

The Species Problem

Biological Species,
Ontology, and the
Metaphysics of Biology

DAVID N. STAMOS

Species Problem Biological Species Ontology And The Metaphysics Of Biology

Sidney Dobrin



Species Problem Biological Species Ontology And The Metaphysics Of Biology:

The Species Problem David N. Stamos, 2003-01-01 Stamos squarely confronts the problem of determining what a biological species is whether species are real and the nature of their reality He critically considers the evolution of the major contemporary views of species and also offers his own solution to the species problem *The Species Problem* Igor Pavlinov, 2013-02-06 The book includes collection of theoretical papers dealing with the species problem which is among most fundamental issues in biology The principal topics are consideration of the species problem from the standpoint of modern non classical science paradigm with emphasis on its conceptual status presuming its analysis within certain conceptual framework evolutionary emergence of the species as discrete unit of certain level of generality epistemological consideration of the species as a particular explanatory hypotheses with respective revised concepts of biodiversity and conservation considerations of evolutionary and phylogenomic species concepts as candidates for the universal one re appraisal of the biological species concept based on the friend foe recognition system species delimitation approach using multi locus coalescent based method a re consideration of the Darwin s species concept **The Species Problem** Igor Ya. Pavlinov, 2023-02-24 The general notion of species is one of the most fundamental in biology But an idea of species is also one of the most persistent unresolved obsessions of biologists philosophers and theoreticians This new book investigates the multifaceted problem species as a conceptual envelope of that notion Contemporary conceptualists and evolutionary epistemology allow for a fresh look by analyzing the framework of history viewed as changes ordered by changing philosophical scientific contexts In this analysis the species problem is characterized in a pluralistic non trivial manner in contrast to a more monistic accepted view Key Features Provides new insights into the persistent species problem Focuses on conceptual history and identifies pivotal landmarks in the history of the concept of species Argues for a scientific consistency of species pluralism Discusses the evolving species hood in the context of new essentialism Related Titles Wilkins J S et al eds Species Problems and Beyond Contemporary Issues in Philosophy and Practice ISBN 978 1 0322 2147 2 Mishler B D What if anything are species ISBN 978 1 4987 1454 9 Wilkins J S Species The Evolution of the Idea Second Edition ISBN 978 1 1380 5574 2 Sigwart J D What Species Mean A User s Guide to the Units of Biodiversity ISBN 978 1 4987 9937 9

Species Problems and Beyond John S. Wilkins, Frank E. Zachos, Igor Ya. Pavlinov, 2022-06-14 Species Problems and Beyond offers a collection of up to date essays discussing from an interdisciplinary perspective the many ramifications of the Species Problem The authors represent experts in the philosophy of biology in species level evolutionary investigations and in biodiversity studies and conservation Some of the topics addressed concern the context sensitivity of the term species species as individuals processes natural kinds or as operative concepts species delimitation in the age of Big genomic Data and taxonomic inflation and its consequences for conservation strategies The carefully edited volume will be an invaluable resource for philosophers of biology and evolutionary biologists alike Olivier Rieppel Rowe Family Curator of Evolutionary

Biology Negaunee Integrative Research Center Field Museum USA Species or the Species Problem is a topic in science in the philosophy of science and in general philosophy In fact it encompasses many aspects of the same problem and these are dealt with in this volume Species are often thought of as fundamental units of biological matter to be used in ecology conservation classification and biodiversity The chapters in this book present opposing views on the current philosophical and conceptual issues of the Species Problem in biology Divided into four sections Concepts and Theories Practice and Methods Ranks and Trees and Names and Metaphysics and Epistemologies the book is authored by biologists philosophers and historians many leaders in their fields Topics include ontology of species definitions of both species category and units species rank speciation issues nomenclature ecology and species conservation Species Problems and Beyond aims to clarify the contemporary issues of the Species Problem It is ideal for use in upper level seminars and courses in Evolutionary Biology Philosophy of Science Philosophy of Biology Systematics and Taxonomy and Phylogenetics Cladistics and for any scholar in these fields *The Cambridge Companion to the 'Origin of Species'* Michael Ruse, Robert J. Richards, 2009 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 written

Real Essentialism David S. Oderberg, 2007-11-13 Real Essentialism presents a comprehensive defence of neo Aristotelian essentialism Do objects have essences Must they be the kinds of things they are in spite of the changes they undergo Can we know what things are really like can we define and classify reality Many if not most philosophers doubt this influenced by centuries of empiricism and by the anti essentialism of Wittgenstein Quine Popper and other thinkers Real Essentialism reinvigorates the tradition of realist essentialist metaphysics defending the reality and knowability of essence the possibility of objective immutable definition and its relevance to contemporary scientific and metaphysical issues such as whether essence transcends physics and chemistry the essence of life the nature of biological species and the nature of the person

