

'A well-presented, clearly argued, concise, and witty introduction to one of the most important topics in the life sciences.'

Nick Royle, School of Biosciences, Exeter University

'I hope that by teaching experimental design to students with this book they can avoid the mistakes that I made. I would have loved to have such a book in this phase of my scientific career.'

Mariet Hefting, Institute of Environmental Biology, Utrecht University

'I think it is splendid; it is the sort of short and concise text which students remember for a long time and which they hang on to long after the course is passed.'

Bernt Wolther, Department of Fisheries and Marine Biology, University of Bergen

Good experimental design is about clear thinking and biological understanding, not mathematical or statistical complexity. It lies at the core of good research and should be at the heart of any bioscience education. 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 equips the students of today with the skills needed to become the researchers of tomorrow. With a refreshingly approachable and articulate style, the book explains the essential elements of experimental design in clear, practical terms, enabling you to grasp and apply even the most challenging concepts.

Emphasizing throughout the interrelatedness of experimental design, statistics, and ethical considerations, the book ensures that you truly understand experimental design in its broader context of biological research, using diverse examples to show how the theory can be applied in active research.

- The only undergraduate text devoted to experimental design for the life sciences, making this essential aspect of biosciences education truly accessible
- A broad range of examples, drawn from the literature and from the authors' own extensive experience, illustrate the practical relevance of experimental design to students across the biosciences
- Extensive learning tools throughout make it ideal for self-study, as support for lectures, or as a refresher of key concepts during research

New to this edition

- New section on identifying questions worth answering, and turning such questions into hypotheses and, ultimately, experiments
- Expanded coverage of between-individual variation, replication, statistical power, and performing observational studies
- More topical examples from a broader range of fields in the life sciences, including biomedical sciences
- Online Resource Centre expanded to include fully worked examples of investigative exercises and links to useful web resources and free software.



online resource centre

www.oxfordtextbooks.co.uk/orc/ruxton3e/

For students:

- Self-test questions and answers
- Extra questions
- Links to useful websites and free software

For registered adopters of the book:

- Figures from the book, available to download
- Fully supported examples of practical exercises

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