

# Molecular Machinery: A Tour of the Protein Data Bank

Life is a complex molecular machine. The proteins that make up the machinery of life are the focus of this section. We explore the structure and function of these molecules, and how they work together to form the complex machinery of life. We also explore the structure and function of the molecules that make up the machinery of life.

Proteins are the workhorses of the cell. They are the molecules that carry out most of the functions of the cell. They are the molecules that make up the machinery of life. They are the molecules that make up the machinery of life. They are the molecules that make up the machinery of life.

## Regulatory proteins binding to DNA and RNA

- 1. DNA-binding proteins
- 2. RNA-binding proteins
- 3. Transcription factors
- 4. Repressors
- 5. Activators
- 6. Enhancers
- 7. Silencers
- 8. Insulators
- 9. Promoters
- 10. Terminators

## Structural proteins forming the cytoskeleton

- 1. Actin
- 2. Myosin
- 3. Tubulin
- 4. Kinesin
- 5. Dynein
- 6. Ankyrin
- 7. Spectrin
- 8. Band 4.1
- 9. Plectin
- 10. F-actin

## Enzymes and catalysis

- 1. Kinase
- 2. Phosphatase
- 3. GTPase
- 4. ATPase
- 5. Hydrolase
- 6. Lyase
- 7. Isomerase
- 8. Transferase
- 9. Ligase
- 10. Polymerase

## Membrane proteins

- 1. Ion channels
- 2. Receptors
- 3. Transporters
- 4. Pumps
- 5. GPCRs
- 6. Integrins
- 7. Cadherins
- 8. Selectins
- 9. Lectins
- 10. Glycoproteins

## Genetics, Proteins and Molecular Biology

- 1. DNA
- 2. RNA
- 3. Proteins
- 4. Lipids
- 5. Carbohydrates
- 6. Nucleic acids
- 7. Enzymes
- 8. Hormones
- 9. Vitamins
- 10. Minerals

## Metabolism

- 1. Glycolysis
- 2. Citric acid cycle
- 3. Oxidative phosphorylation
- 4. Photosynthesis
- 5. Nitrogen cycle
- 6. Sulfur cycle
- 7. Carbon cycle
- 8. Water cycle
- 9. Oxygen cycle
- 10. Hydrogen cycle

## Signaling

- 1. Kinase
- 2. Phosphatase
- 3. GTPase
- 4. ATPase
- 5. Hydrolase
- 6. Lyase
- 7. Isomerase
- 8. Transferase
- 9. Ligase
- 10. Polymerase

## Transport

- 1. Ion channels
- 2. Receptors
- 3. Transporters
- 4. Pumps
- 5. GPCRs
- 6. Integrins
- 7. Cadherins
- 8. Selectins
- 9. Lectins
- 10. Glycoproteins

## Immunology

- 1. Antibodies
- 2. T cells
- 3. B cells
- 4. Macrophages
- 5. Neutrophils
- 6. Eosinophils
- 7. Basophils
- 8. Mast cells
- 9. Dendritic cells
- 10. Natural killer cells

## Energy metabolism

- 1. Glycolysis
- 2. Citric acid cycle
- 3. Oxidative phosphorylation
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## Information

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- 3. GTPase
- 4. ATPase
- 5. Hydrolase
- 6. Lyase
- 7. Isomerase
- 8. Transferase
- 9. Ligase
- 10. Polymerase

## Protein synthesis

- 1. Ribosome
- 2. tRNA
- 3. mRNA
- 4. rRNA
- 5. tRNA
- 6. mRNA
- 7. rRNA
- 8. tRNA
- 9. mRNA
- 10. rRNA

## RNA binding and making

- 1. Kinase
- 2. Phosphatase
- 3. GTPase
- 4. ATPase
- 5. Hydrolase
- 6. Lyase
- 7. Isomerase
- 8. Transferase
- 9. Ligase
- 10. Polymerase

