

# **LORDS OF THE FLY**



***Drosophila* Genetics and the  
Experimental Life**

**Robert E. Kohler**

# Lords Of The Fly Drosophila Genetics And The Experimental Life

**Jean-Paul Gaudillière, Hans-Jörg  
Rheinberger**



## **Lords Of The Fly Drosophila Genetics And The Experimental Life:**

**Lords of the Fly** Robert E. Kohler, 1994-05-02 One of the most productive of all laboratory animals *Drosophila* has been a key tool in genetics research for nearly a century At the center of *Drosophila* culture from 1910 to 1940 was the school of Thomas Hunt Morgan and his students Alfred Sturtevant and Calvin Bridges who by inbreeding fruit flies created a model laboratory creature the standard fly By examining the material culture and working customs of Morgan's research group the author brings to light essential features of the practice of experimental science This book takes a broad view of experimental work ranging from how the fly was introduced into the laboratory and how it was physically redesigned for use in genetic mapping to how the *Drosophilists* organized an international network for exchanging fly stocks that spread their practices around the world Back cover

**Lords of the Fly** Robert E. Kohler, 1994-05-02 The common fruit fly *Drosophila* has long been one of the most productive of all laboratory animals From 1910 to 1940 the center of *Drosophila* culture in America was the school of Thomas Hunt Morgan and his students Alfred Sturtevant and Calvin Bridges They first created standard flies through inbreeding and by organizing a network for exchanging stocks of flies that spread their practices around the world In *Lords of the Fly* Robert E Kohler argues that fly laboratories are a special kind of ecological niche in which the wild fruit fly is transformed into an artificial animal with a distinctive natural history He shows that the fly was essentially a laboratory tool whose startling productivity opened many new lines of genetic research Kohler also explores the moral economy of the *Drosophilists* the rules for regulating access to research tools allocating credit for achievements and transferring authority from one generation of scientists to the next By closely examining the *Drosophilists* culture and customs Kohler reveals essential features of how experimental scientists do their work

## **Radium and the Secret of Life** Luis A.

Campos, 2015-04-03 Before the hydrogen bomb indelibly associated radioactivity with death many chemists physicians botanists and geneticists believed that radium might hold the secret to life Physicists and chemists early on described the wondrous new element in lifelike terms such as decay and half life and made frequent references to the natural selection and evolution of the elements Meanwhile biologists of the period used radium in experiments aimed at elucidating some of the most basic phenomena of life including metabolism and mutation From the creation of half living microbes in the test tube to charting the earliest histories of genetic engineering *Radium and the Secret of Life* highlights previously unknown interconnections between the history of the early radioactive sciences and the sciences of heredity Equating the transmutation of radium with the biological transmutation of living species biologists saw in metabolism and mutation properties that reminded them of the new element These initially provocative metaphoric links between radium and life proved remarkably productive and ultimately led to key biological insights into the origin of life the nature of heredity and the structure of the gene *Radium and the Secret of Life* recovers a forgotten history of the connections between radioactivity and the life sciences that existed long before the dawn of molecular biology

## **Science in the Twentieth Century** John

Krige, Dominique Pestre, 2013-11-19 With over forty chapters written by leading scholars this comprehensive volume represents the best work in America Europe and Asia Geographical diversity of the authors is reflected in the different perspectives devoted to the subject and all major disciplinary developments are covered There are also sections concerning the countries that have made the most significant contributions the relationship between science and industry the importance of instrumentation and the cultural influence of scientific modes of thought Students and professionals will come to appreciate how and why science has developed as with any other human activity it is subject to the dynamics of society and politics

*Embryogenesis Explained* Natalie K Gordon, Richard Gordon, 2016-09-15 The greatest mystery of life is how a single fertilized egg develops into a fully functioning sometimes conscious multicellular organism Embryogenesis Explained offers a new theory of how embryos build themselves and combines simple physics with the most recent biochemical and genetic breakthroughs based on the authors prediction and then discovery of differentiation waves They explain their ideas in a form accessible to the lay person and a broad spectrum of scientists and engineers The diverse subjects of development genetics and evolution and their physics are brought together to explain this major previously unanswered scientific question of our time As a follow up on The Hierarchical Genome this book is a shorter but conceptually expanded work for the reader who is interested in science It is useful as a starting point for the curious layman or the scientist or professional encountering the problem of embryogenesis without the formal biology background There is also material useful for the seasoned biologist caught up in the new rush of information about the role of mechanics in developmental biology and cellular level mechanics in medicine

