Age-Associated Biomarker Study
TCGA Kidney Cancer Males Fisher's Exact Tests

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Table 1: ER binding and age associated gene counts for TCGA Kidney cancer data, Males, FDR 0.05

ER binding	Age association Age associated	Not age associated	Total
ER binding			
N	3	1675	1678
Row(%)	0.18%	99.82%	8.85%
Column(%)	6.67%	8.86%	
Not ER binding			
N	42	17230	17272
Row(%)	0.24%	99.76%	91.15%
Column(%)	93.33%	91.14%	
Total	45	18905	18950
	0.24%	99.76%	

```
##
##  Fisher's Exact Test for Count Data
##
## data:  tab
## p-value = 0.7951
## alternative hypothesis: true odds ratio is not equal to 1
## 95 percent confidence interval:
##  0.1455564 2.3031540
## sample estimates:
## odds ratio
##  0.7347356
```

Table 2: ER binding and age associated gene counts for TCGA Kidney cancer data, Males, FDR 0.01

ER binding	Age association Age associated	Not age associated	Total
ER binding			
N	1	1677	1678
Row(%)	0.06%	99.94%	8.85%
Column(%)	11.11%	8.85%	
Not ER binding			
N	8	17264	17272
Row(%)	0.05%	99.95%	91.15%
Column(%)	88.89%	91.15%	
Total	9	18941	18950
	0.05%	99.95%	

```
##
##  Fisher's Exact Test for Count Data
##
## data:  tab
## p-value = 0.566
## alternative hypothesis: true odds ratio is not equal to 1
## 95 percent confidence interval:
##  0.02898323 9.60828215
## sample estimates:
## odds ratio
##   1.286801
```

Table 3: NKI ER binding and age associated gene counts for TCGA Kidney cancer data, Males, FDR 0.05

| | Age association | | |
ER binding	Age associated	Not age associated	Total
Tier 1			
N	7	2868	2875
Row(%)	0.24%	99.76%	15.17%
Column(%)	15.56%	15.17%	
Tier 2 Only			
N	8	3197	3205
Row(%)	0.25%	99.75%	16.91%
Column(%)	17.78%	16.91%	
Not ER binding			
N	30	12840	12870
Row(%)	0.23%	99.77%	67.92%
Column(%)	66.67%	67.92%	
Total	45	18905	18950
	0.24%	99.76%	

```
##
##  Fisher's Exact Test for Count Data
##
## data:  tab
## p-value = 0.9232
## alternative hypothesis: two.sided
```

Table 4: NKI ER binding and age associated gene counts for TCGA Kidney cancer data, Males, FDR 0.01

| | Age association | | |
ER binding	Age associated	Not age associated	Total
Tier 1			
N	1	2874	2875
Row(%)	0.03%	99.97%	15.17%
Column(%)	11.11%	15.17%	
Tier 2 Only			
N	2	3203	3205
Row(%)	0.06%	99.94%	16.91%
Column(%)	22.22%	16.91%	

ER binding	Age association Age associated	Not age associated	Total
Not ER binding			
N	6	12864	12870
Row(%)	0.05%	99.95%	67.92%
Column(%)	66.67%	67.92%	
Total	9	18941	18950
	0.05%	99.95%	

```
##
##  Fisher's Exact Test for Count Data
##
## data:  tab
## p-value = 0.8768
## alternative hypothesis: two.sided
```