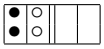
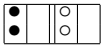
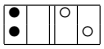
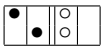
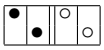
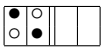
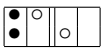
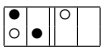
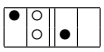
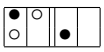
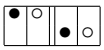
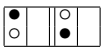
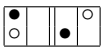
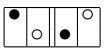
Table S14 Transpose of the recursion matrix for calculating probabilities of two-locus autosomal diplotypes of the form $AA|BB$, in the generation of four-way RIL by sibling mating

State at $k+1$		State at k						
1		2: $\frac{(1-r)^2}{2}$	3: $\frac{r(1-r)}{2}$	4: $\frac{r(1-r)}{2}$	5: $\frac{r^2}{2}$			
2		1: $\frac{(1-r)^2}{2}$	2: $\frac{(1-r)^2}{2}$	3: $\frac{r(1-r)}{2}$	4: $\frac{r(1-r)}{2}$	5: $\frac{r^2}{2}$	6: $\frac{r^2}{2}$	
3		7: $\frac{1-r}{4}$	8: $\frac{r}{4}$					
4		9: $\frac{1-r}{4}$	10: $\frac{r}{4}$					
5		11: $\frac{1}{8}$	12: $\frac{1}{8}$	13: $\frac{1}{8}$	14: $\frac{1}{8}$			
6		12: $\frac{(1-r)^2}{2}$	13: $\frac{r(1-r)}{2}$	14: $\frac{r^2}{2}$				
7		2: $\frac{1-r}{2}$	3: $\frac{1-r}{2}$	4: $\frac{r}{2}$	5: $\frac{r}{2}$	7: $\frac{1-r}{4}$	8: $\frac{r}{4}$	
8		9: $\frac{r}{4}$	10: $\frac{1-r}{4}$	12: $\frac{1-r}{2}$	13: $\frac{1}{4}$	14: $\frac{r}{2}$		
9		2: $\frac{1-r}{2}$	3: $\frac{r}{2}$	4: $\frac{1-r}{2}$	5: $\frac{r}{2}$	9: $\frac{1-r}{4}$	10: $\frac{r}{4}$	
10		7: $\frac{r}{4}$	8: $\frac{1-r}{4}$	12: $\frac{1-r}{2}$	13: $\frac{1}{4}$	14: $\frac{r}{2}$		
11		2: $\frac{1}{8}$	3: $\frac{1}{8}$	4: $\frac{1}{8}$	5: $\frac{1}{8}$	12: $\frac{1}{8}$	13: $\frac{1}{8}$	14: $\frac{1}{8}$
12		1: $\frac{r^2}{2}$	6: $\frac{(1-r)^2}{2}$	12: $\frac{(1-r)^2}{2}$	13: $\frac{r(1-r)}{2}$	14: $\frac{r^2}{2}$		
13		7: $\frac{r}{4}$	8: $\frac{1-r}{4}$	9: $\frac{r}{4}$	10: $\frac{1-r}{4}$			
14		2: $\frac{1}{8}$	3: $\frac{1}{8}$	4: $\frac{1}{8}$	5: $\frac{1}{8}$	11: $\frac{1}{8}$		