

MARSHALL ABRAMS  
PHILOSOPHY, PROBABILITY, AND  
SCIENTIFIC PRACTICE IN BIOLOGY



# EVOLUTION

AND THE MACHINERY OF CHANCE

# Chance In Biology

**David Bohm**



## **Chance In Biology:**

*Chance in Biology* Mark Denny, Steven Gaines, 2011-10-23 Life is a chancy proposition from the movement of molecules to the age at which we die chance plays a key role in the natural world Traditionally biologists have viewed the inevitable noise of life as an unfortunate complication The authors of this book however treat random processes as a benefit In this introduction to chance in biology Mark Denny and Steven Gaines help readers to apply the probability theory needed to make sense of chance events using examples from ocean waves to spiderwebs in fields ranging from molecular mechanics to evolution Through the application of probability theory Denny and Gaines make predictions about how plants and animals work in a stochastic universe Is it possible to pack a variety of ion channels into a cell membrane and have each operate at near peak flow Why are our arteries rubbery The concept of a random walk provides the necessary insight Is there an absolute upper limit to human life span Could the sound of a cocktail party burst your eardrums The statistics of extremes allows us to make the appropriate calculations How long must you wait to see the detail in a moonlit landscape Can you hear the noise of individual molecules The authors provide answers to these and many other questions After an introduction to the basic statistical methods to be used in this book the authors emphasize the application of probability theory to biology rather than the details of the theory itself Readers with an introductory background in calculus will be able to follow the reasoning and sets of problems together with their solutions are offered to reinforce concepts The use of real world examples numerous illustrations and chapter summaries all presented with clarity and wit make for a highly accessible text By relating the theory of probability to the understanding of form and function in living things the authors seek to pique the reader's curiosity about statistics and provide a new perspective on the role of chance in biology

*Chance in Evolution* Grant Ramsey, Charles H. Pence, 2016-10-25 This illuminating volume explores the effects of chance on evolution covering diverse perspectives from scientists philosophers and historians The evolution of species from single celled organisms to multicellular animals and plants is the result of a long and highly chancy history But how profoundly has chance shaped life on earth And what precisely do we mean by chance Bringing together biologists philosophers of science and historians of science *Chance in Evolution* is the first book to untangle the far reaching effects of chance contingency and randomness on the evolution of life The book begins by placing chance in historical context starting with the ancients and moving through Darwin to contemporary biology It documents the shifts in our understanding of chance as Darwin's theory of evolution developed into the modern synthesis and how the acceptance of chance in Darwinian theory affected theological resistance to it Other chapters discuss how chance relates to the concepts of genetic drift mutation and parallel evolution as well as recent work in paleobiology and the experimental evolution of microbes By engaging in collaboration across biology history philosophy and theology this book offers a comprehensive overview both of the history of chance in evolution and of our current understanding of the impact of chance on life

*The Empire of Chance* Gerd Gigerenzer, 1989 Connects the earliest

applications of probability and statistics in gambling and insurance to the most recent applications in law medicine polling and baseball as well as their impact on biology physics and psychology

### **Evolution and the Machinery of Chance**

Marshall Abrams, 2023-07-11 An innovative view of the role of fitness concepts in evolutionary theory Natural selection is one of the factors responsible for changes in biological populations Some traits or organisms are fitter than others and natural selection occurs when there are changes in the distribution of traits in populations because of fitness differences Many philosophers of biology insist that a trait's fitness should be defined as an average of the fitnesses of individual members of the population that have the trait Marshall Abrams argues convincingly against this widespread approach As he shows it conflicts with the roles that fitness is supposed to play in evolutionary theory and with the ways that evolutionary biologists use fitness concepts in empirical research The assumption that a causal kind of fitness is fundamentally a property of actual individuals has resulted in unnecessary philosophical puzzles and years of debate Abrams came to see that the fitnesses of traits that are the basis of natural selection cannot be defined in terms of the fitnesses of actual members of populations as philosophers of biology often claim Rather it is an overall population environment system not actual particular organisms living in particular environmental conditions that is the basis of trait fitnesses Abrams argues that by distinguishing different classes of fitness concepts and the roles they play in the practice of evolutionary biology we can see that evolutionary biologists diverse uses of fitness concepts make sense together and are consistent with the idea that fitness differences cause evolution Abrams's insight has broad significance for it provides a general framework for thinking about the metaphysics of biological evolution and its relations to empirical research As such it is a game changing book for philosophers of biology biologists who want deeper insight into the nature of evolution and anyone interested in the applied philosophy of probability

