



Sturtevant & Dobzhansky  
Two Scientists at Odds  
With a Student's Recollections



Edward Novitski

With a Foreword by James F. Crow

# Sturtevant And Dobzhansky Two Scientists At Odds

**Scott F. Stoltenberg**



## **Sturtevant And Dobzhansky Two Scientists At Odds:**

*Sturtevant and Dobzhansky, Two Scientists at Odds* Edward Novitski, 2005 The account is at the outset largely anecdotal detailing a series of amusing or otherwise interesting events occurring during decades of work in the field of genetics These could be palatable to any reader This is followed by an autobiographical account of the early days of the author which is presented to show the activities and thought processes of a young boy with a logical mathematical orientation growing up during the depression years of the 1930 s and the sequence of events that led to a career in the field of genetics During the period of graduate work which was started under Th Dobzhansky and finished under A H Sturtevant the writer became familiar with the personalities and work styles of both Eventually they fell apart and engaged in an open confrontation A personal view of this was initially the main thrust of the presentation The next segment concerns an account of some of the unique triumphs and failures encountered in the pursuit of solutions to problems in this area followed by thoughts of the author and several others on the nature of research in science Finally we have included the reprints of several articles pertinent to the overall presentation including an unusually perceptive analysis by Prof Richard Lewontin on the research style of Th Dobzhansky and an article by Prof A H Sturtevant commenting on several of his papers

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Юрий Александрович Филипченко и его окружение. К 100-летию основания кафедры генетики и экспериментальной зоологии в Петроградском университете Сергей Фокин, Илья Захаров-Гезехус, 2020-05-13 1919 1920 1930 1918 1923 1906 1930 1926 1880 2010 1919 XX

**The Philosopher's Index**, 2007 Vols for 1969 include a section of abstracts

Reader's Guide to the History of Science Arne Hessenbruch, 2013-12-16 The Reader s Guide to the History of Science looks at the literature of science in some 550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts

Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn **The Ohio Journal of Science**, 1972 Includes book reviews and abstracts **Philosophy of Evolutionary Biology** Stefan Linquist, 2017-03-02 The impact of evolutionary theory on the philosophy of science has been no less profound than its impact on the science of biology itself Advances in this theory provide a rich set of examples for thinking about the nature of scientific explanation and the structure of science Many of the developments in our understanding of evolution resulted from contributions by both philosophers and biologists engaging over theoretical questions of mutual interest This volume traces some of the most influential exchanges in this field over the last few decades Focal topics include the nature of biological functions adaptationism as an explanatory and methodological doctrine the levels of selection debate the concepts of fitness and drift and the relationship of evolutionary to developmental biology *Models and Algorithms for Genome Evolution* Cedric Chauve, Nadia El-Mabrouk, Eric Tannier, 2013-09-17 This authoritative text reference presents a review of the history current status and potential future directions of computational biology in molecular evolution Gathering together the unique insights of an international selection of prestigious researchers this must read volume examines the latest developments in the field the challenges that remain and the new avenues emerging from the growing influx of sequence data These viewpoints build upon the pioneering work of David Sankoff one of the founding fathers of computational biology and mark the 50th anniversary of his first scientific article The broad spectrum of rich contributions in this essential collection will appeal to all computer scientists mathematicians and biologists involved in comparative genomics phylogenetics and related areas **Distributed and Sequential Algorithms for Bioinformatics** Kayhan Erciyes, 2015-10-31 This unique textbook reference presents unified coverage of bioinformatics topics relating to both biological sequences and biological networks providing an in depth analysis of cutting edge distributed algorithms as well as of relevant sequential algorithms In addition to introducing the latest algorithms in this area more than fifteen new distributed algorithms are also proposed Topics and features reviews a range of open challenges in biological sequences and networks describes in detail both sequential and parallel distributed algorithms for each problem suggests approaches for distributed algorithms as possible extensions to sequential algorithms when the distributed algorithms for the topic are scarce proposes a number of new distributed algorithms in each chapter to serve as potential starting points for further research concludes each chapter with self test exercises a summary of the key points a comparison of the algorithms described and a literature review **Foundations of Behavior Genetics** Scott F. Stoltenberg, 2022-07-07 This text is a current comprehensive introduction to the link between genes and behavior *Darwinism, Democracy, and Race* John Jackson, David Depew, 2017-07-06 Cover Half Title Title Page Copyright Page Dedication Table of Contents Acknowledgments 1 Introduction in the footsteps of Franz Boas 2 Franz Boas and the argument from presumption 3 Demarcating anthropology the boundary work of Alfred Kroeber 4 Theodosius

