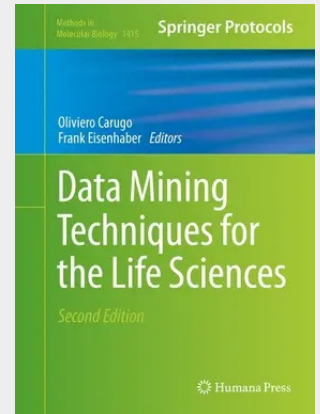


Data Mining Techniques for the Life Sciences

This volume details several important databases and data mining tools. *Data Mining Techniques for the Life Sciences, Second Edition* guides readers through archives of macromolecular three-dimensional structures, databases of protein-protein interactions, thermodynamics information on protein and mutant stability, "Kbdock" protein domain structure database, PDB_REDO databank, erroneous sequences, substitution matrices, tools to align RNA sequences, interesting procedures for kinase family/subfamily classifications, new tools to predict protein crystallizability, metabolomics data, drug-target interaction predictions, and a recipe for protein-sequence-based function prediction and its implementation in the latest version of the ANNOTATOR software suite. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls.

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160,49 €

149,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781493935703

Medium: Buch

ISBN: 978-1-4939-3570-3

Verlag: Humana

Erscheinungstermin: 27.04.2016

Sprache(n): Englisch

Auflage: 2. Auflage 2016

Serie: Methods in Molecular Biology

Produktform: Gebunden

Gewicht: 1252 g

Seiten: 552

Format (B x H): 183 x 260 mm

