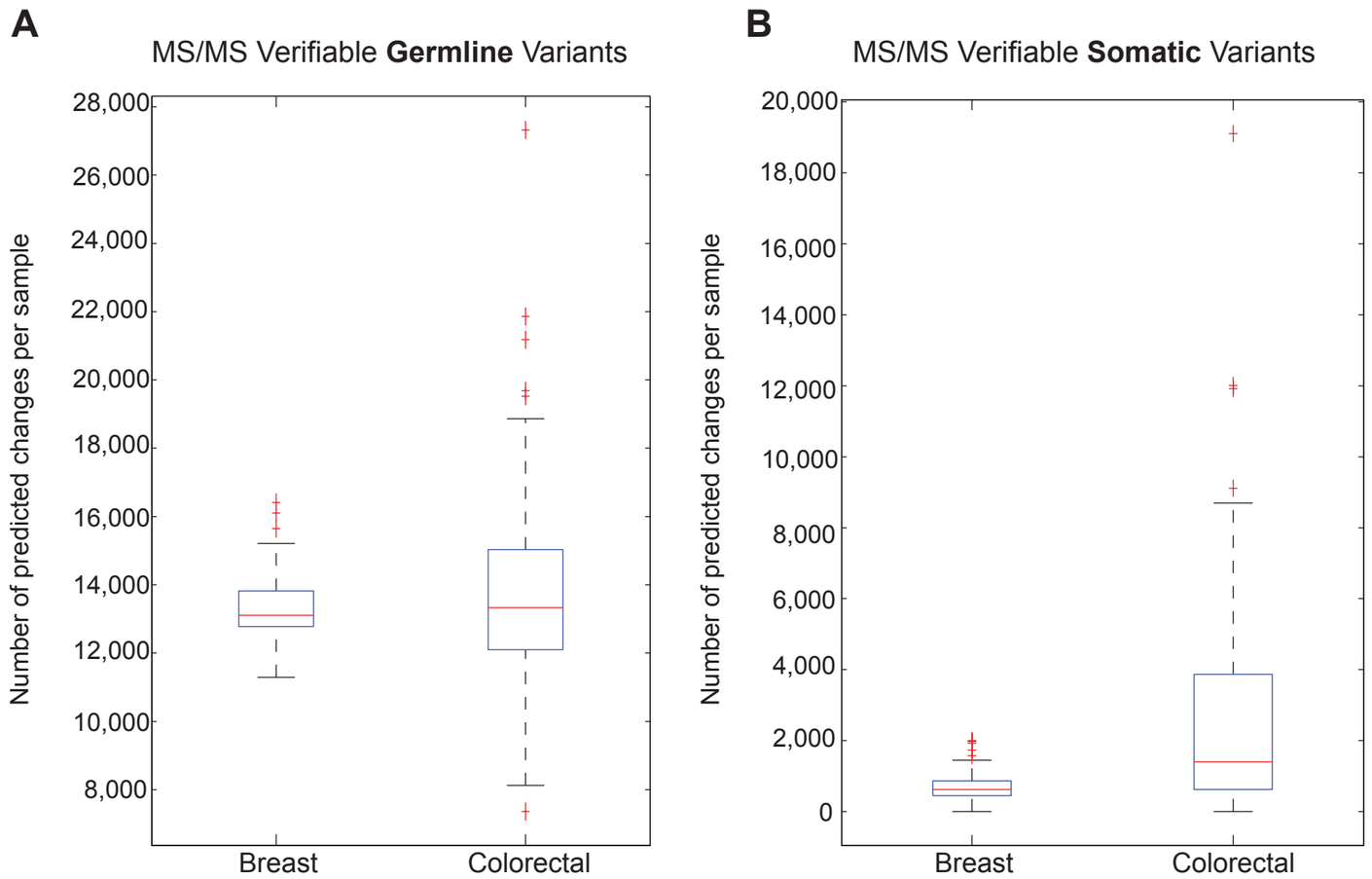

A
MS/MS Verifiable **Germline** Variants
Number of predicted changes per sample
28,000
26,000
24,000
22,000
20,000
18,000
16,000
14,000
12,000
10,000
8,000
Breast
Colorectal
B
MS/MS Verifiable **Somatic** Variants
Number of predicted changes per sample
20,000
18,000
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
Breast
Colorectal