*A Short History of Medicine* Erwin H. Ackerknecht, 2016-05-01 A bestselling history of medicine enriched with a new foreword concluding essay and bibliographic essay Erwin H Ackerknecht s *A Short History of Medicine* is a concise narrative long appreciated by students in the history of medicine medical students historians and medical professionals as well as all those seeking to understand the history of medicine Covering the broad sweep of discoveries from parasitic worms to bacilli and x rays and highlighting physicians and scientists from Hippocrates and Galen to Pasteur Koch and Roentgen Ackerknecht narrates Western and Eastern civilization s work at identifying and curing disease He follows these discoveries from the library to the bedside hospital and laboratory illuminating how basic biological sciences interacted with clinical practice over time But his story is more than one of laudable scientific and therapeutic achievement Ackerknecht also points toward the social ecological economic and political conditions that shape the incidence of disease Improvements in health Ackerknecht argues depend on more than laboratory knowledge they also require that we improve the lives of ordinary men and women by altering social conditions such as poverty and hunger This revised and expanded edition includes a new foreword and concluding biographical essay by Charles E Rosenberg Ackerknecht s former student and a distinguished historian of medicine A new bibliographic essay by Lisa Haushofer explores recent scholarship in the history of medicine

*Genetics and Reductionism* Sahotra Sarkar, 1998-10-13 With the advent of the Human Genome Project there

have been many claims for the genetic origins of complex human behavior including insanity criminality and intelligence But what does it really mean to call something genetic This is the fundamental question that Sahotra Sarkar's book addresses The author analyses the nature of reductionism in classical and molecular genetics He shows that there are two radically different kinds of reductionist explanation genetic reduction as found in classical genetics and physical reduction found in molecular genetics This important book clarifies the meaning of the term genetic shows how molecular studies have affected genetics and provides the philosophical background necessary to understand the debates over the Human Genome Project It will be of particular interest to professionals and students in the philosophy of science the history of science and the social studies of science medicine and technology *The Science of Human Perfection* Nathaniel Comfort, 2012-09-25 A thoughtful new look at the entwined histories of genetic medicine and eugenics with probing discussion of the moral risks of seeking human perfection

**Landscapes and Labscapes** Robert E. Kohler, 2010-11-15 What is it like to do field biology in a world that exalts experiments and laboratories How have field biologists assimilated laboratory values and practices and crafted an exact quantitative science without losing their naturalist souls In *Landscapes and Labscapes* Robert E Kohler explores the people places and practices of field biology in the United States from the 1890s to the 1950s He takes readers into the fields and forests where field biologists learned to count and measure nature and to read the imperfect records of nature's experiments He shows how field researchers use nature's particularities to develop practices of place that achieve in nature what laboratory researchers can only do with simplified experiments Using historical frontiers as models Kohler shows how biologists created vigorous new border sciences of ecology and evolutionary biology

**Classical Genetic Research and Its Legacy** Jean-Paul Gaudillière, Hans-Jörg Rheinberger, 2004-10-07 With the rise of genomics the life sciences have entered a new era This book provides a comprehensive history of mapping procedures as they were developed in classical genetics An accompanying volume *From Molecular Genetics to Genomics* covers the history of molecular genetics and genomics The book shows that the technology of genetic mapping is by no means a recent acquisition of molecular genetics or even genetic engineering It demonstrates that the development of mapping technologies has accompanied the rise of modern genetics from its very beginnings In Section One Mendelian genetics is set in perspective from the viewpoint of the detection and description of linkage phenomena Section Two addresses the role of mapping for the experimental working practice of classical geneticists their social interactions and for the laboratory life worlds With detailed analyses of the scientific practices of mapping and its illustration of the diversity of mapping practices this book is a significant contribution to the history of genetics A companion volume from the same editors *From Molecular Genetics to Genomics The Mapping Cultures of Twentieth Century Genetics* covers the history of molecular genetics and genomics

Model Behavior Nicole C. Nelson, 2018-04-04 Mice are used as model organisms across a wide range of fields in science today but it is far from obvious how studying a mouse in a maze can help us understand human problems like alcoholism or anxiety How do scientists

convince funders fellow scientists the general public and even themselves that animal experiments are a good way of producing knowledge about the genetics of human behavior In *Model Behavior* Nicole C Nelson takes us inside an animal behavior genetics laboratory to examine how scientists create and manage the foundational knowledge of their field Behavior genetics is a particularly challenging field for making a clear cut case that mouse experiments work because researchers believe that both the phenomena they are studying and the animal models they are using are complex These assumptions of complexity change the nature of what laboratory work produces Whereas historical and ethnographic studies traditionally portray the laboratory as a place where scientists control simplify and stabilize nature in the service of producing durable facts the laboratory that emerges from Nelson's extensive interviews and fieldwork is a place where stable findings are always just out of reach The ongoing work of managing precarious experimental systems means that researchers learn as much if not more about the impact of the environment on behavior as they do about genetics *Model Behavior* offers a compelling portrait of life in a twenty first century laboratory where partial provisional answers to complex scientific questions are increasingly the norm

*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

*Deep Homology?* Lewis I. Held, Jr, 2017-01-28 Humans and flies look nothing alike yet their genetic circuits are remarkably similar Here Lewis I Held Jr compares the genetics and development of the two to review the evidence for deep homology the biggest discovery from the emerging field of evolutionary developmental biology Remnants of the operating system of our hypothetical common ancestor 600 million years ago are compared in chapters arranged by region of the body from the nervous system limbs and heart to vision hearing and smell Concept maps provide a clear understanding of the complex subjects addressed while encyclopaedic tables offer comprehensive inventories of genetic information Written in an engaging style with a reference section listing thousands of relevant publications this is a vital resource for scientific researchers and graduate and undergraduate students

