

# MCB 142 Discussion

Hana Lee

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## 1 Announcements

Due to a scheduling conflict, my office hour this week will be on Friday 2-3 PM, at the cafe in Stanley. Also, Prof. Amacher will be holding office hours on Thursday 12:30-2 PM this week.

I will be sending out a link to fifth-week GSI evaluations over email. Please fill it out by next Monday, September 29.

## 2 Key Concepts

1. Diagram a deletion loop.
2. How do deletions affect calculating map distances?
3. How can you use deletion heterozygotes and the phenomenon of pseudodominance to locate genes?
4. Diagram a duplication loop.
5. What is the difference between pericentric and paracentric inversions?
6. Diagram an inversion loop. Diagram the products of a single crossover from a pericentric inversion and a paracentric inversion.
7. What effect do inversions have on recombination frequency?
8. What are the products of an alternate segregation in a translocation heterozygote?
9. What are the products of an adjacent segregation in a translocation heterozygote and why does it often lead to semisterility?
10. Which chromosomal rearrangements are reversible?