

1. Record Nr.	UNINA9910789313903321
Titolo	Advances in statistical bioinformatics : models and integrative inference for high-throughput data // edited by Kim-Anh Do, The University of Texas M.D. Anderson Cancer Center, Zhaohui Steven Qin, Emory University, Atlanta, GA, Marina Vannucci, Rice University, Houston, TX [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2013
ISBN	1-139-89118-9 1-107-24941-4 1-107-24858-2 1-299-70751-3 1-107-25107-9 1-107-25024-2 1-139-22644-4 1-107-24775-6
Descrizione fisica	1 online resource (xv, 481 pages) : digital, PDF file(s)
Classificazione	MED090000
Disciplina	572.80285
Soggetti	Bioinformatics - Statistical methods Biometry Genetics - Technique
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""Contents""; ""List of Contributors""; ""Preface""; ""1 An Introduction to Next-Generation Biological Platforms""; ""Virginia Mohlere, Wenting Wang, and Ganiraju Manyam""; ""1.1 Introduction""; ""1.2 The Biology of Gene Silencing""; ""1.2.1 DNA Methylation""; ""1.2.2 RNA Interference""; ""1.3 High-Throughput Profiling""; ""1.3.1 Molecular Inversion Probe Arrays""; ""1.3.2 Array Comparative Genomic Hybridization (aCGH)""; ""1.3.3 Genome-Wide Association Studies""; ""1.3.4 Reverse-Phase Protein Array""; ""1.4 Next-Generation Sequencing""; ""1.4.1 Whole-Genome and Whole-Exome Sequencing"" ""1.4.2 ChIP-Seq""""1.4.3 RNA-Seq""; ""1.4.4 BS-seq""; ""1.5 NGS Data Management and Analysis""; ""1.6 Platform Integration"";

""Acknowledgments""; ""References""; ""References""; ""2 An Introduction to The Cancer Genome Atlas""; ""Bradley M. Broom and Rehan Akbani""; ""2.1 Introduction""; ""2.2 History and Goals of the TCGA Project""; ""2.3 Sample Collection and Processing""; ""2.3.1 Step 1: Tissue Collection""; ""2.3.2 Step 2: Quality Control and DNA/RNA Extraction""; ""2.3.3 Step 3: Molecular Profiling and Sequencing""; ""2.3.4 Step 4: Data Collection and Public Distribution""; ""2.3.5 Step 5: Data Analysis""""2.4 Data Processing, Storage, and Access""; ""2.4.1 TCGA Barcodes and UUIDs""; ""2.4.2 The Data Coordinating Center""; ""2.4.3 Data Access Matrix""; ""2.4.4 Bulk Download""; ""2.4.5 HTTP""; ""2.4.6 CGHub""; ""2.4.7 Sample and Data Relationship Format (SDRF) and Investigation Description Format (IDF) Files""; ""2.4.8 File Format""; ""2.4.9 Version""; ""2.5 Tools for Visualizing and Analyzing TCGA Data""; ""2.5.1 cBio Cancer Genomics Portal""; ""2.5.2 MBatch Portal""; ""2.5.3 Next-Generation Clustered Heat Maps""; ""2.5.4 Regulome Explorer""; ""2.5.5 Integrative Genome Viewer""""2.5.6 Cancer Genomics Browser""; ""2.6 Summary""; ""Acknowledgments""; ""References""; ""References""; ""3 DNA Variant Calling in Targeted Sequencing Data""; ""Wenyi Wang, Yu Fan, and Terence P. Speed""; ""3.1 Introduction""; ""3.2 Background""; ""3.2.1 Single-Nucleotide Variation""; ""3.2.2 Long Padlock Probes""; ""3.2.3 Array-Based Resequencing""; ""3.3 Sequence Robust Multiarray Analysis""; ""3.3.1 Quality Control""; ""3.3.2 Variant Calling""; ""3.4 Application of SRMA""; ""3.4.1 Candidate Gene Study for Mitochondrial Diseases""; ""3.4.2 Validation Results""""3.4.3 Biological Findings""; ""3.5 Conclusion""; ""Appendix""; ""References""; ""References""; ""4 Statistical Analysis of Mapped Reads from mRNA-Seq Data""; ""Ernest Turro and Alex Lewin""; ""4.1 Background""; ""4.1.1 RNA Biology""; ""4.1.2 RNA Technology""; ""4.2 Mapping and Assembly Strategies""; ""4.2.1 De Novo Assembly of the Transcriptome""; ""4.2.2 Genome-Guided Assembly of the Transcriptome""; ""4.2.3 Alignment to a Reference Transcriptome""; ""4.3 Modeling Expression Levels""; ""4.3.1 Poisson Model for Expression Quantification""; ""4.4 Normalization""; ""4.4.1 RPKM Normalization""

