

JAMES E. STRICK

# SPARKS OF LIFE



DARWINISM AND THE  
VICTORIAN DEBATES OVER  
SPONTANEOUS GENERATION

# Sparks Of Life Darwinism And The Victorian Debates Over Spontaneous Generation

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## **Sparks Of Life Darwinism And The Victorian Debates Over Spontaneous Generation:**

*Sparks of Life* James E. Strick, Professor in the Dept of Earth and Environment and Chair of the Program in Science Technology and Society James E Strick, PhD, 2009-06-01 How asks James E Strick could spontaneous generation the idea that living things can suddenly arise from nonliving materials come to take root for a time even a brief one in so thoroughly unsuitable a field as British natural theology No less an authority than Aristotle claimed that cases of spontaneous generation were to be observed in nature and the idea held sway for centuries Beginning around the time of the Scientific Revolution however the doctrine was increasingly challenged attempts to prove or disprove it led to important breakthroughs in experimental design and laboratory techniques most notably sterilization methods that became the cornerstones of modern microbiology and sped the ascendancy of the germ theory of disease The Victorian debates Strick shows were entwined with the public controversy over Darwin's theory of evolution While other histories of the debates between 1860 and 1880 have focused largely on the experiments of John Tyndall Henry Charlton Bastian and others *Sparks of Life* emphasizes previously understudied changes in the theories that underlay the debates Strick argues that the disputes cannot be understood without full knowledge of the factional infighting among Darwinians themselves as they struggled to create a socially and scientifically viable form of Darwinian science He shows that even the terms of the debate such as biogenesis usually but incorrectly attributed to Huxley were intensely contested *Sparks of life : Darwinism and the Victorian debates over spontaneous generation* James Edgar Strick, 2000 Evolution and the Spontaneous Generation Debate H. Charlton Bastian, 2001-04-15 Carefully selected by James Strick this comprehensive collection of primary source materials resurrects the forgotten man of evolutionary theory Henry Charlton Bastian and opens a new window on controversies which divided the ranks of evolutionary naturalists The hostile reaction of Thomas Henry Huxley and his allies to Bastian's challenge that they accept the theory of spontaneous generation and the materialism connected with it shows just how far they were willing to go to sanitize evolutionary theory for public consumption while maintaining their own respectability Strick's collection is a vivid reminder of the volatile politics of evolution and the importance of not losing sight of the losers in scientific controversy Bernard Lightman Strick garners all the backbiting documents to show how crucial aspects of the Darwinian orthodoxy were made The knock down fight in the 1870s between Huxley and Tyndall and the brilliant pathology professor Henry Bastian was over the inclusion of spontaneous generation Bastian's initial success in justifying it and picking up rival medical support reveals that Huxley's evolutionary view was not an inevitable outcome The sparring in Strick's volumes proves that it took all of Huxley's and Tyndall's scientific rhetorical and darker skills to establish their version of Darwinism Adrian Desmond An invaluable resource for the understanding of the controversies on the origin of life on earth Dr Iris Fry Everybody knows that life's creation was the last redoubt of natural theology in the nineteenth century and spontaneous generation the atheists' siege weapon for destroying it Strick's authoritative collection breaks new ground by showing how unbelievers themselves

