Statistical Bioinformatics

Description: Designed for a one or two semester senior undergraduate or graduate bioinformatics course, Statistical Bioinformatics takes a broad view of the subject - not just gene expression and sequence analysis, but a careful balance of statistical theory in the context of bioinformatics applications. The inclusion of R code as well as the development of advanced methodology such as Bayesian and Markov models provides students with the important foundation needed to conduct bioinformatics.


- Integrates biological, statistical and computational concepts
- Inclusion of R & SAS code
- Provides coverage of complex statistical methods in context with applications in bioinformatics
- Exercises and examples aid teaching and learning presented at the right level
- Bayesian methods and the modern multiple testing principles in one convenient book

Contents: Introduction
Genomics
Probability and Statistical Theory
Special Distributions, Properties and Applications
Statistical Inference and Applications
Nonparametric Statistics
Bayesian Statistics
Markov Chain, Monte Carlo
Analysis of Variance
Design of Experiments
Multiple Testing of Hypotheses

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