test	0.91	0.86	Train	False	151
Train	0.83	0.78	Test	False	151
Real	0.61	0.54	Train	True	151
Shuffled	0.36	0.41	Test	True	151

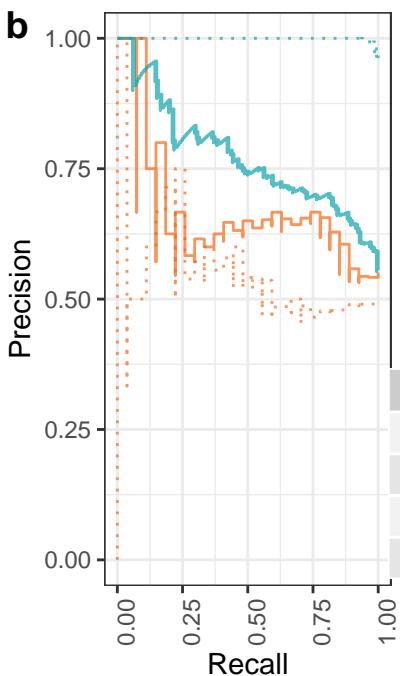
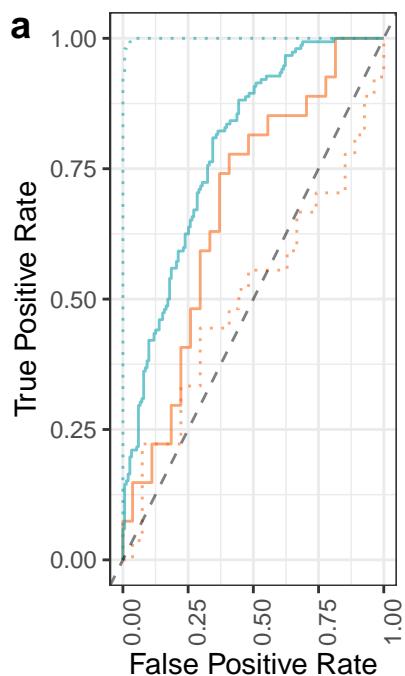


Shuffled

False

True

# Performance: cc\_edu\_pos\_high\_n\_spots\_h2ax\_mean



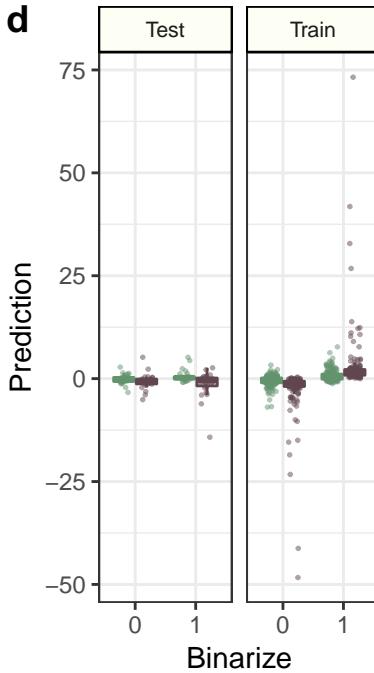
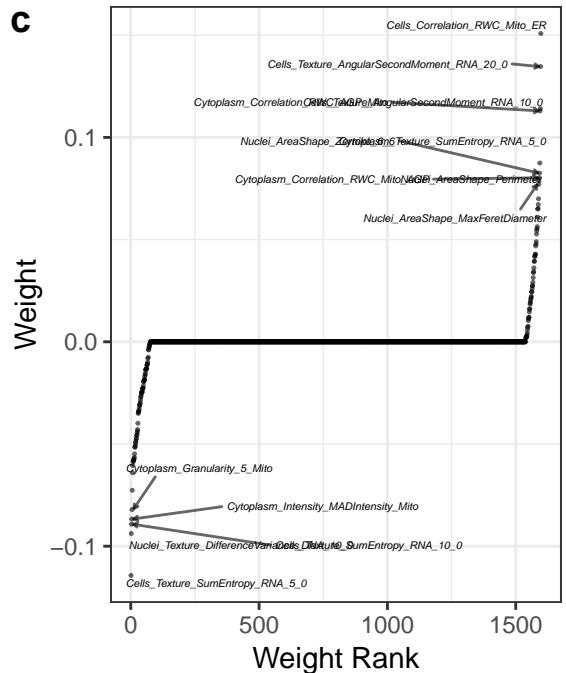
Test  
Train

Shuffled Data

Real

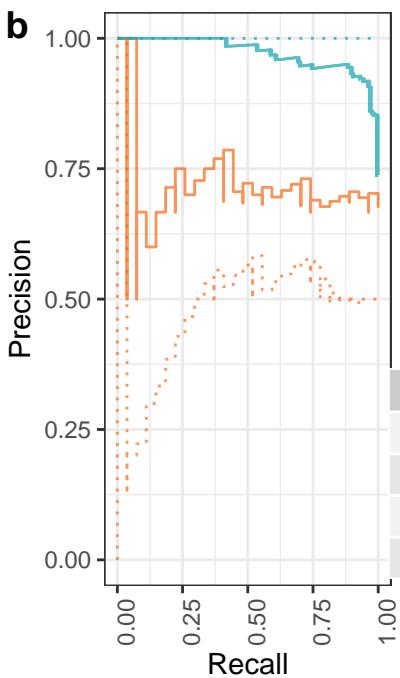
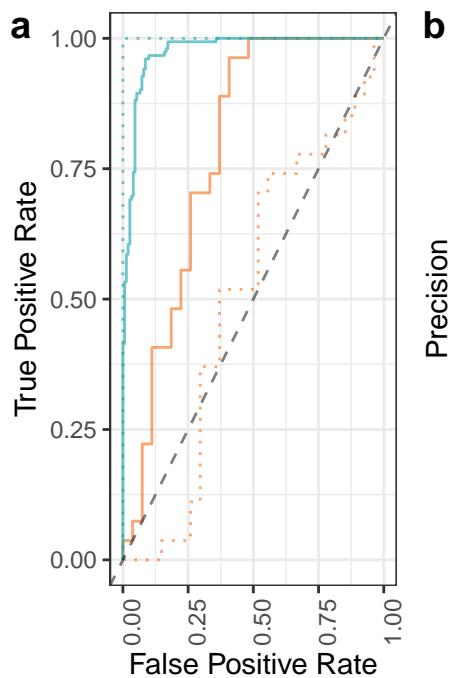
Shuffled

	auroc	aupr	fit	shuffle	n
Test	0.79	0.77	Train	False	151
Train	0.68	0.66	Test	False	151
True	1.00	1.00	Train	True	151
False	0.50	0.54	Test	True	151



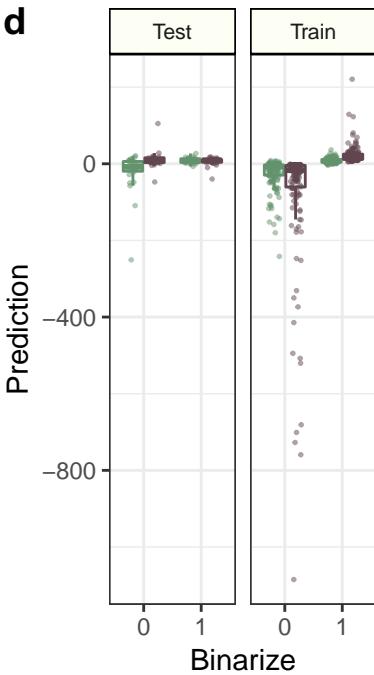
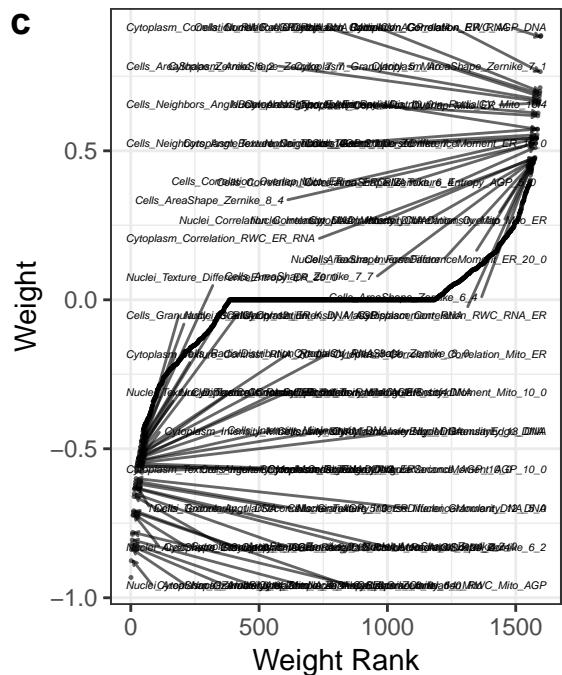
Shuffled  
False  
True

## Performance: cc\_edu\_pos\_n\_objects

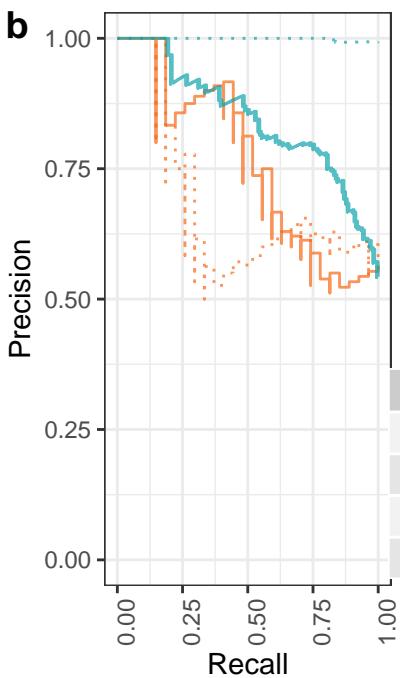
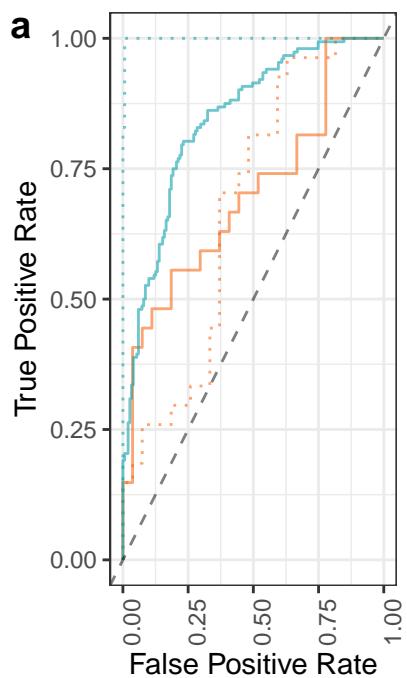


The chart displays the following data:

Metric	Test (Orange)	Train (Teal)	Real (Solid Black)	Shuffled (Dotted Black)
auroc	0.97	0.97	0.97	0.97
aupr	0.72	0.72	0.72	0.72
fit	Train	Train	Real	Shuffled
shuffle	False	False	True	True
n	151	151	151	151



# Performance: cc\_edu\_pos\_n\_spots\_mean



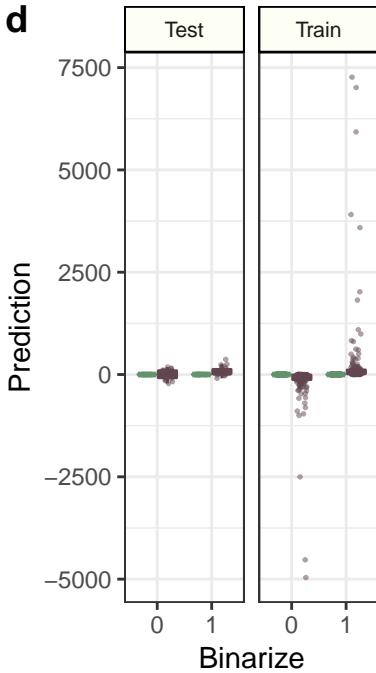
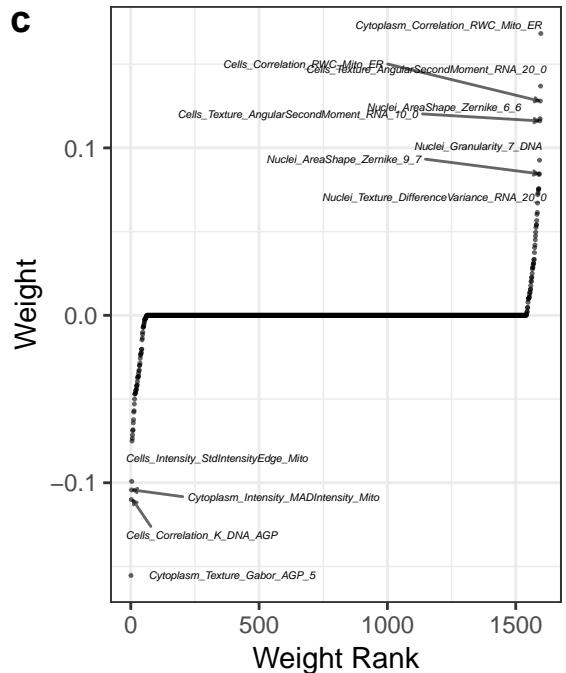
Test  
Train

Shuffled Data

Real

Shuffled

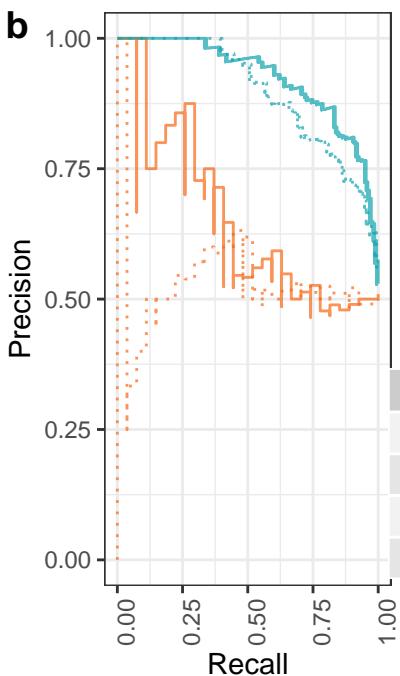
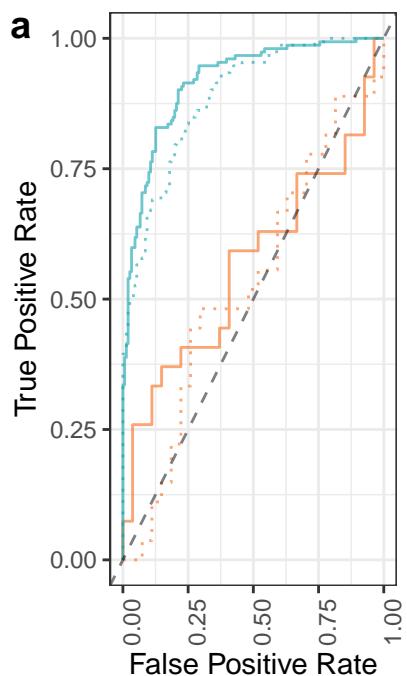
	auroc	aupr	fit	shuffle	n
Train	0.84	0.84	True	False	151
Test	0.70	0.75	Test	False	151
Train	1.00	1.00	Train	True	151
Test	0.67	0.68	Test	True	151



Shuffled

- False
- True

# Performance: cc\_edu\_pos\_n\_spots\_per\_nucleus\_area\_mean



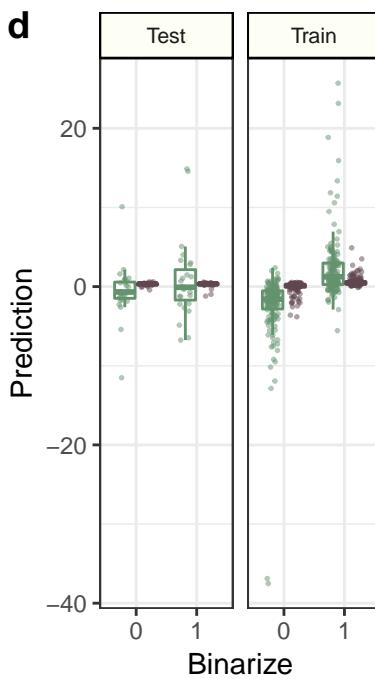
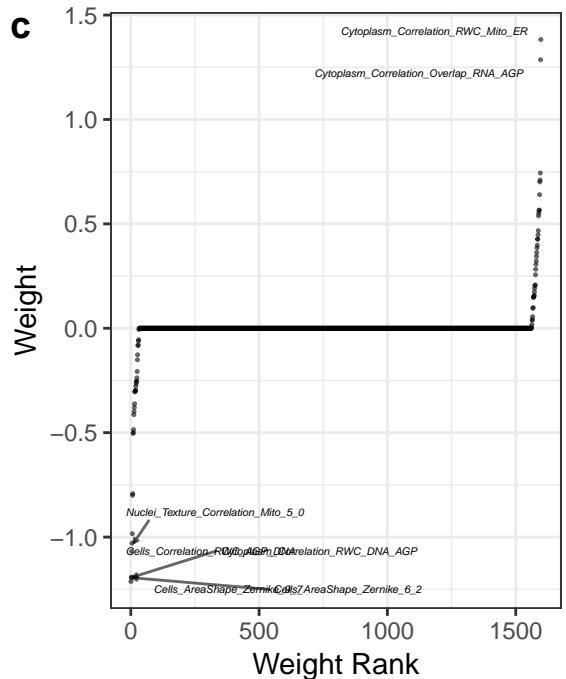
Test  
Train

Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.92	0.92	True	False	151
Test	0.57	0.64	Test	False	151
Train	0.89	0.90	Train	True	151
Test	0.53	0.52	Test	True	151

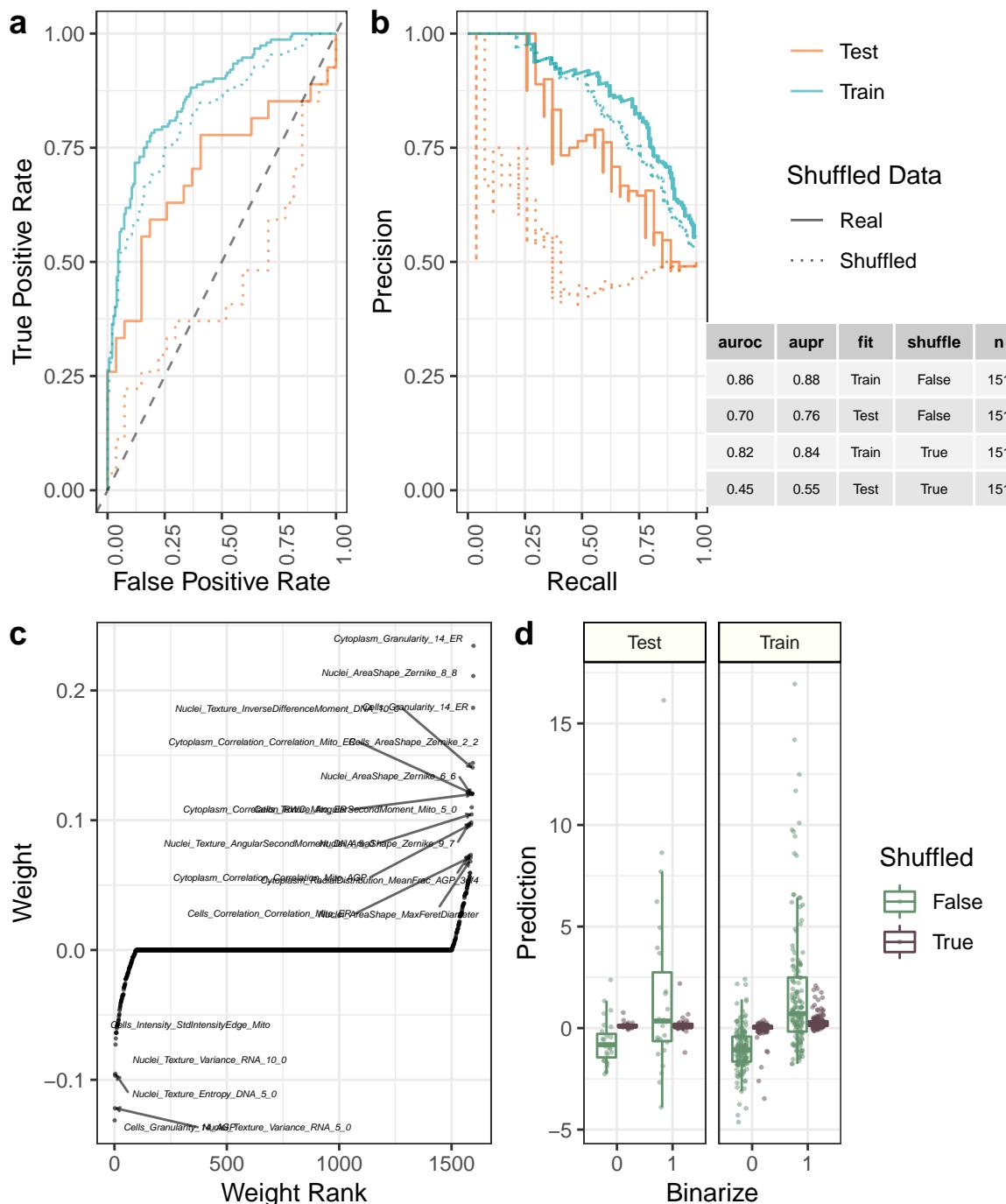


Shuffled

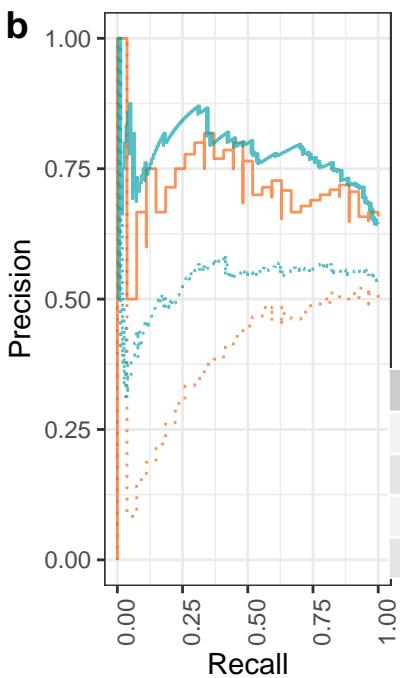
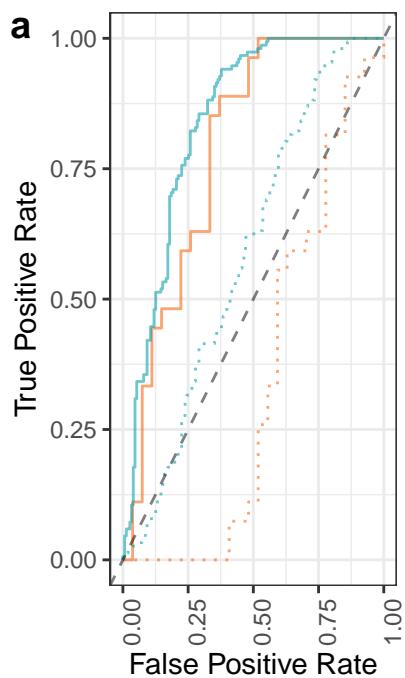
False

True

# Performance: cc\_g1\_high\_n\_spots\_h2ax\_mean



# Performance: cc\_g1\_n\_objects



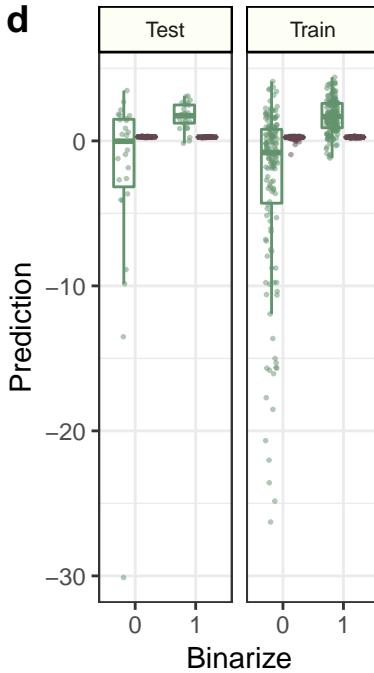
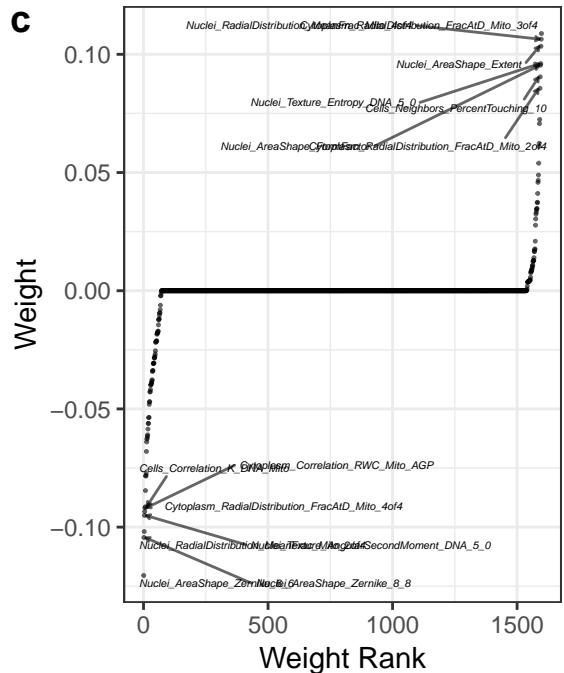
Test  
Train

Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.84	0.78	True	False	151
Test	0.78	0.71	Test	False	151
Train	0.59	0.54	Train	True	151
Test	0.34	0.40	Test	True	151

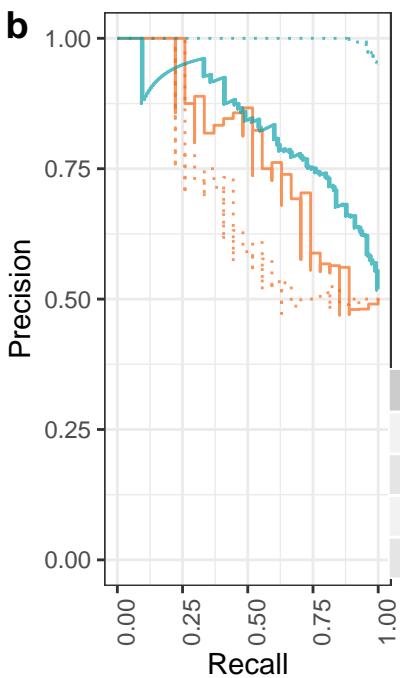
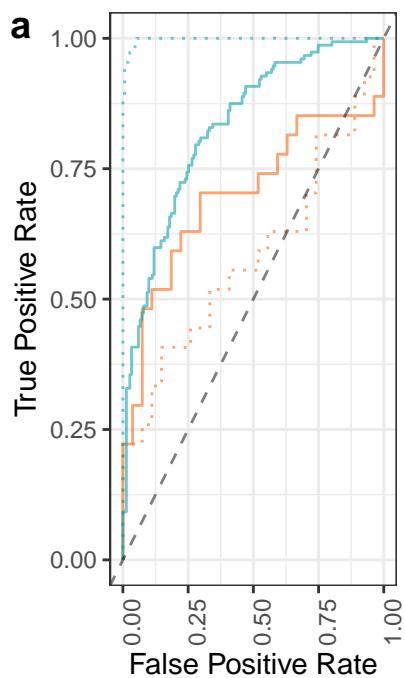


Shuffled

False

True

# Performance: cc\_g1\_n\_spots\_mean



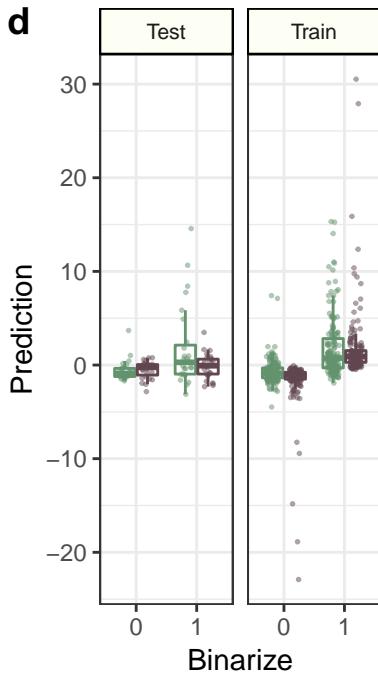
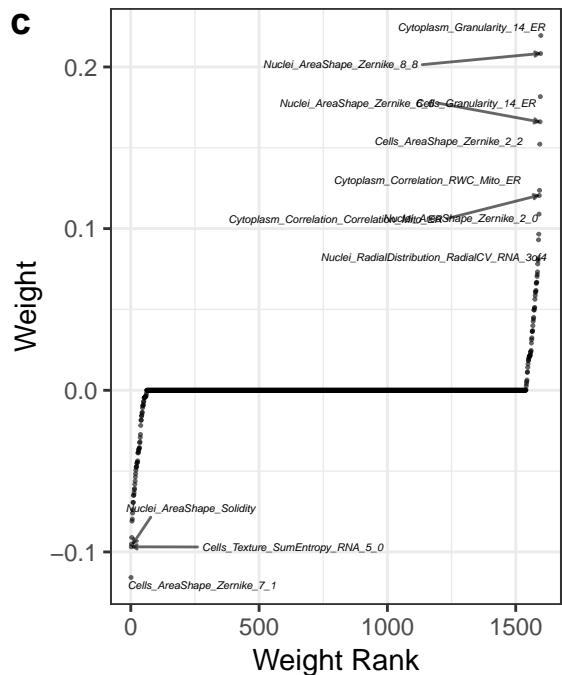
Test  
Train

Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.83	0.83	True	False	151
Test	0.70	0.77	Test	False	151
Train	1.00	1.00	Train	True	151
Test	0.58	0.67	Test	True	151

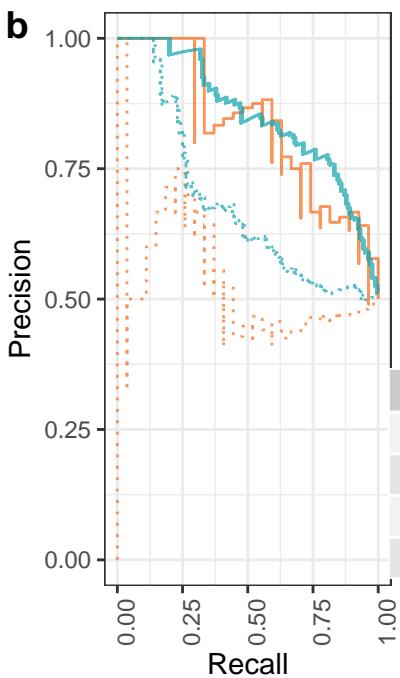
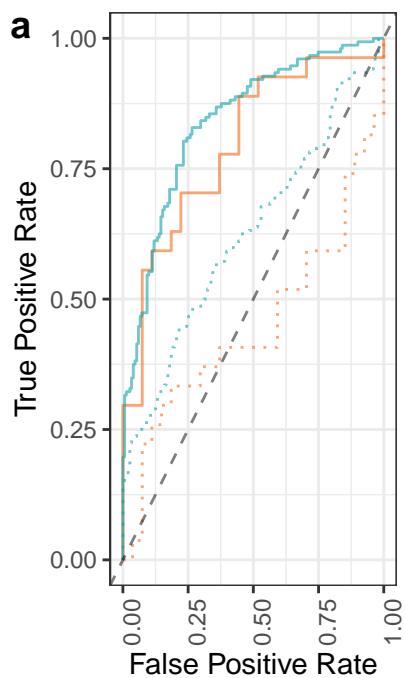


Shuffled

False

True

# Performance: cc\_g1\_n\_spots\_per\_nucleus\_area\_mean



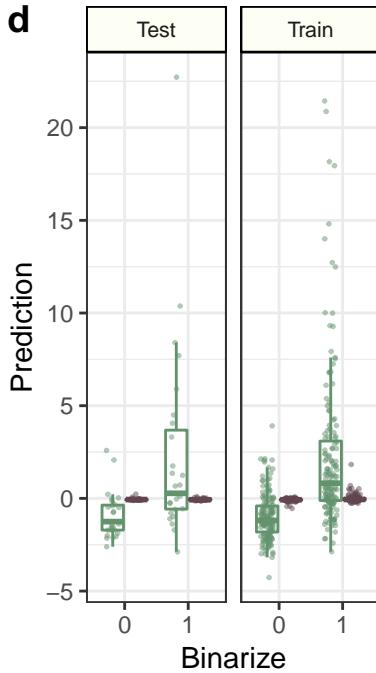
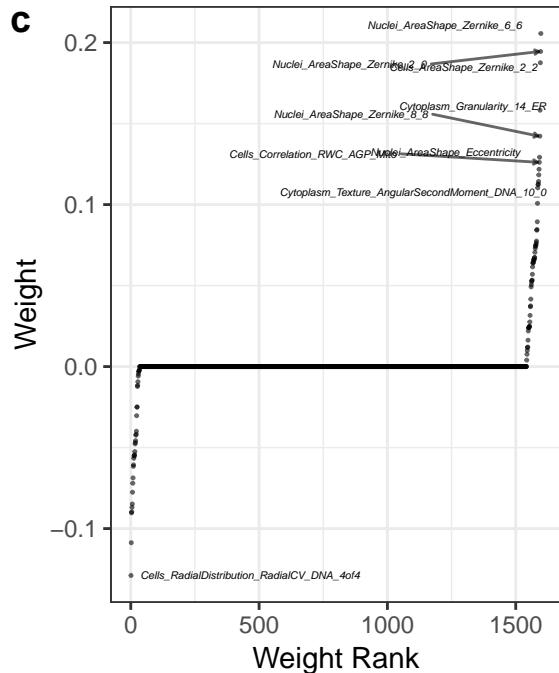
Test  
Train

Shuffled Data

Real

Shuffled

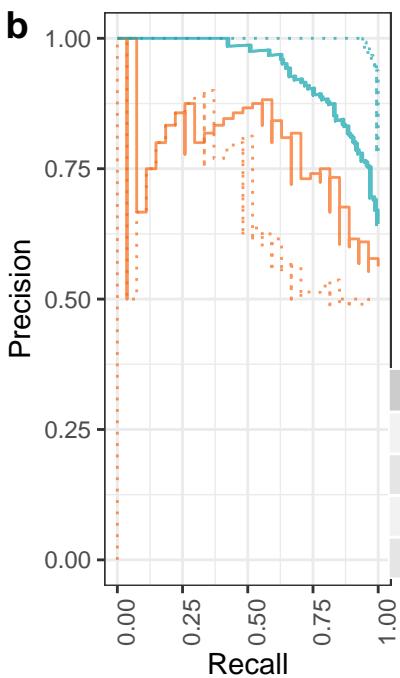
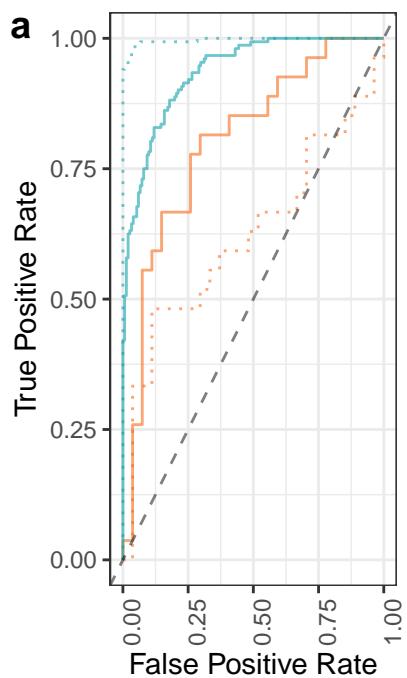
	auroc	aupr	fit	shuffle	n
Train	0.84	0.85	True	False	151
Test	0.79	0.82	Test	False	151
Train	0.62	0.68	Train	True	151
Test	0.45	0.53	Test	True	151



Shuffled

False  
True

# Performance: cc\_g1\_plus\_g2



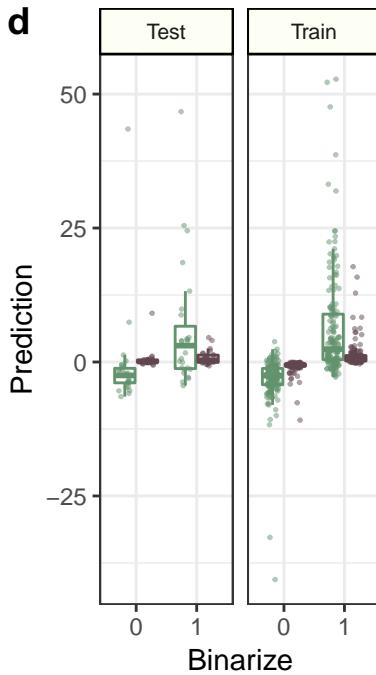
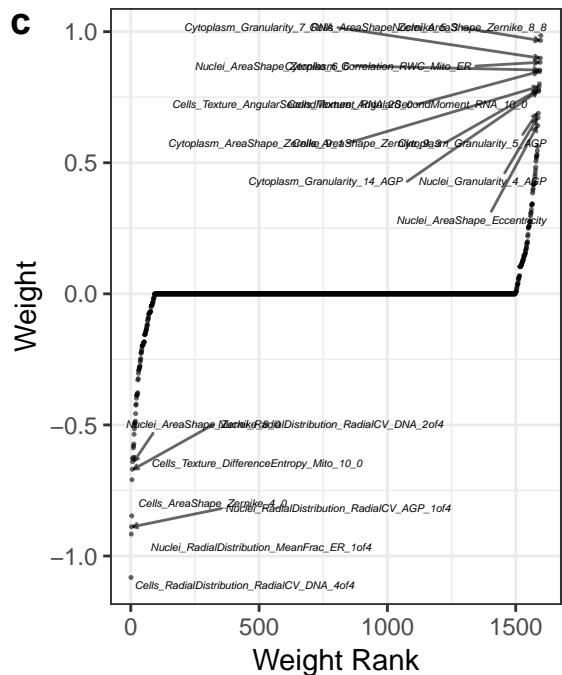
Test  
Train

Shuffled Data

Real

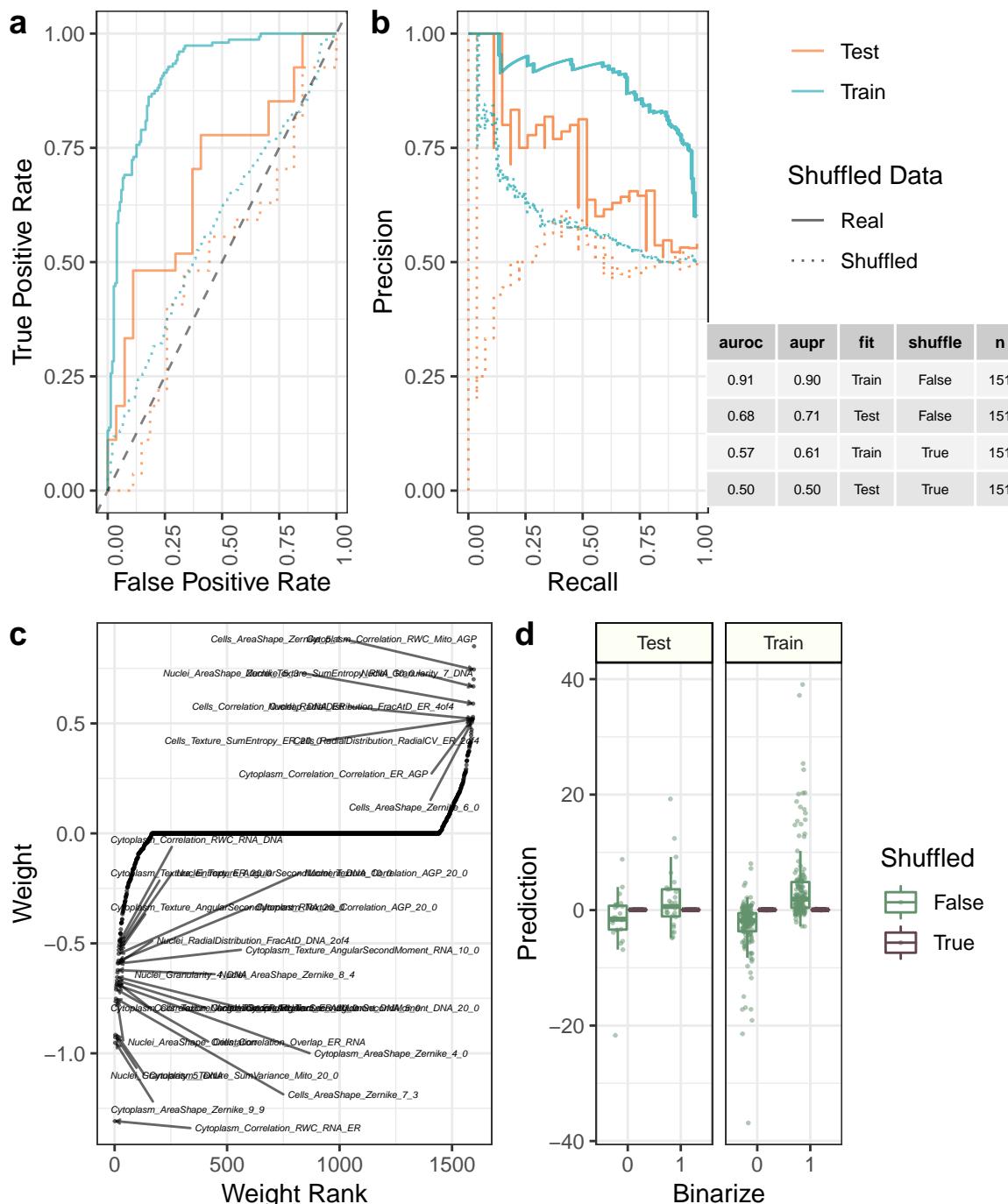
Shuffled

auroc	aupr	fit	shuffle	n
0.94	0.94	Train	False	151
0.80	0.78	Test	False	151
1.00	1.00	Train	True	151
0.62	0.66	Test	True	151

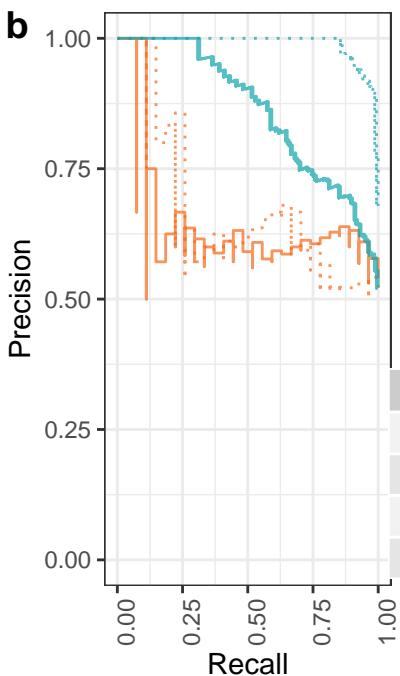
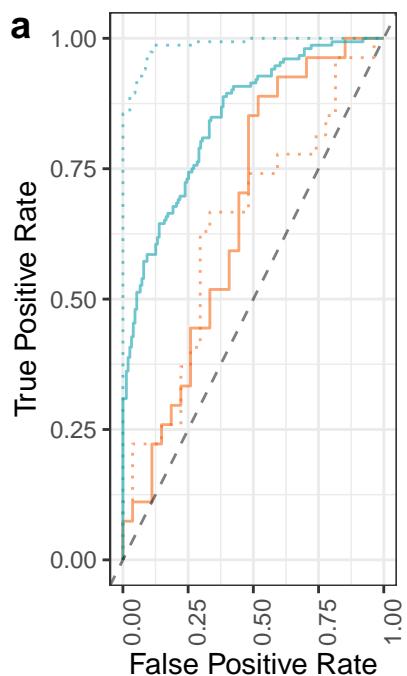


Shuffled  
False  
True

# Performance: cc\_g2\_g1



# Performance: cc\_g2\_ph3\_neg\_high\_n\_spots\_h2ax\_mean

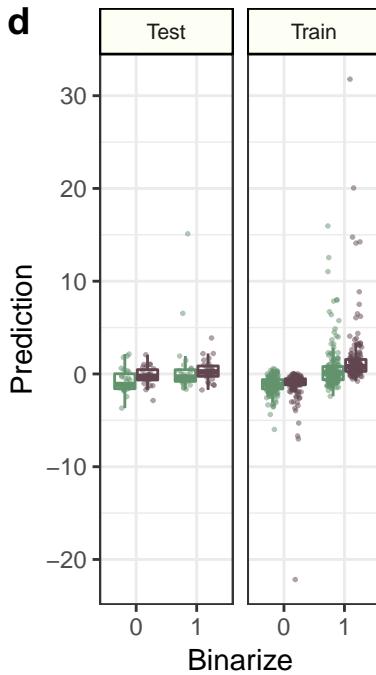
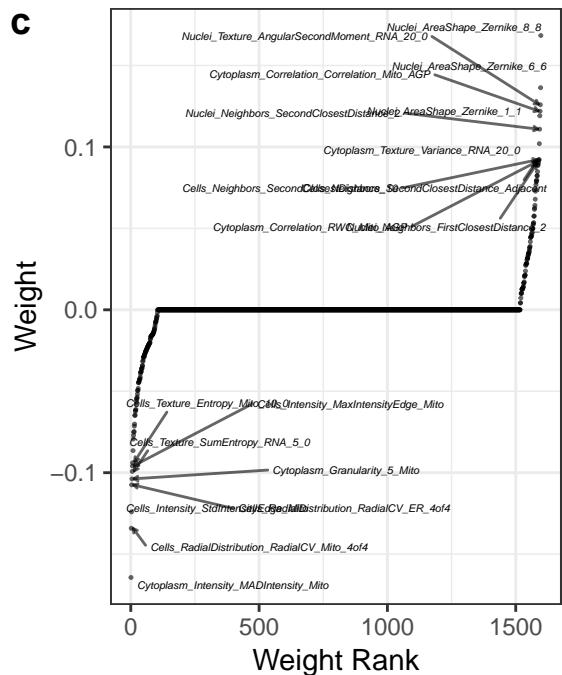


Shuffled Data

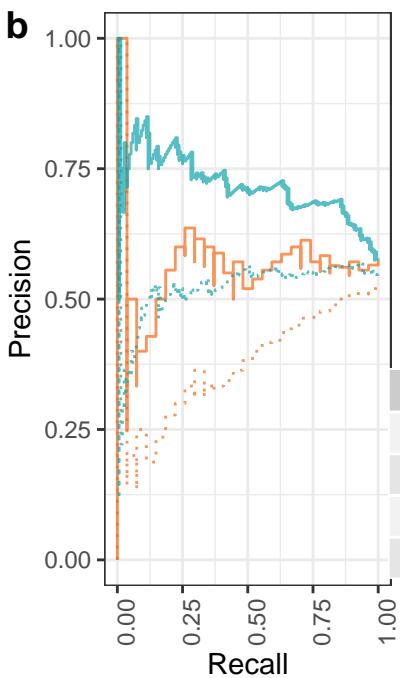
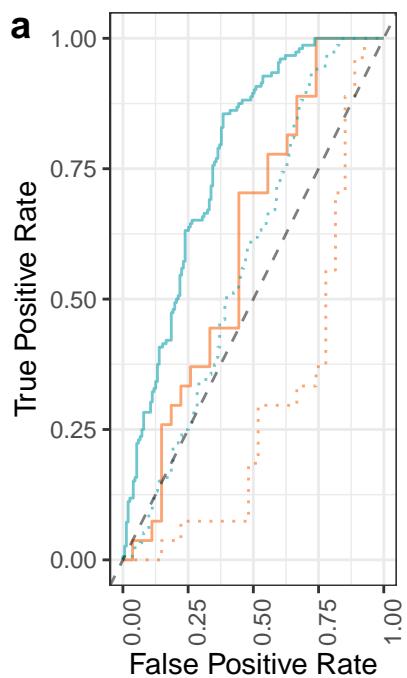
Real

Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.84	0.86	True	False	151
Test	0.66	0.64	Test	False	151
Train	0.99	0.99	Train	True	151
Test	0.64	0.67	Test	True	151



# Performance: cc\_g2\_ph3\_neg\_n\_objects

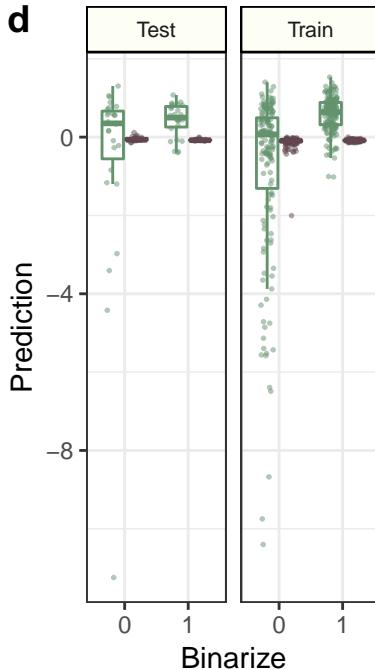
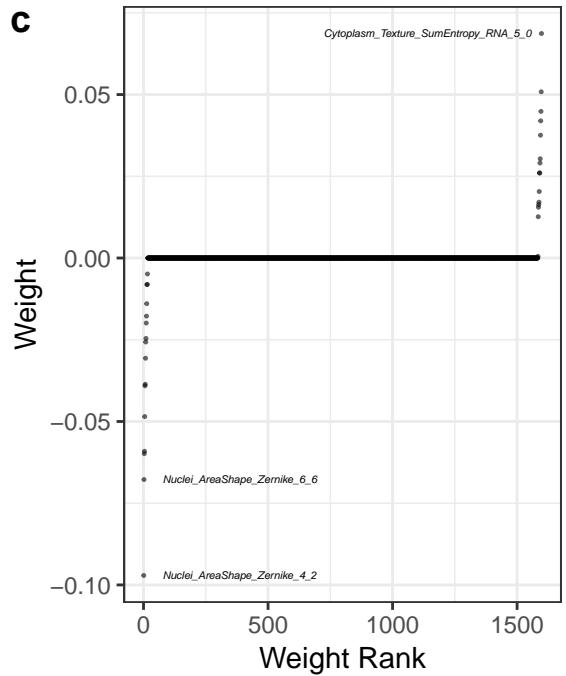


