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18–24 July

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21–27 July

Design and Analysis of Genetic-based Association Studies
23–27 August

WORKSHOPS

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10–12 May

Proteomics Bioinformatics
12–18 December

OVERSEAS COURSES

Working with Pathogen Genomes
Ho Chi Minh City, Vietnam
23 February–6 March

Genomic Epidemiology of Malaria
Bangkok, Thailand
23 August–4 September

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Computational Cell Biology
10–14 February

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Training workshop 17–18 March
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Genomic Disorders
24–27 March

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6–9 June

Genomics of Malaria Epidemiology
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Sub Nuclear Structures and Disease
27–30 July

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11–15 August

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22–26 August

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Statistics at the Bench

A Step–by–Step Handbook for Biologists

By Martina Bremer, Department of Mathematics, San Jose State University, California, and Rebecca W. Doerge, Department of Statistics and Agronomy, Purdue University, Indiana

Statistics at the Bench is a convenient bench-side companion for biologists, designed as a handy reference guide for elementary and intermediate statistical analyses. The expectations for biologists to have a more complete understanding of statistics are growing rapidly. New technologies and new areas of science, such as microarrays, next-generation sequencing, and proteomics, have dramatically increased the need for quantitative reasoning among biologists when designing experiments and interpreting results. Even the most routine informatics tools rely on statistical assumptions and methods that need to be appreciated if the scientific results are to be correct, understood, and exploited fully.

This book is not a textbook. It is a hands-on manual for working scientists. Statistics at the Bench provides a simple refresher for those who have forgotten what they once knew, and an overview for those wishing to use more quantitative reasoning in their research. Statistical methods, as well as guidelines for the interpretation of results, are explained using simple examples. Throughout the book, examples are accompanied by detailed Excel commands for easy reference.

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Concealed wire binding $59

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The second edition of "Live Cell Imaging: A Laboratory Manual" expands upon and extends the collection of established and evolving methods for studying dynamic changes in living cells and organisms presented in the well-known first edition. There are 16 new chapters and the 21 updated chapters in this new edition. They include advances in atomic force microscopy, structured illumination microscopy and other 3-D approaches, as well as imaging in single cells in animals and in plants. New analytical options include live high-throughput/high-content screening in mammalian cells and computational analysis of live cell data. The manual presents hands-on techniques as well as background material, and can serve as a text in advanced courses. The first section covers principles and fundamental issues of detection and imaging; the second provides detailed protocols for imaging live systems.

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