

THINKING ABOUT SCIENCE

MAX DELBRÜCK
AND THE
ORIGINS OF
MOLECULAR
BIOLOGY



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THINKING
ABOUT SCIENCE



Thinking About Science Max Delbrck And The Origins Of Molecular Biology

Ernst Peter Fischer, Carol Lipson



Thinking About Science Max Delbrück And The Origins Of Molecular Biology:

Thinking about Science Ernst Peter Fischer, Carol Lipson, 1990-07-01 **Thinking about Science** Ernst Peter Fischer, Carol Lipson, 1988 The life of the man who studied astronomy theoretical physics contributed to genetics molecular biology sensory behavior and evolution and shared the Nobel Prize for Physiology and Medicine *Max Delbrück and the New Perception of Biology, 1906-1981* Walter Shropshire, 2007 Professor Max Delbrück was a charismatic scientist and winner of the Nobel Prize in Physiology or Medicine in 1969 who gathered around him numerous students colleagues and friends to explore modern quantitative approaches to biology This small book is a collection of personal reminiscences given at a Centennial Celebration of his birth at the University of Salamanca Spain in October 2006 by those who primarily joined Max in a search for understanding sensory transduction Included among the twenty three chapters and three appendices are several chapters by persons unable to attend as well as some talks presented at other centenary celebrations for Max In addition three of Max and Manny's children shared memories of their family life and activities The book was organized and edited by Walter Shropshire Jr at the invitation of the Salamanca organizing committee to make these stories available to a wider audience even though Max is well known and respected within both biology and physics research communities It is hoped that these anecdotes and insights honoring the life and work of Max will be an inspiration to others as an example of how to enjoy the creative play of innovative and significant scientific research [A History of Molecular Biology](#) Michel Morange, 2000 Every day it seems the media focus on yet another new development in biology gene therapy the human genome project the creation of new varieties of animals and plants through genetic engineering These possibilities have all emanated from molecular biology A History of Molecular Biology is a complete but compact account for a general readership of the history of this revolution Michel Morange himself a molecular biologist takes us from the turn of the century convergence of molecular biology's two progenitors genetics and biochemistry to the perfection of gene splicing and cloning techniques in the 1980s Drawing on the important work of American English and French historians of science Morange describes the major discoveries the double helix messenger RNA oncogenes DNA polymerase but also explains how and why these breakthroughs took place The book is enlivened by mini biographies of the founders of molecular biology Delbrück Watson and Crick Monod and Jacob Nirenberg This ambitious history covers the story of the transformation of biology over the last one hundred years the transformation of disciplines biochemistry genetics embryology and evolutionary biology and finally the emergence of the biotechnology industry An important contribution to the history of science A History of Molecular Biology will also be valued by general readers for its clear explanations of the theory and practice of molecular biology today Molecular biologists themselves will find Morange's historical perspective critical to an understanding of what is at stake in current biological research **History of Science in United States** Marc Rothenberg, 2012-10-12 This Encyclopedia examines all aspects of the history of science in the United States with a special emphasis placed on the

historiography of science in America It can be used by students general readers scientists or anyone interested in the facts relating to the development of science in the United States Special emphasis is placed in the history of medicine and technology and on the relationship between science and technology and science and medicine

A Guinea Pig's History of Biology Jim Endersby, 2007 Biology today promises everything from better foods or cures For common diseases to the alarming prospect of redesigning life itself Looking at the organisms that have made all this possible gives us a new way of understanding how we got here and perhaps of thinking about where we re going Instead of a history of which great scientists had which great ideas this story of passionflowers and hawkweeds of zebra fish and viruses oilers a bird s or rodent s eye view of the work that makes science possible Book Jacket

Companion to the History of Modern Science G N Cantor, G.N. Cantor, J.R.R. Christie, M.J.S. Hodge, R.C. Olby, 2020-10-07 The 67 chapters of this book describe and analyse the development of Western science from 1500 to the present day Divided into two major sections The Study of the History of Science and Selected Writings in the History of Science the volume describes the methods and problems of research in the field and then applies these techniques to a wide range of fields Areas covered include the Copernican Revolution Genetics Science and Imperialism the History of Anthropology Science and Religion Magic and Science The companion is an indispensable resource for students and professionals in History Philosophy Sociology and the Sciences as well as the History of Science It will also appeal to the general reader interested in an introduction to the subject

The Biology and History of Molecular Biology: New Perspectives Sahotra Sarkar, 1996-09-30 This book is a collection of papers which reflect the recent trends in the philosophy and history of molecular biology It brings together historians philosophers and molecular biologists who reflect on the discipline s emergence in the 1950 s its explosive growth and the directions in which it is going Questions addressed include i what are the limits of molecular biology ii What is the relation of molecular biology to older subdisciplines of biology especially biochemistry iii Are there theories in molecular biology iv If so how are these theories structured v What role did information theory play in the rise of molecular biology The book will open the way for many future researchers

A Companion to the History of American Science Georgina M. Montgomery, Mark A. Largent, 2019-09-23 A Companion to the History of American Science offers a collection of essays that give an authoritative overview of the most recent scholarship on the history of American science Covers topics including astronomy agriculture chemistry eugenics Big Science military technology and more Features contributions by the most accomplished scholars in the field of science history Covers pivotal events in U S history that shaped the development of science and science policy such as WWII the Cold War and the Women s Rights movement

Sir Rudolf Peierls: Selected Private And Scientific Correspondence (Volume 1) Sabine Lee, 2007-11-12 This edition of the private and scientific correspondence of Sir Rudolf Peierls gives a unique insight into the life and work of one of the greatest theoretical physicists of the 20th century Rudolf Peierls scientific work contributed to the early developments in quantum mechanics and he is well known and much

appreciated for his contributions to various disciplines including solid state physics nuclear physics and particle physics As an enthusiastic and devoted teacher he passed on his knowledge and understanding and inspired the work of collaborators and students alike As an effective administrator he was responsible almost single handedly for the establishment of an outstanding successful centre of theoretical physics in Birmingham and later contributed much to theoretical physics in Oxford A meticulous collector of correspondence Sir Rudolf left a fascinating collection of letters in some cases spanning more than seven decades This collection includes correspondence with his parents his wife the Russian born physicist Genia Kannegieser life long friends such as Hans Bethe and many great physicists including Wolfgang Pauli Niels Bohr Werner Heisenberg Lev Landau and George Placzek to name but a few This first volume which covers the years 1922 to 1945 contains much of the early family correspondence letters exchanged between Rudolf and Genia Peierls before and after their marriage in 1931 correspondence relating to early developments in quantum physics and interesting material relating to the development of nuclear weapons The extensive apparatus provides an invaluable background which allows the reader to put the presented documents into their multi faceted social political and scientific context

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