

A)

**One-Color
Latin Square**

Genes
G1 G2 G3 G4

Arrays	A1	L1	L2	L3	L4
	A2	L2	L1	L4	L3
	A3	L3	L4	L1	L2
	A4	L4	L3	L2	L1

B)

**Two-Color
Graeco-Latin Square**

Genes
G1 G2 G3 G4

Arrays	A1	gL1 rL1	gL2 rL2	gL3 rL3	gL4 rL4
	A2	gL2 rL4	gL1 rL3	gL4 rL2	gL3 rL1
	A3	gL3 rL2	gL4 rL1	gL1 rL4	gL2 rL3
	A4	gL4 rL3	gL3 rL4	gL2 rL1	gL1 rL2

C)

Pools of Genes

Genes
G1 G2 G3 G4

Pools	W	L1	L2	L3	L4
	X	L2	L1	L4	L3
	Y	L3	L4	L1	L2
	Z	L4	L3	L2	L1

D)

**One-Color
Latin Square**

Pools

Arrays	A1	W
	A2	X
	A3	Y
	A4	Z

E)

**Two-Color Graeco-
Latin Square**

Pools

Arrays	A1	gW, rW
	A2	gX, rZ
	A3	gY, rX
	A4	gZ, rY