Genetics and Evolution of Infectious Diseases Michel Tibayrenc, 2010-12-17 Genetics and Evolution of Infectious Diseases is at the crossroads between two major scientific fields of the 21st century evolutionary biology and infectious diseases The genomic revolution has upset modern biology and has revolutionized our approach to ancient disciplines such as evolutionary studies In particular this revolution is profoundly changing our view on genetically driven human phenotypic diversity and this is especially true in disease genetic susceptibility Infectious diseases are indisputably the major challenge of medicine When looking globally they are the number one killer of humans and therefore the main selective pressure exerted on our species Even in industrial countries infectious diseases are now far less under control than 20 years ago The first part of this book covers the main features and applications of modern technologies in the study of infectious diseases The second part provides detailed information on a number of the key infectious diseases such as malaria SARS avian flu HIV tuberculosis nosocomial infections and a few other pathogens that will be taken as

examples to illustrate the power of modern technologies and the value of evolutionary approaches Takes an integrated approach to infectious diseases Includes contributions from leading authorities Provides the latest developments in the field

Biosemiotics and Evolution Elena Pagni,Richard Theisen Simanke,2022-01-03 This book reviews the evolution of Biosemiotics and gives an outlook on the future of this interdisciplinary new discipline In this volume the foundations of symbolism are transformed into a phenomenological technological philosophical and psychological discussion enriching the readers knowledge of these foundations It offers the opportunity to rethink the impact that evolution theory and the confirmations about evolution as a historical and natural fact has had and continues to have today The book is divided into three parts Part I Life Meaning and Information Part II Semiosis and Evolution Part III Physics medicine and bioenergetics It starts by laying out a general historical philosophical and scientific framework for the collection of studies that will follow In the following some of the main reference models of evolutionary theories are revisited Extended Synthesis Formal Darwinism and Biosemiotics The authors shed new light on how to rethink the processes underlying the origins and evolution of knowledge the boundary between teleonomic and teleological paradigms of evolution and their possible integration the relationship between linguistics and biological sciences especially with reference to the concept of causality biological information and the mechanisms of its transmission the difference between physical and biosemiotic intentionality as well as an examination of the results offered or deriving from the application in the economics and the engineering of design of biosemiotic models for the transmission of culture digitalization and proto design This volume is of fundamental scientific and philosophical interest and seen as a possibility for a dialogue based on theoretical and methodological pluralism The international nature of the publication with contributions from all over the world will allow a further development of academic relations at the service of the international scientific and humanistic heritage *Darwin, God and the Meaning of Life* Steve Stewart-Williams,2010-09-30 If you accept evolutionary theory can you also believe in God Are human beings superior to other animals or is this just a human prejudice Does Darwin have implications for heated issues like euthanasia and animal rights Does evolution tell us the purpose of life or does it imply that life has no ultimate purpose Does evolution tell us what is morally right and wrong or does it imply that ultimately nothing is right or wrong In this fascinating and intriguing book Steve Stewart Williams addresses these and other fundamental philosophical questions raised by evolutionary theory and the exciting new field of evolutionary psychology Drawing on biology psychology and philosophy he argues that Darwinian science supports a view of a godless universe devoid of ultimate purpose or moral structure but that we can still live a good life and a happy life within the confines of this view **The Palgrave Handbook of Biology and Society** Maurizio Meloni,John Cromby,Des Fitzgerald,Stephanie Lloyd,2017-10-27 This comprehensive handbook synthesizes the often fractured relationship between the study of biology and the study of society Bringing together a compelling array of interdisciplinary contributions the authors demonstrate how nuanced attention to both the biological and social sciences

opens up novel perspectives upon some of the most significant sociological anthropological philosophical and biological questions of our era The six sections cover topics ranging from genomics and epigenetics to neuroscience and psychology to social epidemiology and medicine The authors collaboratively present state of the art research and perspectives in some of the most intriguing areas of what can be called biosocial and biocultural approaches demonstrating how quickly we are moving beyond the acrimonious debates that characterized the border between biology and society for most of the twentieth century This landmark volume will be an extremely valuable resource for scholars and practitioners in all areas of the social and biological sciences The chapter Ten Theses on the Subject of Biology and Politics Conceptual Methodological and Biopolitical Considerations is open access under a CC BY 4.0 license via link.springer.com Versions of the chapters The Transcendence of the Social Scrutinizing the Epigenetics Revolution Species of Biocapital 2008 and Speciating Biocapital 2017 and Experimental Entanglements Social Science and Neuroscience Beyond Interdisciplinarity are available open access via third parties For further information please see license information in the chapters or on link.springer.com

