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Sommario/riassunto	Genomic signal processing (GSP) can be defined as the analysis, processing, and use of genomic signals to gain biological knowledge, and the translation of that knowledge into systems-based applications that can be used to diagnose and treat genetic diseases. Situated at the crossroads of engineering, biology, mathematics, statistics, and computer science, GSP requires the development of both nonlinear dynamical models that adequately represent genomic regulation, and diagnostic and therapeutic tools based on these models. This book facilitates these developments by providing rigorous mathematical definitions and propositions for the main elements of GSP and by paying attention to the validity of models relative to the data. Ilya Shmulevich and Edward Dougherty cover real-world situations and

explain their mathematical modeling in relation to systems biology and systems medicine. Genomic Signal Processing makes a major contribution to computational biology, systems biology, and translational genomics by providing a self-contained explanation of the fundamental mathematical issues facing researchers in four areas: classification, clustering, network modeling, and network intervention.

2. Record Nr.	UNINA9910156326303321
Autore	Girardo G
Titolo	Development and Applications of Vaccines and Gene Therapy in AIDS : : International Workshop, Naples, Italy, June 1995 // editors, G. Girardo, D.P. Bolognesi, M. Salvatore, E. Beth-Girardo
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Sommario/riassunto

This publication is an overview of the exciting discoveries in the field of AIDS which were discussed at the workshop 'Development and Applications of Vaccines and Gene Therapy in AIDS' (Naples, June 1995). Various articles present the latest advances in the development of vaccines, focusing on the analysis of immunogenetic epitopes and models of expression and/or administration. Some contributions describe the results of recent vaccine trials with animal models while others concentrate on human clinical trials. Furthermore, articles on new approaches in the field of gene therapy are included. The data compiled in this outstanding volume is essential not only for biomedical scientists but also for all researchers interested in the latest developments in the field of HIV/AIDS.