*Chance, Calculation and Life* Thierry Gaudin, Marie-Christine Maurel, Jean-Charles Pomerol, 2021-03-26

*Chance Calculation and Life* brings together 16 original papers from the colloquium of the same name organized by the International Cultural Center of Cerisy in 2019 From mathematics to the humanities and biology there are many concepts and questions related to chance What are the different types of chance Does chance correspond to a lack of knowledge about the causes of events or is there a truly intrinsic and irreducible chance Does chance preside over our decisions Does it govern evolution Is it at the origin of life What part do chance and necessity play in biology This book answers these fundamental questions by bringing together the clear and richly documented contributions of mathematicians physicists biologists and philosophers who make this book an incomparable tool for work and reflection

*The God of Chance and Purpose* Bradford

McCall, 2022-02-10 This brief title will pursue a triangulation of chance divine involvement and theology through a fundamentally Peircean lens at least epistemologically and semiotically The argument proceeds over five distinct chapters and a conclusion that constitutes a sixth chapter In Part I I discuss the Modern Synthetic theory in evolutionary biology In particular I refer to what I have labeled the secular evolutionary worldview SEW Also in Part I I dismiss the French physicist

Pierre Simon de Laplace's claim that a sufficiently informed intelligence could forecast everything that is going to happen in the whole universe and working backwards tell you everything that did happen not by direct citation and rebuke but rather by implicit argumentation and demonstration of the God of Chance In Part II of this book I explore the God of chance and purpose with theological assists provided by Philip Clayton and Alister McGrath over two chapters So then we live in a world of both chance and purpose One may even go so far as to state that this world is designed for both chance and purpose

**Nature, Nurture and Chance** Frank Fenner, 2006-07-01 Microbiologists Virologists Educators Geographers Biography Australia  
**Anti-Chance** E. Schoffeniels, 2016-07-29 Anti Chance A Reply to Monod's Chance and Necessity is a critique of Jacques Monod's essay on the natural philosophy of modern biology It explores the concepts of chance and necessity central themes of Monod's work and specifically whether life is the result of coincidence of diverse independent chains of causality or on the contrary whether it obeys the more fundamental concept of chance as proposed by the Danish School of physicists Questions such as the chance or the inevitability of it all the sites and sizes of the knowledge gaps and as to whether they will be filled with physics and chemistry on the one hand or seasoned with metaphysics on the other are examined This book is comprised of 10 chapters and begins with reflections on biology and the argument that biology can only enrich itself by abandoning a teleological or finalist mode of thought The discussion then turns to probabilities of chance with emphasis on three different mechanisms of the intervention of chance Subsequent chapters focus on the link between thermodynamics and biological order the basis for a theoretical biology and 14 propositions to which the fundamental attributes of cells can be reduced the molecular basis of instinct and the relationship between speech and consciousness The applicability of cybernetics to biological systems and their component metabolic cycles is also considered along with the structure of chance This monograph will be of interest to scientists in fields ranging from biology and natural philosophy to physics chemistry and physiology  
**Chance in Evolution** Grant Ramsey, Charles H. Pence, 2016-10-25 The first book to synthesize scientific and philosophical work on chance this edited volume brings together leading biologists philosophers of science and historians of science who collectively explore the role that chance plays or doesn't play as the case may be in evolution The first part of the volume places chance in historical context and explores how Darwin along with his contemporaries understood chance in addition to its related concepts how these various concepts changed as Darwin's theory of evolution by natural selection developed into the Modern Synthesis and how the chanciness of Darwinian theory affected theological resistance to it The second part explores the importance of chance in current evolutionary theory The third and final part focuses on recent empirical work in microbial experimental evolution and paleobiology with the goal of determining how much of a role chance and contingency has played and continues to play in the history of life The volume's final chapter investigates the perennial topic of chance in human evolution beginning with the pre-Darwinian theistic view that humans are at the pinnacle of the natural world and ending with the Darwinian view which leaves no room for biological progress It

