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2. Record Nr.	UNISA996218390603316
Autore	Holtje Hans-Dieter
Titolo	Molecular modeling : basic principles and applications // Hans-Dieter Holtje and Gerd Folkers
Pubbl/distr/stampa	Weinheim, Germany ; ; New York, New York : , : John Wiley & Sons, , [1997] ©1997
ISBN	1-281-75846-9 9786611758462 3-527-61477-X 3-527-61476-1
Descrizione fisica	1 online resource (209 p.)
Collana	Methods and principles in medicinal chemistry ; ; v. 5
Disciplina	572/.33/0113
Soggetti	Molecules - Models - Computer simulation Ligand binding (Biochemistry) - Computer simulation Biomolecules - Structure - Computer simulation Drugs - Design - Computer simulation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Molecular Modeling; Preface; A Personal Foreword; Contents; 1 Introduction; 1.1 Modern History of Molecular Modeling; 1.2 Do Today's Molecular Modeling Methods Illustrate only the Lukretian World?; 1.3

What are Models Used for?; 1.4 Molecular Modeling Uses All Four Types for Model Building; 1.5 The Final Step is Design; 1.6 The Scope of the Book; 2 Small Molecules; 2.1 Generation of 3D Coordinates; 2.1.1 Crystal Data; 2.1.2 Fragment Libraries; 2.1.3 Sketch Approach; 2.2 Computational Tools for Geometry Optimization; 2.2.1 Force Fields; 2.2.2 Geometry Optimization; 2.2.3 Energy-Minimizing Procedures; 2.2.3.1 Steepest Descent Minimizer; 2.2.3.2 Conjugate Gradient Method; 2.2.3.3 Newton-Raphson Minimizer; 2.2.4 Use of Charges, Solvation Effects; 2.2.5 Quantum Mechanical Methods; 2.2.5.1 Ab initio Methods; 2.2.5.2 Semiempirical Molecular Orbital Methods; 2.3 Conformational Analysis; 2.3.1 Conformational Analysis Using Systematic Search Procedures; 2.3.2 Conformational Analysis Using Monte Carlo Methods; 2.3.3 Conformational Analysis Using Molecular Dynamics; 2.4 Determination of Molecular Interaction Potentials; 2.4.1 Molecular Electrostatic Potentials (MEPs); 2.4.1.1 Methods for Calculating Atomic Point Charges; 2.4.1.2 Methods for Generating MEPs; 2.4.2 Molecular Interaction Fields; 2.4.2.1 Calculation of GRID Fields; 2.4.2.2 How GRID Fields can be Exploited; 2.4.2.3 Use of Chemometrics: The CoMFA Method; 2.4.3 Hydrophobic Interactions; 2.4.3.1 Log P as a Measure of Lipophilicity; 2.4.3.2 The Hydrophobic Field; 2.4.3.3 Display of Properties on a Molecular Surface; 2.5 Pharmacophore Identification; 2.5.1 Molecules to be Matched; 2.5.2 Atom-by-Atom Superposition; 2.5.3 Superposition of Molecular Fields; 2.6 The Use of Data Bases; 2.6.1 Conversion of 2D Structural Data into 3D Form; 2.6.2 3D Searching; 3 Example for Small Molecule Modeling: Serotonin Receptor Ligands; 3.1 Definition of the Serotonergic Pharmacophore; 3.2 The Molecular Interaction Field; 3.3 Construction of a 5-HT_{2a} Receptor Binding Site Model; 3.4 Calculation of Interaction Energies; 3.5 Validation of the Model; 4 Introduction to Protein Modeling; 4.1 Where and How to get Information on Proteins; 4.2 Terminology and Principles of Protein Structure; 4.2.1 Conformational Properties of Proteins; 4.2.2 Types of Secondary Structural Elements; 4.2.2.1 The α -Helix; 4.2.2.2 The β -Sheet; 4.2.2.3 Turns; 4.2.3 Homologous Proteins; 4.3 Knowledge-Based Protein Modeling; 4.3.1 Procedures for Sequence Alignments; 4.3.2 Determination and Generation of Structurally Conserved Regions (SCRs); 4.3.3 Construction of Structurally Variable Regions (SVRs); 4.3.4 Side Chain Modeling; 4.3.5 Distance Geometry Approach; 4.3.6 Secondary Structure Prediction; 4.3.7 Energy-Based Modeling Methods; 4.4 Optimization Procedures - Model Refinement - Molecular Dynamics; 4.4.1 Force Fields for Protein Modeling; 4.4.2 Geometry Optimization

Sommario/riassunto

Written by experienced experts in molecular modeling, this book describes the basics to the extent that is necessary if one wants to be able to reliably judge the results from molecular modeling calculations. Its main objective is the description of the various pitfalls to be avoided. Without unnecessary overhead it leads the reader from simple calculations on small molecules to the modeling of proteins and other relevant biomolecules. A textbook for beginners as well as an invaluable reference for all those dealing with molecular modeling in their daily work!

3. Record Nr.	UNINA9910788532003321
Autore	Quian Quiroga Rodrigo
Titolo	Borges and memory : encounters with the human brain // Rodrigo Quian Quiroga ; translated by Juan Pablo Fernandez ; foreword by Maria Kodama
Pubbl/distr/stampa	Cambridge, Mass., : MIT Press, ©2012 ©2012
ISBN	0-262-30495-3 1-283-62981-X 0-262-30587-9 9786613942265
Descrizione fisica	1 online resource (225 p.)
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Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	CONTENTS; FOREWORD; INTRODUCTION; 1. FUNES AND OTHER CASES OF EXTRAORDINARY MEMORY; 2. THE LIBRARY OF BABEL; 3. THE MAN WHO COULD NOT FORGET; 4. LIVING IN THE PAST; 5. SUBTLETIES OF MEMORY; 6. WHERE DO MEMORIES RESIDE?; 7. PRODIGIOUS MINDS; 8. THE DELICATE BALANCE BETWEEN REMEMBERING AND FORGETTING; 9. PERCEPTION AND MEMORY; 10. NEUROPHYSIOLOGY OF VISION; 11. THE JENNIFER ANISTON NEURON; 12. KEYS TO THOUGHT; ACKNOWLEDGMENTS; INDEX
Sommario/riassunto	Discusses the science of memory and the interpretation of memory in the novels of Jorge Luis Borges and earlier literatures.