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3. Genome-Scale Algorithm Design (Biological sequence analysis in the era of high-throughput sequencing) by Veli M¨akinen, Djamal Belazzougui, Fabio Cunial and Alexandru I. Tomescu. A graduate-level text about state-of-the-art data structures and algorithms for modern sequence analysis,

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Textbooks Required •Bioinformatics Algorithms: An Active Learning Approach Volume I (Compeau and Pevzner 2015) •Bioinformatics Algorithms: An Active Learning Approach Volume II (Compeau and Pevzner 2015) Other great resources •Biological Sequence Analysis (Durbin, Eddy, Krogh, Mitchinson 1998) •Genome Scale Algorithm Design (Mäkinen, Belazzougui, Cunial,

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Bottom-up approaches to systems biology rely on constructing a mechanistic basis for the biochemical and genetic processes that underlie cellular functions. Genome-scale network reconstructions of metabolism are built from all known metabolic reactions and metabolic genes in a target organism.

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Genome-Scale Algorithm Design - GBV
High-throughput sequencing has revolutionised the field of biological sequence analysis. Its application has enabled researchers to address important biological questions, often for the first time. This book provides an integrated presentation of the fundamental algorithms and data structures that power modern sequence analysis workflows.

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Genome-Scale Algorithm Design provides an integrated presentation of the fundamental algorithms and data structures that power modern sequence analysis workflows. The topics covered range from the foundations of biological sequence analysis (alignments and hidden Markov models), to classical index structures (k-mer indexes, suffix arrays and suffix trees), Burrows-Wheeler indexes, graph algorithms and a number of advanced omics applications.

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