

Collected GEN interp answers

Spring 2005

GEN Day 7 Interpretation Questions (and answers)

GEN Day Seven:

1. (1pt) Interpret your data from Experiment IV-A: Part 1. Some topics to discuss:
 - a. Were the Ara⁻ and Kan^R phenotypes of your mutant strains linked?
If they were linked, then every strain that grew on the Mac Ara Kan plate should be white (Ara⁻). If not, then you'd expect to see red colonies (Ara⁺) on the Mac Ara Kan plate.
 - b. Were the phenotypes of your transductants from the same strain consistent?
If the transposon stayed stably inserted in an ara gene, then all the transductants from the same strain should be consistent. If they were not, it suggests that maybe the transposon "hopped."
 - c. Was the LacZ phenotype the same before and after transduction?
If the Ara⁻ and Kan^R phenotypes were linked, then you would expect that the LacZ phenotype would stay the same (transposon hasn't "hopped").
 - d. Any other observations?
Answers depend on the data.