Test  
Train

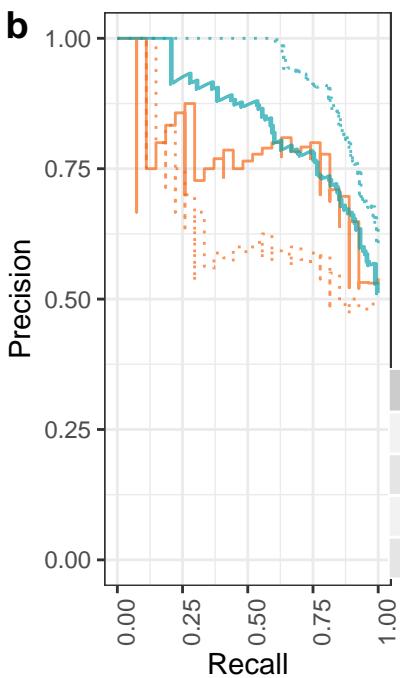
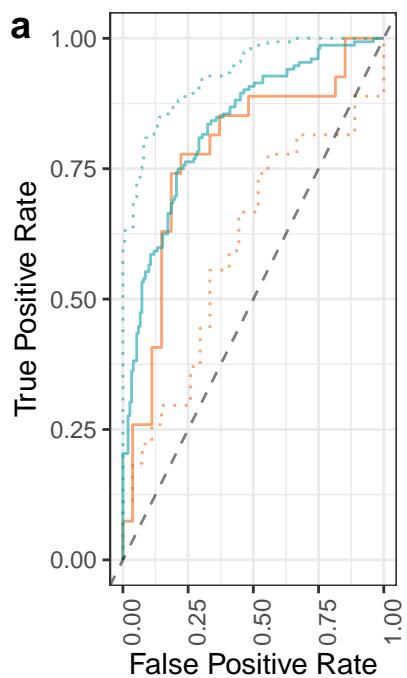
Shuffled Data

Real  
Shuffled

	auroc	aupr	fit	shuffle	n
Test	0.77	0.72	Train	False	151
Train	0.61	0.56	Test	False	151
Real	0.58	0.53	Train	True	151
Shuffled	0.30	0.39	Test	True	151



# Performance: cc\_g2\_ph3\_neg\_n\_spots\_mean



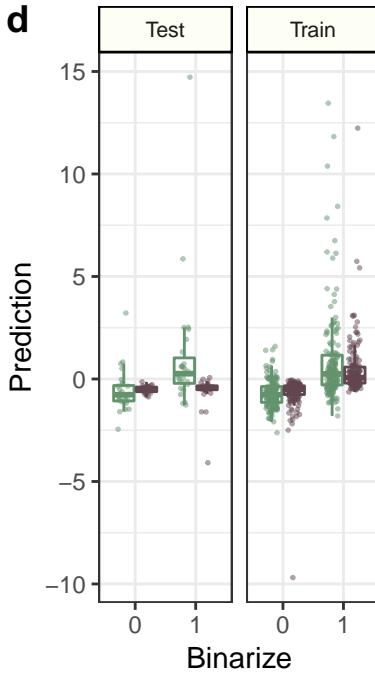
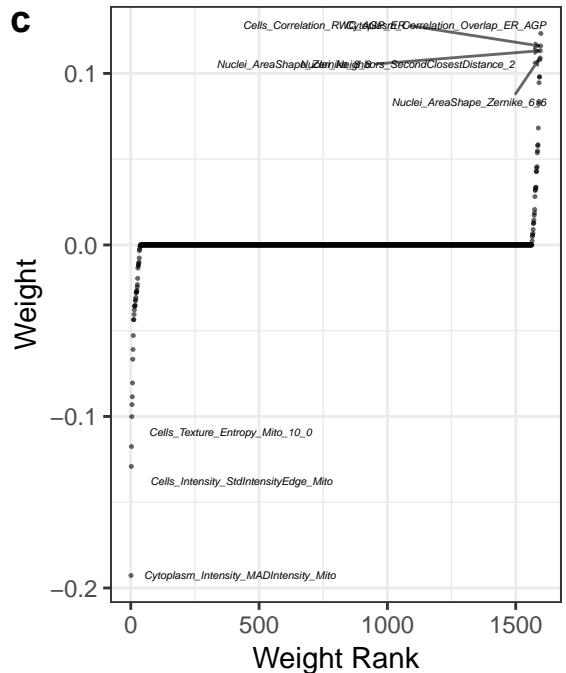
Test  
Train

Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.83	0.84	True	False	151
Test	0.78	0.76	Test	False	151
Train	0.93	0.94	Train	True	151
Test	0.60	0.65	Test	True	151

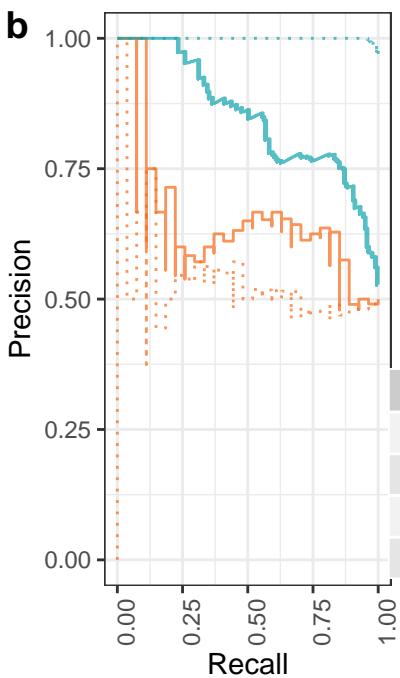
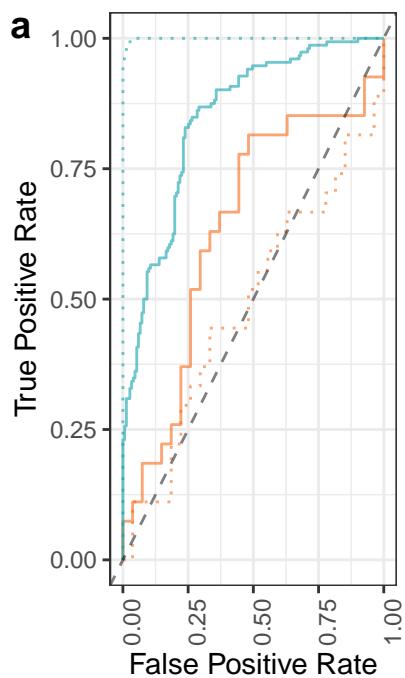


Shuffled

False

True

# Performance: cc\_g2\_ph3\_neg\_n\_spots\_per\_nucleus\_area\_mean

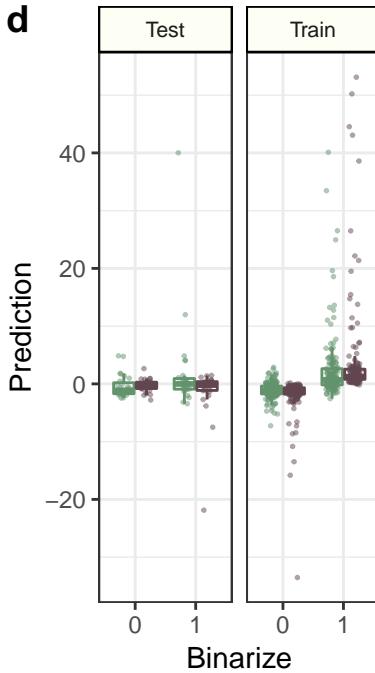
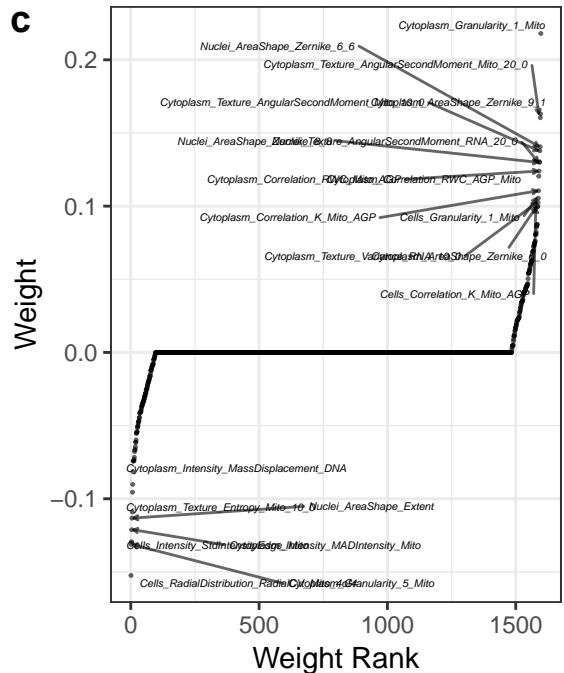


Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.85	0.85	True	False	151
Test	0.64	0.64	Test	False	151
Train	1.00	1.00	Train	True	151
Test	0.49	0.53	Test	True	151

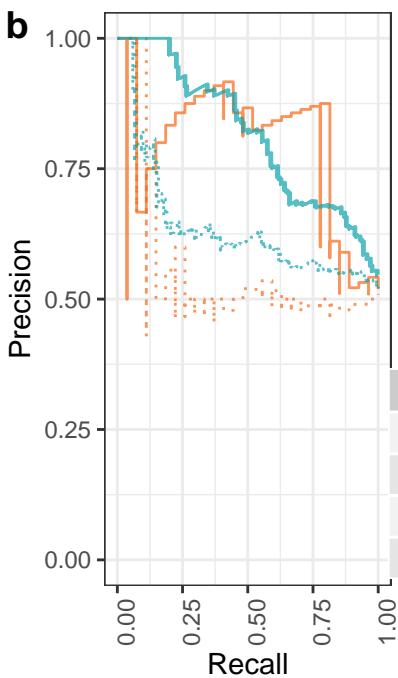
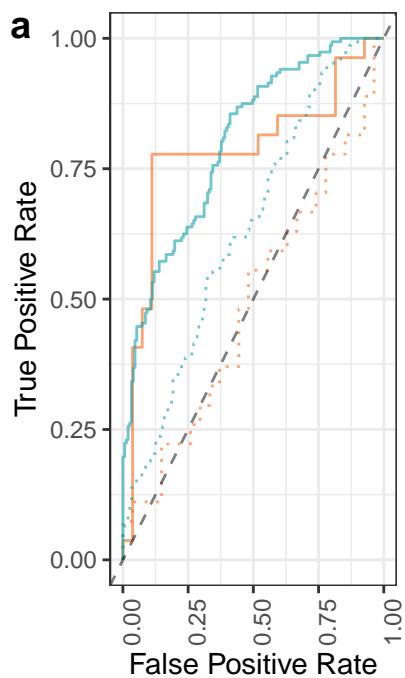


Shuffled

False

True

# Performance: cc\_g2\_ph3\_pos\_high\_n\_spots\_h2ax\_mean



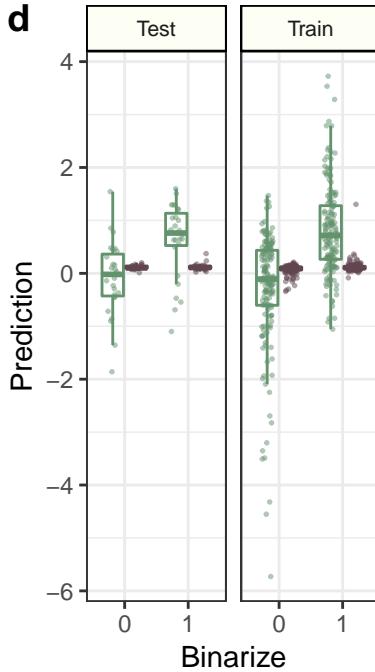
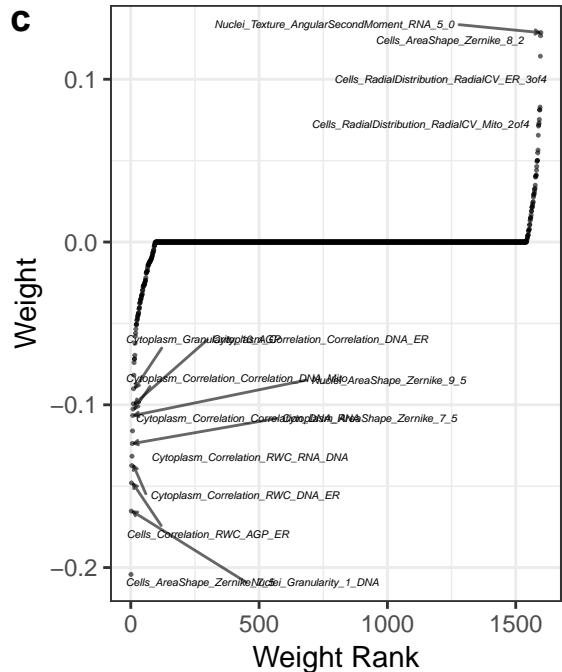
Test  
Train

Shuffled Data

Real

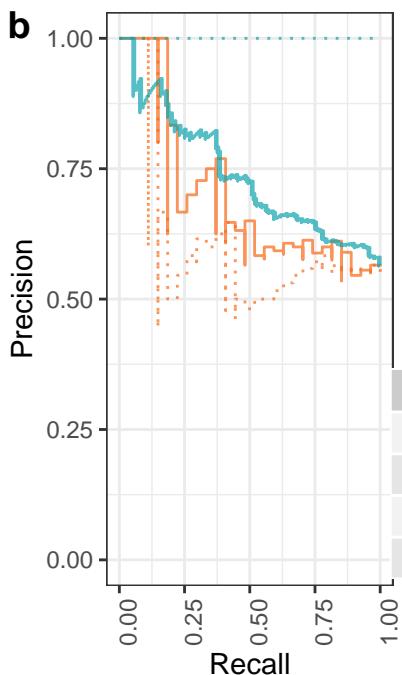
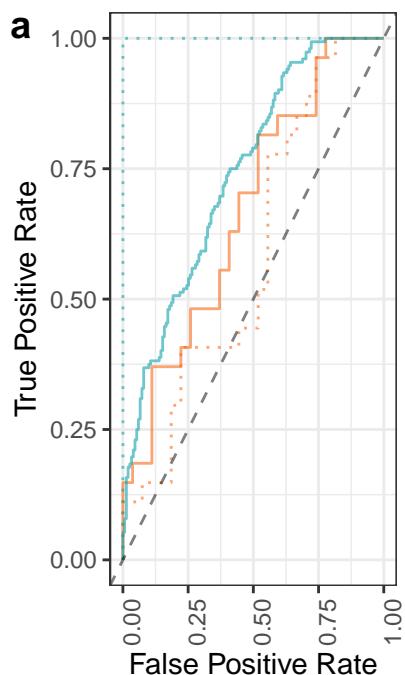
Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.80	0.81	True	False	151
Test	0.78	0.79	Test	False	151
Train	0.63	0.64	Train	True	151
Test	0.49	0.55	Test	True	151



Shuffled  
False  
True

# Performance: cc\_g2\_ph3\_pos\_n\_objects



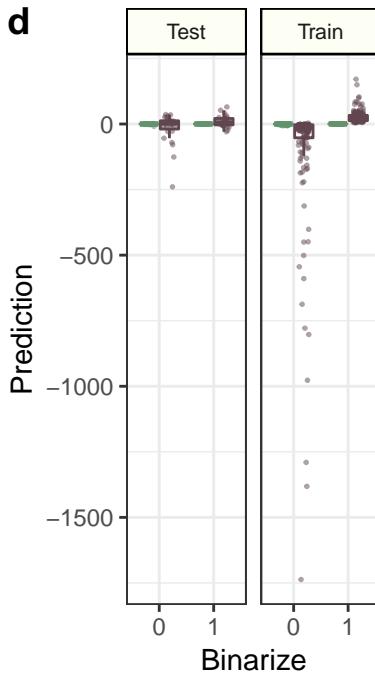
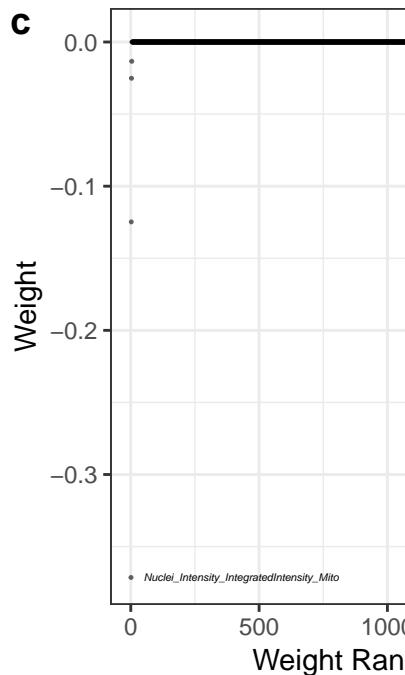
Test  
Train

Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.74	0.74	True	False	151
Test	0.67	0.69	Test	False	151
Train	1.00	1.00	Train	True	151
Test	0.59	0.61	Test	True	151

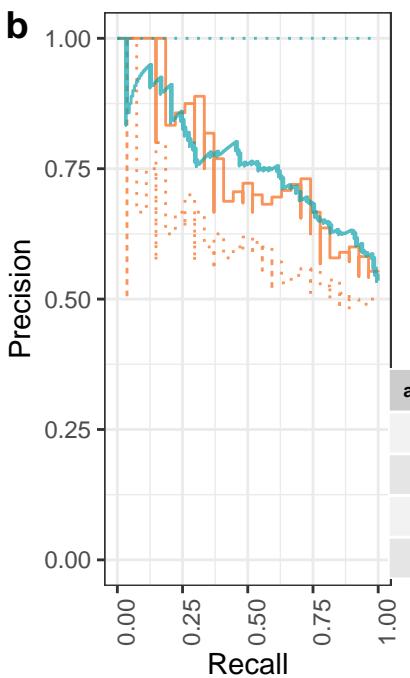
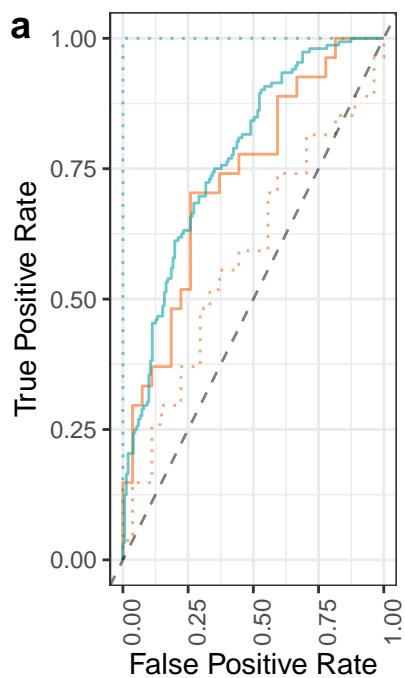


Shuffled

False

True

# Performance: cc\_g2\_ph3\_pos\_n\_spots\_mean

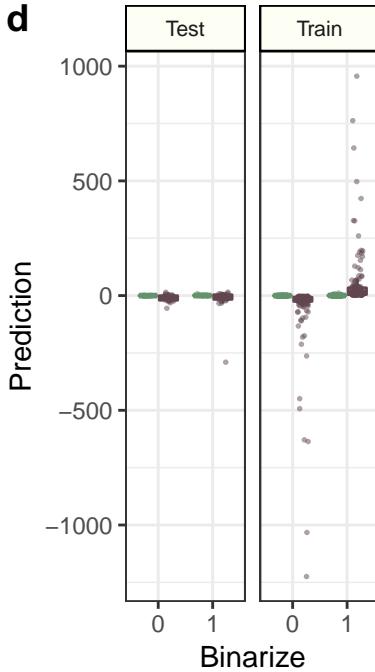
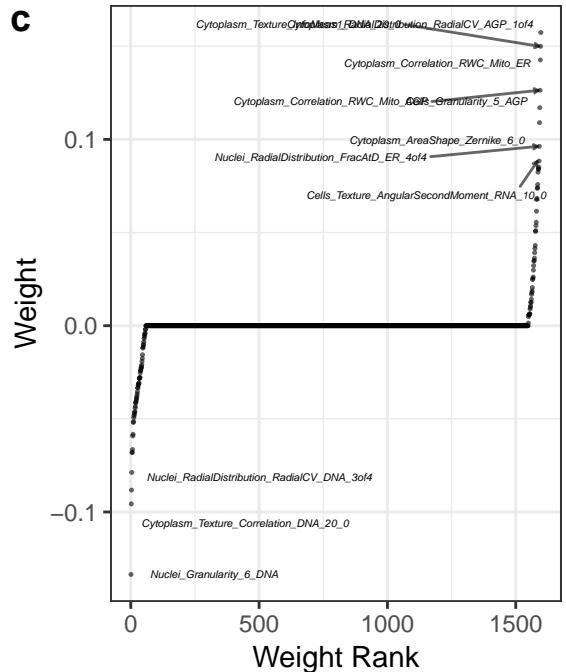


Test  
Train

Shuffled Data

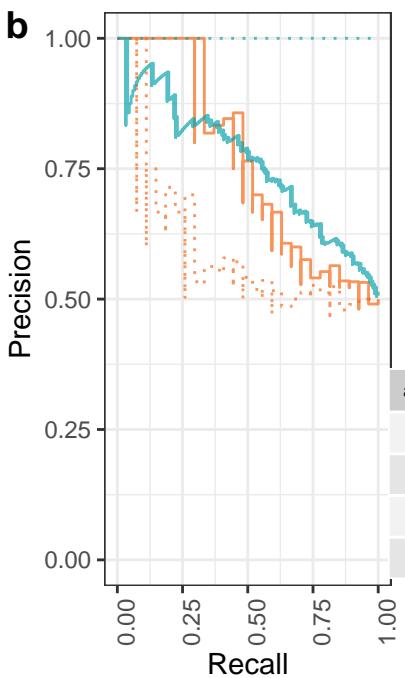
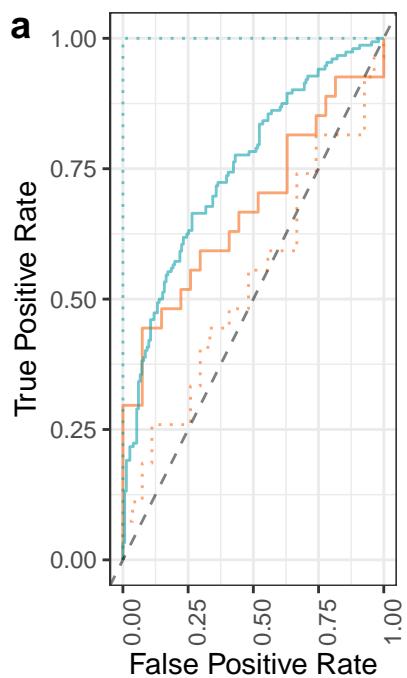
Real  
Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.77	0.76	True	False	151
Test	0.73	0.75	Test	False	151
Train	1.00	1.00	Train	True	151
Test	0.58	0.61	Test	True	151