Figure S1

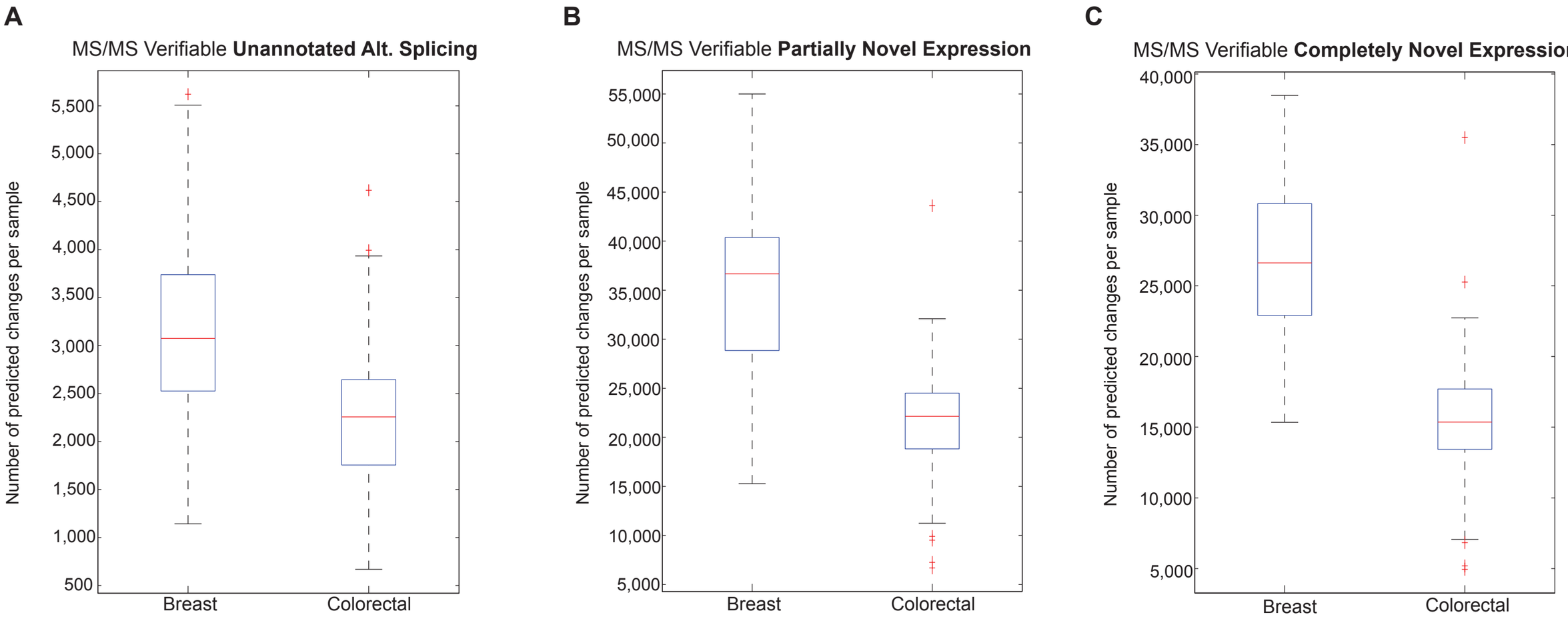
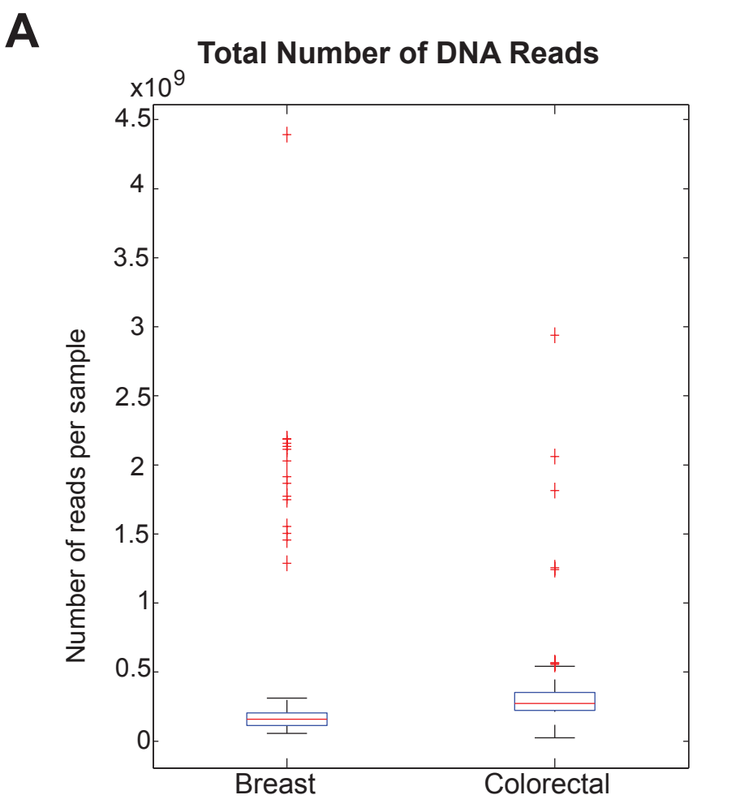
