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Glycome Informatics: Methods and Applications (Chapman & Hall/CRC Mathematical and Computational Biology)

Kiyoko F. Aoki-Kinoshita

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A Focused, State-of-the-Art Overview of This Evolving Field
Presents Various Techniques for Glycoinformatics

The development and use of informatics tools and databases for glycobiology and glycomics research have increased considerably in recent years. In addition to accumulating well-structured glyco-related data, researchers have now developed semi-automated methods for the annotation of mass spectral data and algorithms for capturing patterns in glycan structure data. These techniques have enabled researchers to gain a better understanding of how these complex structures affect protein function and other biological processes, including cancer.

One of the few up-to-date books available in this important area, **Glycome Informatics: Methods and Applications** covers all known informatics methods pertaining to the study of glycans. It discusses the current status of carbohydrate databases, the latest analytical techniques, and the informatics needed for rapid progress in glycomics research.

Providing an overall understanding of glycobiology, this self-contained guide focuses on the development of glycome informatics methods and current problems faced by researchers. It explains how to implement informatics methods in glycobiology. The author includes the required background material on glycobiology as well as the mathematical concepts needed to understand advanced mining and algorithmic techniques. She also suggests project themes for readers looking to begin research in the field.

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