

Multiple Testing

Chapter 5, Lab 4

OpenIntro Biostatistics

Topics

- Experiment-wise error
- Controlling experiment-wise error for correlated data

The previous lab in this chapter introduced the Bonferroni correction as a method for controlling Type I error when conducting pairwise t -tests following an ANOVA. This lab further more formally introduces the multiple testing problem and one specific approach for controlling Type I error (controlling the **experiment-wise error rate**, the probability of making at least one Type I error).

The material in this lab is an extension to Section 5.5 of *OpenIntro Biostatistics*.