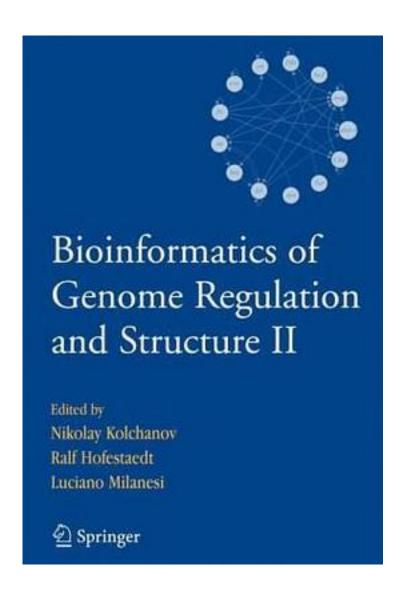
## Bioinformatics of Genome Regulation and Structure



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出版者:Springer Verlag

出版时间:2005-11

装帧:HRD

isbn:9780387294506

This work is a follow-up of the International Conference on Bioinformatics of Genome Regulation and Structure (BGRS-2004), held in Novosibirsk, Russia, in July 2004. It comprises the newest results obtained while researching into the structure and function of molecular genetic systems belonging to different complexity level of their organization. The material covers the following: (i) regulatory genomic sequences; (ii) large-scale genome analysis and functional annotation; (iii) gene structure detection and prediction; (iv) comparative and evolutionary genomics; (v) computer analysis of genome polymorphism and evolution; computer analysis and modeling of transcription, splicing, and translation; structural computational biology; (vi) gene networks, signal transduction pathways, and genetically controlled metabolic pathways; (vii) data warehousing, knowledge discovery and data mining; and (viii) analysis of basic patterns of genome operation, organization, and evolution.

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