



PHAGE

AND THE ORIGINS OF MOLECULAR BIOLOGY

EXPANDED EDITION

EDITED BY
J. CAIRNS
G.S. STENT
J.D. WATSON



COLD SPRING HARBOR LABORATORY PRESS

Phage And The Origins Of Molecular Biology

**John Cairns, Gunther S. Stent, James D.
Watson**



Phage And The Origins Of Molecular Biology:

Phage and the Origins of Molecular Biology John Cairns, Gunther Siegmund Stent, James D. Watson, 2007 First published in 1966 as a 60th birthday tribute to Max Delbrück this influential work is republished as The Centennial Edition The book was hailed as introducing into the literature of science for the first time a self-conscious historical element in which the participants in scientific discovery engage in writing their own chronicle **Journal of History of Biology** **Phage and the Origins of Molecular Biology, the Centennial Edition** John Cairns, Gunther S. Stent, James D. Watson, 2017-10-02 This hugely influential book published in 1966 as a 60th birthday tribute to Max Delbrück is now republished as The Centennial Edition On first publication the book was hailed as introducing into the literature of science for the first time a self-conscious historical element in which the participants in scientific discovery engage in writing their own chronicle As such it is an important document in the history of biology **Journal of History of Biology** And in another review it was described as required reading for every student of experimental biology who will sense the smell and rattle of the laboratory Bioscience The book was a formative influence on many of today's leading scientists **Phage and the Origins of Molecular Biology** John Cairns, 1968 Phage and the Origins of Molecular Biology John Cairns, Gunther Siegmund Stent, James D. Watson, 1966 This is an expanded edition of the landmark collection of 35 essays by pioneers of molecular biology that was first published in 1966 as a 60th birthday tribute to Max Delbrück The book was hailed as introducing into the literature of science for the first time a self-conscious historical element in which the participants in scientific discovery engage in writing their own chronicle As such it is an important document in the history of biology **Journal of History of Biology** This new edition includes Gunther Stent's obituary of Max Delbrück two commentaries on issues raised in the book reprinted from *Scientific American* and *Science* and a new preface in which John Cairns reflects on the book's creation and molecular biology's age of innocence Phage and the origins of molecular biology Richard C. Lewontin, 1968 Félix d'Herelle and the Origins of Molecular Biology William C. Summers, 1999-06-10 A self-taught scientist determined to bring science out of the laboratory and into the practical arena French Canadian Félix d'Herelle 1873-1949 made history in two different fields of biology Not only was he first to demonstrate the use and application of bacteria for biological control of insect pests he also became a seminal figure in the history of molecular biology This engaging book is the first full biography of d'Herelle a complex figure who emulated Louis Pasteur and influenced the course of twentieth-century biology yet remained a controversial outsider to the scientific community Drawing on family papers archival sources interviews and d'Herelle's published and unpublished writings Dr William C Summers tells the fascinating story of the scientist's life and the work that took him around the globe In 1917 d'Herelle published the first paper describing the phenomenon of the bacteriophage and its biological nature A series of more than 110 articles and 6 major books followed in which d'Herelle established the foundation for the later work of the Phage Group in molecular biology Yet d'Herelle sometimes inspired

animosity in others he was drummed out of the Pasteur Institute he held only one brief permanent position in the scientific establishment at Yale University from 1928 to 1933 and he was bewildered by the social nuances of the world of international science His story is more than the biography of a single brilliant scientist it is also a fascinating chapter in the history of biology

Phage and the Origins of Molecular Biology Cold Spring Harbor Laboratory of Quantitative Biology, 1966 This is an expanded edition of the landmark collection of 35 essays by pioneers of molecular biology that was first published in 1966 as a 60th birthday tribute to Max Delbrück The book was hailed as introducing into the literature of science for the first time a self-conscious historical element in which the participants in scientific discovery engage in writing their own chronicle As such it is an important document in the history of biology *Journal of History of Biology* This new edition includes Gunther Stent's obituary of Max Delbrück two commentaries on issues raised in the book reprinted from *Scientific American* and *Science* and a new preface in which John Cairns reflects on the book's creation and molecular biology's age of innocence

Phages and the Origins of Molecular Biology John Cairns, Max Delbrück, 1966 **A Guinea Pig's History Of Biology** Jim Endersby, 2012-02-29 The triumphs of recent biology understanding hereditary disease the modern theory of evolution are all thanks to the fruit fly the guinea pig the zebra fish and a handful of other organisms which have helped us unravel one of life's greatest mysteries inheritance Jim Endersby traces his story from Darwin hand pollinating passion flowers in his back garden in an effort to find out whether his decision to marry his cousin had harmed their children to today's high-tech laboratories full of shoals of shimmering zebra fish whose bodies are transparent until they are mature allowing scientists to watch every step as a single fertilised cell multiplies to become millions of specialised cells that make up a new fish Each story has piece by piece revealed how DNA determines the characteristics of the adult organism Not every organism was as cooperative as the fruit fly or zebra fish some provided scientists with misleading answers or encouraged them to ask the wrong questions

