

TOPICS AND LECTURE SCHEDULE FOR GENETICS 320, Section A Spring Semester 1984 MWF Schedule 8 A.M. Room 118 Horticulture

Burns, 5th Ed. Chapter

W 18 Jan. 84 1. Introduction

F 20 2. Pre-Mendelian Genetics 1 M 23 3. Cell Division 4 W 25 4. Mendel's First Law: Segregation 2 F 27 5. Backcross 2 M 30 6. Partial dominance and lethals 2 W 1 Feb. 7. Heredity and environment F 3 8. Twins M 6 9. EXAM

W 8 10. Mendel's Second Law: Independent Assortment 3 F 10 11. Dihybrids, trihybrids, and polyhybrids 3

M 13 12. Genetic interactions - epistasis and its molecular basis 3

W 15 13. Mimics

F 17 14. Pedigrees

M 20 15. Pedigree analysis, assign homework Problem I

W 22 16. Sex determination 11 F 24 17. Sex-linkage 12 M 27 18. Principle of the single active X; autosexing

W 29 19. Multiple alleles 7 F 2 Mar. 20. Test of allelism 8 M 5 21. Quantitative inheritance 9 W 7 22. Probability 5 F 9 23. EXAM 12-16 SPRI~ RECESS

M 19 24. X 5

W 21 25. Mating systems 14 F 23 26. Population genetics, assign homework Problem n 14 M 26 27. Selection 14 W 28 28. Blood groups 7,8 F 30 29. MN, Rh, Molecular interactions 8 M 2 April 30. Animal blood groups and why blood groups exist

W 4 31. Linkage and crossing-over 6 F 6 32. Three point linkage tests 6 M 9 33. Mapping genes 6 W 11 34. Recombination in bacteria and phages, transformation and transduction 6 F 13 35. EXAM

M 16 36. Chromosomal alterations 3,11,13 W 18 37. Ploidy 11,13

F 20 38. Physiological and pharmacogenetics, assign Library Report (16), 17 23 EASTER RECESS

W 25 39. DNA chemistry 15,19 F 27 40. Replication 15

M 30 41. Function 16,17 W 2 May 42. RNA - protein synthesis 16,19 F 4 VEISHEA RECESS

M 7 43. Gene regulation

W 9 44. Mutation 18 F 11 45. Extra-nuclear inheritance, transposons 20 FINAL EXAM