

**Molecular Biology  
Biochemistry and Biophysics**

**Molekularbiologie  
Biochemie und Biophysik**

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**J. H. van't Hoff**

# **Imagination in Science**

**Translation and Introduction  
by G. F. Springer**

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**Imagination In Science Molecular Biology Biochemistry  
And Biophysics Molekularbiologie Biochemie Und  
Biophysik**

**Patrick Vollmar**



## **Imagination In Science Molecular Biology Biochemistry And Biophysics Molekularbiologie Biochemie Und Biophysik:**

**Imagination in Science** Arnost Kleinzeller, G. F. Springer, Heinz G. Wittmann, 2013-12-19 [Imagination in Science](#)  
J.H. van't Hoff, 1967-01-01 The objective of the new series Molecular Biology Biochemistry and Biophysics of which this brochure forms the first volume is to produce more than another compilation of data It is hoped that the new series will help the individual specialist keep abreast of important developments in the natural sciences at the molecular and subcellular level in fields complementary to his own The predominant aim is not so much to increase the ever growing body of information in an encyclopedic fashion but rather to give in addition to a well rounded factual presentation of subjects which have reached a degree of maturation a leitmotiv developed by the individual authors from a more personal point of view The reader should thus be able to use these mono graphs not only for acquisition of knowledge but as a source of further motivation in his own work This latter and more consequential aim of the monograph series is one of the reasons for presenting here a most unusual talk which should enable the reader to sit back and view his own efforts in the context of science and creative attempts as a whole The lecture is the virtually unknown inaugural address of the Dutch physical chemist JACOBUS HENRICUS VAN T HOFF As is shown in his short biography presented on pages 3 and 4 the principal thoughts of the molecular biologist of today are akin to his own and he clearly recognized the universality of molecular life processes

**Molecular Biology, Biochemistry, and Biophysics**, 1970 **The Ribonucleic Acids** P.R. Stewart, D.S. Letham, 2012-12-06 The central role of the ribonucleic acids RNA in mediating the expression of information encoded in DNA in living cells is now well established Research in this area of biology continues at a remarkable rate and new and significant information appears almost daily in a wide range of journals published symposia and specialist reviews The scattered nature of this information makes it difficult for the newcomer to the field of ribonucleic acid biochemistry to obtain a general oversight of current activity and new advances Moreover the reviews available for the most part are concerned with rather insular aspects of these ubiquitous molecules or in the case of text books the subject is treated as part of a general out line of properties of nucleic acids and thus often tends to be superficial With these considerations in mind a postgraduate course was instituted in the university in Canberra to attempt to provide a comprehensive though not excessively detailed outline of the biological roles of RNA The course was designed for students with a sound undergraduate training in biochemistry but other wise with a wide variety of biological interests plant physiology virology organelle biochemistry genetics The chapters in this book represent the matter of that course [Microbial Ribonucleases](#) Fujio Egami, K. Nakamura, 2012-12-06

*Protein Sequence Determination* Saul B. Needleman, 2013-06-29 All the King s horses and all the King s mm couldn t put Humpty Dumpty together again It is entirely possible that the difficulty facing all the King s men was principally the lack of a sufficient guide to the techniques of reassembling from a series of small components the original entity It is the sincere hope

of the editor of the present work and of each of the contributing authors that the modern researcher will not face a similar predicament in his endeavours to reconstruct the complete primary sequence of a protein from the array of component amino acids Rather it is the intent that with this volume he may proceed untimorously if not with outright confidence toward achieving his purpose To the newcomer in protein sequencing compelled by necessity or fascination to investigate the exact order of amino acids in proteins the question of where to begin or how to do it is urgent To those more skilled a ready source of additional techniques should nevertheless be of value This volume attempts to present in a single source a discussion of the methods and techniques useful to the determination of the primary structures of proteins and peptides Hopefully this book will tell the reader how to do it

**The Ribosome** Aleksandr S. Spirin, Lidija P. Gavrilova, 2012-12-06 This monograph is neither a historical outline of the development of the concepts of protein biosynthesis and the structure and functions of the ribosomes nor an exhaustive survey of the literature on these questions The monograph is based upon an analysis of the modern trends in this field The purpose of the monograph was to formulate more or less generalized representations of the structure and function of the ribosome as we envision it at the present day It may be that this attempt is premature for a number of reasons and the concepts outlined here will very soon be revised Nonetheless despite this risk we believe it to be advisable to undertake this attempt for the following reasons firstly the undertaken analysis could aid in the comprehension of the substantial mass of extremely scattered experimental data on the ribosomes presently available secondly in any event even if most of the concepts outlined rapidly become obsolete they can still serve as a stimulus for a whole series of experiments and thirdly we hope that some of the concepts outlined will still remain essentially correct and relatively stable In view of the aforementioned we should make the following reservations First of all we made no attempt to cite all the literature on the problems discussed but considered it sufficient to illustrate the various premises with one or several sample references

Constitution and Biosynthesis of Lignin Karl Freudenberg, Arthur Charles Neish, 1968 **Berichte über die gesamte Physiologie und experimentelle Pharmakologie**, 1968 Abstracts of microbiology and hygiene, 1968 **Hoppe-Seyler's Zeitschrift Für Physiologische Chemie**, 1968 **Pflügers Archiv für die gesamte Physiologie des Menschen und der Tiere**, 1968 Berichte über die wissenschaftliche Biologie, 1969 Der Züchter, 1967 **Naunyn-Schmiedeberg's Archiv für Pharmakologie und experimentelle Pathologie**, 1968 Zentralblatt für die gesamte Neurologie und Psychiatrie, 1968 **Kongresszentralblatt Für die gesamte innere medizin und ihre medizin mit einschluss der kinderheilkunde**, 1968 **Berichte Biochimie und Biologie**, 1968 Cell and tissue research, 1968 Chemisch weekblad, 1968 Includes section Boekaankondigingen

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