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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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	Autore	Claus Harald
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