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Introduction to Statistical Data Analysis for the Life Sciences

Claus Thorn Ekstrom, Helle Sørensen

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Any practical introduction to statistics in the life sciences requires a focus on applications and computational statistics combined with a reasonable level of mathematical rigor. It must offer the right combination of data examples, statistical theory, and computing required for analysis today. And it should involve R software, the *lingua franca* of statistical computing.

Introduction to Statistical Data Analysis for the Life Sciences covers all the usual material but goes further than other texts to emphasize:

- Both data analysis and the mathematics underlying classical statistical analysis
- Modeling aspects of statistical analysis with added focus on biological interpretations
- Applications of statistical software in analyzing real-world problems and data sets

Developed from their courses at the University of Copenhagen, the authors imbue readers with the ability to model and analyze data early in the text and then gradually fill in the blanks with needed probability and statistics theory. While the main text can be used with any statistical software, the authors encourage a reliance on R. They provide a short tutorial for those new to the software and include R commands and output at the end of each chapter. Data sets used in the book are available on a supporting website.

Each chapter contains a number of exercises, half of which can be done by hand. The text also contains ten case exercises where readers are encouraged to apply their knowledge to larger data sets and learn more about approaches specific to the life sciences. Ultimately, readers come away with a computational toolbox that enables them to perform actual analysis for real data sets as well as the confidence and skills to undertake more sophisticated analyses as their careers progress.

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