Myth of Universal Human Rights David N. Stamos, 2015-11-17 In this groundbreaking and provocative new book philosopher of science David N. Stamos challenges the current conceptions of human rights and argues that the existence of universal human rights is a modern myth Using an evolutionary analysis to support his claims Stamos traces the origin of the myth from the English Levellers of 1640s London to our modern day Theoretical defenses of the belief in human rights are critically examined including defenses of nonconsensus concepts In the final chapter Stamos develops a method of naturalized normative ethics which he then applies to topics routinely dealt with in terms of human rights In all of this Stamos hopes to show that there is a better way of dealing with matters of ethics and justice a way that involves applying the whole of our evolved moral being rather than only parts of it and that is fiction free

Species Concepts in Biology Frank E. Zachos, 2016-10-05 Frank E. Zachos offers a comprehensive review of one of today's most important and contentious issues in biology the species problem After setting the stage with key background information on the topic the book provides a brief history of species concepts from antiquity to the Modern Synthesis followed by a discussion of the ontological status of species with a focus on the individuality thesis and potential means of reconciling it with other philosophical approaches More than 30 different species concepts found in the literature are presented in an annotated list and the most important ones including the Biological Genetic Evolutionary and different versions of the Phylogenetic Species Concept are discussed in more detail Specific questions addressed include the problem of asexual and prokaryotic species intraspecific categories like subspecies and Evolutionarily Significant Units and a potential solution to the species problem based on a hierarchical approach that distinguishes between ontological and operational species concepts A full chapter is dedicated to the challenge of delimiting species by means of a discrete taxonomy in a continuous world of inherently fuzzy boundaries Further the book outlines the practical ramifications for ecology and evolutionary biology of how we define the species category highlighting

the danger of an apples and oranges problem if what we subsume under the same name species is in actuality a variety of different entities A succinct summary chapter glossary and annotated list of references round out the coverage making the book essential reading for all biologists looking for an accessible introduction to the historical philosophical and practical dimensions of the species problem Ecology, Writing Theory, and New Media Sidney Dobrin, 2011-12-22 Moving beyond ecomposition this book galvanizes conversations in ecology and writing not with an eye toward homogenization but with an agenda of firmly establishing the significance of writing research that intersects with ecology It looks to establish ecological writing studies not just as a legitimate or important form of writing research but as paramount to the future of writing studies and writing theory Complex ecologies writing studies and new media post media converge to highlight network theories systems theories and posthumanist theories as central in the shaping of writing theory and this study embraces work in these areas as essential to the development of ecological theories of writing Contributors address ecological theories of writing by way of diverse and promising avenues united by the underlying commitment to better understand how ecological methodologies might help better inform our understanding of writing and might provoke new theories of writing Ecology Writing Theory and New Media fuels future theoretical conversations about ecology and writing and will be of interest to those who are interested in theories of writing and the function of writing *An Aristotelian Account of Induction* Louis F. Groarke, 2009-11-01 In *An Aristotelian Account of Induction* Groarke discusses the intellectual process through which we access the first principles of human thought the most basic concepts the laws of logic the universal claims of science and metaphysics and the deepest moral truths Following Aristotle and others Groarke situates the first stirrings of human understanding in a creative capacity for discernment that precedes knowledge even logic Relying on a new historical study of philosophical theories of inductive reasoning from Aristotle to the twenty first century Groarke explains how Aristotle offers a viable solution to the so called problem of induction while offering new contributions to contemporary accounts of reasoning and argument and challenging the conventional wisdom about induction Darwin and the Nature of Species David N. Stamos, 2012-02-01 Since the 1859 publication of *On the Origin of Species* the concept of species in biology has been widely debated with its precise definition far from settled And yet amazingly there have been no books devoted to Charles Darwin's thinking on the term until now David N Stamos gives us a groundbreaking historical reconstruction of Darwin's detailed yet often misinterpreted thoughts on this complex concept Stamos provides a thorough and detailed analysis of Darwin's extensive writings both published and unpublished in order to reveal Darwin's actual species concept Stamos argues that Darwin had a unique evolutionary species concept in mind one that was not at all a product of his time Challenging currently accepted views that believe Darwin was merely following the species ascriptions of his fellow naturalists Stamos works to prove that this prevailing nominalistic view should be overturned This book also addresses three issues pertinent to the philosophy of science the modern species problem the nature of concept change in scientific revolutions and the contextualist