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*Phylogenetic Inference, Selection Theory, and History of Science* Rasmus Grønfeldt Winther, 2018-07-19 A W F Edwards is one of the most influential mathematical geneticists in the history of the discipline One of the last students of R A Fisher Edwards pioneered the statistical analysis of phylogeny in collaboration with L L Cavalli Sforza and helped establish Fisher's concept of likelihood as a standard of statistical and scientific inference In this book edited by philosopher of science Rasmus Grønfeldt Winther Edwards's key papers are assembled alongside commentaries by leading scientists discussing Edwards's influence on their own research and on thinking in their field overall In an extensive interview with Winther Edwards offers his thoughts on his contributions their legacy and the context in which they emerged This book is a resource both for anyone interested in the history and philosophy of genetics statistics and science and for scientists seeking to develop new algorithmic and statistical methods for understanding the genetic relationships between and among species both extant and extinct

**Notable Twentieth-century Scientists** Emily J. McMurray, 1995 Alfabetisk ordnet opslagsværk over naturvidenskabsmænd og kvinder fra hele verden med angivelse af egne værker og værker om Comparative Genomics Francesca D. Ciccarelli, István Miklós, 2009-09-30 As genome sequencing costs continue their downward spiral sequencing of closely related organisms has become increasingly affordable The growing amount of genomic data available demands for the constant development of computational tools to be applied in comparative genomics The RECOMB Workshop on Comparative Genomics RECOMB CG is devoted to bringing together scientists working on all aspects of comparative genomics from computer scientists mathematicians and statisticians working on novel computational approaches for genome analysis and comparison to biologists applying these computational tools to study the structure and the evolution of prokaryotic and eukaryotic genomes This volume contains the 19 papers presented at the 7th Annual RECOMB CG workshop held during September 27-29 2009 at the Renyi Institute in Budapest Hungary The papers published in these proceedings were selected for oral presentation from 31 submissions from scientists around the world Each paper was reviewed by at least three members of the Program Committee in a stringent and thoughtful peer review process

**Comparative Genomics** D. Sankoff, J.H. Nadeau, 2012-12-06 A comprehensive account of genomic rearrangement focusing on the mechanisms of inversion translocation gene and genome duplication and gene transfer and on the patterns that result from them in comparative maps Includes analyses of genomic sequences in organelles prokaryotes and eukaryotes as well as comparative maps of the nuclear genomes in higher plants and animals The book showcases a variety of algorithmic and statistical approaches to rearrangement and map data

**Lives of a Biologist** John Tyler. BONNER, John Tyler Bonner, 2009-06-30 Beginning with the discovery of genes on chromosomes and culminating with the unmasking of the most minute genetic

mysteries the twentieth century saw astounding and unprecedented progress in the science of biology In an illustrious career that spanned most of the century biologist John Bonner witnessed many of these advances firsthand Part autobiography part history of the extraordinary transformation of biology in his time Bonner's book is truly a life in science the story of what it is to be a biologist observing the unfolding of the intricacies of life itself Bonner's scientific interests are nearly as varied as the concerns of biology ranging from animal culture to evolution from life cycles to the development of slime molds And the extraordinary cast of characters he introduces is equally diverse among them Julian Huxley J B S Haldane Leon Trotsky and Evelyn Waugh Writing with a charm and freshness that bring the most subtle nuances of science to life he pursues these interests through the hundred years that gave us the discovery of embryonic induction the interpretation of evolution in terms of changes in gene frequency in a population growth in understanding of the biochemistry of the cell the beginning of molecular genetics remarkable insights into animal behavior the emergence of sociobiology and the simplification of ecological and evolutionary principles by means of mathematical models In this panoramic view we see both the sweep of world events and scientific progress and the animating details the personal observations and experiences of a career conducted in their midst In Bonner's view biology is essentially the study of life cycles His book marking the cycles of a life in biology is a fitting reflection of this study with its infinite and infinitesimal permutations

