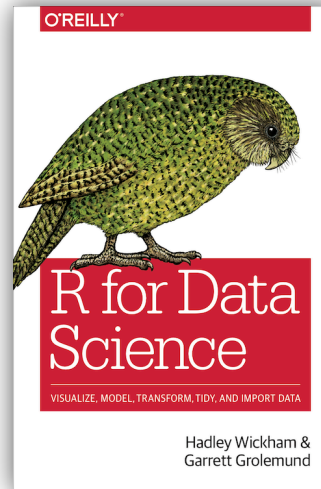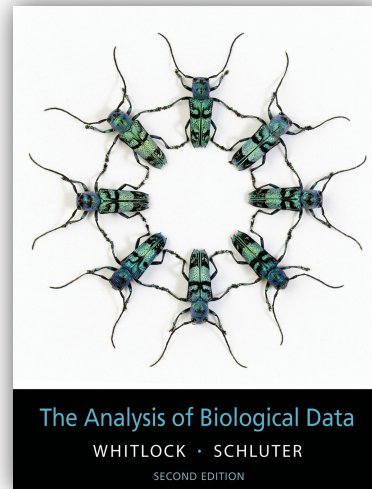# Data Science in Bioinformatics

Palle Villesen & Thomas Bataillon

Wrapping up

- Feedback
- Exam
  - Final assignment returned in time (before dec 12 at noon) and approved
  - List sent to study office
  - Oral exam 20 minutes and list of topics
    - 5 minutes of presentation on the topic
    - Further questions

Topics for the exam

1. Descriptive statistics and their sampling variance
2. Binomial tests: principle, limitation and example of use
3. Goodness of fit tests for continuous and categorical data
4. Use of resampling methods for hypothesis testing and deriving confidence intervals
5. Analysis of contingency tables: principle, limitation and example of use
6. Testing for differences in means: parametric and non parametric approaches
7. Likelihood: principle and example of application
8. ANOVA: principle, limitation and examples of application
9. Correlation & Regression for predicting values and hypothesis testing.