trend in professional history of science **The Ethics of Animal Re-creation and Modification** M. Oksanen,H. Siipi,2014-02-07 Would it be cool to see woolly mammoth alive one day Disappeared species have always fascinated the human mind A new discussion of using genomic technologies to reverse extinction and to help in conservation has been sparked This volume studies the question philosophically John Locke and Natural Philosophy Peter R. Anstey,2013-04-04 Peter Anstey presents a thorough and innovative study of John Locke s views on the method and content of natural philosophy Focusing on Locke s Essay concerning Human Understanding but also drawing extensively from his other writings and manuscript remains Anstey argues that Locke was an advocate of the Experimental Philosophy the new approach to natural philosophy championed by Robert Boyle and the early Royal Society who were opposed to speculative philosophy On the question of method Anstey shows how Locke s pessimism about the prospects for a demonstrative science of nature led him in the Essay to promote Francis Bacon s method of natural history and to downplay the value of hypotheses and analogical reasoning in science But according to Anstey Locke never abandoned the ideal of a demonstrative natural philosophy for he believed that if we could discover the primary qualities of the tiny corpuscles that constitute material bodies we could then establish a kind of corpuscular metric that would allow us a genuine science of nature It was only after the publication of the Essay however that Locke came to realize that Newton s Principia provided a model for the role of demonstrative reasoning in science based on principles established upon observation and this led him to make significant revisions to his views in the 1690s On the content of Locke s natural philosophy it is argued that even though Locke adhered to the Experimental Philosophy he was not averse to speculation about the corpuscular nature of matter Anstey takes us into new terrain and new interpretations of Locke s thought in his explorations of his mercurialist transmutational chymistry his theory of generation by seminal principles and his conventionalism about species **Environmental Philosophy** Hugh P. McDonald,2014-05-10 Environmental Philosophy A Revaluation of Cosmopolitan Ethics from an Ecocentric Standpoint calls for a new approach to ethics Starting from the necessity for all life of air water and food the book revalues the relation of ethics and environmentalism Using insights of the environmental ethicists environmental ethics becomes the model for ethics as a whole Humans are part of a larger environment Cosmopolitanism should be revised in accord with environmental ethics The book applies a new theory of values to the relation of value and obligation and of duty rights and virtue to accord with ecocentrism The book also critically evaluates Utilitarianism and the self interest theory Other chapters address population species preservation and a practical program for environmental policy **Ending Midlife Bias** Nancy S. Jecker,2020-05-01 We live at a time when the human lifespan has increased like never before As average lifespans stretch to new lengths what impact should this have on our values Should our values change over the course of our ever increasing lifespans Nancy S Jecker coins the term the life stage relativity of values to capture the idea that at different stages of our lives different ethical concerns shift to the foreground During early life infants and small children hold dear the value of being cared for and

nurtured by someone they trust and their vulnerability and dependency make these the right values for them. By early adulthood and continuing into midlife, the capacity for greater physical and emotional independence gives people reason to place more emphasis on autonomy and the ability to freely choose and carry out their plan of life. During old age, heightened risk for chronic disease and disability gives us a reason to shift our focus again, emphasizing safeguarding our central capabilities and keeping our dignity and self respect intact. Despite different values becoming central at different stages of life, we often assume the standpoint of someone in midlife who is in the midst of planning a future adulthood that stretches out before them. Jecker coins the term midlife bias to refer to the privileging of midlife. Midlife bias occurs when we assume that autonomy should be our central aim at all life stages and give it priority in a wide range of ethical decisions. The privileging of midlife raises fundamental problems of fairness. It also suggests the possibility of large gaps in the ethical principles and theories at hand. Ending Midlife Bias: New Values for Old Age addresses these concerns in a step wise fashion focusing on later life. Jecker first introduces a philosophical framework that extends moral theorizing to older adults, addressing midlife bias, the life stage relativity of values, human capabilities and dignity, time's passage, the narrative self and justice between old and young. She then turns to policy and practice and explores ethical issues in bioethics, long term care, personal robotic assistants, care of the dying and newly dead, ageism in medical research, the allocation of healthcare, mandatory retirement and the future of population aging.

Darwin's Pious Idea Conor Cunningham, 2010-12-03. According to British scholar Conor Cunningham, the debate today between religion and evolution has been hijacked by extremists: on one side stand fundamentalist believers who reject evolution outright; on the opposing side are fundamentalist atheists who claim that Darwin's theory rules out the possibility of God. Both sides are dead wrong, argues Cunningham, who is at once a Christian and a firm believer in the theory of evolution. In *Darwin's Pious Idea*, Cunningham puts forth a trenchant, compelling case for both creation and evolution, drawing skillfully on an array of philosophical, theological, historical and scientific sources to buttress his arguments.

Species Problem Biological Species Ontology And The Metaphysics Of Biology: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Species Problem Biological Species Ontology And The Metaphysics Of Biology : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Species Problem Biological Species Ontology And The Metaphysics Of Biology : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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