came to blows over the origin of life even Darwin's followers. Their contest for the Victorian moral heights is a case study of the politics of science and a timely reminder that arguments among public scientists are never simply about the facts. Dr James Moore's *Evolution and the Spontaneous Generation Debate* collects the rare primary works on the origin of life by Henry Charlton Bastian (1837-1915), one of the brightest young rising Darwinian stars of the time. It contains all Bastian's key works on this subject from his very first in 1871, *The Modes of Origin of Lowest Organisms*, through to one of his last, *The Evolution of Life* in 1907. The set also includes contemporary reviews and responses to Bastian's work which illustrate how emotive this theory was during the 1870s and why the likes of T. H. Huxley and John Tyndall went to extraordinarily great lengths to oppose Bastian. In the first two decades after the publication of Darwin's *On the Origin of Species* (1859), a lively often heated debate broke out about what the implications of Darwin's theory were for understanding the origin of life from non-living matter. Nowhere was the debate more acrimonious than among the Darwinians themselves. The response to Bastian's work was uniformly negative in Christian religious circles and created a tremendous response both negative and positive from the Darwinians. One faction including medical doctors and scientific journals strongly supported Bastian's ideas; another including Huxley, Tyndall and the powerful X Club fiercely attacked Bastian, eventually declaring him vanquished by 1878. This set contains examples of both reactions, including Huxley's famous *Biogenesis and Abiogenesis* address. This set is crucial to understanding the genesis of today's ideas about the origin of life. Much of the broad outlines of modern Darwinian ideas took shape in the debate over Bastian's work and have remained with us since. Featuring an introduction by James Strick, Assistant Professor of Biology and Society, Arizona State University, *Evolution and the Spontaneous Generation Debate* will amply reward study by scientists, physicians, historians of science and all in the modern scientific world who wish to better understand public controversy in science.

contains important writings by nineteenth century scientists on the spontaneous generation debate, an important case study of a Victorian debate on evolution crucial to understanding the development of the origin of life theory in the nineteenth century. *Space, Time, and Aliens* Steven J. Dick, 2020-05-11. In this comprehensive and interdisciplinary volume, former NASA Chief Historian Steven Dick reflects on the exploration of space, astrobiology and its implications, cosmic evolution, astronomical institutions, discovering and classifying the cosmos and the philosophy of astronomy. The unifying theme of the book is the connection between cosmos and culture, or what Carl Sagan many years ago called the cosmic connection. As both an astronomer and historian of science, Dr Dick has been both a witness to and a participant in many of the astronomical events of the last half century. This collection of papers presents his reflections over the last forty years in a way accessible to historians, philosophers and scientists alike. From the search for alien life to ongoing space exploration efforts, readers will find this volume full of engaging topics relevant to science, society and our collective future on planet Earth and beyond. *Charles Darwin's Incomplete Revolution* Richard G. Delisle, 2019-06-28. This book offers a thorough reanalysis of Charles Darwin's *Origin of Species* which for many people

represents the work that alone gave rise to evolutionism Of course scholars today know better than that Yet few resist the temptation of turning to the Origin in order to support it or reject it in light of their own work Apparently Darwin fills the mythical role of a founding figure that must either be invoked or repudiated The book is an invitation to move beyond what is currently expected of Darwin s magnum opus Once the rhetorical varnish of Darwin s discourses is removed one discovers a work of remarkably indecisive conclusions The book comprises two main theses 1 The Origin of Species never remotely achieved the theoretical unity to which it is often credited Rather Darwin was overwhelmed by a host of phenomena that could not fit into his narrow conceptual framework 2 In the Origin of Species Darwin failed at completing the full conversion to evolutionism Carrying many ill designed intellectual tools of the 17th and 18th centuries Darwin merely promoted a special brand of evolutionism one that prevented him from taking the decisive steps toward an open and modern evolutionism It makes an interesting read for biologists historians and philosophers alike Science and Christianity in Pulpit and Pew Ronald L. Numbers, 2007-09-10 These essays address broad topics such as the popularization of scientific ideas secularization and the development of the naturalistic worldview **The Cambridge Companion to Darwin** Michael Jonathan Sessions Hodge, 2009-03-05 This volume provides the reader with clear lively and balanced introductions to the most recent scholarship on Darwin and his intellectual legacies *World Soul* James Wilberding, 2021 Many philosophers and scientists over the course of history have held that the world is alive It has a soul which governs it and binds it together This suggestion once so wide spread may strike many of us today as strange and antiquated in fact there are few other concepts that on their face so capture the sheer distance between us and our philosophical inheritance But the idea of a world soul has held so strong a grip upon philosophers imaginations for over 2 000 years that it continues to underpin and even structure how we conceive of time and space The concept of the world soul is difficult to understand in large part because over the course of history it has been invoked to very different ends and within the frameworks of very different ontologies and philosophical systems with varying concepts of the world soul emerging as a result This volume brings together eleven chapters by leading philosophers in their respective fields that collectively explore the various ways in which this concept has been understood and employed covering the following philosophical areas Platonism Stoicism Medieval Indian or Ved ntic Kabbalah Renaissance Early Modern German Romanticism German Idealism American Transcendentalism and contemporary quantum mechanics and panpsychism theories In addition short reflections illuminate the impact the concept of the world soul has had on a small selection of areas outside of philosophy such as harmony the biological concept of spontaneous generation Henry Purcell psychoanalysis and Gaia theories Genesis - In The Beginning Joseph Seckbach, 2012-03-21 Genesis In The Beginning deals with the origin and diversity of Life and early biological evolution and discusses the question of where hot or cold sources and when the beginning of Life took place Among the sections are chapters dealing with prebiotic chemical processes and considering self replication of polymers in mineral habitats One