Sommario/riassunto

Providing genome-informed personalized treatment is a goal of modern medicine. Identifying new translational targets in nucleic acid characterizations is an important step toward that goal. The information tsunami produced by such genome-scale investigations is stimulating parallel developments in statistical methodology and inference, analytical frameworks, and computational tools. Within the context of genomic medicine and with a strong focus on cancer research, this book describes the integration of high-throughput bioinformatics data from multiple platforms to inform our understanding of the functional consequences of genomic alterations. This includes rigorous and scalable methods for simultaneously handling diverse data types such as gene expression array, miRNA, copy number, methylation, and next-generation sequencing data. This material is written for statisticians who are interested in modeling and analyzing high-throughput data. Chapters by experts in the field offer a thorough introduction to the biological and technical principles behind multiplatform high-throughput experimentation.

2. Record Nr.	UNINA9910793195003321
Titolo	The politics of multilingualism [[electronic resource]] : Europeanisation, globalisation and linguistic governance // edited by Peter A. Kraus, Francois Grin
Pubbl/distr/stampa	Amsterdam, : John Benjamins, 2018
Descrizione fisica	1 online resource (xviii, 367 p.) : ill
Collana	Studies in world language problems ; ; v. 6
Altri autori (Persone)	KrausPeter A GrinFrancois
Disciplina	306.449
Soggetti	Multilingualism - Political aspects Language policy - Political aspects Transnationalism - Political aspects Globalization - Political aspects Language acquisition Languages in contact Intercultural communication
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. The politics of multilingualism: General introduction and overview -- PART I. RECONCEPTUALISING MULTILINGUALISM AND COLLECTIVE IDENTITY -- 2. The politics of multilingualism in Canada: A neo-institutional approach -- 3. A Russian-speaking nation?: The promotion of the Russian language and its significance for ongoing efforts at Russian nation-building -- 4. The impact of mobility and migration on the identity-constructing policy in Brussels -- 5. From glossophagic hegemony to multilingual pluralism?: Re-assessing the politics of linguistic identity in Europe -- 6. Transient linguistic landscapes of activism: Protesting against austerity policies in the Eurozone -- PART II. LINGUISTIC HEGEMONY, INSECURITY AND LINGUISTIC JUSTICE -- 7. How to measure linguistic justice?: Theoretical considerations and the South Tyrol case study of the Calvet Language Barometer -- 8. Linguistic justice and English as a Lingua Franca -- 9. The promise and pitfalls of global English -- 10.

Languages, norms and power in a globalised context -- PART III. LINGUA FRANCA AND GLOBAL LINGUISTIC GOVERNANCE -- 11. On some fashionable terms in multilingualism research: Critical assessment and implications for language policy -- 12. English, the Lingua Nullius of global hegemony -- 13. Idealism or pragmatism?: Ad hoc multilingualism and Open English -- 14. European integration and the variety of languages: An awkward co-existence -- Author index -- Subject index.

Sommario/riassunto

This book proposes a multidisciplinary assessment of the impact of complex diversity on language politics and policies, analysing how the legacies of the old interact with the challenges of the new. Its main focus is on the interplay of multilingualism on the one hand, and the dynamics of transnationalism, globalisation, and Europeanisation on the other. This interplay confronts contemporary societies with unprecedented questions, as they face the need to come to grips with increasingly varied and pervasive manifestations of linguistic and cultural diversity. This volume develops an integrative approach that identifies the key social and political dimensions at hand, offering an innovative contribution to the ongoing conversation on the manifestations and management of multilingualism.
