



## Strategies in Biomedical Data Science: Driving Force for Innovation (Wiley and SAS Business Series)

By Jay A. Etchings

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**Strategies in Biomedical Data Science: Driving Force for Innovation (Wiley and SAS Business Series)** By Jay A. Etchings

**An essential guide to healthcare data problems, sources, and solutions**

*Strategies in Biomedical Data Science* provides medical professionals with much-needed guidance toward managing the increasing deluge of healthcare data. Beginning with a look at our current top-down methodologies, this book demonstrates the ways in which both technological development and more effective use of current resources can better serve both patient and payer. The discussion explores the aggregation of disparate data sources, current analytics and toolsets, the growing necessity of smart bioinformatics, and more as data science and biomedical science grow increasingly intertwined. You'll dig into the unknown challenges that come along with every advance, and explore the ways in which healthcare data management and technology will inform medicine, politics, and research in the not-so-distant future. Real-world use cases and clear examples are featured throughout, and coverage of data sources, problems, and potential mitigations provides necessary insight for forward-looking healthcare professionals.

Big Data has been a topic of discussion for some time, with much attention focused on problems and management issues surrounding truly staggering amounts of data. This book offers a lifeline through the tsunami of healthcare data, to help the medical community turn their data management problem into a solution.

- Consider the data challenges personalized medicine entails
- Explore the available advanced analytic resources and tools
- Learn how bioinformatics as a service is quickly becoming reality
- Examine the future of IOT and the deluge of personal device data

The sheer amount of healthcare data being generated will only increase as both biomedical research and clinical practice trend toward individualized, patient-specific care. *Strategies in Biomedical Data Science* provides expert insight into the kind of robust data management that is becoming increasingly critical as

healthcare evolves.

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## **Editorial Review**

### **From the Inside Flap**

The ability to apply data science to the biomedical field unlocks the door to boundless innovation and advances in personalized medicine. However, much of the potentially groundbreaking insight big data provides gets lost in translation or goes overlooked due to a lack of transdisciplinary knowledge. *Strategies in Biomedical Data Science* is the bridge IT professionals need to understand biomedicine, and doctors and researchers need to realize what data and today's advanced technical tools can do for them.

This forward-thinking guide for everyone working with biomedical data gives you a way to conceptualize biology, analytics, and IT without having prior training or expertise in any of them. IT and biomedical professionals from the lab to the C-suite will gain a high-level foundation of key concepts in data management and biomedical sciences that enables them to solve real-world human problems and improve patient outcomes. Coverage of cutting-edge applications and technologies throughout the book is reinforced with both case uses demonstrating how they function and case studies looking into how specific organizations use them to overcome challenges. A deep and diverse collection of contributors who practice and study where IT and medicine converge provide a full perspective on the challenges, available solutions, and future potential in the industry. Immediately get a leg up by understanding how to:

- Efficiently gather data from disparate data sources for effective analysis
- Get the most out of the latest and preferred analytic resources and technical tool sets
- Intelligently examine bioinformatics as a service, including the untapped possibilities for medical and personal health devices

Data management is the cornerstone of future advances in individualized, patient-specific care, and this complete examination also delves into the operational ways continued advances will evolve medicine, politics, and education, including new professional positions and best practices. Medicine has not had the benefit of big data very long, and *Strategies in Biomedical Data Science* is your quick and complete jump-start to discover what you have been missing.

### **From the Back Cover**

#### **Praise for *Strategies in Biomedical Data Science***

"There is no doubt that Biology and Medicine are now fundamentally 'Data Sciences' and that the greatest breakthroughs will come from individuals and organizations who have learned how to integrate and master the digital universe of biomedical data. This book offers practical insights and examples on how to leverage emerging technologies to solve the biomedical data science challenges of today and tomorrow."

—**Joel T. Dudley, PhD**, Director, Center for Biomedical Informatics, Mount Sinai School of Medicine; Assistant Professor, Department of Genetics and Genomic Sciences, Mount Sinai School of Medicine; Co-founder and Scientific Advisor, Ontomics, Inc.

"At the heart of all quality science is quality data. Jay's book takes a brilliant step forward in sharing and defining best practices for modern healthcare data and bioinformatics."

—**Daniel Rogers, PhD**, Department of Anthropology, National Museum of Natural History, Smithsonian Institution

"A scalable pool of reusable IT Infrastructure is the foundation for the data analytics powering next-generation healthcare. While there are many determining factors driving health informatics, composable infrastructure is critical in creating the economics necessary for pervasive patient and social benefits."  
—**Steve Tepedino**, President and CEO, IT Partners

About the Author

**JAY A. ETCHINGS** is the director of operations at Arizona State University's Research Computing program, where he is responsible for developing innovative architectures to progress fluid technical environments supporting highly computational workloads, peta-scale data analysis, next-generation cyber capabilities, and emerging network innovations.

## Users Review

### From reader reviews:

#### **Beth Ritchey:**

Have you spare time for any day? What do you do when you have much more or little spare time? Yes, you can choose the suitable activity to get spend your time. Any person spent their very own spare time to take a stroll, shopping, or went to typically the Mall. How about open as well as read a book titled Strategies in Biomedical Data Science: Driving Force for Innovation (Wiley and SAS Business Series)? Maybe it is to get best activity for you. You recognize beside you can spend your time with the favorite's book, you can smarter than before. Do you agree with it has the opinion or you have various other opinion?

#### **Tom Baptist:**

The experience that you get from Strategies in Biomedical Data Science: Driving Force for Innovation (Wiley and SAS Business Series) is a more deep you looking the information that hide within the words the more you get serious about reading it. It does not mean that this book is hard to understand but Strategies in Biomedical Data Science: Driving Force for Innovation (Wiley and SAS Business Series) giving you buzz feeling of reading. The copy writer conveys their point in a number of way that can be understood by simply anyone who read this because the author of this guide is well-known enough. This specific book also makes your own personal vocabulary increase well. It is therefore easy to understand then can go along with you, both in printed or e-book style are available. We highly recommend you for having this Strategies in Biomedical Data Science: Driving Force for Innovation (Wiley and SAS Business Series) instantly.

#### **Tammy Robinson:**

The reason? Because this Strategies in Biomedical Data Science: Driving Force for Innovation (Wiley and SAS Business Series) is an unordinary book that the inside of the publication waiting for you to snap this but latter it will jolt you with the secret that inside. Reading this book adjacent to it was fantastic author who all write the book in such awesome way makes the content within easier to understand, entertaining technique but still convey the meaning thoroughly. So , it is good for you because of not hesitating having this any longer or you going to regret it. This amazing book will give you a lot of positive aspects than the other book possess such as help improving your talent and your critical thinking way. So , still want to hold up having

that book? If I ended up you I will go to the guide store hurriedly.

**Jennifer Bell:**

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