

Biology 4415/5415
Evolution

BIOL 4415/5415

Altruism Selection Lab Data

ROUND 1: No altruism. Mortality after five generations.

	<u>AA (blue)</u>	<u>Aa (green)</u>	<u>aa (pink)</u>
1	1	2	1
2	1	2	2
3	1	3	3
4	2	3	5
5	3	5	6
6	2	4	7
7	3	3	8
8	2	4	9
9	2	4	11
10	2	3	12

ROUND 2: All blue spoons shared food with each other, simulating the effect of a “green beard gene”. Mortality after five generations.

	<u>AA (blue)</u>	<u>Aa (green)</u>	<u>aa (pink)</u>
1	1	2	1
2	2	2	1
3	3	3	1
4	4	4	2
5	6	4	4
6	8	3	4
7	10	3	5
8	11	4	5
9	14	4	4
10	15	5	1

INSTRUCTIONS: Analyze this data in the same way as you did last week’s, and give me the same kind of writeup. How do these results help explain some of the possible evolutionary origins of altruism?