Shuffled  
False  
True

# Performance: cc\_g2\_ph3\_pos\_n\_spots\_per\_nucleus\_area\_mean



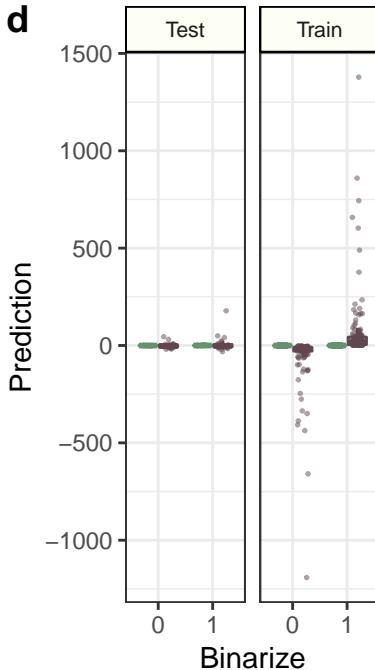
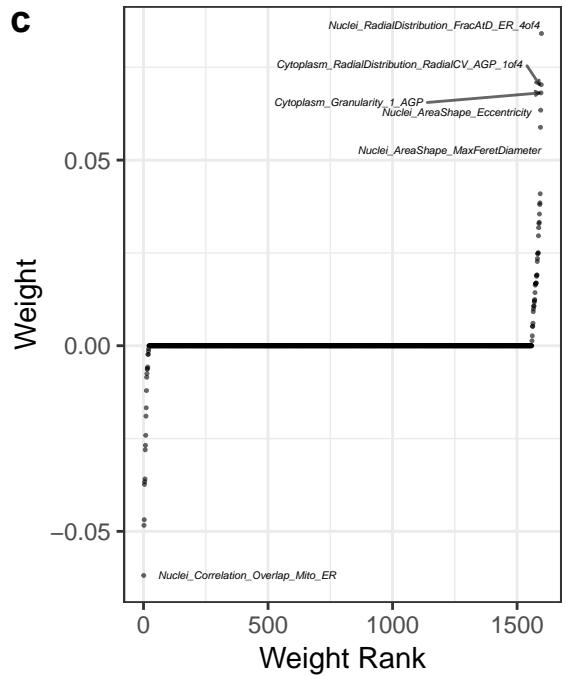
Test  
Train

Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.75	0.76	True	False	151
Test	0.67	0.75	Test	False	151
Train	1.00	1.00	Train	True	151
Test	0.53	0.59	Test	True	151

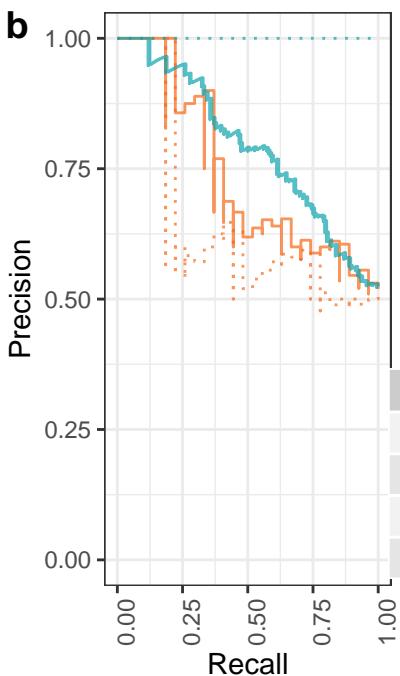
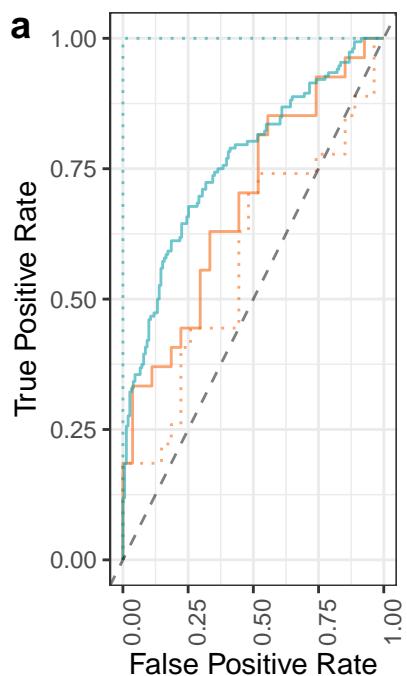


Shuffled

False

True

# Performance: cc\_g2\_plus\_all\_m



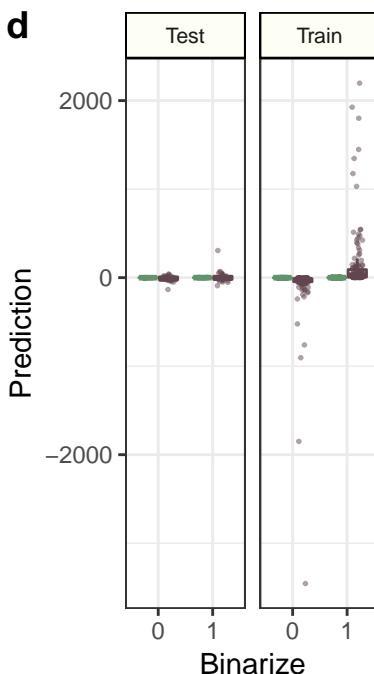
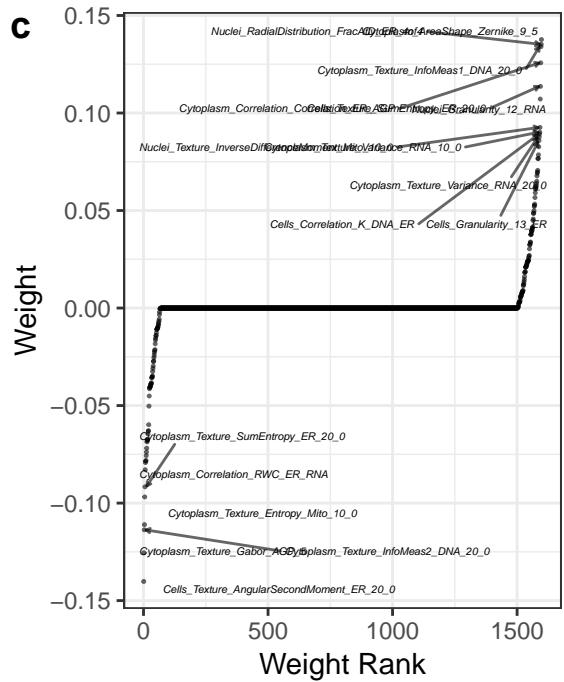
Test  
Train

Shuffled Data

Real

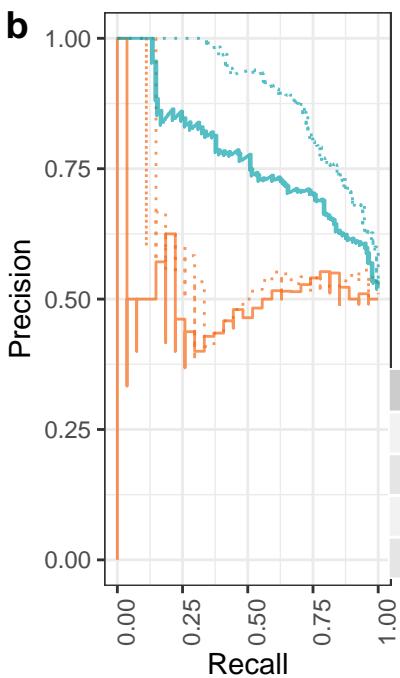
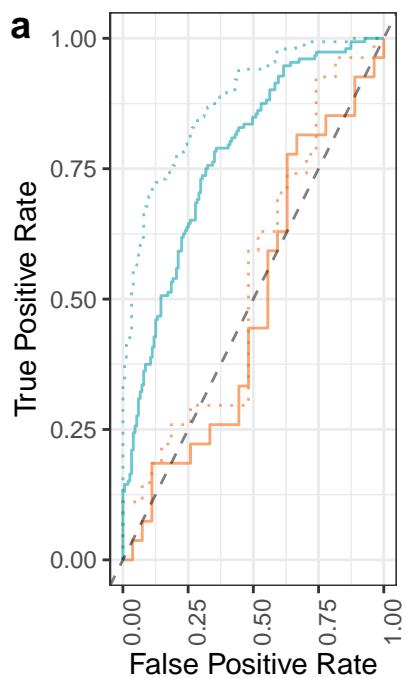
Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.76	0.79	True	False	151
Test	0.69	0.73	Test	False	151
Train	1.00	1.00	Train	True	151
Test	0.58	0.64	Test	True	151



Shuffled  
False  
True

# Performance: cc\_infection\_percentage



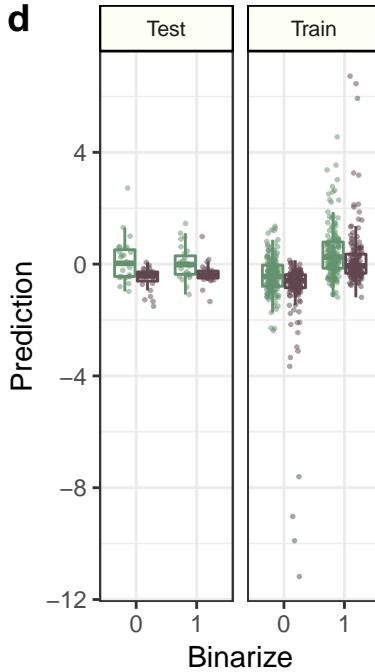
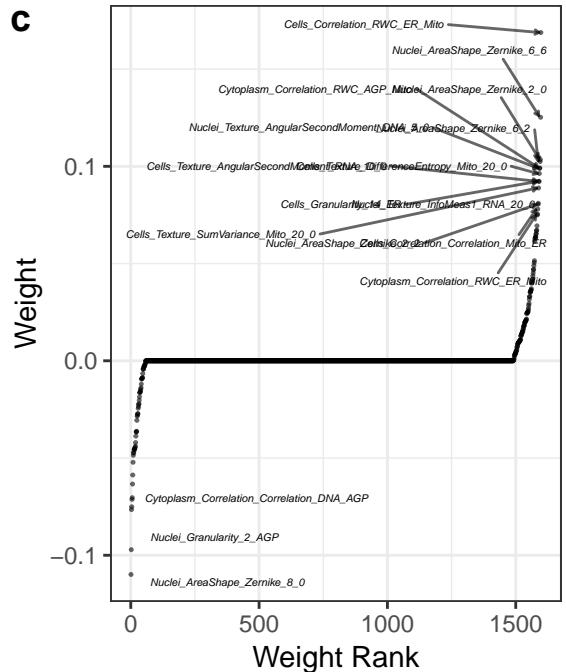
Test  
Train

Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.77	0.77	True	False	151
Test	0.49	0.50	Test	False	151
Train	0.88	0.89	Train	True	151
Test	0.54	0.58	Test	True	151

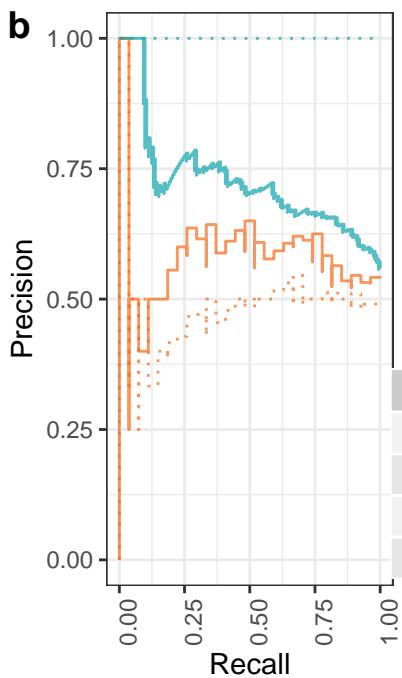
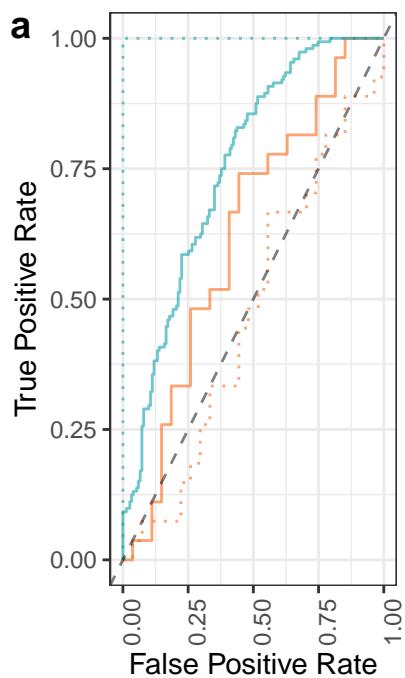


Shuffled

False

True

# Performance: cc\_mitosis\_ph3\_neg\_n\_objects

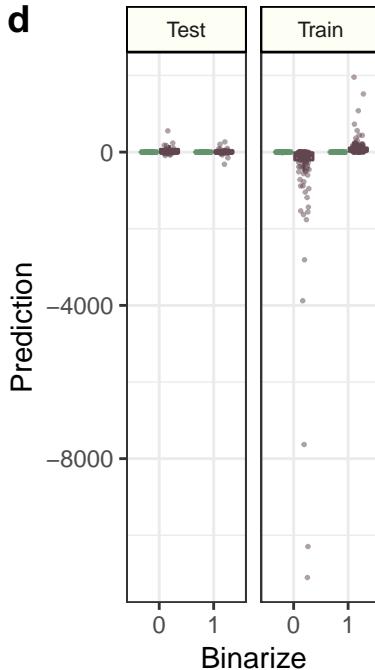
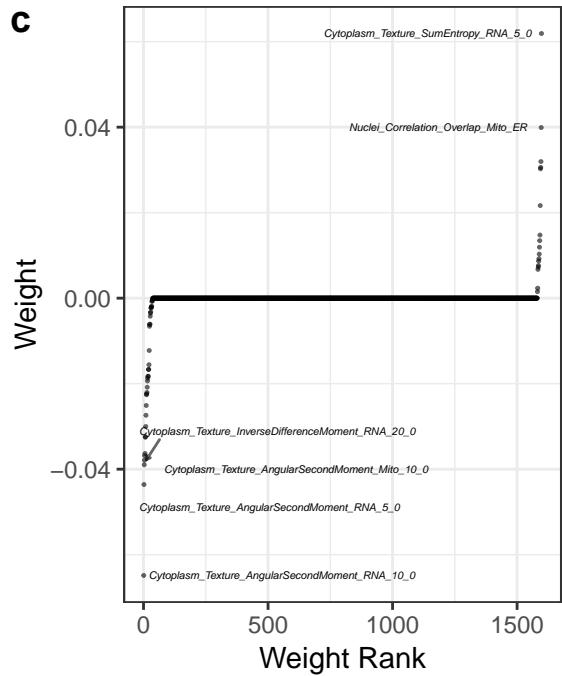


Test  
Train

Shuffled Data

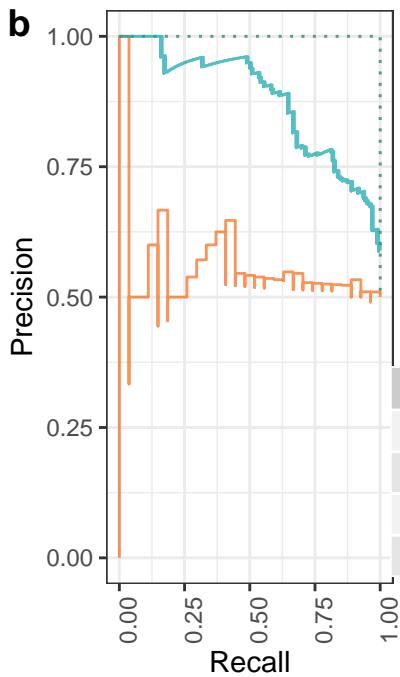
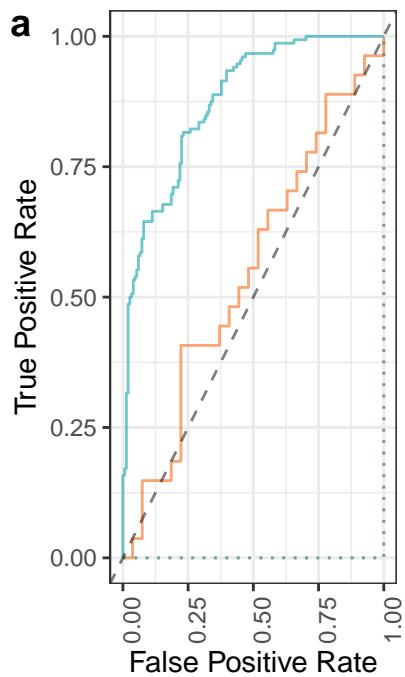
Real  
Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.75	0.73	True	False	151
Test	0.62	0.57	Test	False	151
Train	1.00	1.00	Train	True	151
Test	0.47	0.48	Test	True	151



Shuffled  
False  
True

## Performance: cc\_mitosis\_ph3\_neg\_n\_spots\_mean

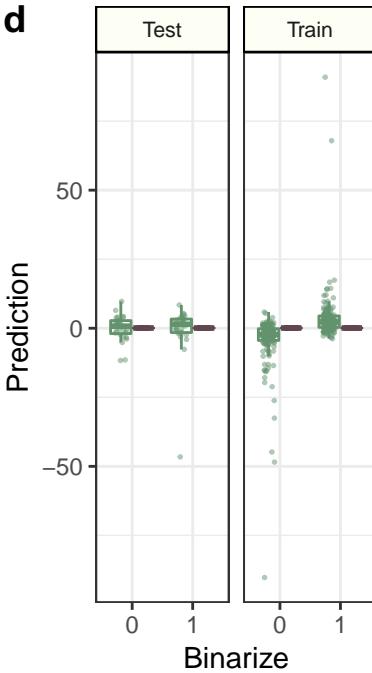
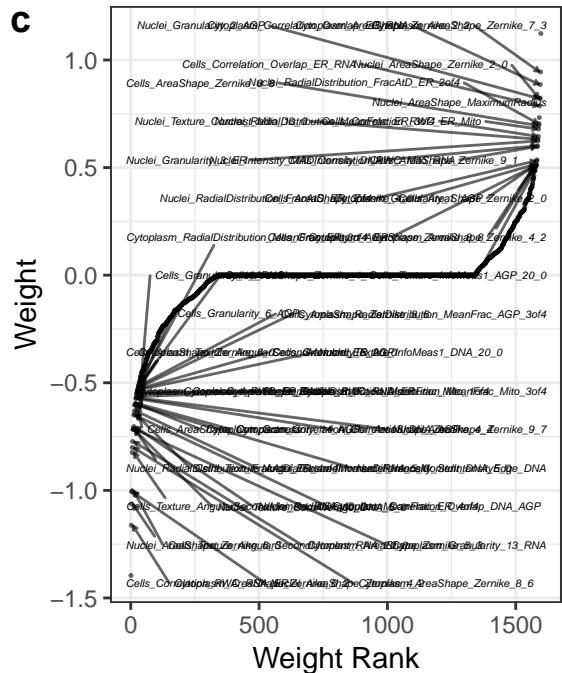


## Shuffled Data

— Real

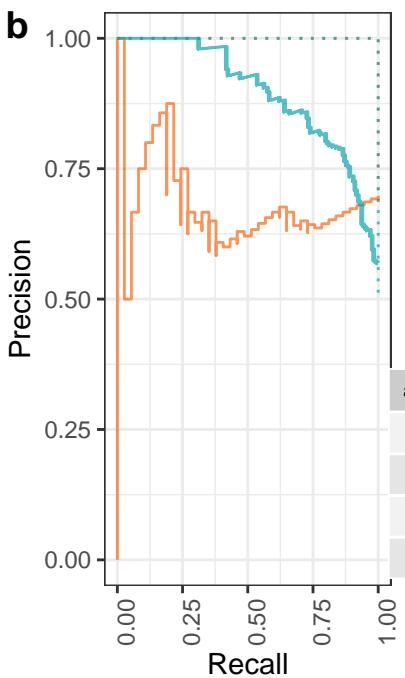
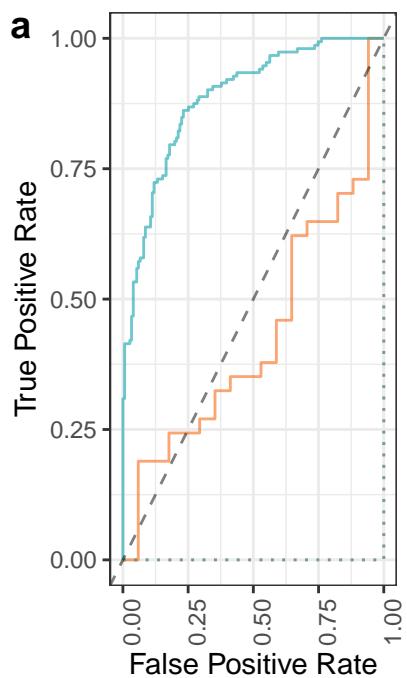
..... Shuffled

auroc	aupr	fit	shuffle	n
0.88	0.88	Train	False	15
0.55	0.55	Test	False	15
0.50	0.50	Train	True	15
0.50	0.50	Test	True	15



Shuffled

# Performance: cc\_mitosis\_ph3\_neg\_n\_spots\_per\_nucleus\_area\_



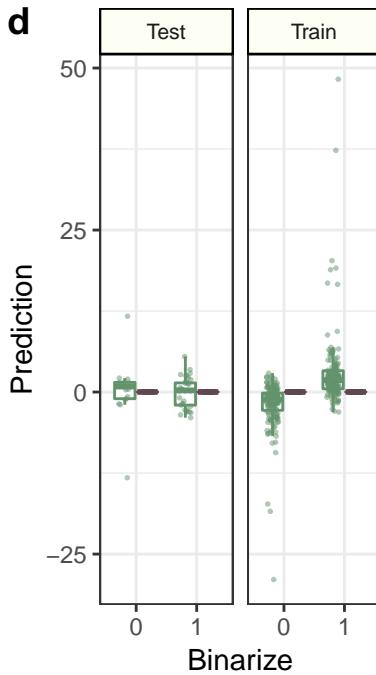
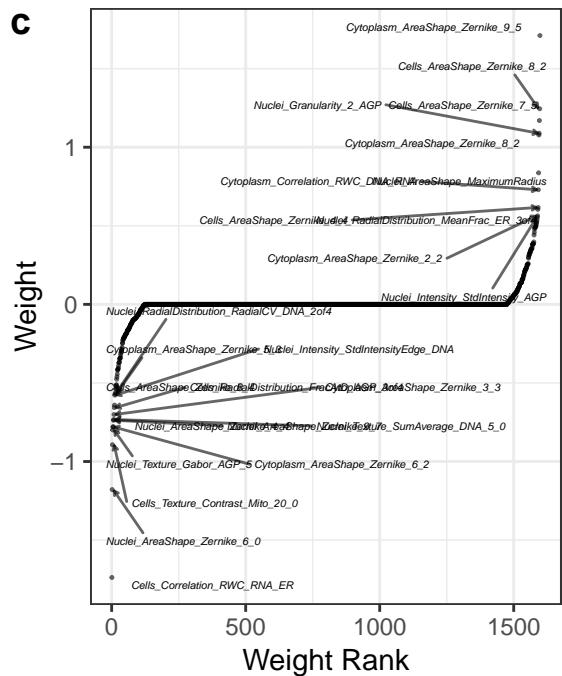
Test  
Train

Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Test	0.89	0.90	Train	False	151
Train	0.43	0.68	Test	False	151
Real	0.50	0.50	Train	True	151
Shuffled	0.50	0.69	Test	True	151

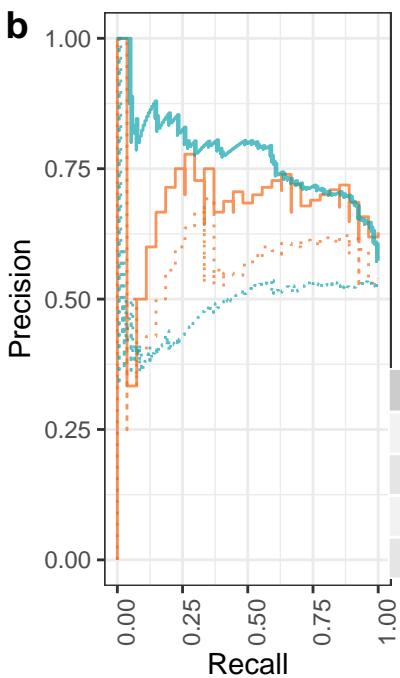
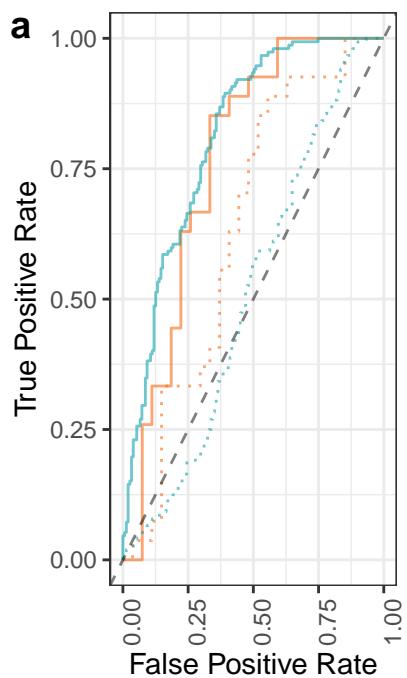