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a Biologist Adventures in a Century of Extraordinary Science Bonner smoothly integrates advances in biology during the 20th century with tales from a life that now stretches into its ninth decade In simple but elegant prose he revisits some of the most important biological advances from embryology to molecular genetics Sally Squires Washington Post Reviews of this book Here is a man of prodigious scientific talent who emerges in Lives of a Biologist as the best kind of scientist a man fascinated by the things he is investigating and finding great joy in them This is a life well and fulfilling lived told with warmth and humor John R G Turner New York Times Book Review Reviews of this book This memoir by the great celebrant of slime moulds offers a fascinating overview of a century of biology Bonner tells of changes in biological thinking and his own pervasive influence in the study of life cycles and morphogenesis New Scientist Reviews of this book A gracefully written memoir Bonner who began his career as an embryologist provides many insights regarding the changing fashions he and others have observed in the field of developmental biology K B Sterling Choice A gracious and immensely enjoyable memoir from an era in which scientists could still be gentlemen Bonner s generosity of spirit shines through on almost every page Evelyn Fox Keller MIT Imagine a wonderful writer who just keeps writing book after book and just keeps getting more and more readable with each one That s John Bonner Now he s done a memoir full of magic names from the past where his kind humor softens a keen eye for human antics including his own If you like biology biography and history of science and don t mind having fun reading it then this book is for you I would get two one to keep and one to loan Mary Jane West Eberhard Smithsonian Tropical Research Institute Surely there can be few scientists with the breadth of knowledge the puckish wit and the all round modest good humor that John Bonner displays in this splendid memoir Long may he write Anne Firor Scott W K Boyd Professor of History emerita Duke University A charming personal account of the ascendance of the life sciences to their current dominance by someone who has been there Few biologists grasp their discipline at as many levels as John Tyler Bonner does and even fewer can claim as many firsthand encounters with the greats of the past century The result is an autobiography that is both delightful and informative Frans de Waal Living Links Center at Emory University This is a delightful memoir by one of the most charming and well spoken biologists on the planet John Tyler Bonner s career now spans half a dozen scientific generations from each of which he has gathered friends and wisdom In looking back he illuminates both the story of his life and the story of life Jonathan Weiner author of The Beak of the Finch and Time Love and Memory

Comparative Genomics Eric Tannier, 2010-10-06 The complexity of genome evolution has given birth to exciting challenges for computational biologists A various range of algorithmic statistical mathematical techniques to elucidate the histories of molecules are developed each year and many are presented at the RECOMB satellite workshop on Comparative Genomics It is a place where scientists working on all aspects of comparative genomics can share ideas on the development of tools and their application to relevant questions This volume contains the papers presented at RECOMB CG 2010 held on October 9-11 in Ottawa The field is still flourishing as seen from the papers presented this year many developments enrich the

combinatorics of genome rearrangements while gene order phylogenies are becoming more and more curate thanks to a mixing of combinatorial and statistical principles associated with rapid and thoughtful heuristics Several papers tend to refine the models of genome evolution and more and more genomic events can be modeled from single nucleotide substitutions in whole genome alignments to large structural mutations or horizontal gene transfers **Science** John Michels

(Journalist),2002 *Handbook of Statistical Genetics* David J. Balding,Martin Bishop,Chris Cannings,2008-06-10 The Handbook for Statistical Genetics is widely regarded as the reference work in the field However the field has developed considerably over the past three years In particular the modeling of genetic networks has advanced considerably via the evolution of microarray analysis As a consequence the 3rd edition of the handbook contains a much expanded section on Network Modeling including 5 new chapters covering metabolic networks graphical modeling and inference and simulation of pedigrees and genealogies Other chapters new to the 3rd edition include Human Population Genetics Genome wide Association Studies Family based Association Studies Pharmacogenetics Epigenetics Ethic and Insurance As with the second Edition the Handbook includes a glossary of terms acronyms and abbreviations and features extensive cross referencing between the chapters tying the different areas together With heavy use of up to date examples real life case studies and references to web based resources this continues to be must have reference in a vital area of research Edited by the leading international authorities in the field David Balding Department of Epidemiology Public Health Imperial College An advisor for our Probability Statistics series Professor Balding is also a previous Wiley author having written Weight of Evidence for Forensic DNA Profiles as well as having edited the two previous editions of HSG With over 20 years teaching experience he s also had dozens of articles published in numerous international journals Martin Bishop Head of the Bioinformatics Division at the HGMP Resource Centre As well as the first two editions of HSG Dr Bishop has edited a number of introductory books on the application of informatics to molecular biology and genetics He is the Associate Editor of the journal Bioinformatics and Managing Editor of Briefings in Bioinformatics Chris Cannings Division of Genomic Medicine University of Sheffield With over 40 years teaching in the area Professor Cannings has published over 100 papers and is on the editorial board of many related journals Co editor of the two previous editions of HSG he also authored a book on this topic **Plant Breeding**

Darbeshwar Roy,2000 This book describes the experimental and analytical methodologies available for the genetical analysis of qualitative quasi quantitative and quantitative traits and its applications in practical plant breeding and evolution Models for studying quantitative genetic variation following Birmingham and Edinburgh notations are described The statistics used is simple and systematic so that the reader will have no difficulty in solving problems in plant genetics It describes the genetic principles and provides breeding procedures underlying various breeding methods for manipulating qualitative quasi quantitative and quantitative traits It takes into account the latest developments in breeding methodologies including dihaploidy and apomixis applications of tissue culture for plant breeding use genetic engineering for production of



transgenics and hybrids and molecular marker technologies in the analysis of quantitative trait loci marker assisted selection evolution and conservation of genetic resources This book will be useful for undergraduates postgraduates teachers and researchers working in the field of genetics and plant breeding

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