



Next-Generation DNA Sequencing Informatics, Second Edition (Hardback)

By -

Cold Spring Harbor Laboratory Press, U.S., United States, 2015. Hardback. Condition: New. 2nd ed.. Language: English . Brand New Book. Next-generation DNA sequencing (NGS) technology has revolutionized biomedical research, making genome and RNA sequencing an affordable and frequently used tool for a wide variety of research applications including variant (mutation) discovery, gene expression, transcription factor analysis, metagenomics, and epigenetics. Bioinformatics methods to support DNA sequencing have become and remain a critical bottleneck for many researchers and organizations wishing to make use of NGS technology. Next- Generation DNA Sequencing Bioinformatics, Second Edition, provides thorough, plain language introduction to the necessary informatics methods and tools for analyzing NGS data as did the first edition, and provides detailed descriptions of algorithms, strengths and weaknesses of specific tools, pitfalls and alternative methods. Four new chapters in this edition cover: experimental design, sample preparation, and quality assessment of NGS data; Public databases for DNA Sequencing data; De novo transcript assembly; proteogenomics; and emerging sequencing technologies. The remaining chapters from the first edition have been updated with the latest information. This book also provides extensive reference to best-practice bioinformatics methods for NGS applications and tutorials for common workflows. The second edition of Next-Generation DNA Sequencing Bioinformatics...

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