chapter is dedicated to the photobiological regime on early Earth and the emergence of Life This volume covers the role of symmetry information and order homochiral biomolecules in the beginning of Life The models of protocells and the genetic code with gene transfer are important topics in this volume Three chapters discuss the Panspermia hypothesis to answer Are we from outer Space Other chapters cover the Astrobiological aspects of Life in the Universe in extraterrestrial Planets of the Solar System and deal with cometary hydrosphere and its connection to Earth We conclude with the history and frontiers of Astrobiology

**Charles Darwin, Geologist** Sandra Herbert, 2005 Pleasure of imagination I a geologist have illdefined notion of land covered with ocean former animals slow force cracking surface c truly poetical from Charles Darwin s Notebook M 1838 The early nineteenth century was a golden age for the study of geology New discoveries in the field were greeted with the same enthusiasm reserved today for advances in the biomedical sciences In her long awaited account of Charles Darwin s intellectual development Sandra Herbert focuses on his geological training research and thought asking both how geology influenced Darwin and how Darwin influenced the science Elegantly written extensively illustrated and informed by the author s prodigious research in Darwin s papers and in the nineteenth century history of earth sciences Charles Darwin Geologist provides a fresh perspective on the life and accomplishments of this exemplary thinker As Herbert reveals Darwin s great ambition as a young scientist one he only partially realized was to create a simple geology based on movements of the earth s crust Only one part of his scheme has survived in close to the form in which he imagined it a theory explaining the structure and distribution of coral reefs Darwin collected geological specimens and took extensive notes on geology during all of his travels His grand adventure as a geologist took place during the circumnavigation of the earth by H M S Beagle 1831 1836 the same voyage that informed his magnum opus On the Origin of Species Upon his return to England it was his geological findings that first excited scientific and public opinion Geologists including Darwin s former teachers proved a receptive audience the British government sponsored publication of his research and the general public welcomed his discoveries about the earth s crust Because of ill health Darwin s years as a geological traveler ended much too soon his last major geological fieldwork took place in Wales when he was only thirty three However the experience had been transformative the methods and hypotheses of Victorian era geology Herbert suggests profoundly shaped Darwin s mind and his scientific methods as he worked toward a full blown understanding of evolution and natural selection

The New Foundations of Evolution Jan Sapp, 2009-07-24 This is the story of a profound revolution in the way biologists explore life s history understand its evolutionary processes and reveal its diversity It is about life s smallest entities deepest diversity and greatest cellular biomass the microbiosphere Jan Sapp introduces us to a new field of evolutionary biology and a new brand of molecular evolutionists who descend to the foundations of evolution on Earth to explore the origins of the genetic system and the primary life forms from which all others have emerged In so doing he examines from Lamarck to the present the means of pursuing the evolution of complexity and of depicting the greatest differences among organisms The New