# Molecular Machinery

**IM Harris**



## **Molecular Machinery:**

Molecular Machines and Motors Alberto Credi, Serena Silvi, Margherita Venturi, 2014-09-02 The cutting edge advances in this research field are nicely pictured in the chapters of this volume. They come from world's leading laboratories engaged in the development of molecular machines and are authored by some of the most respected scientists in the field. This volume shows on the one hand the level of ingenuity and technical capability reached in the construction of artificial nanomachines roughly two decades after their inception. On the other hand it conveys the excitement about the enormous opportunities as well as the challenges this research area presents as the interest of researchers is shifting from ensemble to single molecule measurements and from homogeneous to heterogeneous environments. Indeed as Feynman said when we have some control of the arrangement of things on a molecular scale we will get an enormously greater range of possible properties that substances can have. Although the answer to the when question is not easy to find there is no doubt that artificial molecular machines and motors will lead to a wide variety of applications which we cannot even envisage today. The Nobel Prize in Chemistry 2016 was awarded jointly to Jean Pierre Sauvage, Sir J Fraser Stoddart and Bernard L Feringa for the design and synthesis of molecular machines. Both Jean Pierre Sauvage and Bernard L Feringa contributed to this volume. The goal of each thematic volume in this series is to give the non specialist reader whether in academia or industry a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience. Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed. The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented. Contributions also offer an outlook on potential future developments in the field. Review articles for the individual volumes are invited by the volume editors. Readership: research chemists at universities or in industry graduate students.

**Membranes to Molecular Machines** Mathias Grote, 2019-07-19 Today's science tells us that our bodies are filled with molecular machinery that orchestrates all sorts of life processes. When we think microscopic channels open and close in our brain cell membranes when we run tiny motors spin in our muscle cell membranes and when we see light operates molecular switches in our eyes and nerves. A molecular mechanical vision of life has become commonplace in both the halls of philosophy and the offices of drug companies where researchers are developing proton pump inhibitors or medicines similar to Prozac. *Membranes to Molecular Machines* explores just how late twentieth century science came to think of our cells and bodies this way. This story is told through the lens of membrane research an unwritten history at the crossroads of molecular biology, biochemistry, physiology and the neurosciences that directly feeds into today's synthetic biology as well as nano and biotechnology. Mathias Grote shows how these sciences not only have made us think differently

about life they have by reworking what membranes and proteins represent in laboratories allowed us to manipulate life as active matter in new ways Covering the science of biological membranes in the United States and Europe from the mid 1960s to the 1990s this book connects that history to contemporary work with optogenetics a method for stimulating individual neurons using light and will enlighten and provoke anyone interested in the intersection of chemical research and the life sciences from practitioner to historian to philosopher The research described in the book and its central actor Dieter Oesterhelt were honored with the 2021 Albert Lasker Basic Medical Research Award for his contribution to the development of optogenetics

**Single Molecular Machines and Motors** Christian Joachim, Gwénaél Rapenne, 2015-01-17 Single Molecular Machines and Motors brings together different approaches and strategies to design synthesize and study single molecular machines and motors in a multidisciplinary way Written by leading international experts this book summarizes the advances in the field through a number of disciplines Some contributions describe molecular chemistry such as organic aromatics and coordination chemistry while others address theoretical chemistry in a predictive way or through post experimental modelling Experimental physics with extensive use of scanning probe microscopy STM and AFM is discussed for examining one single molecule This book is aimed at those who are interested in the rapidly growing field of molecular machines and motors acting and studied at the single molecule scale The goal of the authors and editors is to provide the reader with an up to date summary while also offering future perspectives on the field

**The Machinery of Life** David S. Goodsell, 1998 The author's talents as scientist and artist are combined in this vivid introduction to biochemistry With a crisp text and extraordinary illustrations The Machinery of Life guides you through the interior of cells exploring the ways in which molecular machines drive the process of life Stunning original drawings and computer

*Molecular Machines in Biology* Joachim Frank, 2011-12-19 The concept of molecular machines in biology has transformed the medical field in a profound way Many essential processes that occur in the cell including transcription translation protein folding and protein degradation are all carried out by molecular machines This volume focuses on important molecular machines whose architecture is known and whose functional principles have been established by tools of biophysical imaging X ray crystallography and cryo electron microscopy and fluorescence probing single molecule FRET This edited volume includes contributions from prominent scientists and researchers who understand and have explored the structure and functions of these machines This book is essential for students and professionals in the medical field who want to learn more about molecular machines

Concepts For Molecular Machines Jubaraj Bikash Baruah, 2017-08-11 Actions of living beings at any stage of life are of general interest molecular machines can be a replica of such activities Stimuli guided movements and shape changes of molecules are one of the rapidly developing areas on which fundamental principles of molecular machine banks Thus the understanding of intriguing concepts of molecular machines is essential Miniaturization efficiency stability and robustness in performing activities are some of the important points associated with molecular machines Using

