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Descrizione fisica	1 online resource (V, 220 p. 28 illus., 24 illus. in color.)
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Soggetti	Bioinformatics
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Nota di contenuto	1.Informatics for Precision Medicine and Healthcare -- 2.Genetic test, risk prediction, and counseling -- 3.Newborn Screening in the era of precision medicine -- 4.Trace elements and healthcare: a bioinformatics perspective -- 5.Tongue image analysis and its mobile App development for health diagnosis -- 6.Physical Exercise prescription in metabolic chronic disease -- 7.Informatics for Nutritional Genetics and Genomics -- 8.Interactions between Genetics, Lifestyle and Environmental Factors for Healthcare -- 9.Cohort research in "omics" and preventive medicine.
Sommario/riassunto	This book is about the transformation of the biomedical information to smart healthcare, the chapters are designed to discuss the health associated factors such as genetics, lifestyle, nutrition and environmental factors. The interactions of these factors and the informatics for the analyses of their effects on health are also covered. The era of aging is approaching and the P4 (predictive, preventive, personalized and participatory) medicine paradigm is becoming practical and reality. According to the Kondratiev's long wave theory, IT (information technology) and health will be the next technological revolution for the new economic cycle. This book is written for biomedical informatics scientists, clinicians, health practitioners and researchers, etc.