Foundations of Evolution takes us into a world that classical evolutionists could never have imagined a deep phylogeny based on three domains of life and multiple kingdoms and created by mechanisms very unlike those considered by Darwin and his followers Evolution by leaps seems to occur regularly in the microbial world where molecular evolutionists have shown the inheritance of acquired genes and genomes are major modes of evolutionary innovation Revisiting the history of microbiology for the first time from the perspective of evolutionary biology Sapp shows why classical Darwinian conceptions centering on questions of the origin of species were forged without a microbial foundation why classical microbiologists considered it impossible to know the course of evolution and classical molecular biologists considered the evolution of the molecular genetic system to be beyond understanding In telling this stirring story of scientific iconoclasm this book elucidates how the new evolutionary biology arose what methods and assumptions underpin it and the fiery controversies that continue to shape biologists understanding of the foundations of evolution today

**God's Planet** Owen Gingerich, 2014-10-22 An eminent scholar shows how religious perspectives have played significant roles in major scientific discoveries and frameworks fascinating Choice Today science and religion are the two major cultural entities on our planet that seek a coherent explanation for the structure origins and fate of the universe and of humanity's place within it though their interpretation of evidence differs dramatically Many scientists look at the known universe and conclude we are here by chance The renowned astronomer and historian of science Owen Gingerich looks at the same evidence along with the fact that the universe is comprehensible to our minds and sees it as proof for the planning and intentions of a Creator God God's Planet exposes the fallacy in thinking that science and religion can be kept apart Gingerich frames his argument around three questions Was Copernicus right in dethroning Earth from its place at the center of the universe Was Darwin right in placing humans securely in an evolving animal kingdom And was Hoyle right in identifying physical constants in nature that seem singularly tuned to allow the existence of intelligent life on planet Earth Using these episodes from the history of science Gingerich demonstrates that cultural attitudes including religious or antireligious beliefs play a significant role in what passes as scientific understanding The more rigorous science becomes over time the more clearly God's handiwork can be comprehended Owen Gingerich provides new facts and deeper understanding of Copernicus Darwin Hoyle Freeman Dyson author of *The Scientist as Rebel* A short punchy accessible and thought provoking book Christian Century A rich volume you'll want to keep in your library Forbes.com

Science, Time and Space in the Late Nineteenth-Century Periodical Press James Mussell, 2017-05-15 James Mussell reads nineteenth century scientific debates in light of recent theoretical discussions of scientific writing to propose a new methodology for understanding the periodical press in terms of its movements in time and space That there is no disjunction between text and object is already recognized in science studies Mussell argues however this principle should also be extended to our understanding of print culture within its cultural context He provides historical accounts of scientific controversy documents references to time and space in the periodical press and follows

magazines and journals as they circulate through society to shed new light on the dissemination and distribution of periodicals authorship and textual authority and the role of mediation in material culture Well known writers like H G Wells and Arthur Conan Doyle are discovered in new contexts while other authors publishers editors and scientists are discussed for the first time Mussell is persuasive in showing how his methodology increases our understanding of the process of transformation and translation that underpins the production of print and informs current debates about the status of digital publication and the preservation of archival material in electronic forms Adding to the book s usefulness are an extended bibliography and a discussion of recent debates regarding digital publication

**The Correspondence of Charles Darwin: Volume 30, 1882** Charles Darwin, 2023-01-26 This volume is part of the definitive edition of letters written by and to Charles Darwin the most celebrated naturalist of the nineteenth century Notes and appendixes put these fascinating and wide ranging letters in context making the letters accessible to both scholars and general readers Darwin depended on correspondence to collect data from all over the world and to discuss his emerging ideas with scientific colleagues many of whom he never met in person The letters are published chronologically Darwin died in April 1882 but was active in science almost up until the end raising new research questions and responding to letters about his last book on earthworms The volume also contains a supplement of nearly 400 letters written between 1831 and 1880 many of which have never been published before

