

Bioinformatics

The Impact of Accurate Quantification on Proteomic and Genetic Analysis and Research

This new book provides a valuable and informative overview of the field of bioinformatics and statistical methodology. The chapters show various approaches to bias correction and error estimation, as well as quantitative methods for genome and proteome analysis. The book covers RNA-Seq, microarrays, various genome-wide association studies, and proteomics.

The book

- introduces bioinformatic and statistical methodology
- shows approaches to bias correction and error estimation
- presents quantitative methods for genome and proteome analysis

ABOUT THE EDITOR

As a bioinformatician, **Dr. Yu Liu's** research has been centered on the development and application of computational tools for study of complex diseases. He is familiar with data generated from microarray, next generation sequencing, and high-resolution mass spectrometry, and he has extensive experience for developing bioinformatics tools and system biology approaches to study complex diseases, such as sleep apnea, neurodegenerative diseases, and cancers. More recently, he has developed a systems biology approach that enables the discovery of high-level disease mechanisms and provides testing hypotheses for further research. Currently, he is a senior research associate in Center for Proteomics and Bioinformatics of Case Western Reserve University, Cleveland, Ohio. He received his PhD in Bioinformatics from Montreal University, Montreal, Canada, and had postdoc training at the University of Toronto, Canada.



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