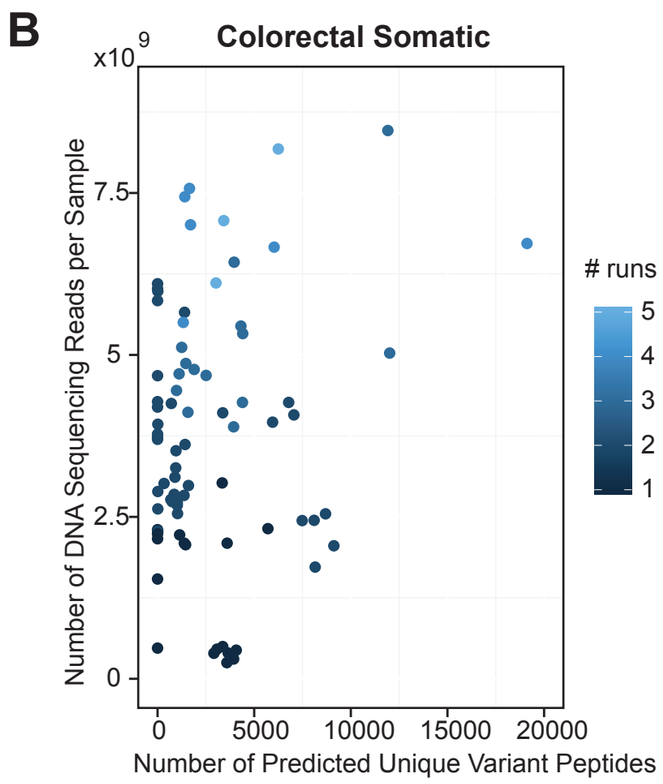
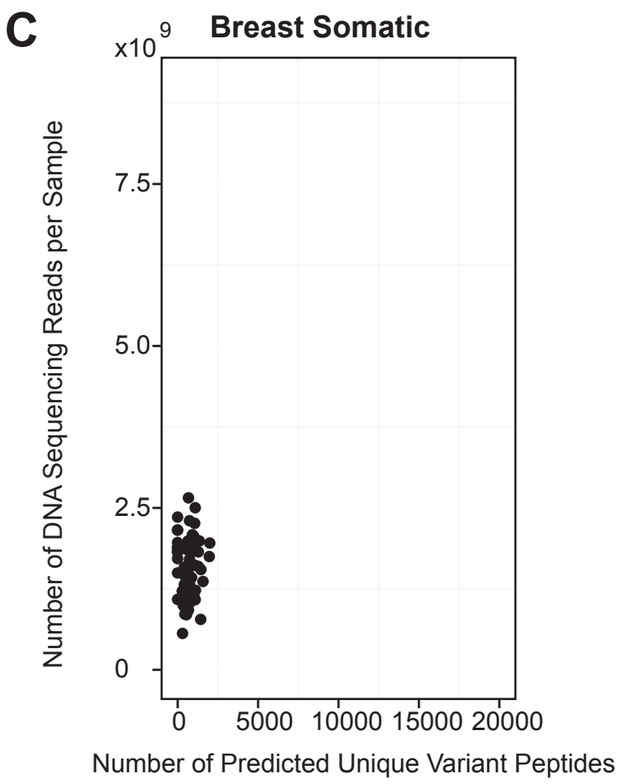
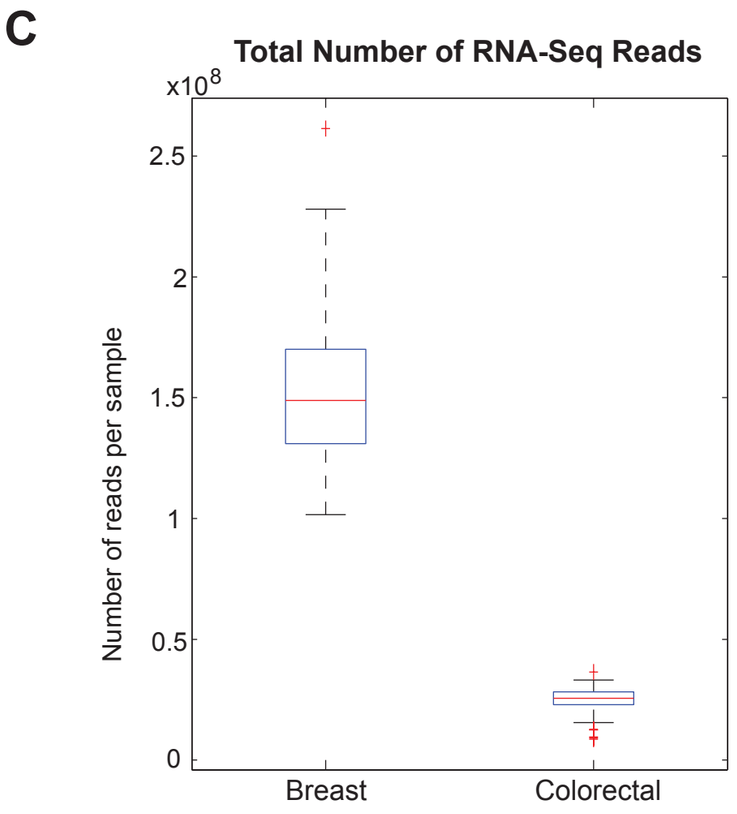

