



Experimental Design for the Life Sciences

Graeme Ruxton, Nick Colegrave

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At the core of good research lies the careful design of experiments. Yet all too often a successful design comes only after a painful trial-and-error process, wasting valuable time and resources.

Experimental Design for the Life Sciences teaches the reader how to effectively design experiments to ensure today's students are equipped with the skills they need to be the researchers of tomorrow. With a refreshingly approachable and articulate style, the book explains the essential elements of experimental design in clear, practical terms, so the reader can grasp and apply even the most challenging concepts, including power analysis and pseudoreplication.

The inter-relatedness of experimental design, statistics, and ethical considerations is emphasised throughout the book. The use of examples drawn from the primary literature ensures the reader fully understands how the theory of experimental design is applied within the broader context of real biological research.

Above all, Experimental Design for the Life Sciences demonstrates how good experimental design relies on clear thinking and biological understanding, not mathematical or statistical complexity - putting it at the heart of any biosciences student's education.

- Self-test questions, with answers at the end of the book, encourage students to check their understanding as they progress and reinforce essential facts
- Take-home messages throughout chapters focus the students' attention on the principles they must grasp
- Discussion of ethical issues, flagged in the margin, raises awareness of this important aspect of experimental design

Online Resource Centre

The Online Resource centre to accompany Experimental Design for the Life Sciences features:

For students:

Self-test questions and answers

Extra questions

Links to useful websites and free software

For lecturers:

Figures from the book, available to download Practical exercises - to be used in class, with instructor's and demonstrator's notes, handouts for students, files to run the exercises, and follow-up activities

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Experimental Design for the Life Sciences can be one of your beginning books that are good idea. We recommend that straight away because this guide has good vocabulary that can increase your knowledge in vocab, easy to understand, bit entertaining but delivering the information. The article author giving his/her effort to set every word into pleasure arrangement in writing Experimental Design for the Life Sciences nevertheless doesn't forget the main position, giving the reader the hottest along with based confirm resource data that maybe you can be certainly one of it. This great information may drawn you into fresh stage of crucial contemplating.

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