Shuffled

False

True

# Performance: cc\_mitosis\_ph3\_pos\_n\_objects



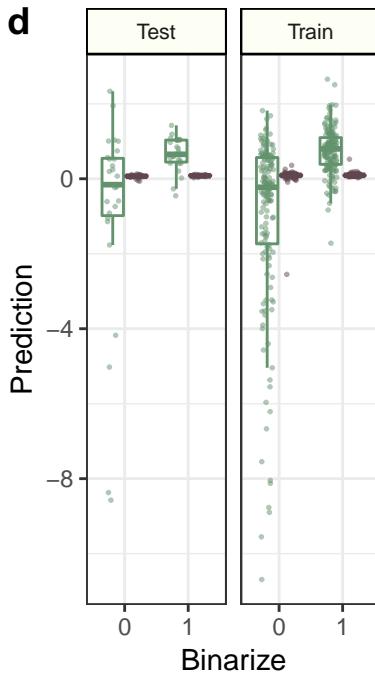
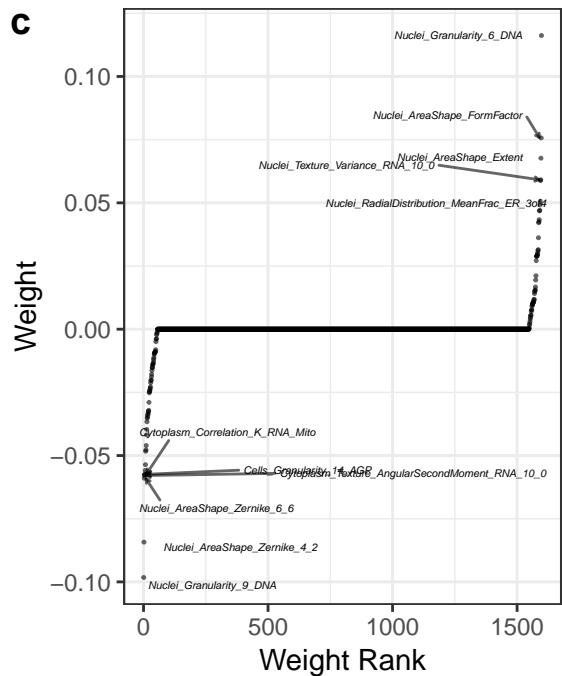
Test  
Train

Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Test	0.81	0.78	Train	False	151
Train	0.76	0.68	Test	False	151
Real	0.51	0.49	Train	True	151
Shuffled	0.63	0.58	Test	True	151

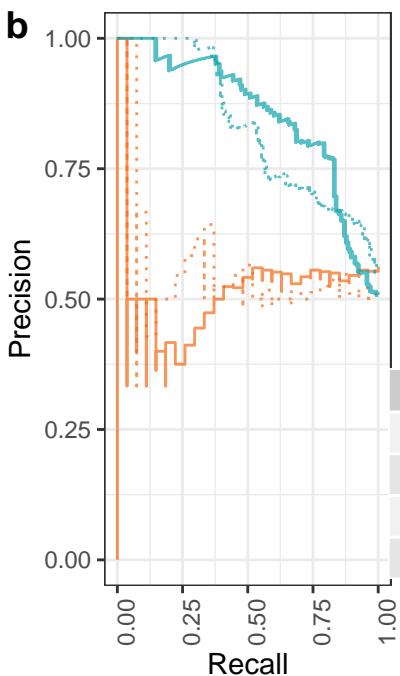
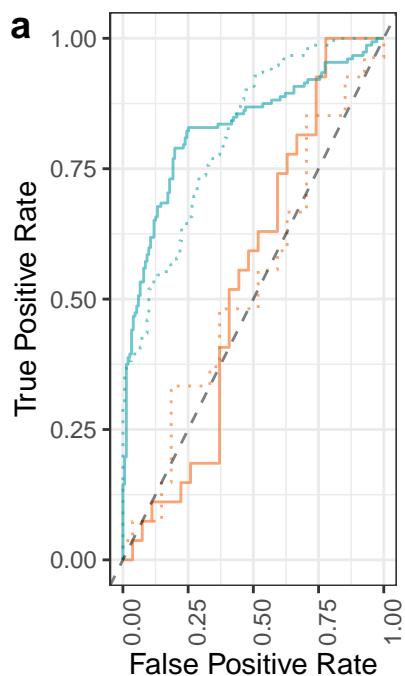


Shuffled

False

True

# Performance: cc\_mitosis\_ph3\_pos\_n\_spots\_mean



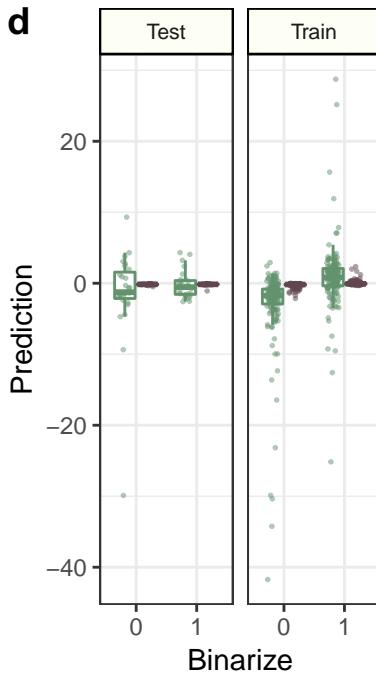
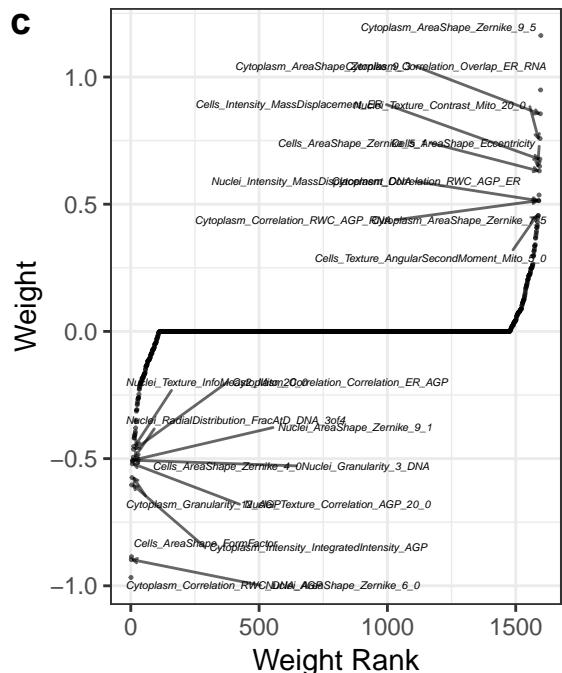
Test  
Train

Shuffled Data

Real

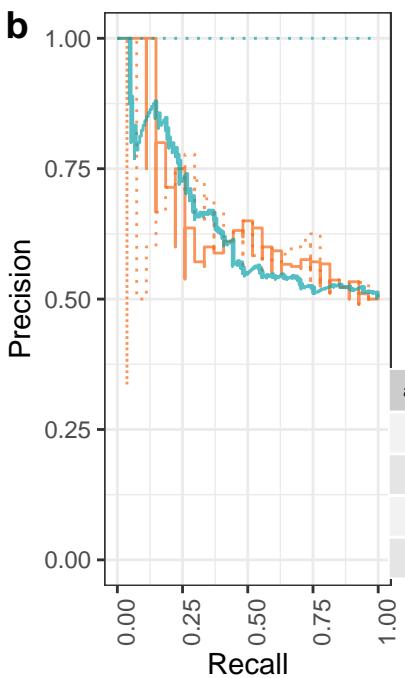
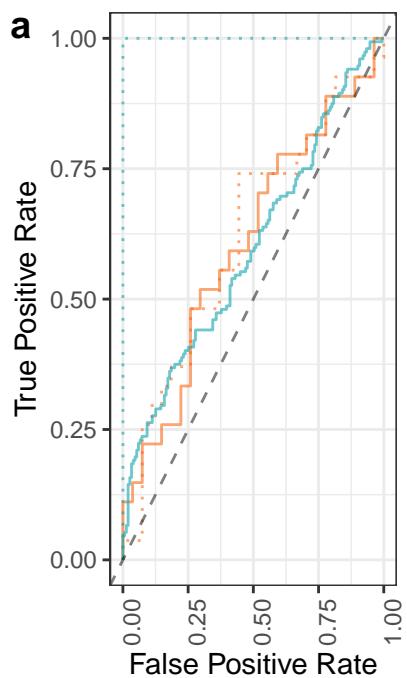
Shuffled

auroc	aupr	fit	shuffle	n
0.83	0.85	Train	False	151
0.54	0.51	Test	False	151
0.81	0.83	Train	True	151
0.53	0.55	Test	True	151

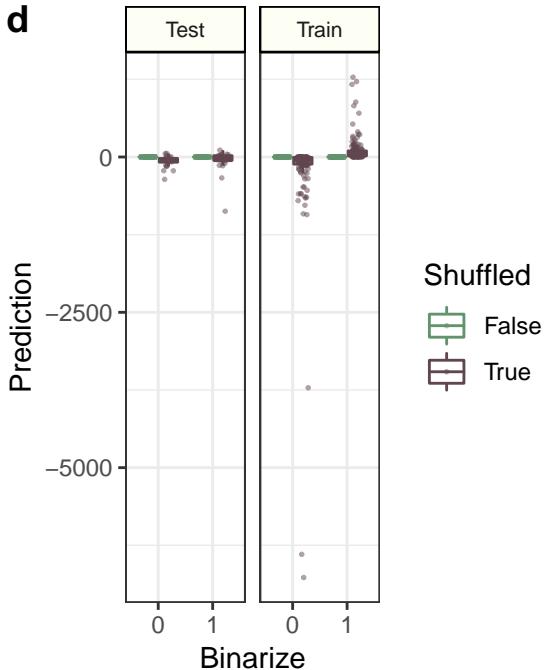
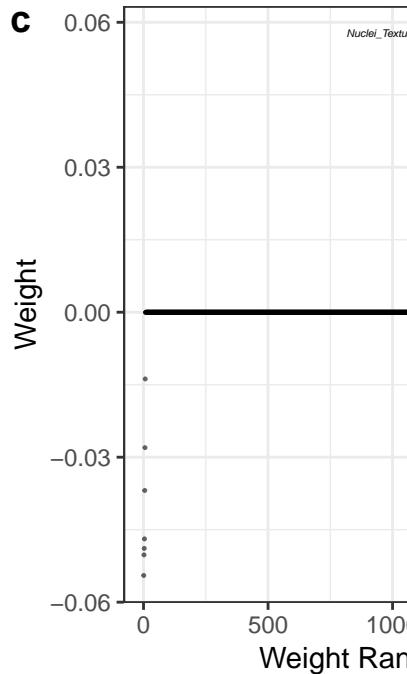


Shuffled  
False  
True

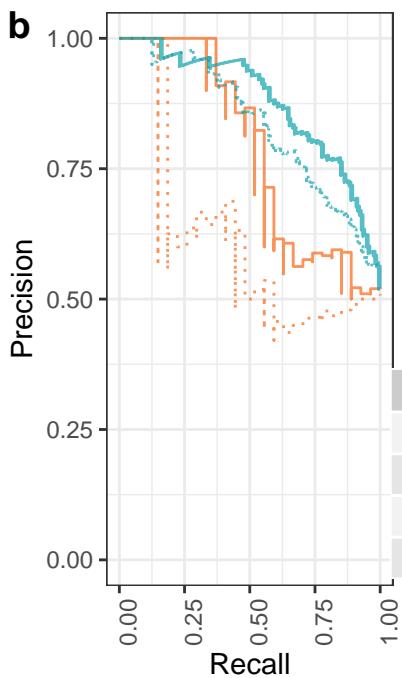
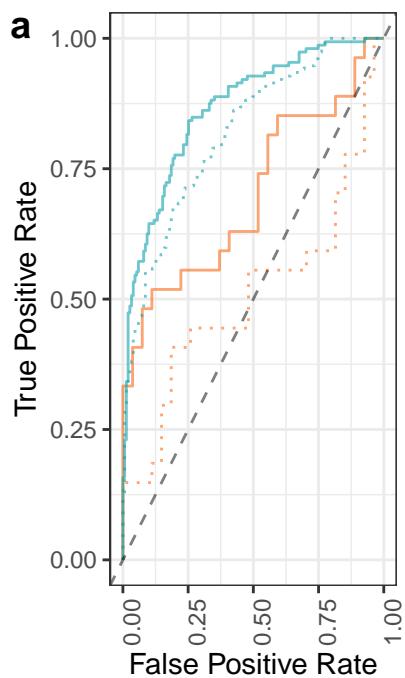
# Performance: cc\_mitosis\_ph3\_pos\_n\_spots\_per\_nucleus\_area\_



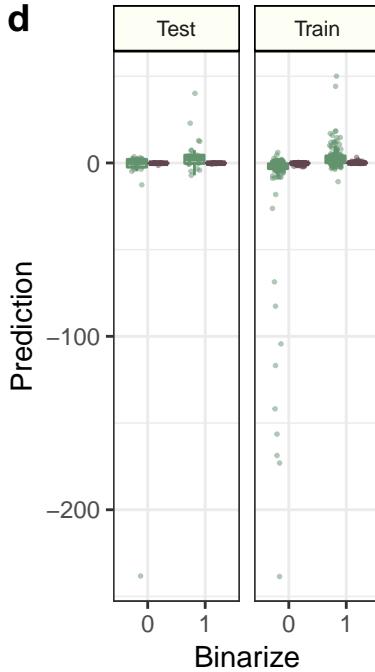
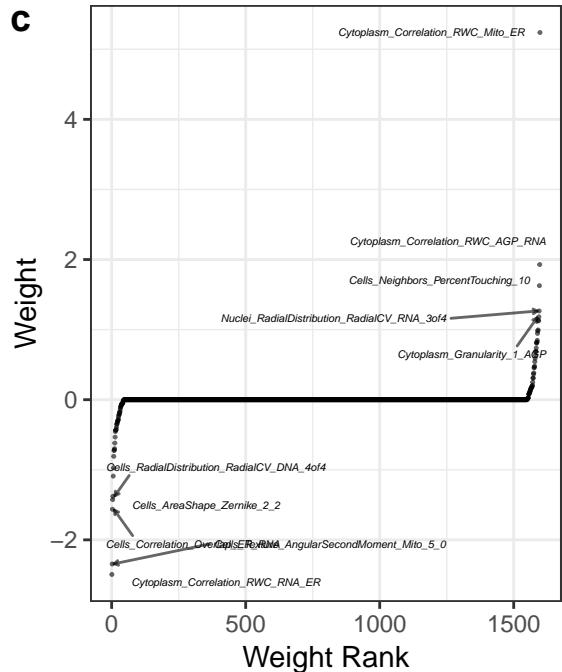
	auroc	aupr	fit	shuffle	n
Train	0.60	0.64	True	False	151
Test	0.61	0.64	Test	False	151
Train	1.00	1.00	Train	True	151
Test	0.62	0.62	Test	True	151



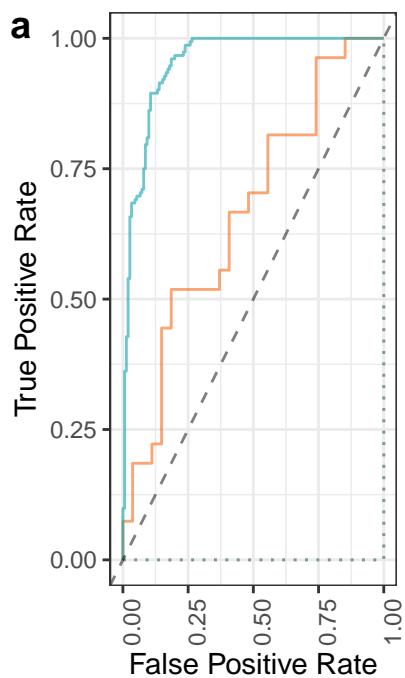
# Performance: cc\_polynuclear\_high\_n\_spots\_h2ax\_mean



	auroc	aupr	fit	shuffle	n
Train	0.87	0.88	True	False	151
Test	0.70	0.77	Test	False	151
Train	0.82	0.83	Train	True	151
Test	0.51	0.61	Test	True	151



# Performance: cc\_polynuclear\_n\_objects



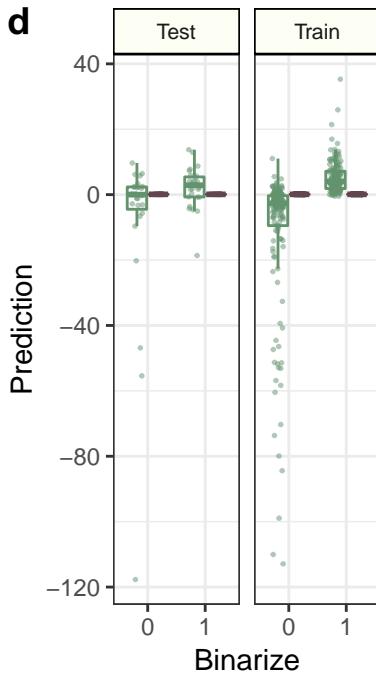
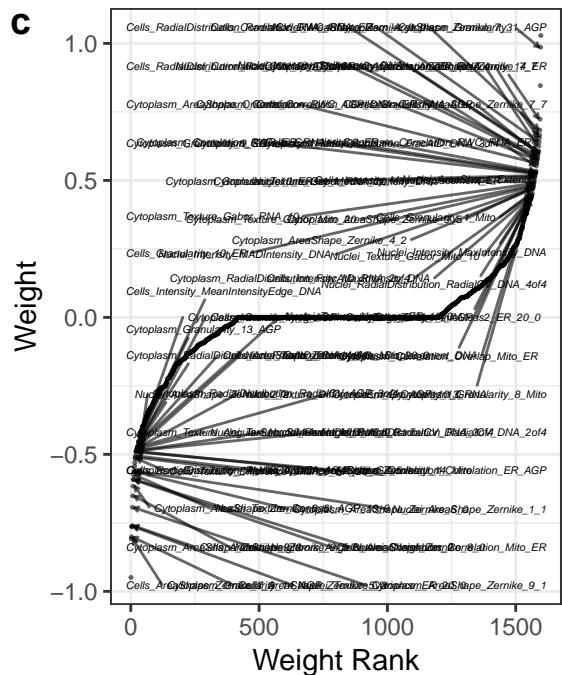
Test  
Train

Shuffled Data

Real

Shuffled

auroc	aupr	fit	shuffle	n
0.95	0.94	Train	False	151
0.67	0.67	Test	False	151
0.50	0.50	Train	True	151
0.50	0.50	Test	True	151

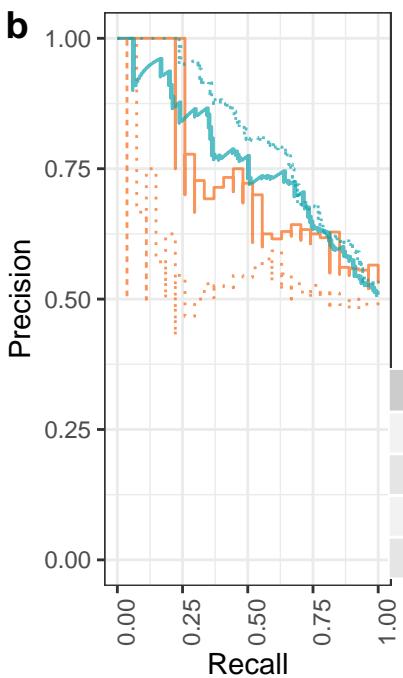
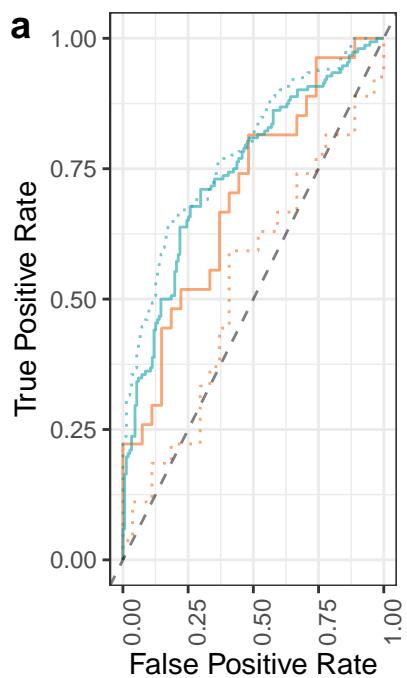


Shuffled

False

True

# Performance: cc\_polynuclear\_n\_spots\_mean



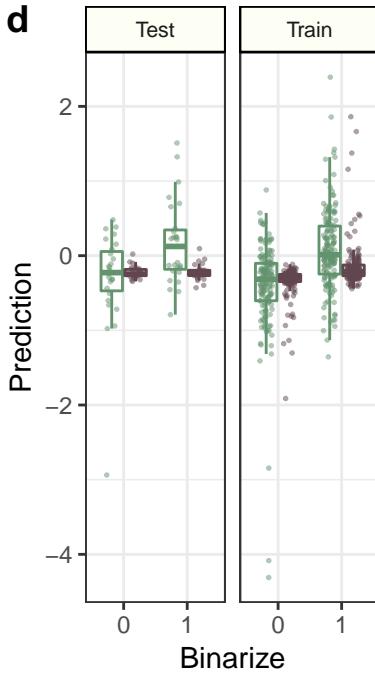
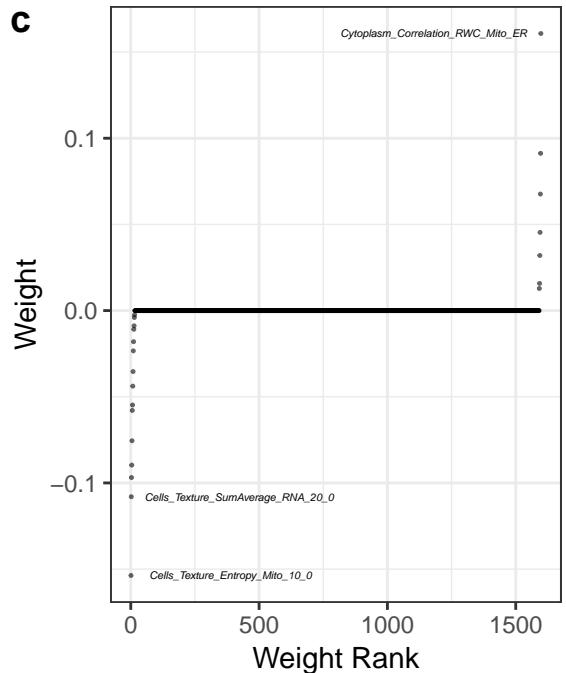
Test  
Train

Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.74	0.76	True	False	151
Test	0.70	0.73	Test	False	151
Train	0.78	0.81	Train	True	151
Test	0.53	0.56	Test	True	151

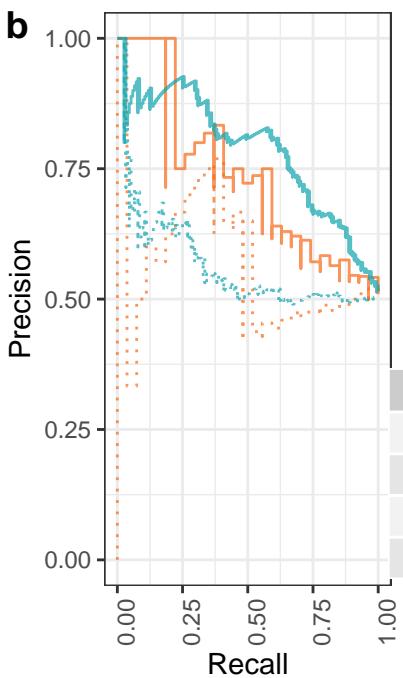
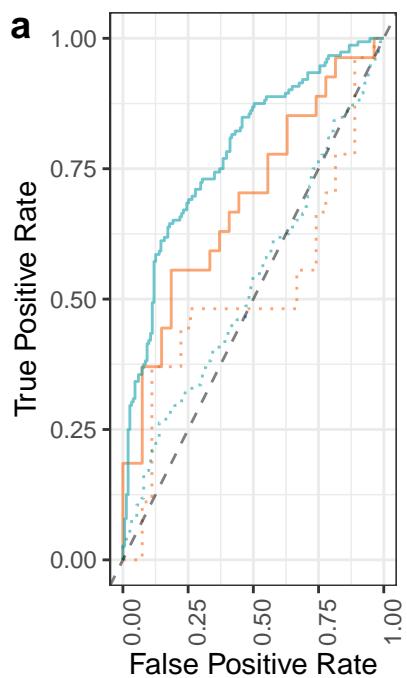


