

## ***The Analysis of Biological Data - Whitlock and Schluter***

### **Solutions to assignment problems - PLEASE DO NOT POST**

#### **Chapter 1**

10. **(a)** Discrete **(b)** Continuous **(c)** Continuous **(d)** Discrete **(e)** Continuous
11. Observational study. The researcher has no control over which women have miscarriages and which lose their fetus from other causes.
12. **(a)** numerical, discrete (the variable, if not the partners)  
**(b)** numerical, continuous  
**(c)** categorical, ordinal  
**(d)** numerical, continuous  
**(e)** categorical, ordinal  
**(f)** numerical, continuous  
**(g)** categorical, nominal  
**(h)** numerical, discrete  
**(i)** categorical, nominal  
**(j)** numerical, continuous
13. **(a)** Observational study: the individual fish were not assigned to subspecies by the researcher.  
**(b)** Subspecies of fish and wavelength of maximum sensitivity.  
**(c)** The explanatory variable is the subspecies, the response variable is the wavelength of maximum retina sensitivity.
14. **(a)** No. The 500 households selected to receive the survey might be a random sample, but the low completion rate (< 20%) makes the sample a volunteer sample.  
**(b)** Volunteer bias Those who volunteer to respond to a survey on recycling might have different opinions of the program than those who did not respond.
15. **(a)** Omitting cell phones could bias a sample. If younger individuals are more likely to use a cell phone, omitting cell phones would bias the sample towards older individuals. **(b)** Equal chance of being selected.
16. **(a)** The population of interest is coastal Californian population of piñon pine trees.  
**(b)** A single plot was randomly sampled, but trees were not randomly sampled. The multiple trees within the same plot might not be independent, if they are related, of similar age, or share the same environment.
17. The 60 samples are not a random sample. The 6 dives measured on each bird are not independent. The six dive results measured from each bird are likely to be more similar than dive results obtained from six different birds sampled randomly from the population.

# Analysis Of Biological Data Whitlock Assignment Problems

**Maurice George Kendall, Alison G. Doig**

## **Analysis Of Biological Data Whitlock Assignment Problems:**

**The Analysis of Biological Data** Michael C. Whitlock, Dolph Schluter, 2019-11-22 The Analysis of Biological Data provides students with a practical foundation of statistics for biology students Every chapter has several biological or medical examples of key concepts and each example is prefaced by a substantial description of the biological setting The emphasis on real and interesting examples carries into the problem sets where students have dozens of practice problems based on real data The third edition features over 200 new examples and problems These include new calculation practice problems which guide the student step by step through the methods and a greater number of examples and topics come from medical and human health research Every chapter has been carefully edited for even greater clarity and ease of use All the data sets R scripts for all worked examples in the book as well as many other teaching resources are available to qualified instructors see below

**Handbook of Statistical Genomics** David J. Balding, Ida Moltke, John Marioni, 2019-09-10 A timely update of a highly popular handbook on statistical genomics This new two volume edition of a classic text provides a thorough introduction to statistical genomics a vital resource for advanced graduate students early career researchers and new entrants to the field It introduces new and updated information on developments that have occurred since the 3rd edition Widely regarded as the reference work in the field it features new chapters focusing on statistical aspects of data generated by new sequencing technologies including sequence based functional assays It expands on previous coverage of the many processes between genotype and phenotype including gene expression and epigenetics as well as metabolomics It also examines population genetics and evolutionary models and inference with new chapters on the multi species coalescent admixture and ancient DNA as well as genetic association studies including causal analyses and variant interpretation The Handbook of Statistical Genomics focuses on explaining the main ideas analysis methods and algorithms citing key recent and historic literature for further details and references It also includes a glossary of terms acronyms and abbreviations and features extensive cross referencing between chapters tying the different areas together With heavy use of up to date examples and references to web based resources this continues to be a must have reference in a vital area of research Provides much needed timely coverage of new developments in this expanding area of study Numerous brand new chapters for example covering bacterial genomics microbiome and metagenomics Detailed coverage of application areas with chapters on plant breeding conservation and forensic genetics Extensive coverage of human genetic epidemiology including ethical aspects Edited by one of the leading experts in the field along with rising stars as his co editors Chapter authors are world renowned experts in the field and newly emerging leaders The Handbook of Statistical Genomics is an excellent introductory text for advanced graduate students and early career researchers involved in statistical genetics

**Congressional Record** United States. Congress, 1990

**Current Bibliography of Epidemiology**, 1969 Monthly with annual cumulations Comprehensive current index to periodical medical literature intended for use of practitioners investigators and other workers in community

medicine who are concerned with the etiology prevention and control of disease Citations are derived from MEDLARS tapes for Index medicus of corresponding date Arrangement by 2 sections i e Selected subject headings and Diseases organisms vaccines No author index

**Cornell University Courses of Study** Cornell University,2006 Canadian Journal of Fisheries and Aquatic Sciences ,2013 Principles of Ambulatory Medicine Nicholas H. Fiebach, Lee Randol Barker, John Russell Burton, Philip D. Zieve,2007 Updated for its Seventh Edition Principles of Ambulatory Medicine is the definitive reference for all clinicians caring for adult ambulatory patients It provides in depth coverage of the evaluation management and long term course of all clinical problems addressed in the outpatient setting A major focus is on preventive care grounded in excellent patient physician communication This edition features increased coverage of preventive care particularly the impact of genetic testing as a disease predictor For easy reference the book is organized by body system and each chapter begins with an outline of key topics References to randomized controlled clinical trials meta analyses and consensus based recommendations are boldfaced

**Biological Abstracts** Jacob Richard Schramm,1962 **Biophysics and Cancer** Claudio A. Nicolini,1986 Since the early times of the Greek philosophers Leucippus and Democritus and later of the Roman philosopher Lucretius a simple fundamental idea emerged that brought the life sciences into the realm of the physical sciences Atoms after various interactions were assumed to acquire stable configurations that corresponded either to the living or to the inanimate world This simple and unitary theory which has evolved in successive steps to our present time remarkably maintained its validity despite several centuries of alternative vicissitudes and is the foundation of modern biophysics Some of the recent developments of this ancient idea are the discovery of the direct relationship between spatial structures and chemical activity of such molecules as methane and benzene and the later discovery of the three dimensional structure of double helical DNA and of its relationship with biological activity The relationship between the structure of various macromolecules and the function of living cells was one of the most striking advancements of modern science obtained by the cooperation of physicists chemists mathematicians engineers biologists and physicians This crossing of the life and physical sciences has given rise to new and exciting frontiers and to a new synthesis where there is a frequent interconnection of expertise and where there is an exchange of roles among traditionally separated soft and hard sciences Even if knowledge is still transmitted to new generations within univer sities as separate disciplines new knowledge is acquired today in the laboratory by truly interdisciplinary teams

**The Journal of Nutrition** ,1967 Vols 7 42 include the Proceedings of the annual meeting of the American Institute of Nutrition 1st 9th 11th 14th 1934 1942 1947 1950 1st 8th 1934 1941 issued as supplements to the journal **Dissertation Abstracts International** ,1990 *Battelle Technical Review* Battelle Memorial Institute,1963 American Doctoral Dissertations ,1968 Cornell University Description of Courses Cornell University,1976 *Chemical & Process Engineering* ,1954 *CPE.* ,1954 **Chemical and Process Engineering** ,1954 Who's who in the Midwest ,2004 *INIS Atomindeks* ,1980 **Bibliography of Statistical**

**Literature: 1940-1949** Maurice George Kendall, Alison G. Doig, 1965

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