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Biomeasurement: A student's guide to biological statistics

Dawn Hawkins

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Dawn Hawkins : Biomeasurement: A student's guide to biological statistics before purchasing it in order to gauge whether or not it would be worth my time, and all praised Biomeasurement: A student's guide to biological statistics:

Statistical analysis allows us to attach meaning to data which we have collected; it helps us to understand what results really mean, and to assess whether we can trust what experiments seem to be telling us. Yet, despite being a collection of the most valuable and important tools available to bioscientists, statistics is the aspect of study which most students fear more than any other. Biomeasurement offers a refreshing, student-focused introduction to the use of statistics in the study of the biosciences. With an emphasis on why statistical techniques are essential tools for bioscientists, the book removes the stigma attached to statistics by giving students the confidence to use and further explore the key techniques for themselves. The book starts by placing the role of data analysis in the context of wider scientific method,

and introduces the student to the key terms and concepts which are common to all statistical tools. It then guides the student through descriptive statistics, and on to inferential statistics, explaining how and why each type of technique is used, and what each can tell us in order to better understand our data. The book goes on to present the key statistical tests, walking the student step-wise through the use of each, with carefully integrated examples, and plentiful opportunities for hands-on practice. The book closes with an overview of choosing the right test to suit your data, and tools for presenting data and their statistical analysis.

"Biomeasurement really is a 'top-notch' text on statistics for Biologists. I wish it had been written before I planned my own course!" -- Mark Winterbottom, *Journal of Biological Education*, Vol. 40, No. 2, Spring 2006 "A 'must purchase' for biologists interested in statistics. Oh, that I had had the benefit of being taught by Dawn Hawkins!" -- Basil Jarvis, *Biologist*, Vol. 52, No. 3 "This is a very user-friendly introduction to statistical methods for first-year undergraduate biology students." -- *The Quarterly of Biology* About the Author Dawn Hawkins is Senior Lecturer in the Department of Life Sciences at Anglia Ruskin University, Cambridge.