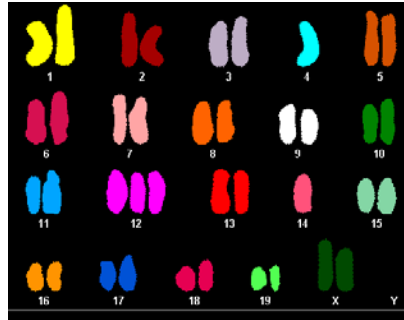
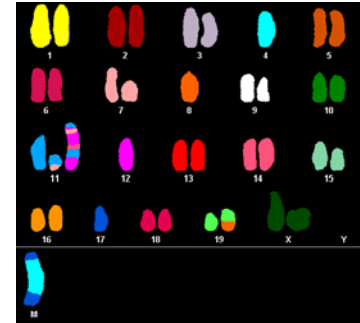


**Chromosome 4
Deletions**



**Chromosomal Deletions,
Duplications, Translocations**



Translocations

Supplemental Figure 1

Supplemental Figure 1. Genomic instability of spontaneous breast tumors in heterozygous mice. A: Chromosomes of primary cells from FVB X BALB-NeuT F1 tumors were examined using SKY. The complement of Chromosome 4 was altered in 100/100 tumor cells examined. Additional gains, losses and translocations were observed at other chromosomes, primarily at Chr 1 and 12.

Supplemental Table 1. Significant Loss of Heterozygosity on each Chromosome in Spontaneous Breast Tumors. Z-scores were calculated from the raw allele intensities of the genotyping data, and absolute values of SNP probes are summarized chromosome-by-chromosome for F1 tumor and normal samples.

Chr	Normal tissue or Tumor	N	Median $\Sigma(\text{abs value})$ zscores/ N probes	Fold-Increase of Tumor Over Normal	Rank Sum P Value (N vs T)
1	N	7	0.736		<.001
1	T	21	2.32	3.2	
2	N	7	0.801		<.001
2	T	21	1.59	2.0	
3	N	7	0.758		<.001
3	T	21	1.56	2.1	
4	N	7	0.786		<.001
4	T	21	7.18	9.1	
5	N	7	0.797		<.001
5	T	21	1.51	1.9	
6	N	7	.767		<.001
6	T	21	1.65	2.2	
7	N	7	0.790		<.001
7	T	21	1.67	2.1	
8	N	7	0.761		<.001
8	T	21	2.06	2.7	
9	N	7	0.793		<.001
9	T	21	1.75	2.2	
10	N	7	0.773		<.001
10	T	21	1.44	1.9	
11	N	7	0.859		<.001

11	T	21	1.81	2.1	
12	N	7	0.786		<.001
12	T	21	1.70	2.2	
13	N	7	0.8.09		<.001
13	T	21	1.69	2.1	
14	N	7	0.790		<.001
14	T	21	1.51	1.9	
15	N	7	0..794		<.001
15	T	21	1.76	2.2	
16	N	7	0.859		<.001
16	T	21	1.90	2.2	
17	N	7	0.731		<.001
17	T	21	1.48	2.0	
18	N	7	0.765		<.001
18	T	21	1.31	1.7	
19	N	7	0.759		<.001
19	T	21	2.04	2.7	
X	N	7	0.756		<.001
X	T	21	1.44	1.9	

Supplemental Table 2. Analyzing genotype data for selection – i.e., a quantitative measurement toward one allele reveals significant loss of BALB/c alleles on chromosome 4. Locus-by-locus analysis used the positive (gain of BALB/c) or negative (loss of BALB/c) Z-scores calculated before. Only probes on chromosome 4 were significantly skewed in 3 of 3 arrays.

Chr	N	Median \sum zscores/ N probes	Rank Sum P Value
4	Normal, 7 Tumor, 21	.0482 -6.67	0.006