Shuffled

False

True

# Performance: cc\_polynuclear\_n\_spots\_per\_nucleus\_area\_mean



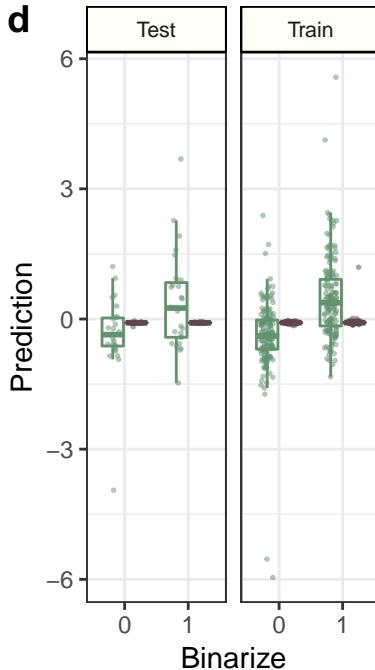
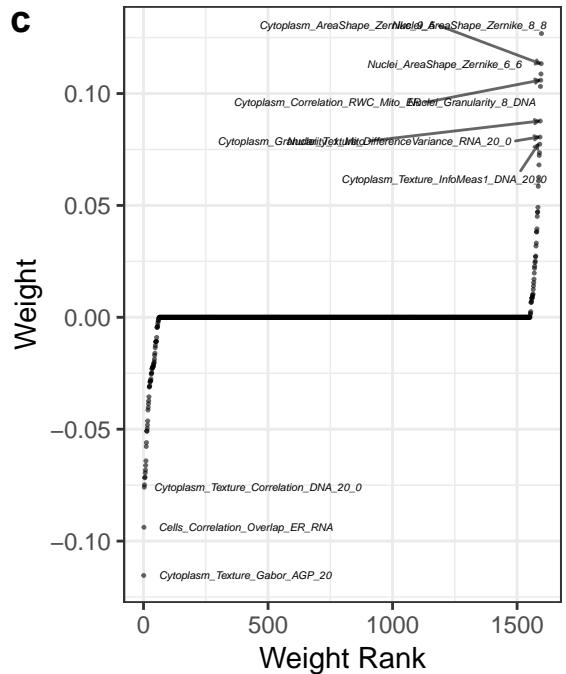
Test  
Train

Shuffled Data

Real

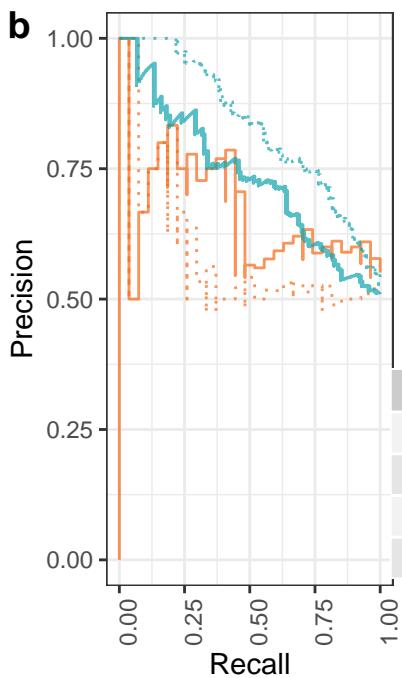
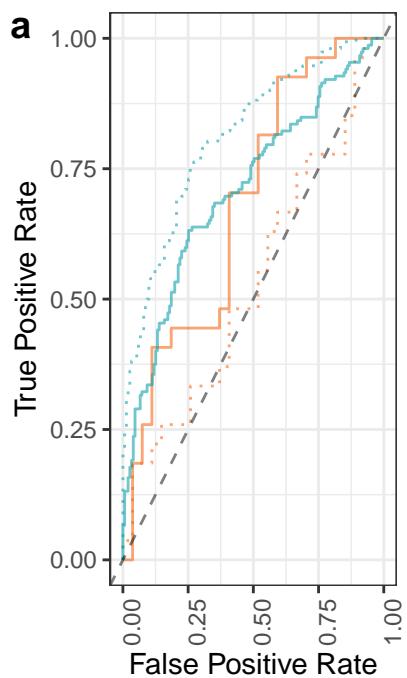
Shuffled

auroc	aupr	fit	shuffle	n
0.78	0.78	Train	False	151
0.69	0.73	Test	False	151
0.53	0.57	Train	True	151
0.52	0.55	Test	True	151



Shuffled  
False  
True

# Performance: cc\_polyplloid\_high\_n\_spots\_h2ax\_mean

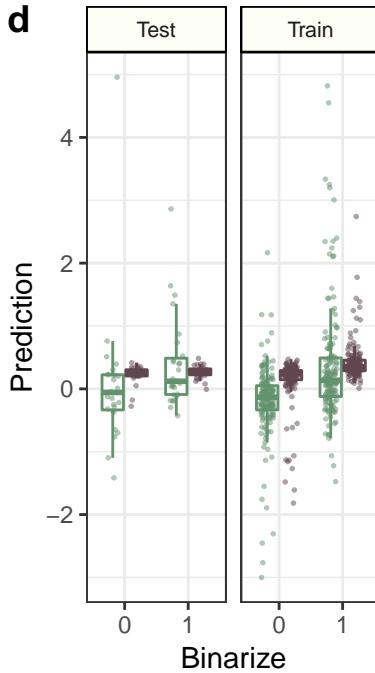
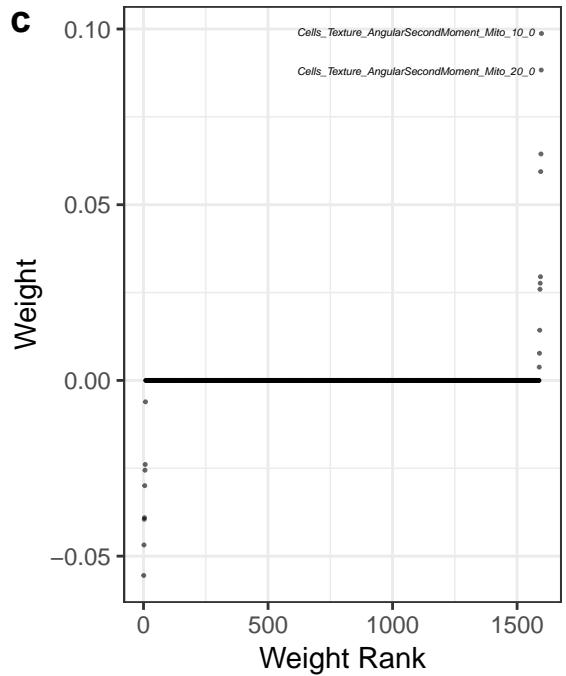


Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.71	0.73	True	False	151
Test	0.68	0.66	Test	False	151
Train	0.81	0.83	Train	True	151
Test	0.53	0.58	Test	True	151

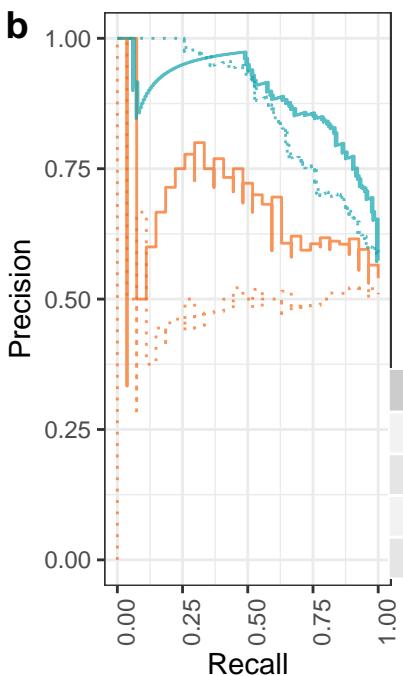
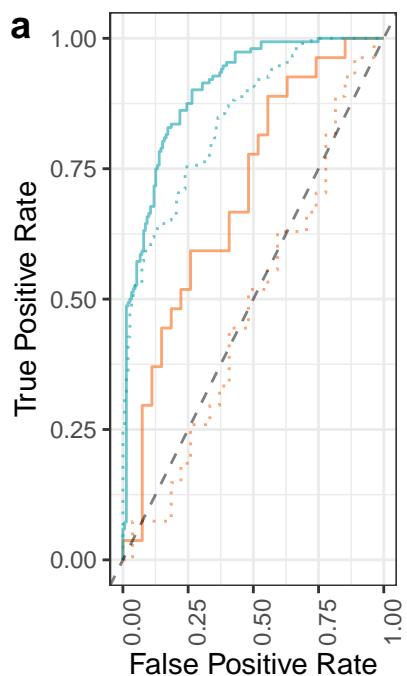


Shuffled

False

True

# Performance: cc\_polyplloid\_n\_objects



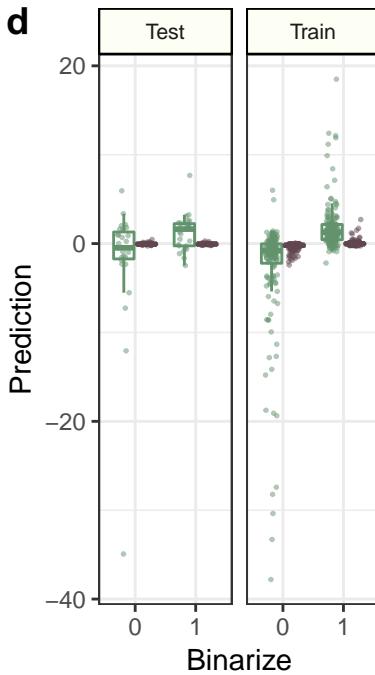
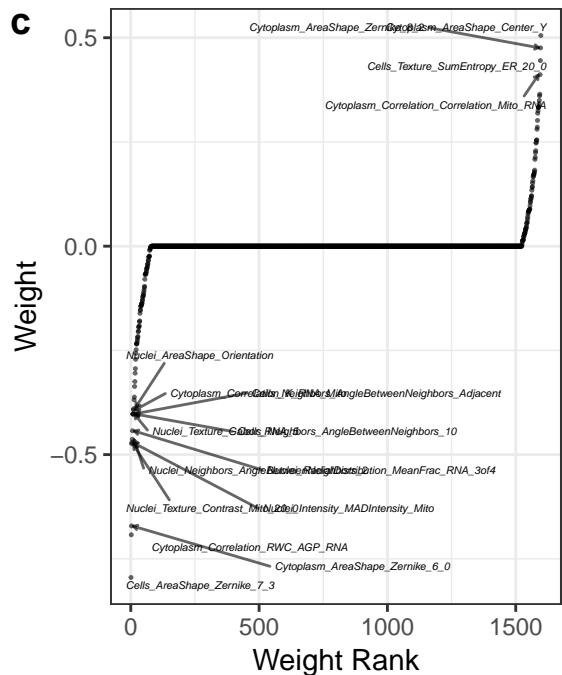
Test  
Train

Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.90	0.89	True	False	151
Test	0.70	0.67	Test	False	151
Train	0.85	0.86	Train	True	151
Test	0.48	0.50	Test	True	151

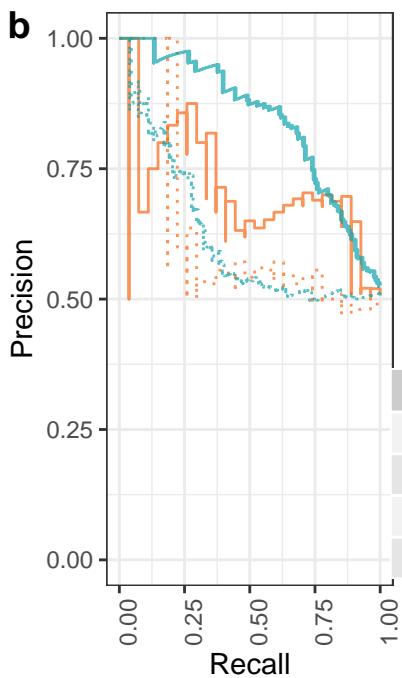
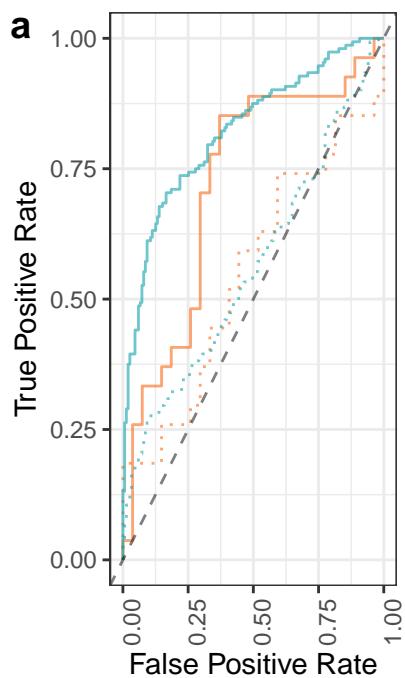


Shuffled

False

True

# Performance: cc\_polyplloid\_n\_spots\_mean



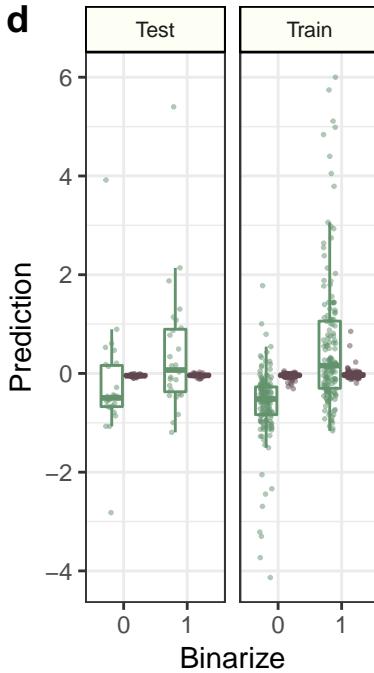
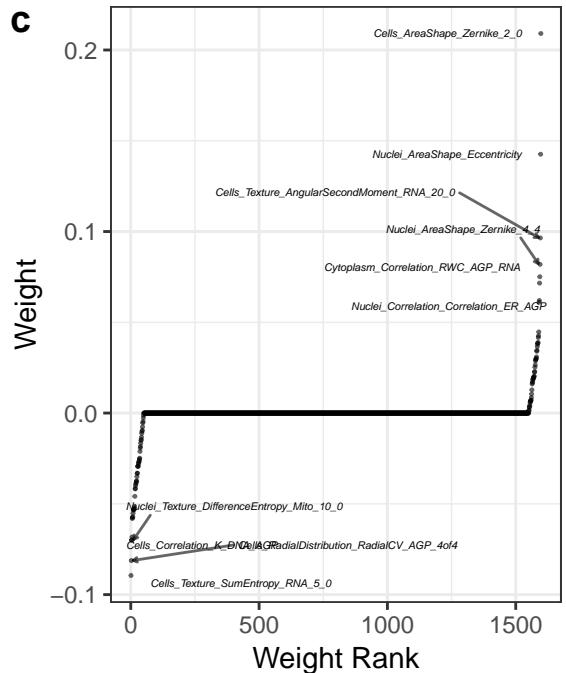
Test  
Train

Shuffled Data

Real

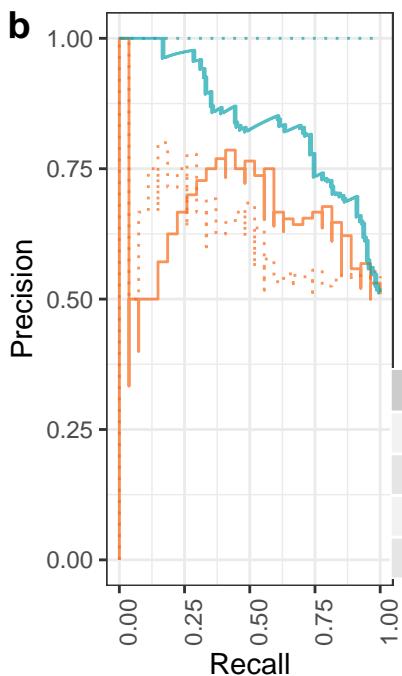
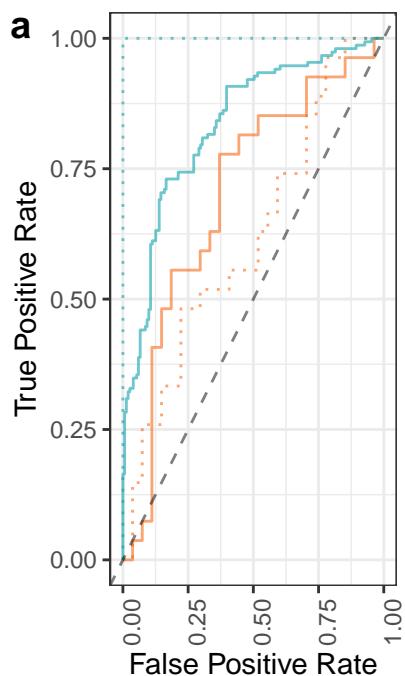
Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.82	0.84	True	False	151
Test	0.72	0.71	Test	False	151
Train	0.56	0.62	Train	True	151
Test	0.55	0.62	Test	True	151



Shuffled  
False  
True

# Performance: cc\_polyplloid\_n\_spots\_per\_nucleus\_area\_mean

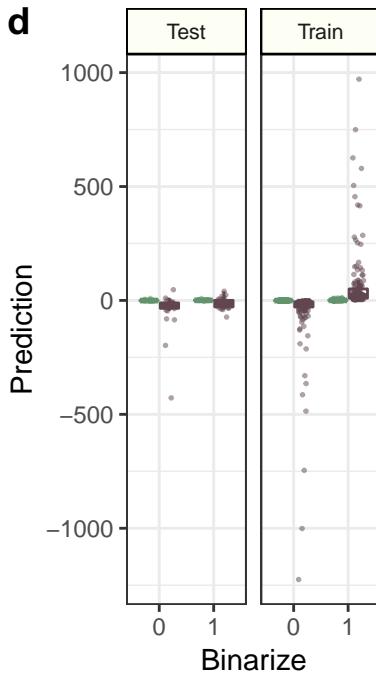
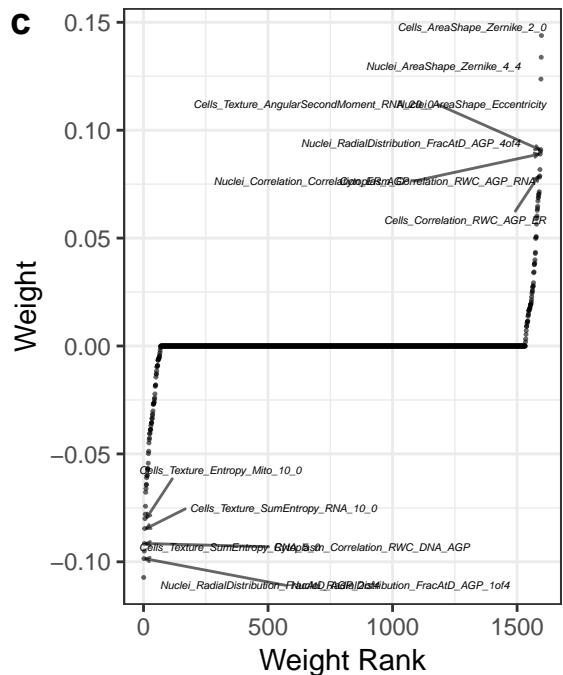


Shuffled Data

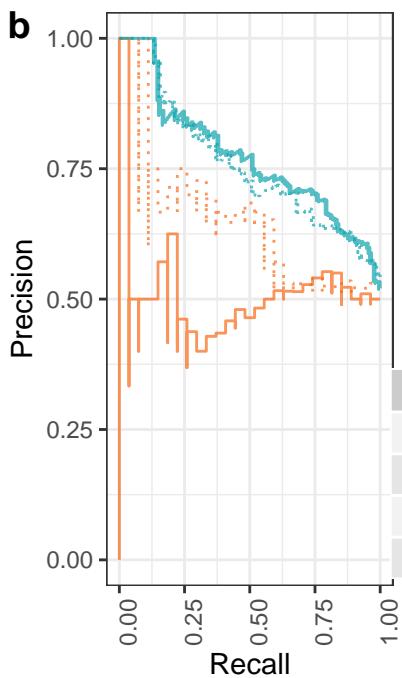
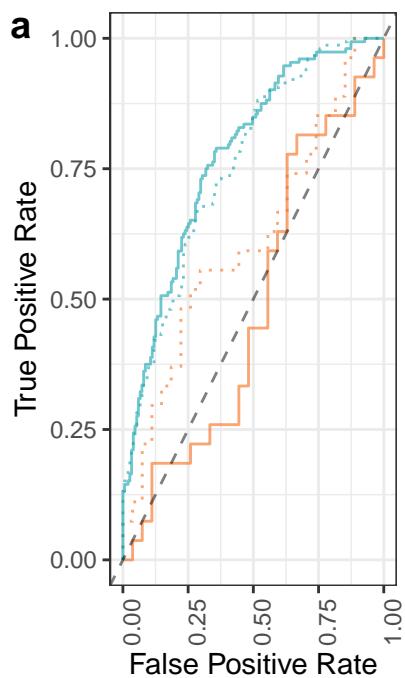
Real

Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.83	0.84	Train	False	151
Test	0.70	0.65	Test	False	151
Train	1.00	1.00	Train	True	151
Test	0.62	0.62	Test	True	151



# Performance: vb\_infection\_percentage

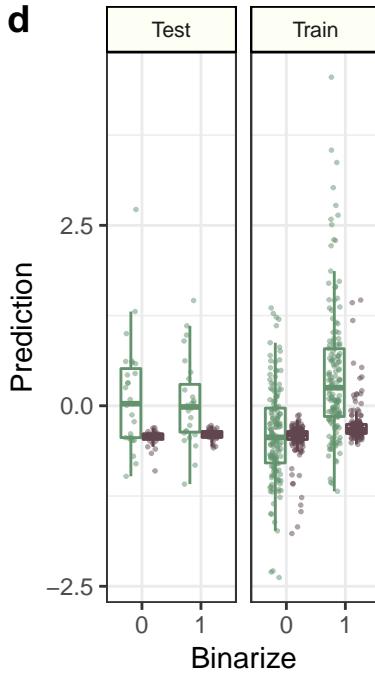
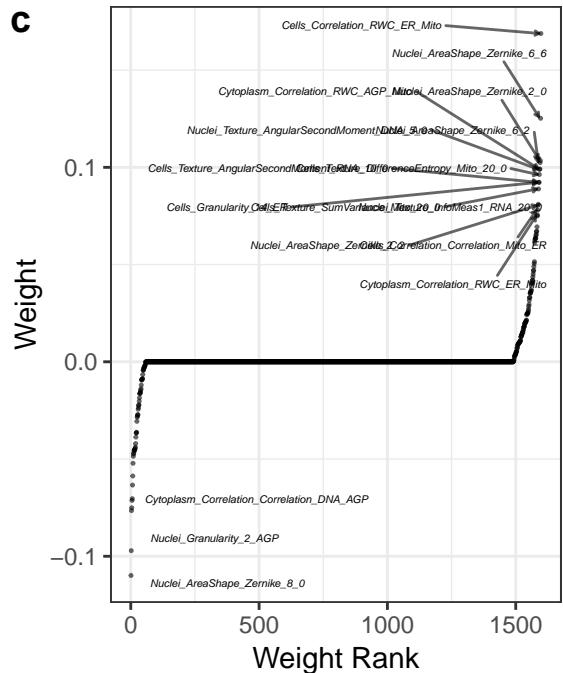


Test  
Train

Shuffled Data

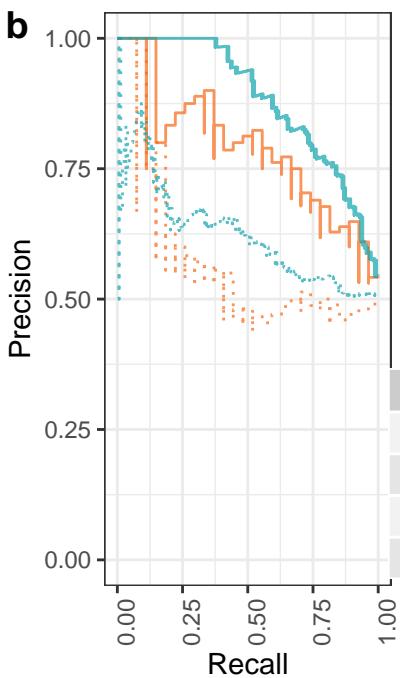
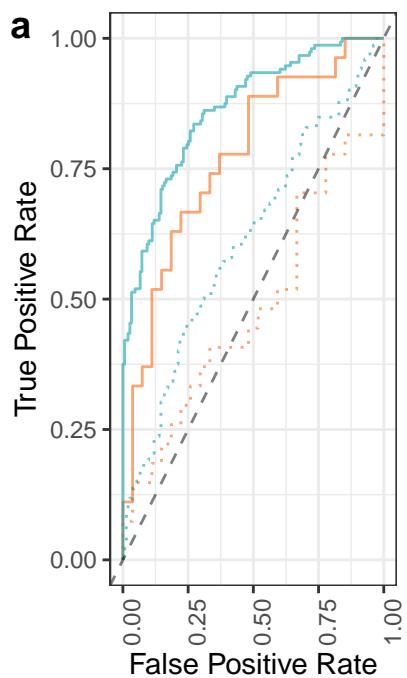
Real  
Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.77	0.77	True	False	151
Test	0.49	0.50	Test	False	151
Train	0.76	0.76	Train	True	151
Test	0.61	0.64	Test	True	151