A
MS/MS Verifiable **Unannotated Alt. Splicing**
Number of predicted changes per sample
5,500
5,000
4,500
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
Breast
Colorectal
B
MS/MS Verifiable **Partially Novel Expression**
Number of predicted changes per sample
55,000
50,000
45,000
40,000
35,000
30,000
25,000
20,000
15,000
10,000
5,000
Breast
Colorectal
C
MS/MS Verifiable **Completely Novel Expression**
Number of predicted changes per sample
40,000
35,000
30,000
25,000
20,000
15,000
10,000
5,000
Breast
Colorectal

Figure S2


A
Total Number of DNA Reads
x10^9
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
Number of reads per sample
Breast
Colorectal


B
Colorectal Somatic
x10^9
7.5
5
2.5
0
Number of DNA Sequencing Reads per Sample
0
5000
10000
15000
20000
Number of Predicted Unique Variant Peptides
runs
5
4
3
2
1


C
Breast Somatic
x10^9
7.5
5.0
2.5
0
Number of DNA Sequencing Reads per Sample
0
5000
10000
15000
20000
Number of Predicted Unique Variant Peptides


C
Total Number of RNA-Seq Reads
x10^8
2.5
2
1.5
1
0.5
0
Number of reads per sample
Breast
Colorectal

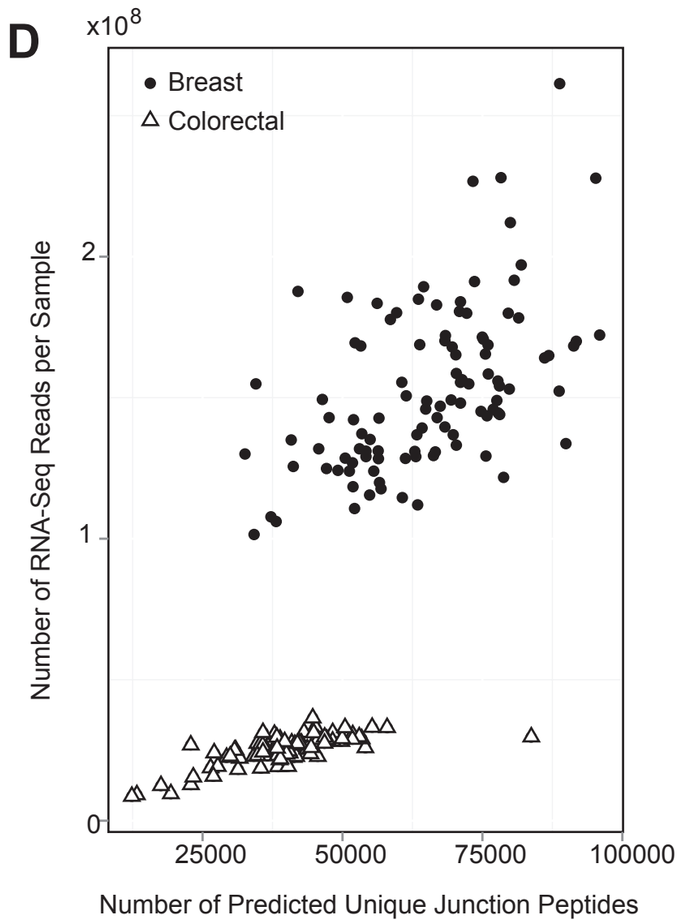

D
x10^8
Breast
Colorectal
2
1
0
Number of RNA-Seq Reads per Sample
25000
50000
75000
100000
Number of Predicted Unique Junction Peptides

Figure S3