**Exploring the Origin, Extent, and Future of Life** Constance M. Bertka, 2009-09-03 Where did we come from Are we alone Where are we going These are the questions that define the field of astrobiology New discoveries about life on Earth the increasing numbers of extrasolar planets being identified and the technologies being developed to locate and characterize Earth like planets around other stars are continually challenging our views of nature and our connection to the rest of the universe In this book philosophers historians ethicists and theologians provide the perspectives of their fields on the research and discoveries of astrobiology A valuable resource for graduate students and researchers the book provides an introduction to astrobiology and explores subjects such as the implications of current origin of life research the possible discovery of extraterrestrial microbial life and the possibility of altering the environment of Mars

**Evolution and the Victorians** Jonathan Conlin, 2014-01-16 Charles Darwin s discovery of evolution by natural selection was the greatest scientific discovery of all time The publication of his 1859 book *On the Origin of Species* is normally taken as the point at which evolution erupted as an idea radically altering how the Victorians saw themselves and others This book tells a very different story Darwin s discovery was part of a long process of negotiation between imagination faith and knowledge which began long before 1859 and which continues to this day *Evolution and the Victorians* provides historians with a survey of the thinkers and debates implicated in this process from the late 18th century to the First World War It sets the history of science in its social and cultural context Incorporating text boxes illustrations and a glossary of specialist terms it provides students with the background narrative and core concepts necessary to engage with specialist historians such as Adrian

Desmond Bernard Lightman and James Secord Conlin skilfully synthesises material from a range of sources to show the ways in which the discovery of evolution was a collaborative enterprise pursued in all areas of Victorian society including many that do not at first appear scientific

**On the Organic Law of Change** Alfred Russel Wallace, James T. Costa, 2013-11-25  
 No detailed description available for On the Organic Law of Change

*Planets and Life* Woodruff T. Sullivan, III, John Baross, 2007-09-13  
 Astrobiology involves the study of the origin and history of life on Earth planets and moons where life may have arisen and the search for extraterrestrial life It combines the sciences of biology chemistry palaeontology geology planetary physics and astronomy This textbook brings together world experts in each of these disciplines to provide the most comprehensive coverage of the field currently available Topics cover the origin and evolution of life on Earth the geological physical and chemical conditions in which life might arise and the detection of extraterrestrial life on other planets and moons The book also covers the history of our ideas on extraterrestrial life and the origin of life as well as the ethical philosophical and educational issues raised by astrobiology Written to be accessible to students from diverse backgrounds this text will be welcomed by advanced undergraduates and graduates who are taking astrobiology courses

Reader's Guide to British History David Loades, 2020-12-17  
 The Reader's Guide to British History is the essential source to secondary material on British history This resource contains over 1 000 A Z entries on the history of Britain from ancient and Roman Britain to the present day Each entry lists 6-12 of the best known books on the subject then discusses those works in an essay of 800 to 1 000 words prepared by an expert in the field The essays provide advice on the range and depth of coverage as well as the emphasis and point of view espoused in each publication

*The Cambridge Companion to the 'Origin of Species'* Robert J. Richards, 2008-11-24  
 The Origin of Species by Charles Darwin is universally recognised as one of the most important science books ever written The Origin of Species is also a work of great cultural and religious significance in that Darwin maintained that all organisms including humans are part of a natural process of growth from simple forms This Companion commemorates the 150th anniversary of the publication of the Origin of Species and examines its main arguments Drawing on the expertise of leading authorities in the field it also provides the contexts religious social political literary and philosophical in which the Origin was composed Written in a clear and friendly yet authoritative manner this volume will be essential reading for both scholars and students More broadly it will appeal to general readers who want to learn more about one of the most important and controversial books of modern times

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