ultimately presents a more tempered view of biological progress and suggests that although our arrival on the evolutionary scene might not have been inevitable it might not have been due to chance alone

**The Theory of Chance Distribution as Applied to Biology** John Brownlee,191? *The Good Life* Charles Colson,2012-01-12 Sharing from his own life as well as the stories of others Chuck Colson exposes the counterfeits of the good life and leads readers to the only true source of meaning and purpose Jesus Christ But he does that in an unusual way allowing powerful stories to illustrate how people have lived out their beliefs in ways that either satisfy or leave them empty Colson addresses seekers people looking for the truth He shows through stories that the truth is knowable and that the truly good life is one that lives within the truth Through the book readers get to understand their own stories and find answers to their own search for meaning purpose and truth

**Transactions of the Kentucky Academy of Science** Kentucky Academy of Science,1924 List of members in v 1

**The Charles Colson Collection: The Good Life / How Now Shall We Live?** Charles Colson,2017-01-10 This collection bundles two of popular author Chuck Colson s classics into one volume for a great value The Good Life What constitutes the good life Chuck Colson explores the ways in which people define and live the pursuit of happiness Colson uses fascinating real life stories to illustrate the philosophies and worldviews by which individuals seek the good life Colson speaks directly and revealingly about his Watergate years and he examines the beliefs and assumptions that make up the fabric of our lives The Good Life searches for answers to the questions we all ask Who am I Why am I here How can I make my life count How Now Shall We Live True Christianity goes far beyond John 3 16 beyond private faith and personal salvation It is nothing less than a framework for understanding all of reality It is a worldview In How Now Shall We Live the 2000 Gold Medallion winner for best book about Christianity and society Chuck Colson and Nancy Pearcey show that the great spiritual battle today is a cosmic struggle between competing worldviews Through inspiring true stories and compelling teaching they demonstrate how to Expose the false views and values of modern culture Live a more fulfilling life the way God created us to live Contend for the faith by understanding how nonbelievers think Build a society that reflects biblical principles In short How Now Shall We Live will give you the confidence you need to make a difference in the world today and most of all in the lives of people around you

Proceedings of the Aristotelian Society for the Systematic Study of Philosophy Aristotelian Society (Great Britain),1913 Includes Report of the executive committee for 1887 88 1914 15 list of members in each volume

Beyond Chance and Necessity David Bohm,1974 **American Thought from Puritanism to Pragmatism**

Woodbridge Riley,1915 **Chance and Necessity** Jacques Monod,1971 A philosophical statement whose explicit intention is to sweep away as both false and dangerous the animist conception of man that has dominated virtually all Western world views from those of primitive cultures to those of dialectical materialists Monod bases his argument on the evidence of modern biology which shows indisputably that man is the product of chance genetic mutation He draws upon what we now know about genetic structure and on what we can theorize to suggest an entirely new way of looking at ourselves He argues

that objective scientific knowledge the only knowledge we can rely on denies the concepts of destiny or evolutionary purpose that underlie traditional philosophies and he contends that the persistence of those concepts is responsible for the intensifying schizophrenia of a world that accepts and lives by the fruits of science while refusing to face its momentous moral implications From publisher description *School*, 1920 *Students' Marks in College Courses* John Emlin Bohan, 1931 *Journal of Experimental Biology*, 2002

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