

1. Record Nr.	UNINA9910812209403321
Titolo	Computational methods for next generation sequencing data analysis / / edited by Ion Mandoiu, Alexander Zelikovsky
Pubbl/distr/stampa	Hoboken, New Jersey : , : John Wiley & Sons, , [2016] ©2016
ISBN	1-119-27217-3 1-119-27216-5 1-119-27218-1
Descrizione fisica	1 online resource (461 p.)
Collana	Wiley series on bioinformatics : computational techniques and engineering
Disciplina	611/.0181663
Soggetti	Nucleotide sequence - Methodology Nucleotide sequence - Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Title Page; Copyright; Contents; Contributors; Preface; About the Companion Website; Part I Computing and Experimental Infrastructure for NGS; Chapter 1 Cloud Computing for Next-Generation Sequencing Data Analysis; 1.1 Introduction; 1.2 Challenges for NGS Data Analysis; 1.3 Background For Cloud Computing and its Programming Models; 1.4 Cloud Computing Services for NGS Data Analysis; 1.5 Conclusions and Future Directions; References; Chapter 2 Introduction to the Analysis of Environmental Sequence Information Using Metapathways; 2.1 Introduction & Overview; 2.2 Background 2.3 Metapathways Processes2.4 Big Data Processing; 2.5 Downstream Analyses; 2.6 Conclusions; References; Chapter 3 Pooling Strategy for Massive Viral Sequencing; 3.1 Introduction; 3.2 Design of Pools for Big Viral Data; 3.3 Deconvolution of Viral Samples From Pools; 3.4 Performance of Pooling Methods on Simulated Data; 3.5 Experimental Validation of Pooling Strategy; 3.6 Conclusion; References; Chapter 4 Applications of High-Fidelity Sequencing Protocol to RNA Viruses; 4.1 Introduction; 4.2 High-Fidelity Sequencing Protocol; 4.3 Assembly of High-Fidelity Sequencing Data

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4.6 Performance of VGA on Real Hiv Data;
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