PLSC 731: Paper Review

Ozkan et al – A reconsideration of the domestication geography of tetraploid wheats Questions (reference pages in parentheses)

- 1. What evidence suggests the Fertile Crescent is the center of origin of Western agriculture? (1052)
- 2. What is the evolutionary phylogeny of domesticated tetraploid wheat? (1052)
- 3. What is present distribution of tetraploid wheat? (1053)
- 4. Describe the current molecular theory based on AFLP data regarding the domestication of tetraploid wheat. (1053)
- 5. How does the chloroplast DNA theory of domestication differ from the AFLP based theory? (1053)
- 6. Why was the present experiment performed? (1053)
- 7. Describe the set of genotypes analyzed here. How was the data analyzed? (1053-1057)
- 8. Describe the topology of the NJ tree and how this tree supports theories regarding the domestication of tetraploid wheat. (1057)
- 9. What information can be supplied by principal component analysis (PCA)? (1057-1058)
- 10. What results regarding the domestication of tetraploid wheat can be drawn from the PCA (PC here) analysis? (1058)
- 11. With regard to diversity, why might results from nuclear (AFLP) and chloroplast DNA analyses differ? (1058)
- 12. What molecular evolutionary mechanism might explain the difference between nuclear and chloroplast DNA results? (1059)