Shuffled  
False  
True

# Performance: vb\_live\_cell\_area



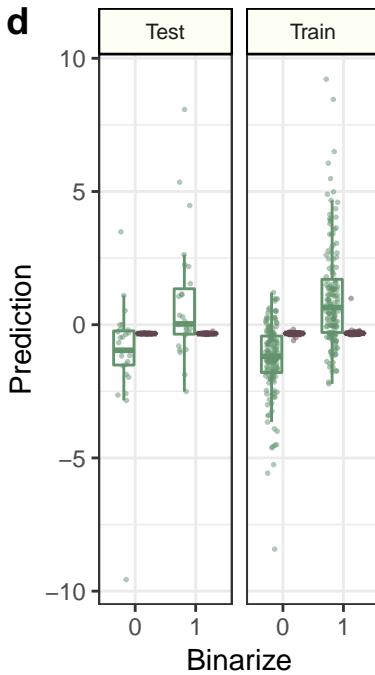
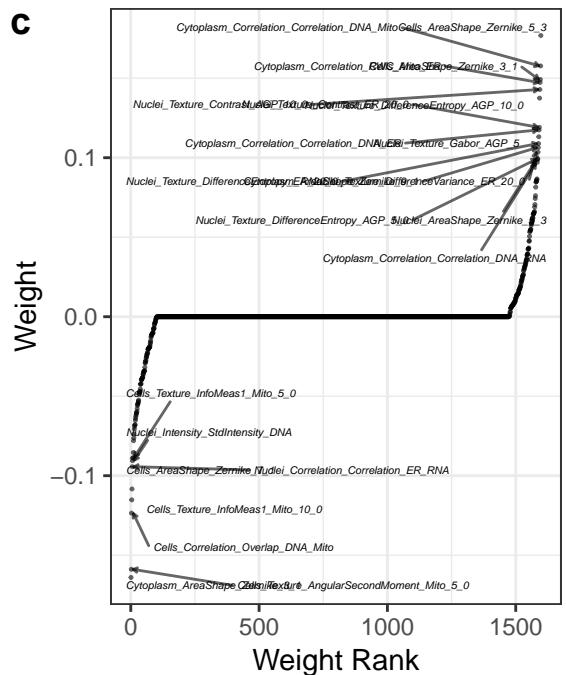
Test  
Train

Shuffled Data

Real

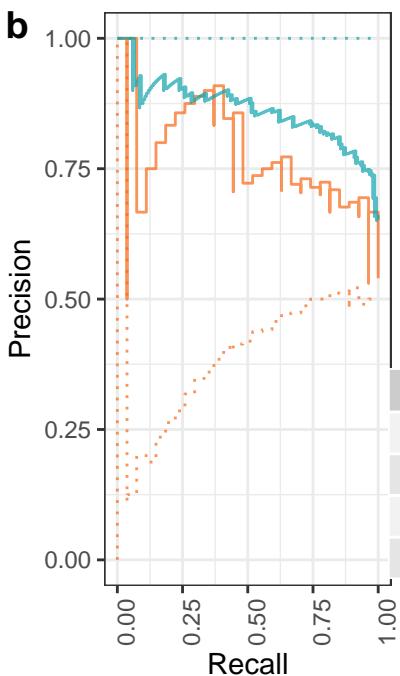
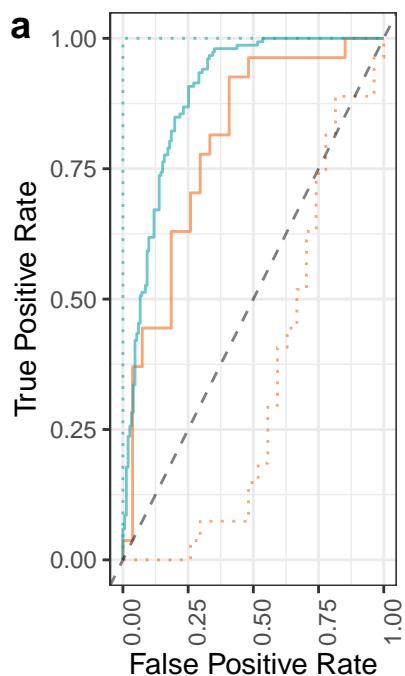
Shuffled

	auroc	aupr	fit	shuffle	n
Test	0.86	0.88	Train	False	151
Train	0.77	0.78	Test	False	151
True	0.61	0.63	Train	True	151
False	0.48	0.57	Test	True	151



Shuffled  
False  
True

# Performance: vb\_live\_cell\_roundness



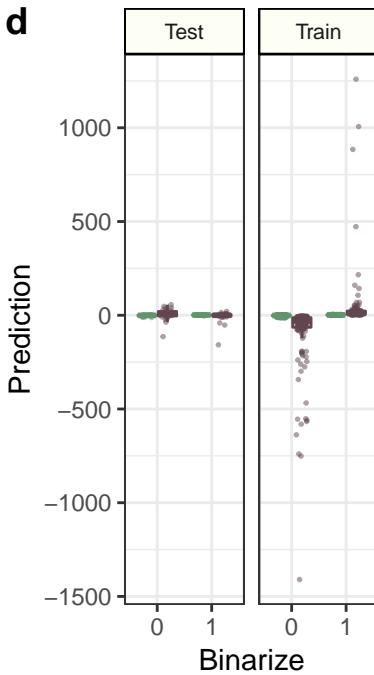
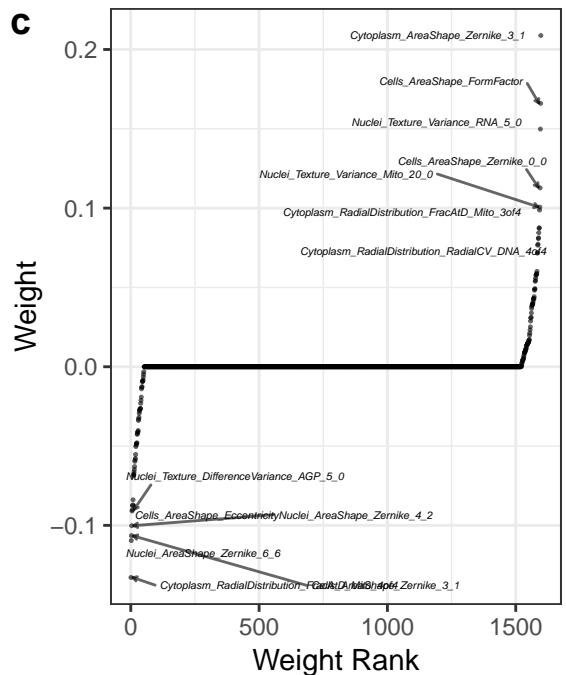
Test  
Train

Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.89	0.86	True	False	151
Test	0.80	0.77	Test	False	151
Train	1.00	1.00	Train	True	151
Test	0.34	0.40	Test	True	151

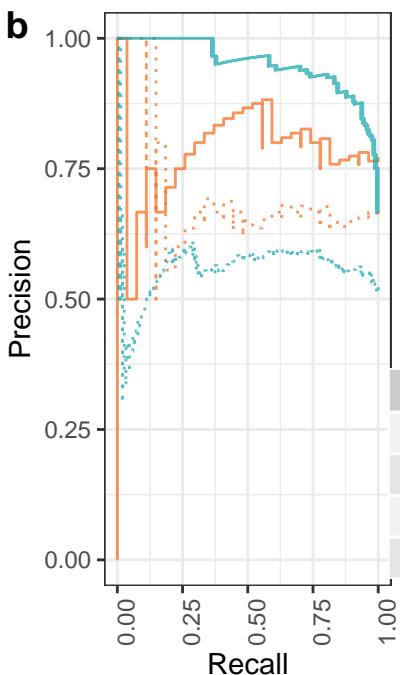
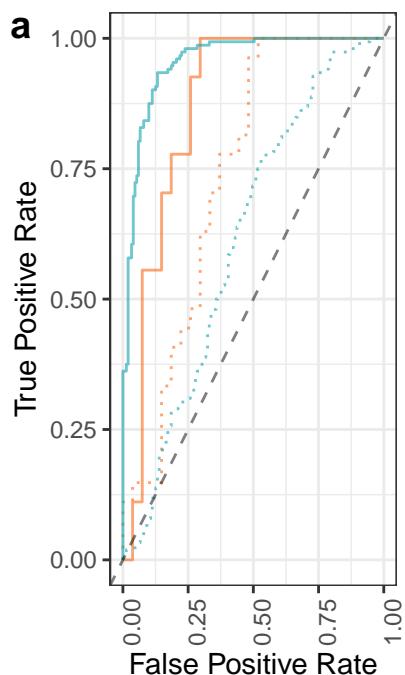


Shuffled

False

True

# Performance: vb\_live\_cell\_width\_length



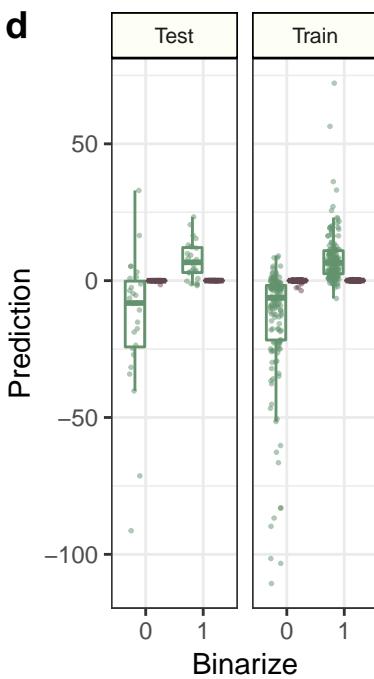
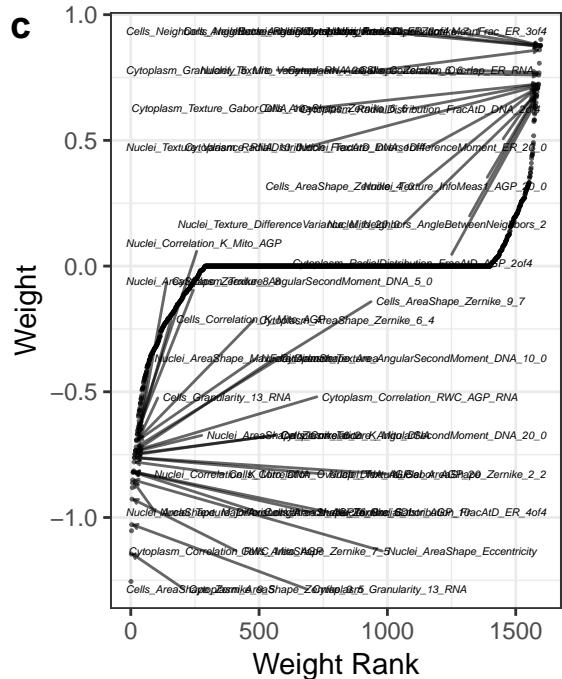
Test  
Train

Shuffled Data

Real

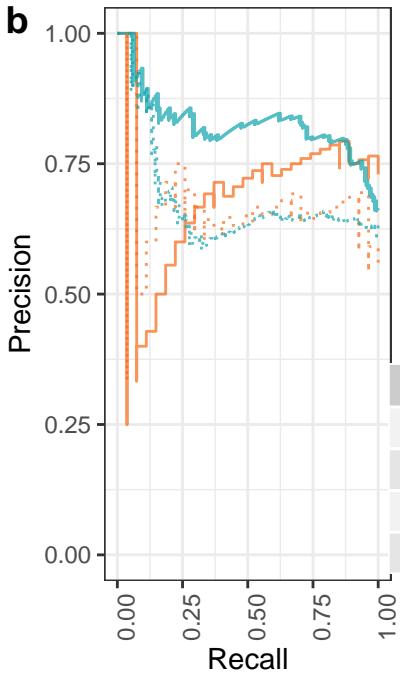
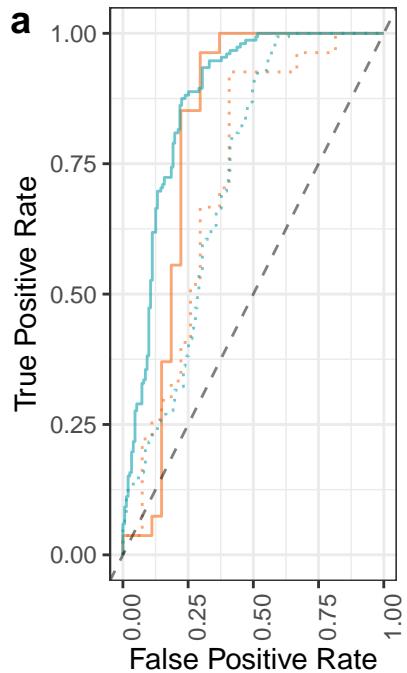
Shuffled

	auroc	aupr	fit	shuffle	n
Test	0.96	0.95	Train	False	151
Shuffled	0.87	0.78	Test	False	151
Real	0.62	0.56	Train	True	151
True	0.74	0.70	Test	True	151



Shuffled  
False  
True

# Performance: vb\_num\_live\_cells



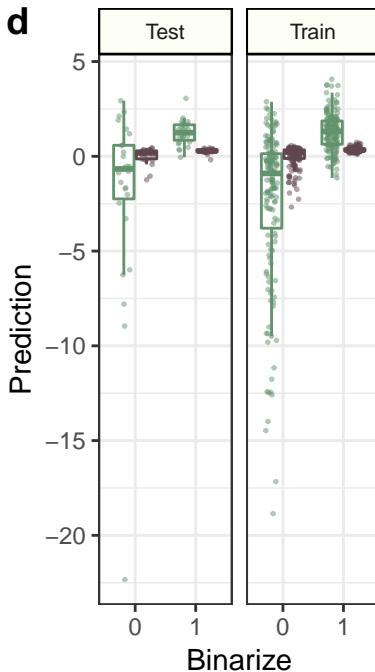
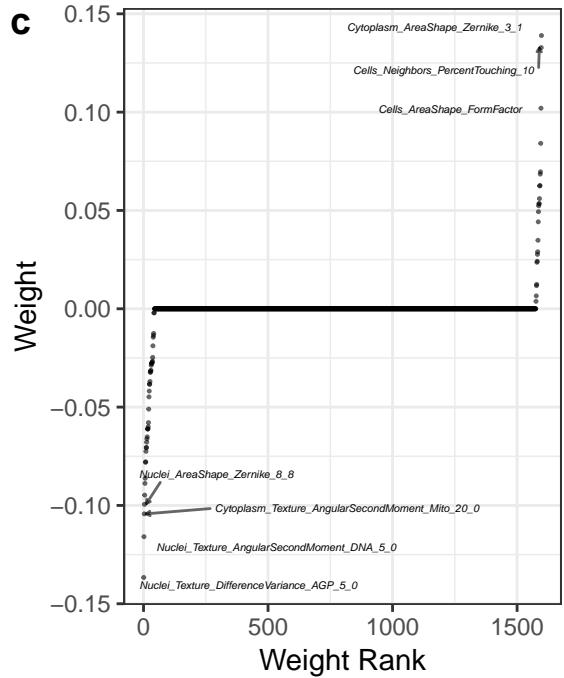
Test  
Train

Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.87	0.83	True	False	151
Test	0.81	0.70	Test	False	151
Train	0.72	0.68	Train	True	151
Test	0.72	0.67	Test	True	151

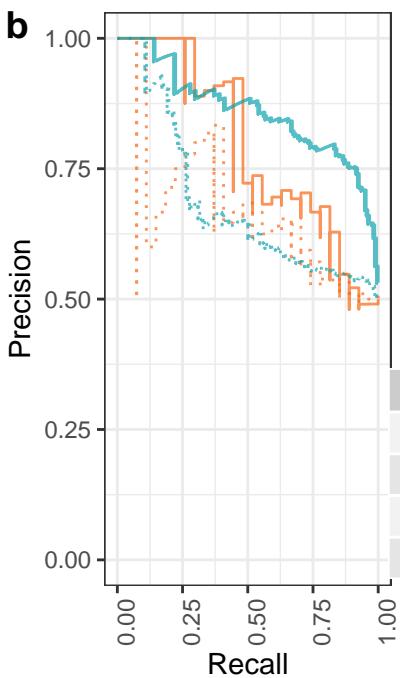
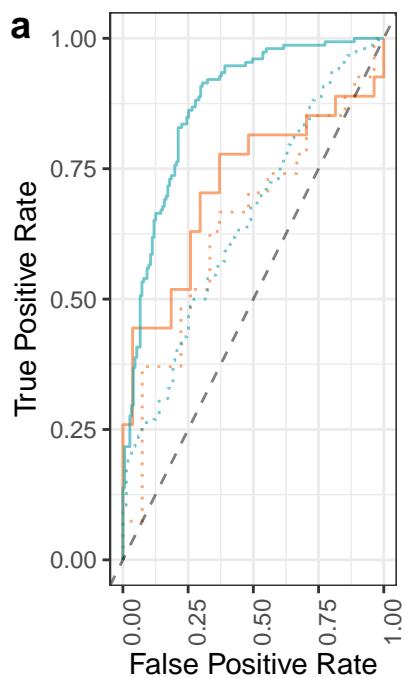


Shuffled

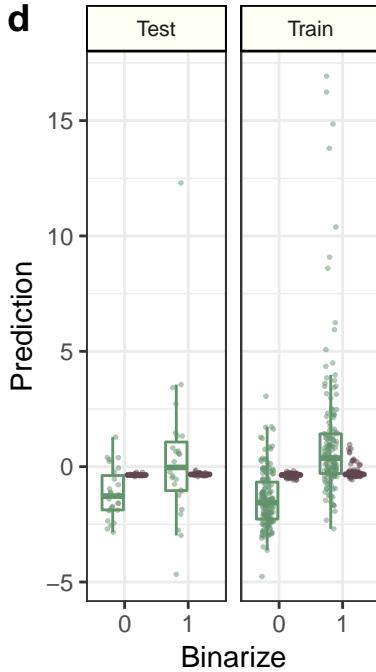
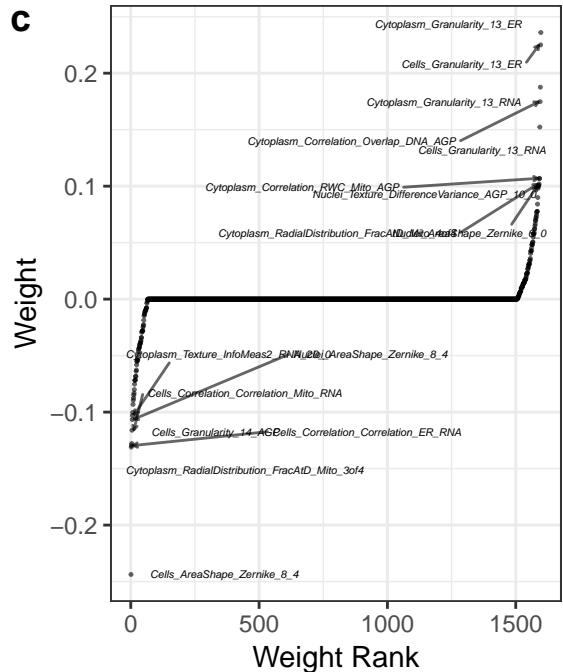
False

True

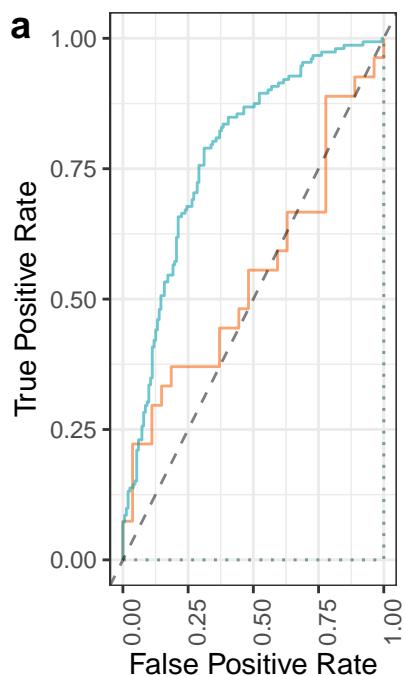
# Performance: vb\_percent\_all\_apoptosis



	auroc	aupr	fit	shuffle	n
Train	0.87	0.86	Train	False	151
Test	0.72	0.78	Test	False	151
Train	0.65	0.68	Train	True	151
Test	0.64	0.67	Test	True	151



# Performance: vb\_percent\_all\_early\_apoptosis



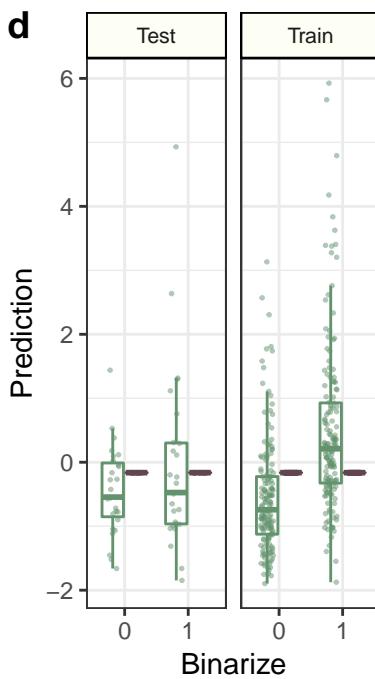
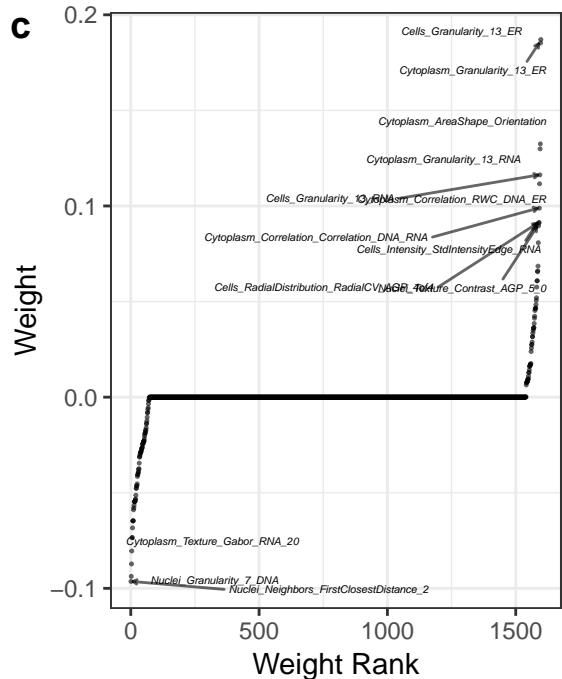
Test  
Train

Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Test	0.78	0.75	Train	False	151
Train	0.55	0.62	Test	False	151
True	0.50	0.50	Train	True	151
False	0.50	0.50	Test	True	151

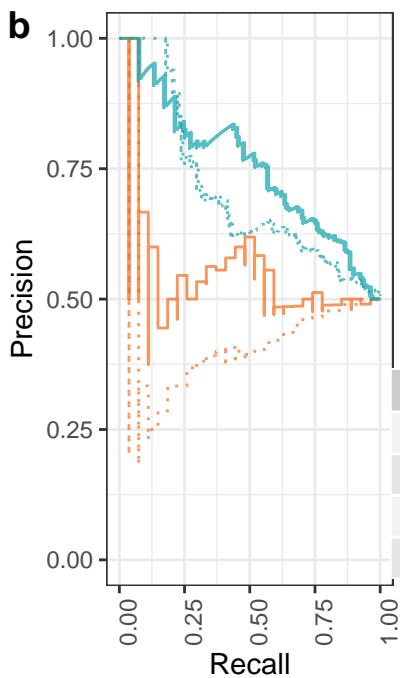
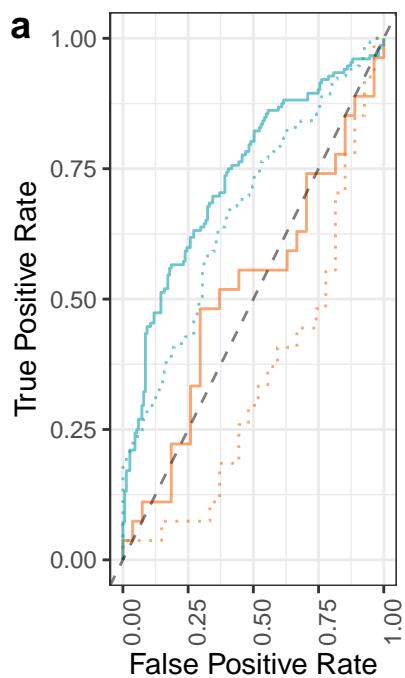


