

LAB SESSION 6

Outline of lab session:

- follow-up from Lecture 6: last part of GO Example (Amylase data, 6L–19/20)
- review and demonstrations of examples from lecture (from slide 6L–17),
- you work on the exercises on your own,
 - * GO problems: 3.2 (p.62), 4.2 (p.76), 5.1 (p.109), 8.1 (p.166/198), and add7:4 (GO 8.7 (p.202))
 - * note for GO 5.1: use Bonferroni and Holm adjustments instead of Tukey's method,
 - * note suggested order!
- do we want to discuss in class at the end (e.g. 3:30pm)?

What you should be able to do after today's session...

- * for a 1-way ANOVA (or a categorical predictor in a larger model): set up a contrast, compute estimate, standard error and associated sum of squares, and interpret results,
- * apply multiple comparison techniques (Bonferroni, Holm and Scheffé) to pairwise comparisons and contrasts,
- * analyse factorial models using all relevant tools of linear models (e.g., residuals, transformation, contrasts), and as needed assess the statistical significance of and explore interactions between two (or more, less commonly) factors.