molecular machines for practical purposes will further strengthen fundamentals of science and technology and also guide future market economy Recent advent of techniques to handle materials at microscopic level has benefited the topic of molecular machines and is ready to be taken to a higher level as compared to other competing topics of science and technology Molecular machines is a contemporary hot topic with future scope The Nobel Prize in the year 2016 was shared by three scientists Prof Ben Feringa Prof J Fraser Stoddart and Prof Jean Pierre Sauvage for their contribution to the topic This book on molecular machines is aimed to cater to the need of graduate students and researchers by providing the fundamental aspects on molecular machines *Molecular Machines* T. Ross Kelly, 2005-12-20 The chapters in this volume describe bottom up strategies and chronicle cutting edge advances from several of the world's leading laboratories engaged in the development of molecular machines The Nobel Prize in Chemistry 2016 was awarded jointly to Jean Pierre Sauvage Sir J Fraser Stoddart and Bernard L Feringa for the design and synthesis of molecular machines Both Jean Pierre Sauvage and Sir J Fraser Stoddart have also contributed to this book *Molecular Machines and Motors* J.-P. Sauvage, Valeria Amendola, 2001-07-03 This series presents critical reviews of the present position and future trends in modern chemical research It consists of short and concise reports on chemistry each written by the world's renowned experts and still valid and useful after 5 or 10 years Nanosystems K. Eric Drexler, 1992-10-23 Recommended in ACM Computing Reviews 5 93

**Life's Ratchet** Peter M. Hoffmann, 2012-10-30 Life Hoffman argues emerges from the random motions of atoms filtered through the sophisticated structures of our evolved machinery People are essentially giant assemblies of interacting nanoscale machines Molecular Machinery Andrew Scott, 1989-01 *Molecular Machines* Giovanni Zocchi, 2018-07-10 Molecular Machines presents a dynamic new approach to the physics of enzymes and DNA from the perspective of materials science Unified around the concept of molecular deformability how proteins and DNA stretch fold and change shape this book describes the complex molecules of life from the innovative perspective of materials properties and dynamics in contrast to structural or purely chemical approaches It covers a wealth of topics including nonlinear deformability of enzymes and DNA the chemo dynamic cycle of enzymes supra molecular constructions with internal stress nano rheology and viscoelasticity and chemical kinetics Brownian motion and barrier crossing Essential reading for researchers in materials science engineering and nanotechnology the book also describes the landmark experiments that have established the materials properties and energy landscape of large biological molecules Molecular Machines is also ideal for the classroom It gives graduate students a working knowledge of model building in statistical mechanics making it an essential resource for tomorrow's experimentalists in this cutting edge field In addition mathematical methods are introduced in the bio molecular context for example DNA conformational transitions are used to illustrate the transfer matrix formalism The result is a generalized approach to mathematical problem solving that enables students to apply their findings more broadly Molecular Machines represents the next leap forward in nanoscience as researchers strive to harness proteins enzymes and DNA as

veritable machines in medicine technology and beyond      **Molecular Machines** Benoît Roux, 2011 Ch 1 Molecular behavior in biological cells the bacterial cytoplasm as a model system Adrian H Elcock and Andrew S Thomas ch 2 The light harvesting apparatus in purple photosynthetic bacteria introduction to a quantum biological device Johan Strumpfer und weitere ch 3 DNA polymerases structure function and modeling Tamar Schlick ch 4 Information processing by nanomachines decoding by the ribosome Karissa Y Sanbonmatsu Scott C Blanchard and Paul C Whitford ch 5 Chaperonins the machines which fold proteins Del Lucant Martin C Stumpe and Vijay S Pande ch 6 Muscle and myosin Ronald S Rock ch 7 Protein kinases phosphorylation machines Elaine E Thompson Susan S Taylor and J Andrew McCammon ch 8 Computational studies of Na<sup>+</sup> H<sup>+</sup> antiporter structure dynamics and function Assaf Ganoth Raphael Alhadeff and Isaiah T Arkin ch 9 Membrane transporters molecular machines coupling cellular energy to vectorial transport across the membrane Zhijian Huang und weitere ch 10 ABC transporters E P Coll and D P Tieleman ch 11 Sodium coupled secondary transporters insights from structure based computations Elia Zomot und weitere ch 12 Voltage gated ion channels the machines responsible for the nerve impulse Benoit Roux and Francisco Bezanilla ch 13 Voltage gated channels and the heart Jonathan R Silva and Yoram Rudy      **The Boston Monday Lectures** Joseph Cook, 1881      **The Lancet** , 1875      **Molecules at Work** Bruno Pignataro, 2012-10-18 This book contains the contributions of selected young chemists from the field of nanotechnology and material sciences The contributions are grouped under the following umbrella topics Self assembly Nanomaterials Molecular Machinery This volume is an indispensable read for all materials scientists organic and inorganic chemists Ph D students in chemistry and material sciences interested in seeing what tomorrow's chemistry will look like      *Protoplasm* Lionel Smith Beale, 1870

The Modern Review , 1908      **Veterinary Journal and Annals of Comparative Pathology** , 1891      The British Veterinary Journal , 1891

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