The American Phage Group William C. Summers, 2023-01-10 A fascinating historical account of the American Phage Group and how its new research framework became the foundation for molecular biology This book is the first critical and analytical study of the American Phage Group a small group of scientists who gathered around Max Delbrück Salvador Luria and Alfred Hershey between 1940 and 1960 and how this novel research program became the foundation of the field of molecular biology These three young charismatic and iconoclastic scientists were convinced of the importance of bacterial viruses bacteriophages to the study of the gene and of heredity in general Based on substantial archival research numerous participant interviews collected over the past thirty years and an intimate knowledge of the relevant scientific literature in the field William C. Summers has written a fascinating new history of the American Phage Group Rather than a linear narrative of progress by past heroes this book emphasizes the diversity and historical contingencies in the group's development

Die Emigration der Wissenschaften nach 1933 Herbert Arthur Strauss, 1991 *Medizinhistorisches Journal*, 2006 *Geschichte der Mikrobiologie* Hans Günter Schlegel, 2004 Die vorliegende

Geschichte der Mikrobiologie vorgelegt vom Nestor dieses Faches soll den Studierenden der Biologie und allen an der Entwicklung dieser Wissenschaft Interessierten einen Grundriss in die Hand geben Sie ist keineswegs erschöpfend sondern soll durch bequeme Lektüre vermitteln welcher Anstöße und Methoden es bedurfte die Welt der Mikroben kennenzulernen und zu erforschen Heute in der Mikrobiologie aktive Wissenschaftler wie interessierte Laien werden hier jene Forscher kennenlernen die zu grossen Entdeckungen gelangt sind und welche Ideen und Konzepte sie entwickelten die ihre Gltigkeit bis heute behalten haben Eine Zeittafel bis zum Anfang der 60er Jahre zahlreiche Porträts bedeutender Forscher und Abbildung zu wichtigen Entdeckungen Biographien herausragender Protagonisten in einem besonderen Teil und Anmerkungen als Zugang zu wichtigen Arbeiten zu einschlägigen Referaten jüngerer Datums und zu manchen wissenschaftlichen und unterhaltenden Geschichten ergänzen den Band Das Buch führt die mit den Grundlagen der Mikrobiologie vertrauten Biologen zu den Wurzeln des Fachgebietes und ist für künftige Historiker die die Geschichte der Naturwissenschaften bearbeiten ein Leitfaden zur Vertiefung

The Emergence of Bacterial Genetics Thomas D. Brock, 1990 Brock U of Wisconsin highlights and analyzes the experimental work that shaped and drove the field of bacterial genetics Concentrating on the science rather than the personalities involved he discusses key data from original sources illustrating his analysis with unpublished material and conversations with surviving investigators Annotation

We Can Sleep Later Alfred Day Hershey, 2000 An absorbing portrait of the pioneering molecular biologist best known for demonstrating that DNA is the genetic component of phages through essays and reminiscences from twenty three distinguished scientists whose work and careers were influenced by the man and his science

A History of Molecular Biology Michel Morange, 1998 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 The Role of Phages in Early Molecular Genetics Luigi Marongiu, 2025-12-02 In the shadow of global conflicts from World War II through the tensions of the Cold War an extraordinary scientific revolution was quietly unfolding A brilliant collective of geneticists and microbiologists known as the Phage Group harnessed the power of bacterial viruses to unlock the very structure of genes giving birth to Molecular Biology as we know it today As antimicrobial resistance threatens global health phages have reemerged as critical subjects of scientific inquiry yet their pivotal role in the genetic discoveries of the 1940s 1960s remains largely overlooked until now The Role of Phages in Early Molecular Genetics History of an Emerging Discipline bridges history physics and virology offering both scientists and general readers a compelling narrative of how these microscopic entities revolutionized our understanding of life itself Key Features Explains how bacterial viruses became the unexpected heroes in humanity's quest to understand the genetic code Discusses the forgotten historical and social forces Lysenkoism Spencerism and McCarthyism that shaped scientific progress yet vanished from our collective memory Provides a fascinating parallel between the emergence of phage biology and quantum physics two revolutionary fields developing in tandem By illuminating the shared patterns of scientific discovery across disciplines The Role of Phages in Early Molecular Genetics History of an Emerging Discipline provides a timely reminder of how breakthrough knowledge emerges and why the Phage Group's legacy deserves its rightful place in scientific history

History of Science Alistair Cameron Crombie, Michael A. Hoskin, 1985 A review of literature and research in the history of science medicine and technology in its intellectual and social context *History and Philosophy of the Life Sciences*, 2008

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