Shuffled

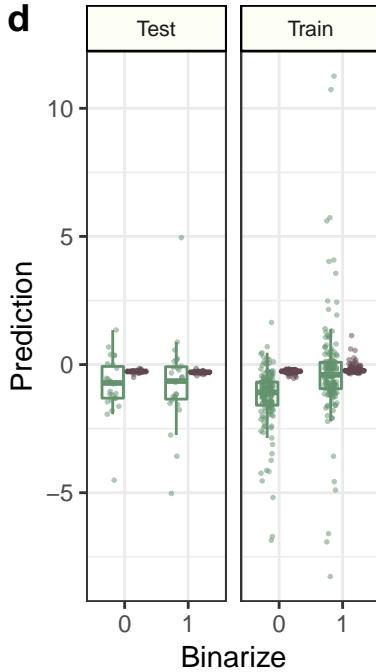
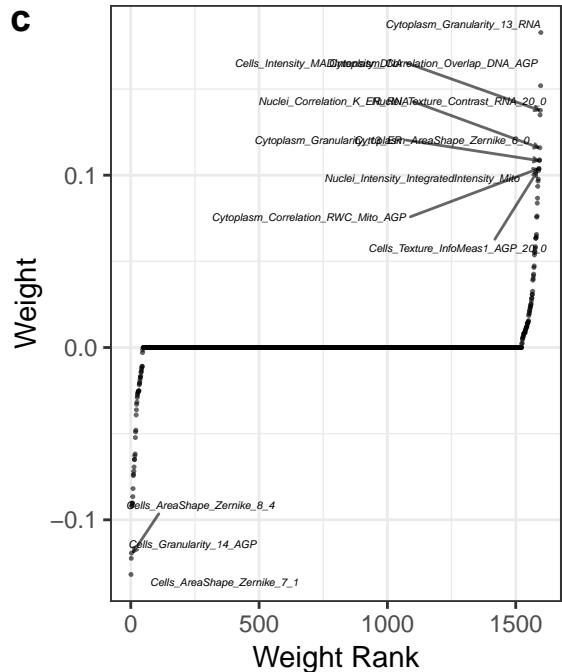
False

True

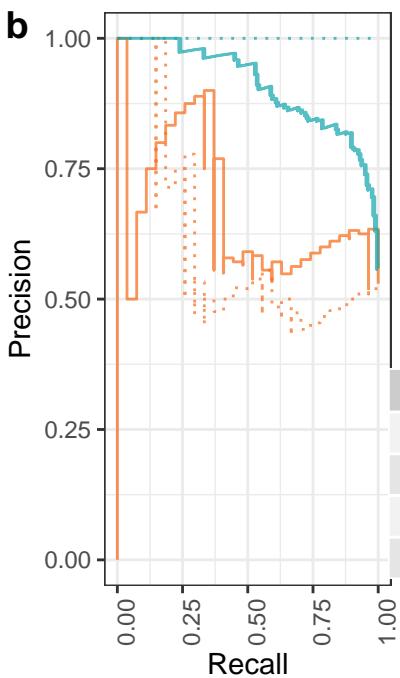
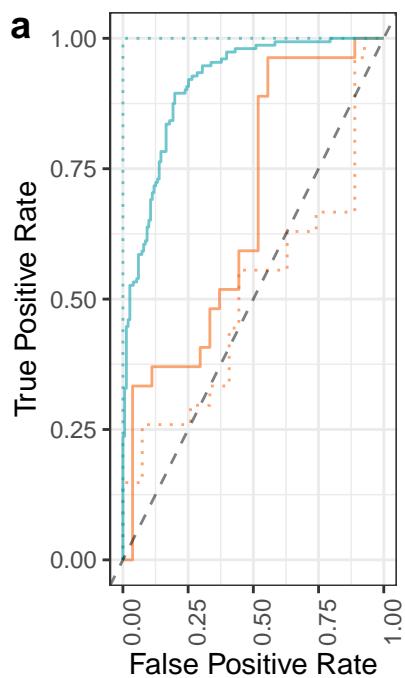
# Performance: vb\_percent\_all\_late\_apoptosis



auroc	aupr	fit	shuffle	n
0.73	0.75	Train	False	151
0.51	0.55	Test	False	151
0.67	0.70	Train	True	151
0.34	0.44	Test	True	151



# Performance: vb\_percent\_caspase\_dead\_only



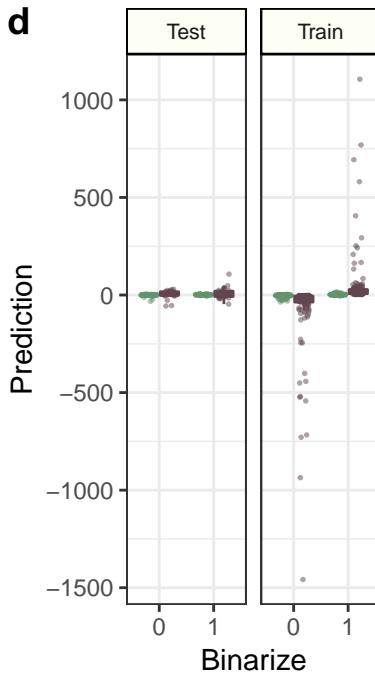
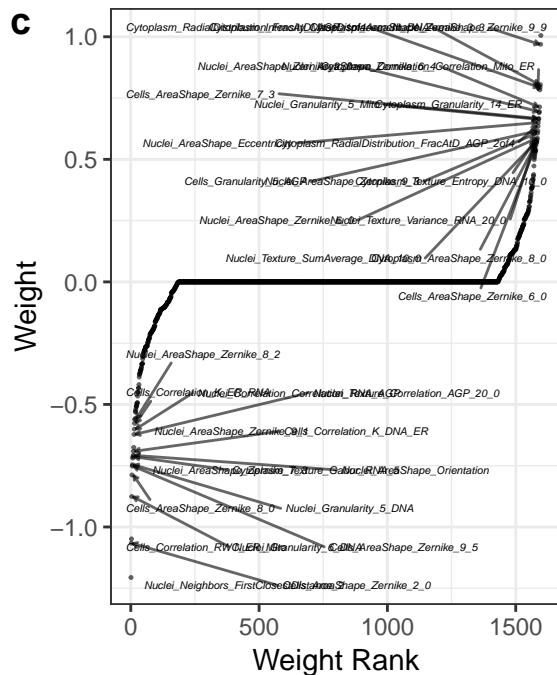
Test  
Train

Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.91	0.91	True	False	151
Test	0.67	0.66	Test	False	151
Train	1.00	1.00	Train	True	151
Test	0.50	0.60	Test	True	151

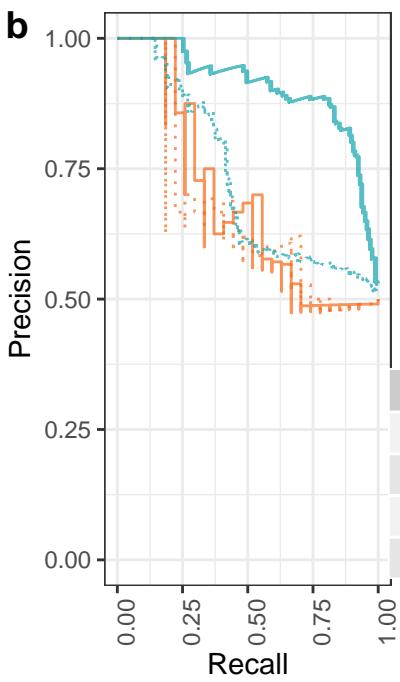
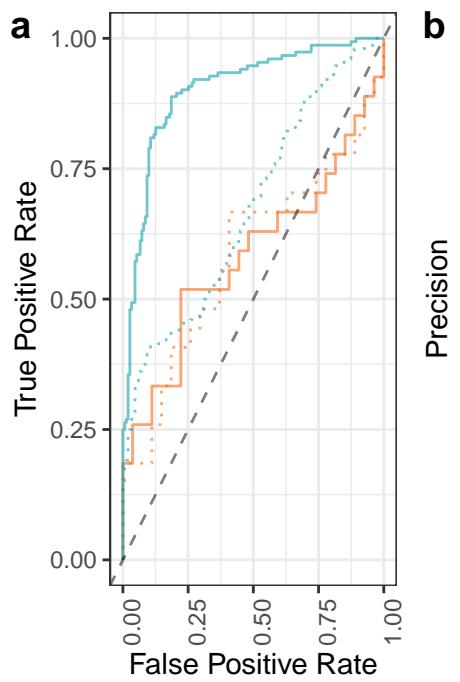


Shuffled

False

True

## Performance: vb\_percent\_dead

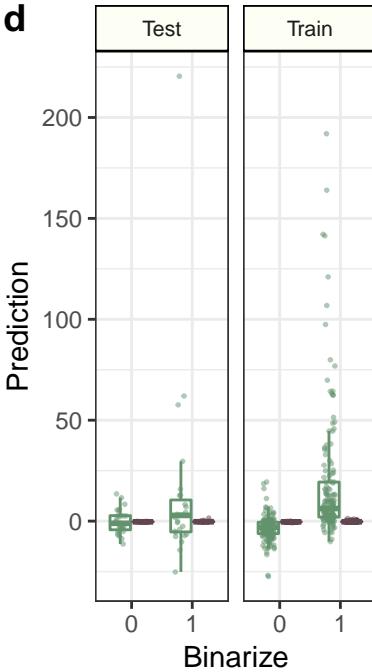
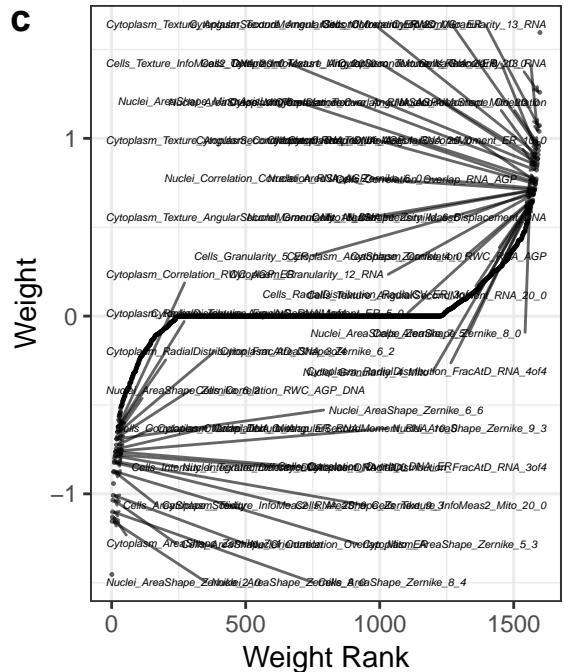


## Shuffled Data

— Real

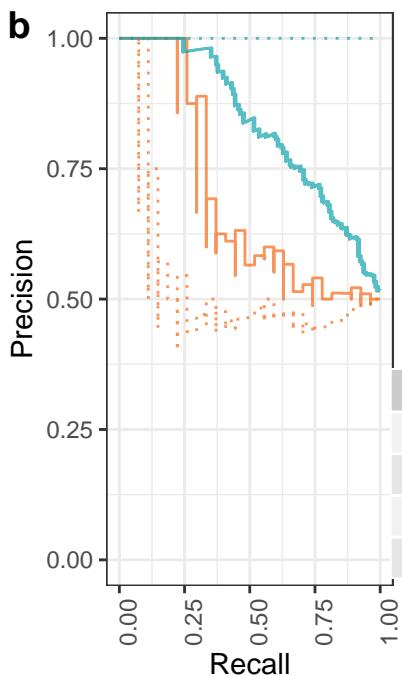
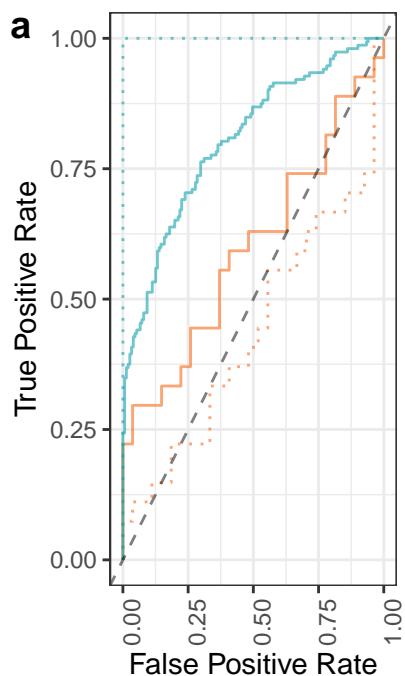
..... Shuffled

auroc	aupr	fit	shuffle	n
0.90	0.90	Train	False	15
0.58	0.67	Test	False	15
0.67	0.72	Train	True	15
0.58	0.66	Test	True	15



Shuffled

# Performance: vb\_percent\_dead\_only

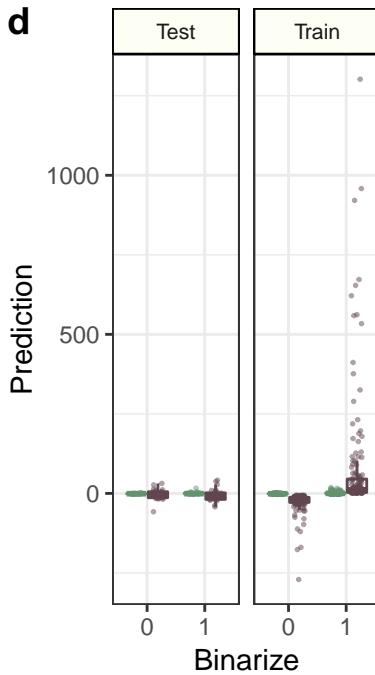
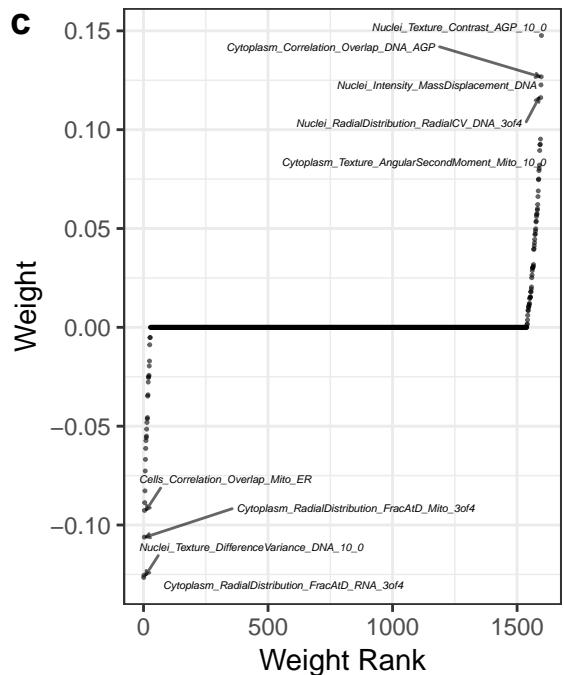


Test  
Train

Shuffled Data

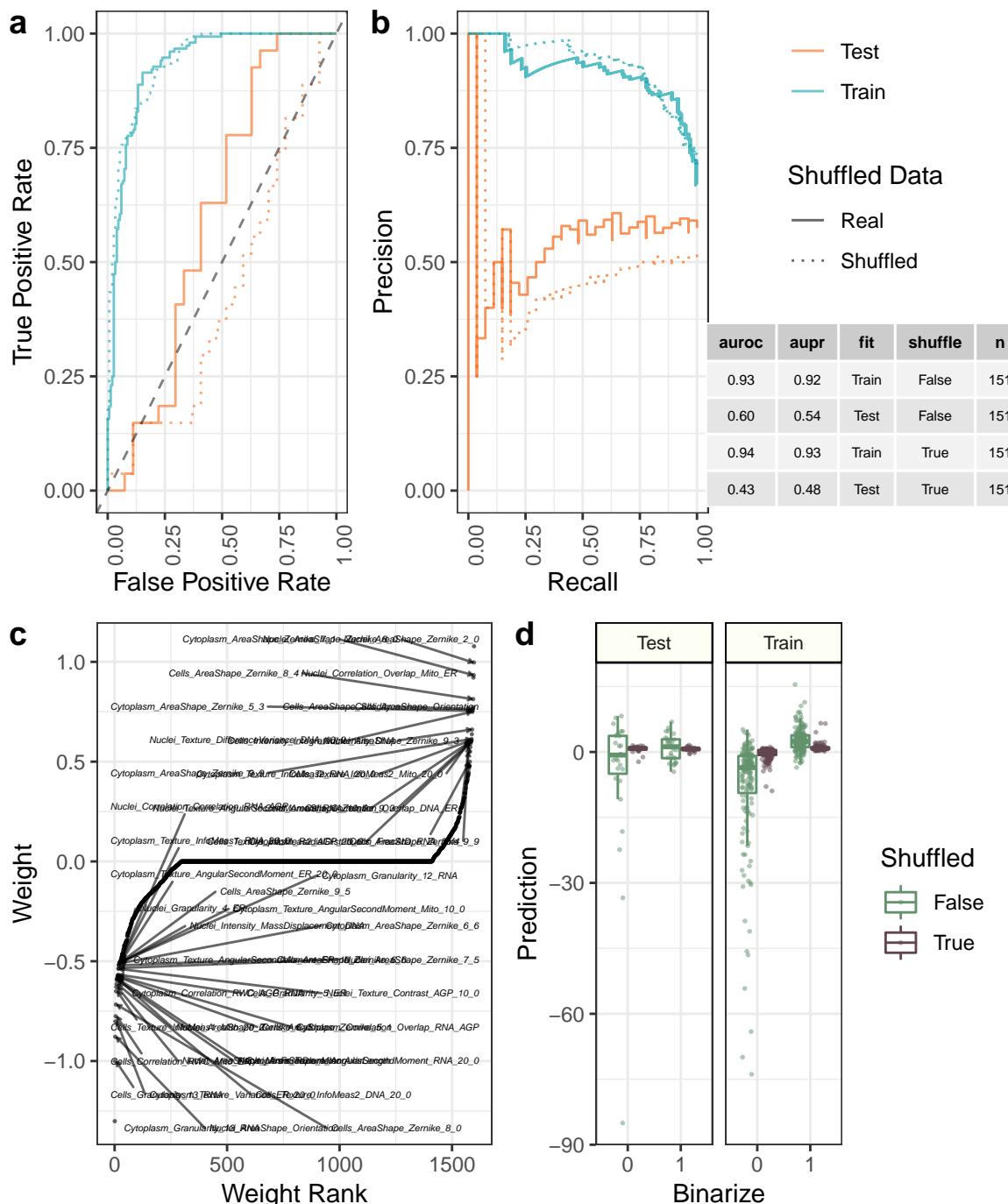
Real  
Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.80	0.83	True	False	151
Test	0.60	0.68	Test	False	151
Train	1.00	1.00	Train	True	151
Test	0.44	0.53	Test	True	151

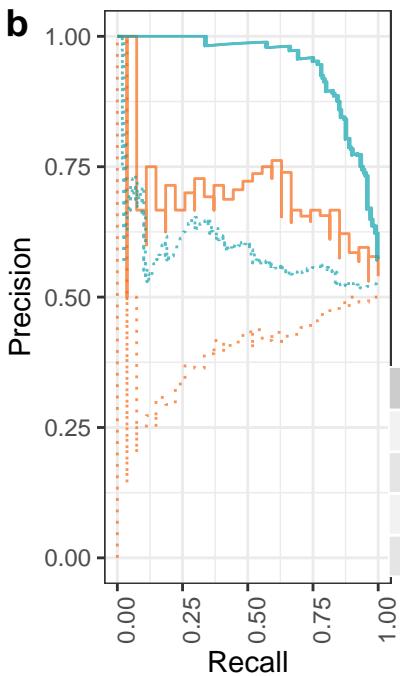
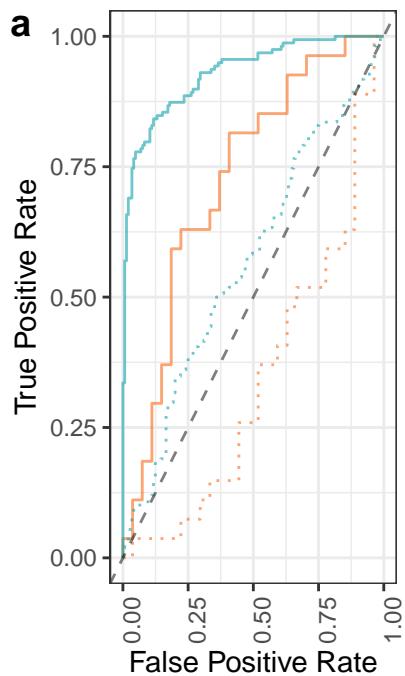


Shuffled  
False  
True

# Performance: vb\_percent\_live



## Performance: vb\_ros\_back\_mean

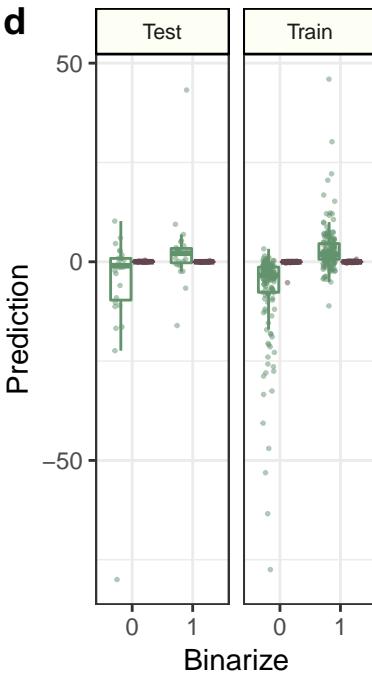
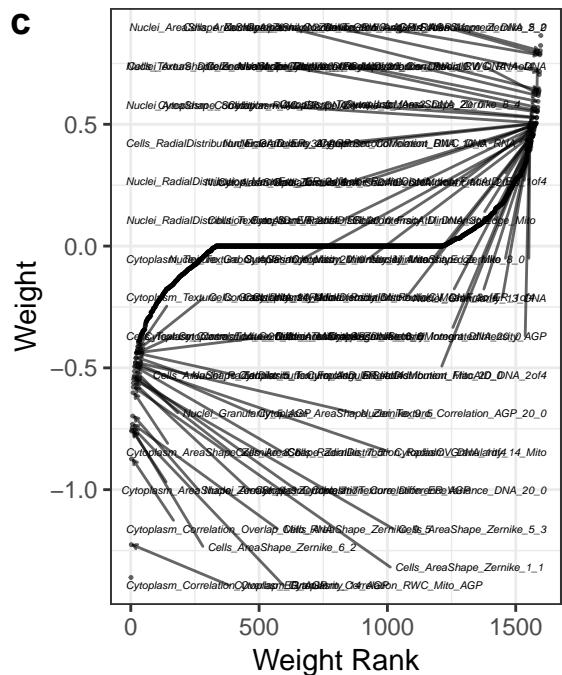


## Shuffled Data

— Real

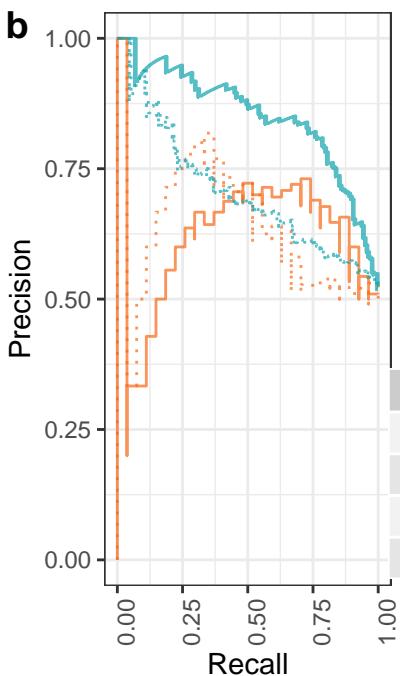
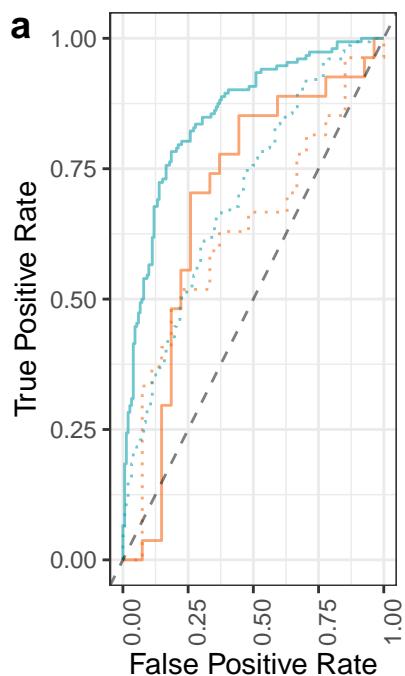
..... Shuffled

auroc	aupr	fit	shuffle	n
0.93	0.94	Train	False	145
0.73	0.69	Test	False	145
0.57	0.59	Train	True	145



Shuffled

# Performance: vb\_ros\_mean



Test  
Train

Shuffled Data

Real

Shuffled

	auroc	aupr	fit	shuffle	n
Train	0.85	0.85	Train	False	151
Test	0.69	0.61	Test	False	151
Train	0.70	0.71	Train	True	151
Test	0.63	0.62	Test	True	151

