

Group Haplotype Sheet

This sheet should be filled out by the Reporter with input from the group as instructed in the MHC Activity Handout. The information on this sheet will then be reported out to the class.

Table 1: Record the numbers of each type of MHC molecule present in your group. For example, if two group members have a red circle and two group members have a blue sphere in position 1, your table should read “Red Circle: 2, Blue Sphere: 2”. Each of you has already recorded this information about your own, personal MHC haplotype, but what we are really interested in is the haplotype of the population as a whole.

MHC #1:	MHC #2:	MHC #3:
Red Circle:	Yellow Hexagon:	Periwinkle Triangle:
Blue Sphere:	Green Pentagon:	Purple 6-pointed star:
	White 3D Hexagon:	Blue 8-pointed star:
	Black 3D Pentagon:	Pink 9-pointed star:
		Orange Square:

Table 2. Fill this table in the same way as you did before, but this time, only include MHC molecules from group members who are still “alive” after the smallpox epidemic. (i.e, if one of the group members who had a red circle has died, you’d now enter “Red Circle: 1, Blue Sphere: 2”.) In addition, record the number of people who are still alive.

MHC #1:	MHC #2:	MHC #3:	Number of survivors:
Red Circle:	Yellow Hexagon:	Periwinkle Triangle:	
Blue Sphere:	Green Pentagon:	Purple 6-pointed star:	
	White 3D Hexagon:	Blue 8-pointed star:	
	Black 3D Pentagon:	Pink 9-pointed star:	
		Orange Square:	

Table 3. Fill this table in the same way as you did before, but this time, only include MHC molecules from group members who are still “alive” after both the smallpox epidemic and the ebola epidemic. In addition, record the number of people who are still alive.

MHC #1:	MHC #2:	MHC #3:	Number of survivors:
Red Circle: Blue Sphere:	Yellow Hexagon: Green Pentagon: White 3D Hexagon: Black 3D Pentagon:	Periwinkle Triangle: Purple 6-pointed star: Blue 8-pointed star: Pink 9-pointed star: Orange Square:	

Table 4. Fill this table in the same way as you did before, but this time, only include MHC molecules from group members who are still “alive” after the smallpox epidemic, the ebola epidemic, and the Mycobacterium tuberculosis epidemic. In addition, record the number of people who are still alive.

MHC #1:	MHC #2:	MHC #3:	Number of survivors:
Red Circle: Blue Sphere:	Yellow Hexagon: Green Pentagon: White 3D Hexagon: Black 3D Pentagon:	Periwinkle Triangle: Purple 6-pointed star: Blue 8-pointed star: Pink 9-pointed star: Orange Square:	