**Living Legacies at Columbia** William Theodore De Bary, 2006 From Margaret Mead and Zora Neale Hurston to Lionel Trilling and Lou Gehrig Columbia University has been home to some of the most important historians scientists critics artists physicians and social scientists of the twentieth century It can also boast a hall of fame athlete In *Living Legacies at Columbia* contributors with close personal ties to their subjects capture Columbia's rich intellectual history Essays span the birth of genetics and modern anthropology constitutionalism from John Jay to Ruth Bader Ginsberg Virginia Apgar's test Lou Gehrig's swing journalism education black power public health the development of Asian studies the Great Books Movement gender studies human rights and numerous other realms of

teaching and discovery They include Eric Foner on historian Richard Hoftstader Isaac Levi and Sidney Hook on John Dewey David Rosand on art historian Meyer Schapiro John Hollander on critic Mark Van Doren Donald Keene on Asian studies Jacques Barzun on history Eric Kandel on geneticist Thomas Hunt Morgan and Rosalind Rosenberg on Franz Boas and his three most famous pupils Ruth Benedict Margaret Mead and Zora Neale Hurston Much more than an institutional history Living Legacies captures the spirit of a great university through the stories of gifted men and women who have worked taught and studied at Columbia It includes stories of struggle and breakthrough searching and discovery tradition and transformation     Genetic Medicine Barton Childs,2003-09-15 In Genetic Medicine A Logic of Disease Barton Childs

demonstrates that knowledge of the ways both genes and environment contribute to disease provides a rational basis for medical thinking This genetic medicine he explains should help the physician use the results of laboratory tests to perceive the uniqueness of the patient as well as that of the family and the cultural conditions in which the patient's condition arose Childs thus provides a conceptual framework within which to teach and practice a humane medicine     **The Recombinant University** Doogab Yi,2015-03-23 The advent of recombinant DNA technology in the 1970s was a key moment in the history of both biotechnology and the commercialization of academic research Doogab Yi's The Recombinant University draws us deeply into the academic community in the San Francisco Bay Area where the technology was developed and adopted as the first major commercial technology for genetic engineering In doing so it reveals how research patronage market forces and legal developments from the late 1960s through the early 1980s influenced the evolution of the technology and reshaped the moral and scientific life of biomedical researchers Bay Area scientists university administrators and government officials were fascinated by and increasingly engaged in the economic and political opportunities associated with the privatization of academic research Yi uncovers how the attempts made by Stanford scientists and administrators to demonstrate the relevance of academic research were increasingly mediated by capitalistic conceptions of knowledge medical innovation and the public interest Their interventions resulted in legal shifts and moral realignments that encouraged the privatization of academic research for public benefit The Recombinant University brings to life the hybrid origin story of biotechnology and the ways the academic culture of science has changed in tandem with the early commercialization of recombinant DNA technology     **Foucault and Animals** Matthew Chrulew,Dinesh Joseph Wadiwel,2016-11-01 Foucault and Animals is the first collection of its kind to explore the relevance of Michel Foucault's thought for the question of the animal Chrulew and Wadiwel bring together essays from emerging and established scholars that illuminate the place of animals and animality within Foucault's texts and open up his highly influential range of concepts and methods to different domains of human animal relations including experimentation training zoological gardens pet keeping agriculture and consumption Touching on themes such as madness and discourse power and biopolitics government and ethics and sexuality and friendship the volume takes the fields of Foucault studies and human animal studies into promising new directions     The Evolutionary Biology of

Flies David K. Yeates, Brian M. Wiegmann, 2005 Flies Diptera have had an important role in deepening scientists understanding of modern biology and evolution The study of flies has figured prominently in major advances in the fields of molecular evolution physiology genetics phylogenetics and ecology over the last century This volume with contributions from top scientists and scholars in the field brings together diverse aspects of research and will be essential reading for entomologists and fly researchers

**Reconceiving the Gene** Frederic Lawrence Holmes, 2008-10-01 This book relates how between 1954 and 1961 the biologist Seymour Benzer mapped the fine structure of the rII region of the genome of the bacterial virus known as phage T4 Benzer s accomplishments are widely recognized as a tipping point in mid twentieth century molecular biology when the nature of the gene was recast in molecular terms More often than any other individual he is considered to have led geneticists from the classical gene into the molecular age Drawing on Benzer s remarkably complete record of his experiments his correspondence and published sources this book reconstructs how the former physicist initiated his work in phage biology and achieved his landmark investigation The account of Benzer s creativity as a researcher is a fascinating story that also reveals intriguing aspects common to the scientific enterprise

**From Molecular Genetics to Genomics** Jean-Paul Gaudillière, Hans-Jörg Rheinberger, 2004-10-07 With the rise of genomics the life sciences have entered a new era This book provides a comprehensive history of molecular genetics and genomics



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